

STATE EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR

Ref. No- 190

Patna- 23, Date- 26/08/2020

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
18.08.2020.

Sir,

Please find enclosed herewith proceedings of the State Expert Appraisal Committee
(SEAC) meeting held on 18th August, 2020.

Yours sincerely,



26/8/20

(Alok Kumar)
Member Secretary
SEAC, Bihar

Proceedings of the State Expert Appraisal Committee (SEAC) meeting dated 18th August, 2020-

The meeting of SEAC was held through video conferencing on 18th August, 2020 as per the reschedule letter No.175 dated- 07.08.2020. The meeting was held utilizing facilities curtsey Bihar State Pollution Control Board, Patna and attended to 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

1. Proposed expansion project of Distillery from 60 KLD to 80 KLD, expansion of Sugar Mill from 7,500 to 9,000 TCD, along with co-generation power plant from 5.10 MW to 10.25 MW at Village:- Narkatiyaganj, P.O.- Narkatiyaganj, Tehsil:- Narkatiyaganj, District:- West Champaran, Bihar by Magadh Sugar and Energy Limited Unit : New Swadeshi Sugar Mills (File No. - SIA/5(g)5(j)/981/20). **Online Proposal No.:- SIA/BR/IND2/48586/2006).**

Proponent:- M/s Magadh Sugar and Energy Limited Unit : New Swadeshi Sugar Mills.

Consultant: - PARAMARSH (Servicing Environment and Development).

Application along with filled up 'Form - I', Pre-feasibility Report and Environment Management Plan in the prescribed format was submitted to MoEF&CC on 19th March, 2019 for obtaining Terms of Reference (ToR). MoEF&CC issued ToR Vide No. - J-11011/373/2006-IA-II (I), dated 25.04.2019 and Public Consultation for the proposed project was conducted by Bihar State Pollution Control Board on 18.11.2019.

Final EIA report was submitted by Project Proponent in the prescribed format to SEIAA, Bihar on 10.01.2020 for obtaining Environmental Clearance (EC).

Earlier in the meeting dated 19th, 21st and 22nd May, 2020, the Committee had directed the Project Proponent to submit documents as mentioned in the proceedings of that meeting. The Project Proponent has complied. The Committee considered the compliance as submitted by the Project Proponent and decided to recommend the proposal for grant of Environmental Clearance as per conditions given in Annexure – I along with following specific conditions: -

1. Regular water sprinkling shall be done between ROB and Plant premises on Lauria - Shikarpur-Thori road and on all other peripheral roads used for transportation of raw material and finished products within 1 Km from the plant boundary to minimize air pollution during operation season.
2. CTO be issued for expanded capacity only after ascertaining compliance on all issues as pointed out by SPCB or Regional Office of MoEF&CC.

2. 500 Bedded Government Hospital, Village:- Chhitwara Kapur, Tehsil:- Mahua, District- Vaishali, State:- Bihar, Total Plot Area - 80,937.13 m², Total Built-up Area - 1,15,337 m² (File No. - SIA/8(a)/1232/2020), Online Proposal No.:- SIA/BR/MIS/129827/2019).
Proponent:-Health Department, Govt. of Bihar
Consultant: - Geogreen Eviro House Private Limited, Lucknow.

Application along with filled up 'Form - I', Form - I (A) and Conceptual Plan in the prescribed format was submitted to SEIAA, Bihar on 18th February, 2020 for obtaining Environmental Clearance (EC).

The Proponent and the Consultant presented the proposal before the Committee. The Committee considered the presentation and suggested the following to be incorporated: -

1. The Project location is bounded from almost three sides by Baya River which is flooded almost every year. The entire project site needs to be developed keeping in view the HFL/high water logging level and drainage plan needs to be prepared diligently.

2. The water balance chart is taken from another project as admitted by the consultant while it must be project specific.
3. The CER proposal needs to be made specific in accordance with the local requirement which are detailed out.
4. The detailed drainage plan / storm water disposal plan must be worked out in accordance with contour map of the area.
5. Since the project is located near a perennial source of water (Baya River). The dependence on ground water must be avoided as far as possible and provision for use of surface water post treatment may be included in the proposal.
6. Revised Form -1 to be submitted.
7. Baseline environmental data for one month shall be collected to predict increase in GLC concentration including present and predicted traffic load.

Consideration of Scoping

Sand Mining Project – Patna District

1. Sand Mining Project on Son River at Patna Son 16 Balu Ghat, of District- Patna, Area - 63.40 Ha (File No. - SIA/1(a)/1219/2020), Online Proposal No.:- SIA/BR/MIN/52707/2020).
Proponent:- M/s Chandan Kumar.
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 19th June, 2020 for obtaining Terms of Reference (ToR).

3. Sand Mining Project on Son River at Patna Son 36 Balu Ghat, of District- Patna, Area - 61.20 Ha (File No. - SIA/1(a)/1226/2020), Online Proposal No.:- SIA/BR/MIN/52743/2020).
Proponent:- M/s Champion Om Dev Construction 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 18th June, 2020 for obtaining Terms of Reference (ToR).

9. Sand Mining Project on Son River at Patna Son 42 Balu Ghat, of District- Patna, Area - 64.70 Ha (File No. - SIA/1(a)/1227/2020), Online Proposal No.:- SIA/BR/MIN/52992/2020).

Proponent:- M/s Bheem Prasad.

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 18th June, 2020 for obtaining Terms of Reference (ToR).

10. Sand Mining Project on Son River at Patna Son 09 Balu Ghat, of District- Patna, Area - 40.0 Ha (File No. - SIA/1(a)/1218/2020), Online Proposal No.:- SIA/BR/MIN/51509/2020).

Proponent :- M/s P. B. Trading 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 18th June, 2020 for obtaining Terms of Reference (ToR).

11. Sand Mining Project on Son River at Patna Son 05 Balu Ghat, of District- Patna, Area - 40.0 Ha (File No. - SIA/1(a)/1217/2020), Online Proposal No.:- SIA/BR/MIN/52076/2020).

Proponent:- M/s Panther Unit Infrastructure 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 29th June, 2020 for obtaining Terms of Reference (ToR).

13. Sand Mining Project on Son River at Patna Son 18 Balu Ghat, of District- Patna, Area - 75.00 Ha (File No. - SIA/1(a)/1220/2020), Online Proposal No.:- SIA/BR/MIN/51705/2020).

Proponent :- M/s Usha Complete Wire and Cable 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 18th June, 2020 for obtaining Terms of Reference (ToR).

14. Sand Mining Project on Son River at Patna Son 23 Balu Ghat, of District- Patna, Area - 40.60 Ha (File No. - SIA/1(a)/1223/2020), Online Proposal No.:- SIA/BR/MIN/51691/2020).

Proponent:- M/s Rama Uday Pratap 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 23rd June, 2020 for obtaining Terms of Reference (ToR).

21. Sand Mining Project on Son River at Patna Son 20 Balu Ghat, of District- Patna, Area - 66.60 Ha (File No. - SIA/1(a)/1223/2020), Online Proposal No.:- SIA/BR/MIN/51691/2020).

Proponent:- M/s Bansidhar Construction 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 18th June, 2020 for obtaining Terms of Reference (ToR).



22. Sand Mining Project on Son River at Patna Son 33 Balu Ghat, of District- Patna, Area - 30.40 Ha (File No. - SIA/1(a)/1225/2020), Online Proposal No.:- SIA/BR/MIN/51832/2020).

Proponent:- M/s Bansidhar Construction 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 29th June, 2020 for obtaining Terms of Reference (ToR).

23. Sand Mining Project on Son River at Patna Son 32 Balu Ghat, of District- Patna, Area - 26.90 Ha (File No. - SIA/1(a)/1224/2020), Online Proposal No.:- SIA/BR/MIN/52742/2020).

Proponent:- M/s Ajeet Kumar.

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 23rd June, 2020 for obtaining Terms of Reference (ToR).

24. Sand Mining Project on Son River at Patna Son 19 Balu Ghat, of District- Patna, Area - 64.0 Ha (File No. - SIA/1(a)/1221/2020). Online Proposal No.:- SIA/BR/MIN/52714/2020).

Proponent:- M/s Bhojpur Freezing 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 25th June, 2020 for obtaining Terms of Reference (ToR).

Sand Mining Project Gava District

2. Sand Mining Project on Morhar River at Gaya Morhar 21 Balu Ghat, of District- Gaya, Area - 99.0 Ha (File No. - SIA/1(a)/1230/2020). Online Proposal No.:- SIA/BR/MIN/52127/2019).

Proponent:- M/s Axis Overseas 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 18th June, 2020 for obtaining Terms of Reference (ToR).

15. Sand Mining Project on Morhar River at Gaya Morhar 17 Balu Ghat, of District- Gaya, Area - 96.0 Ha (File No. - SIA/1(a)/1229/2020), Online Proposal No.:- SIA/BR/MIN/51591/2020).

Proponent:- M/s Infinity Mining 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 18th June, 2020 for obtaining Terms of Reference (ToR).

16. Sand Mining Project on Morhar River at Gaya Morhar 31 Balu Ghat, of District- Gaya, Area - 99.0 Ha (File No. - SIA/1(a)/1231/2020), Online Proposal No.:- SIA/BR/MIN/51651/2020).

Proponent:- M/s Rudra Mining 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 19th June, 2020 for obtaining Terms of Reference (ToR).

25. Sand Mining Project on Morhar River at Gaya Morhar 11 Balu Ghat, of District- Gaya, Area 94.70 Ha (File No. SIA/1(a)/1228/2020), Online Proposal No.:- SIA/BR/MIN/53137/2020).



Proponent:- M/s Sharktank Telecast 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 19th June, 2020 for obtaining Terms of Reference (ToR).

Sand Mining Project – Rohtas District

4. Sand Mining Project on Son River at Rohtas Son 23 Balu Ghat, of District- Rohtas, Area - 98.0 Ha (File No. - SIA/1(a)/1212/2020), Online Proposal No.:- SIA/BR/MIN/51326/2020).

Proponent:- M/s Champion Omdev Construction Limited.

Consultant:- Chandigarh Pollution Testing Laboratory.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 19th June, 2020 for obtaining Terms of Reference (ToR).

5. Sand Mining Project on Son River at Rohtas Son 13 Balu Ghat, of District- Rohtas, Area - 92.20 Ha (File No. - SIA/1(a)/1207/2020), Online Proposal No.:- SIA/BR/MIN/51323/2020).

Proponent:- M/s Upendra Singh Construction Private Limited.

Consultant:- Chandigarh Pollution Testing Laboratory.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 26th June, 2020 for obtaining Terms of Reference (ToR).

6. Sand Mining Project on Son River at Rohtas Son 19 Balu Ghat, of District- Rohtas, Area - 98.0 Ha (File No. - SIA/1(a)/1209/2020), Online Proposal No.:- SIA/BR/MIN/51911/2020).

Proponent:- M/s Shyaml Kishor Singh.



Consultant:- Chandigarh Pollution Testing Laboratory.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 19th June, 2020 for obtaining Terms of Reference (ToR).

7. Sand Mining Project on Son River at Rohtas Son 20 Balu Ghat, of District- Rohtas, Area – 98.0 Ha (File No. - SIA/1(a)/1210/2020), Online Proposal No.:- SIA/BR/MIN/51999/2020).

Proponent:- M/s Upendra Nikhils Hitech Construction Private Limited.

Consultant:- Chandigarh Pollution Testing Laboratory.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 19th June, 2020 for obtaining Terms of Reference (ToR).

8. Sand Mining Project on Son River at Rohtas Son 21 Balu Ghat, of District- Rohtas, Area – 99.0 Ha (File No. - SIA/1(a)/1211/2020), Online Proposal No.:- SIA/BR/MIN/51435/2020).

Proponent:-M/s Champak Dealers Private Limited.

Consultant:- Chandigarh Pollution Testing Laboratory.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 19th June, 2020 for obtaining Terms of Reference (ToR).

20. Sand Mining Project on Son River at Rohtas Son 08 Balu Ghat, of District- Rohtas, Area – 70.0 Ha (File No. - SIA/1(a)/1206/2020), Online Proposal No.:- SIA/BR/MIN/52997/2020).

Proponent:- M/s Kishanganj Jute Mills Limited.

Consultant:- Chandigarh Pollution Testing Laboratory.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 23rd June, 2020 for obtaining Terms of Reference (ToR).

27. Sand Mining Project on Son River at Rohtas Son 16 Balu Ghat, of District- Rohtas, Area – 94.50 Ha (File No. - SIA/1(a)/1208/2020), Online Proposal No.:- SIA/BR/MIN/51320/2020).

Proponent:- M/s Champion Group of Company.

Consultant:- Chandigarh Pollution Testing Laboratory.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 23rd June, 2020 for obtaining Terms of Reference (ToR).

Sand Mining Project – Aurangabad District

17. Sand Mining Project on Son River at Aurangabad Son 13 Balu Ghat, of District- Aurangabad, Area – 99.0 Ha (File No. - SIA/1(a)/1213/2020), Online Proposal No.:- SIA/BR/MIN/52575/2020).

Proponent:- M/s Kamma Automobiles.

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 18th June, 2020 for obtaining Terms of Reference (ToR).

18. Sand Mining Project on Son River at Aurangabad Son 22 Balu Ghat, of District- Aurangabad, Area – 55.20 Ha (File No. - SIA/1(a)/1216/2020), Online Proposal No.:- SIA/BR/MIN/52599/2020).

Proponent:- M/s Chandrashekhar Singh.

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 18th June, 2020 for obtaining Terms of Reference (ToR).

26. Sand Mining Project on Son River at Aurangabad Son 20 Balu Ghat, of District- Aurangabad, Area – 98.20 Ha (File No. - SIA/1(a)/1215/2020), Online Proposal No.:- SIA/BR/MIN/51229/2020).

Proponent:- M/s Sanju 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 18th June, 2020 for obtaining Terms of Reference (ToR).

28. Sand Mining Project on Son River at Aurangabad Son 19 Balu Ghat, of District- Aurangabad, Area – 99.0 Ha (File No. - SIA/1(a)/1214/2020), Online Proposal No.:- SIA/BR/MIN/51306/2020).

Proponent:- M/s Mahavir Steel Industries.

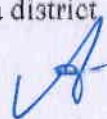
Consultant:- Center for Envirotech and Management Consultancy Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 18th June, 2020 for obtaining Terms of Reference (ToR).

The above-mentioned Sand Mining proposals (Agenda Sl. No. 1,3,9,10,11,13,14,21,22,23,24,2,15,16,25,4,5,6,7,8,20,27,17,18,26,28) 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



Calcined Petroleum Coke Plant

12. Proposed expansion of existing Calcined Petroleum Coke Plant (Unit-II) through enhancement of existing production capacity from 23,725 MTPA to 80,000 MTPA Calcined Pet Coke (CPC), Village- Moshadpur, P.O.- Tiltrath, P.S.- Barauni Oil Refinery, District- Begusaraj, State- Bihar. (File No. - SIA/4(b)/693/19), Online Proposal No.:- SIA/BR/IND/31878/2019).

Proponent:- M/s Carbon Resources Private Limited.

Consultant:- Envirotech East Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 24th July, 2019 for obtaining Terms of Reference (ToR).

Earlier in the meeting dated 27th and 28th February, 2020, the Committee had directed the Project Proponent to submit documents as mentioned in the proceedings of that meeting. The Project Proponent has complied. The SEAC discussed on the issues flagged by site inspection team on large scale fugitive dust emission at all transfer points in existing plants and inability of project proponent to show any compliance report to the site visiting team. After detailed discussion SEAC considered the compliance as submitted by the Project Proponent and decided to recommend ToR given in Annexure - III along with following specific terms: -

1. Proponent has to ensure that measures to control fugitive dust emission in the existing plant at all existing transfer points are adequate.
2. Details of storage facility for raw material and finished product with photographs to be submitted.
3. Submit a detailed layout plan of green/open area specifically showing green belt all along the entire plant boundary.
4. Submit modernization plan of existing unit along with new units proposed for expansion to address proper natural ventilation and lighting on shop floor.
5. Submit Health checkup certificate of all existing temporary and permanent workers.
6. Latest compliance report of all statutory clearance and approvals.



19. Proposed Bridge Construction Project of New 4- Lane Bridge (Parallel to the Existing Mahamta Gandhi Setu) with its approaches from km 0/000 to km 14/500 across river Ganga on NH - 19 at Patna in the State of Bihar by Ministry of Road Transport & Highways, Mahatma Gandhi Setu Division, Raja Ghat, CRPF camp, Patna, State- Bihar, Total Built-up area- 6,45,361 m², (File No.:- SIA/8(b)/1234/2020), Online Proposal No.:- SIA./BR/NCP/54391/2020).

Proponent:- Office of the Executive Engineer, Govt. of Bihar.

Consultant:- Earthood Services Private Limited.

Application along with filled up 'Form - I' and Form - IA and Conceptual Plan in the prescribed format was submitted to SEIAA, Bihar on 07th August, 2020 for obtaining Terms of Reference (ToR).

The Proponent and the Consultant presented the proposal before 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 IV) along with additional specific conditions mentioned below:

1. Submit a report prepared by an institute of national repute working on Gangetic Dolphin on impact of construction activity on aquatic fauna especially on Gangetic Dolphin and other associated species and the riparian habitats. Aquatic biodiversity study in the vicinity of the proposed site be also conducted.
2. Traffic assessment study for the proposed project specially at start and end points of project.

29. Dina Iron and Steel Limited (Expansion Project) at Mauza:- Abdul Rahmapur Road, Didarganj, Tehsil:- Patna City, District- Rohtas, State:- Bihar, Total Final Capacity – 1,05,800 TPA [Induction Furnace (MS Ingot / Billet) – 34,560 TPA, Re – rolling Mill

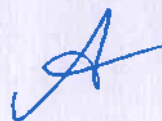
(TMT Bar / Rods) – 75,800 TPA (File No. - SIA/3(a)/1233/2020), Online Proposal No.:- SIA/BR/IND/53693/2020).

Proponent:- M/s Sanjay Kumar Bhartiya.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 05th August, 2020 for obtaining Terms of Reference (ToR).

The Proponent and the Consultant presented the proposal before the Committee. The Committee considered the proposal and found that an induction furnace of capacity 30,000 TPA was established in the name of "Dina Iron & Steel Limited," which was out of purview of the then existing EIA Notification. It was granted CTE & CTO by the B.S.P.C.B, Patna for operation and production. Subsequently in 2015 another induction furnace was established and granted CTE / CTO by the State Board for 28,800 TPA capacity. In 2019, both units decided to merge and as such come within the preview of EC and hence this application. The present application has been filed for Environmental Clearance for production capacity of 34,560 TPA while merging both the units and reducing the overall production capacity for which the said two units were established earlier.

In view of above the Committee decided to recommend the proposal for grant of ToR for preparation of necessary EIA reports, as Annexure –V.



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)

 26/8/20
(Alok Kumar)
Member Secretary, SEAC

 26/8/20
(Murarijee Mishra)
Chairman, SEAC

Annexure – I (Sugar Mill & Distillery – EC)

1. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the water (prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board / Committee.
2. The Project Proponent shall obtain authorized under the Hazardous and other waste Management Rules, 2016 as amended from time to time.
3. Adhere to 'Zero Liquid Discharge', Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
4. Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
5. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and / or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB / SPCB guidelines.
6. Total fresh water requirement shall not exceed 80 KLD, proposed to be met from Ground water. Possibilities needs to be explored to meet the requirement of fresh water from surface water available in the vicinity of plant premises with due permission from competent authority. Ground water shall be withdrawn only after exhausting possibilities of using surface water and that also after obtaining prior permission from the concerned regulatory authority (Central Ground Water Authority) in this regard.
7. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
8. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
9. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to



time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

10. The company shall undertake waste minimization measures as below:-
 - (i) Metering and control of quantities of active ingredients to minimize waste.
 - (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - (iii) Use of automated filling to minimize spillage.
 - (iv) Use of Close Feed system into batch reactors.
 - (v) Venting equipment through vapour recovery system.
 - (vi) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.
11. Green Belt shall be developed in an area equal to 14.75 ha of the plant area with a native tree species in accordance with CPCB / SEIAA, Bihar guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
12. All the commitments made regarding issues raised during the public consultation shall be satisfactorily implemented.
13. The Project Proponent shall comply with the provisions contained in Ministry of Environment, Forest & Climate Change OM Vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibilities.
14. For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
15. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
16. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

17. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.
18. Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
19. Online Continuous Effluent/Emission Monitoring System (OCEMS) for 24x7 monitoring of stack emissions and effluent discharge shall be installed for measurement of prescribed parameters under EP Rules, 1986. The data of OCEMS shall be linked to to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel / drain carrying effluent within the premises. The data shall also be displayed on electronic display monitor on continuous basis at a suitable location which can be accessible to common public.
20. CO₂ generated from the process shall be bottled / made solid ice and sold to authorized vendors.
21. The Project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government.
22. No further expansion or modification in their plant shall be carried out without prior approval of the SEIAA, Bihar Ministry of Environment, Forest and Climate Change (MoEF&CC). In case of deviations or alterations in the project proposal from those submitted to Ministry of Environment, Forest & Climate Change for Clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional Environmental Protection Measures required, if any.
23. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1989 viz 75 dBA (daytime) and 70 dBA (night time).

24. The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
25. Training shall be imparted to all employees on safety and health aspects of chemicals handling.
26. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.
27. The company shall comply with all the Environmental Protection Measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA / EMP in respect of Environment Management, Risk Mitigation Measures and Public Consultation shall be implemented.
28. The Project Proponent shall comply with the provisions contained in Ministry of Environment, Forest & Climate Change OM Vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibilities. The company shall undertake all measures for improving socio-economic conditions of the surrounding area CSR activities shall be undertaken by involving local villagers, administrations and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.
29. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the SEIAA, Bihar as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for Environment Management / Pollution Control measures shall not be diverted for any other purpose.
30. The copy of the Environmental Clearance shall be submitted by the Project Proponents to the Heads of local bodies, panchayats and Zila Parishad / Municipal Bodies and the local NGO, if any, from whom suggestion / representations, if any, were received while processing the proposal and in addition to the relevant offices of the Government who in turns has to display the same for 30 days from the date of receipt.

31. The Project Proponent shall submit six-monthly reports on the status of the compliance of the stipulation Environmental Clearance conditions including monitoring data (both in hard copies as well as by e-mail) to SEIAA, Bihar and the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the company and on the website of the Ministry of Environment, Forest and Climate Change at Environment Clearance portal.
32. The Project Proponent shall submit the environmental statement for each financial year in Form – V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company along with the status of compliance of Environmental Clearance conditions and shall also be sent to SEIAA, Bihar and the respective Regional Office of MoEF&CC by e-mail.
33. The Project Proponent shall make public the Environmental Clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
34. EC conditions which are in the interest of public at large must be permanently 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.
35. The SEIAA, Bihar reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.
36. The SEIAA, Bihar may revoke or suspend the Clearance, if implementation of any of the above conditions is not satisfactory.
37. The Regional Office of this Ministry / SEIAA, Bihar shall monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the officer



- (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
38. Project proponent shall erect a signboard on his project site and display information regarding name of the project, No. date and validity period of EC, annual production capacity and other relevant information such as name and contact details of authority to report any violation for the general public.
 39. The EC granted on submitted basis of the layout plan of the proposed construction of buildings / establishments of industries shall be provisional for a period of one year or till its approved by the competent authority whichever is earlier. Should there be any deviation / change in the layout plan (as contained in the project proposal on which EC is granted), the Project Proponent shall furnish a copy along with a request to SEIAA, Bihar to make necessary correction / revision in the EC accordingly. Any failure on part of the Project Proponent in doing so will be treated as a violation of EC condition
 40. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
 41. Concealing factual data or submission of false / fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 42. 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)

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 Consultation 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 PM₁₀, 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. Soft copy of geo-tagged site photographs of each locations used of collection of data for various environmental parameters for each monitoring dates shall be submitted separately in CD.
 22. The Project Proponent shall prepare report with the provisions contained in Ministry of Environment, Forest & Climate Change OM Vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibilities.
 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. 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.
28. 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.
29. 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.
30. 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.



31. A detailed report shall be submitted using suitable model used to predict increase in air pollutants due to increased traffic load due to proposed project.
32. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
33. 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.
34. 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.
35. 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.
36. 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.
37. The issues raised in Public Consultation Process 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.
38. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
39. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.



40. A Disaster management Plan shall be prepared and included in the EIA / EMP Report.
41. 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.
42. 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 Consultation changes in structure and content of the draft EIA / EMP (other than modifications arising out of the Public Consultation process) will entail conducting the Public Consultation 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, and (ii) geological maps and sections clearly showing the land features of the adjoining area.



Annexure – III (Coke Oven Plant – ToR)

1. Executive Summary.

2. Introduction.

- i. Details of the EIA Consultant including NABET accreditation.
- ii. Information about the project proponent.
- iii. Importance and benefits of the project.

3. Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities.
- vi. Details of Emission, effluents, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
- viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided.
- ix. Hazard identification and details of proposed safety systems.
- x. Expansion / modernization proposals:
 - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MoEF&CC / SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of



Consent to Operate for the ongoing existing operation of the project from SPCB shall be attached with the EIA-EMP report.

- b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and / or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4. Site Details

- i. Location of the project site covering village, Taluka / Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3 / A2 sheet. (including all eco-sensitive areas and environmentally sensitive places).
- iii. Details w.r.t. option analysis for selection of site.
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area / Estate / Complex, layout of Industrial Area indicating location of unit within the Industrial area / Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government / private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area).
- ix. A list of major industries with name and type within study area (10 km radius) shall be incorporated. Land use details of the study area.

- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5 km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects).
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy.

5. Forest and wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).
- ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6. Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB / MoEF&CC guidelines.
- v. Soft copy of geo-tagged site photographs of each locations used of collection of data for various environmental parameters for each monitoring dates shall be submitted separately in CD.
- vi. Whether the site falls near to polluted stretch of river identified by the CPCB / MoEF&CC, if yes give details.
- vii. Ground water monitoring at minimum at 8 locations shall be included.
- viii. Noise levels monitoring at 8 locations within the study area.
- ix. Soil Characteristic as per CPCB guidelines.
- x. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- xi. A detailed report shall be submitted using suitable model used to predict increase in air pollutants due to increased traffic load due to proposed project.
- xii. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule - I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xiii. Socio-economic status of the study area.



7. Impact and Environment Management Plan.

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body.
- iii. Ground water classification as per the Central Ground Water Authority and NOC from CGWB.
- iv. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor cum- rail transport shall be examined.
- v. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- vi. Details of stack emission and action plan for control of emissions to meet standards.
- vii. Measures for fugitive emission control.
- viii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste - minimization, recycle / reuse / recover techniques, Energy conservation, and natural resource conservation.

- ix. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- x. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- xi. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xii. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xiii. Action plan for post-project environmental monitoring shall be submitted.
- xiv. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8. Occupational health: -

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,



- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9. Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. The Project Proponent shall prepare report with the provisions contained in Ministry of Environment, Forest & Climate Change OM Vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibilities.
- iii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iv. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- v. Does the company have 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? This reporting mechanism shall be detailed in the EIA report.

10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Consultation issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.



12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice (s) and present status of the case.
13. A tabular chart with index for point wise compliance of above ToR.



Annexure – IV , New 4- Lane Bridge (Parallel to the Existing Mahamta Gandhi Setu)– ToR)

1. Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.
2. Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/villages and present status of such activities.
3. Examine baseline environmental quality along with projected incremental load due to the project.
4. Environmental data to be collected in non-monsoon season in relation to the project development will be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.
5. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
6. A detailed report shall be submitted using suitable model used to predict increase in air pollutants due to increased traffic load due to proposed project.
7. AERMOD or any other latest model shall be used to predict the GLC of various air pollutant such as PM_{2.5}, PM₁₀, Sox, NOx etc. accordingly appropriate mitigation measures shall be suggested. All the monitoring stations shall be established in accordance with Standard Manual for undertaking EIA studies for Building & Construction and Area Development project and submit soft copy of at least one geotagged photographs for each sampling site and each sampling days having clearly imprinted date and time of monitoring along with google map showing location of all the monitoring sites. Project Proponent has to submit all raw data pertaining to air environment, meteorology and dispersal model which will be used in the EIA report.
8. Soft copy of geo-tagged site photographs of each locations used of collection of data for various environmental parameters for each monitoring dates shall be submitted separately in CD.

9. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area together with obstruction of the same by the project, if any.
10. Submit Hydrogeology study undertaken by an institute of national repute of the area.
11. Submit the species wise details such as GBH (Girth at Breast Height) etc of the trees to be felled for the project.
12. The detail development plan of all other area marked as proposed green area shall be enclosed.
13. Effort should be made for removal of minimum number of existing trees as far as possible. Detailed action plan in this regard should be enclosed.
14. Submit the present land use and permission required for any conversion such as forest, agriculture etc.
15. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
16. Ground water classification as per the Central Ground Water Authority and NOC from CGWB.
17. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
18. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine details.
19. Examine soil characteristics and depth of ground water table for rainwater harvesting.
20. Examine details of solid waste generation treatment and its disposal.
21. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.
22. DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.



23. Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
24. Examine the details of transport of materials for construction which should include source and availability.
25. The Project Proponent shall prepare report with the provisions contained in Ministry of Environment, Forest & Climate Change OM Vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibilities.
26. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
27. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
28. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project.
29. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
30. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website <http://moef.nic.in/Manual/Townships>



Annexure – V (Metallurgical Industry – ToR)

1. Executive Summary.

2. Introduction.

- i. Details of the EIA Consultant including NABET accreditation.
- ii. Information about the project proponent.
- iii. Importance and benefits of the project.

3. Project Description.

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. Details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities.
- vi. Details of Emission, effluents, solid waste, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contractual).
- viii. Process description along with major equipments and machineries, process flow sheet (quantitative) from raw material to products to be provided.
- ix. Production of a report / certificate from concerned authority enforcing Factory Act regarding suitability of existing unit / plant for proposed expansion mentioning whether existing plant is a satisfactory compliant of Factory Act.
- x. The proposal of the expansion of capacity to include thorough renovation / upgradation of all existing infrastructure of the unit consisting development/construction of First aid center/dispensary room for workers, development of facilities (toilets/urinals/washing rooms, canteen etc.)
- xi. Hazard identification and details of proposed safety systems.



- xii. Submit a copy of application submitted to competent authority / agency with regard to supply of PNG gas pipe line.
- xiii. Expansion/modernization proposals:
 - a) Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MoEF&CC/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing existing operation of the project from SPCB shall be attached with the EIA-EMP report.
 - b) In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification, 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4. Site Details.

- i. Location of the project site with description of surround covering village, Taluka / Tehsil, District and State, Justification for selecting the site, whether alternative sites were considered.
- ii. A toposheet of the study area of radius of 10 km and site location on 1:50,000 / 1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places).
- iii. Details w.r.t. option analysis for selection of site.
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.

- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area).
- ix. A list of major industries with name and type within study area (10 km radius) shall be incorporated. Land use details of the study area.
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects).
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy.

5. Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. Post monsoon AAQ data for 4 Week at 8 locations for PM₁₀, PM_{2.5}, SO₂, NO_x, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based as per CPCB guidelines and take into account the predominant wind direction, population zone and sensitive receptors.

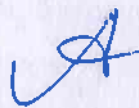
- iii. The post monsoon collected AAQ data shall be compared with AAQ data collected by the same consultant for any nearby industry in last one year.
- iv. Surface water quality of nearby River (100 meter upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Soft copy of geo-tagged site photographs of each locations used of collection of data for various environmental parameters for each monitoring dates shall be submitted separately in CD.
- vi. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vii. Ground water monitoring at minimum at 8 locations shall be included.
- viii. Noise levels monitoring at 8 locations within the study area.
- ix. Soil Characteristic as per CPCB guidelines.
- x. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- xi. A detailed report shall be submitted using suitable model used to predict increase in air pollutants due to increased traffic load due to proposed project.
- xii. Detailed description of flora and fauna (terrestrial, avifauna and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xiii. Socio-economic status of the study area.

6. Impact and Environment Management Plan.

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted



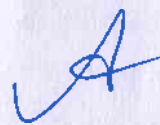
- on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body.
 - iii. Ground water classification as per the Central Ground Water Authority and NOC from CGWB.
 - iv. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.
 - v. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
 - vi. Details of stack emission and action plan for control of emissions to meet standards.
 - vii. Measures for fugitive emission control.
 - viii. Details of hazardous waste generation and their storage, utilization and management. Copies of MoU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
 - ix. Proper utilization of fly ash, shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
 - x. Arrangement of land/alternative sites for green-belt development inside unit or in the proximity of unit.
 - xi. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.



- xii. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xiii. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xiv. Action plan for post-project environmental monitoring shall be submitted.
- xv. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

7. Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.
- v. Making provisions for all personal safety/security related gears (shoes /hats/ helmets/ jacket/ gloves, specks, ear plugs etc.) for all workers and enforcing use of the same.



8. Corporate Environment Policy

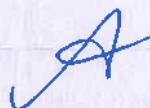
- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. The Project Proponent shall prepare report with the provisions contained in Ministry of Environment, Forest & Climate Change OM Vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibilities.
- iii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iv. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- v. Does the company have 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? This reporting mechanism shall be detailed in the EIA report.

9. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

10. Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Consultation issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.


11. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or



relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON FERROUS)

1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
3. Details on installation/activation of opacity meters with recording with proper calibration system.
4. Details on toxic metals including mercury, arsenic and fluoride emissions.
5. Details on stack height requirement for integrated steel.
6. Details on ash disposal and management -Non-ferrous metal.
7. Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc.
8. Raw materials substitution or elimination.
9. Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation.
10. Details on Holding and de-gassing of molten metal from primary and secondary aluminum, materials pre-treatment, and from melting and smelting of secondary aluminium.
11. Details on solvent recycling.
12. Details on precious metals recovery.
13. Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization.
14. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
15. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
16. Trace metals in waste material especially slag.
17. Plan for trace metal recovery.



18. Trace metals in water.

19. A tabular chart with index for point wise compliance of above ToR.

A

STATE EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR

Ref. No- 192

Patna- 23, Date- 27/08/2020

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 :- Corrigendum regarding SEAC Proceeding (Ref. No. 190 dated 26.08.2020).

Sir,

With reference to the SEAC Proceeding (Ref. No. 190, dated 26.08.2020), in agenda item no. 21 "File No. SIA/1(a)/1223/2020, Online Proposal No. SIA/BR/MIN/51691/2020" and in agenda item no. 25 "Morhar River at Gaya Morhar 11" shall be read as "File No. SIA/1(a)/1222/2020, Online Proposal No. SIA/BR/MIN/51730/2020" and "Falgu River at Gaya Falgu 11" respectively.

Yours sincerely,



(Alok Kumar)
Member Secretary
SEAC, Bihar