STATE EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR

Ref. No- 06

Patna- 23, Date- 10 01 2020

To,

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- Shri Murarijee Mishra Vijay Nagar, Near Temple, Rukunpura, Patna - 800014
- Dr. Amar Nath Verma, 10192 ATS Advantage, Ahinsha Khand - 1, Near Habitat Centre, Indirapuram, Ghaziabad - 201014,
- Dr. Shardendu, Department of Botany, Patna Science College, Patna
- Shri Vijay Kumar Sinha, IFS (Retd.),
 Prasad Bhawan, R. K. Path,
 Pirmohani, Kadamkuan, Patna 800 003.
- 5. Dr. Birendra Prasad, Department of Botany, Patna University, Patna - 800 005.
- Dr. Rakesh Kumar Singh,
 G 600, 12th Street, GAMA II,
 Greater Noida (UP) 201 310.
- 7. Dr. Samir Kumar Sinha,
 Wildlife Trust of India,
 F 13, Sector 08, Noida, Uttar Pradesh 201301.
- Sub:- Proceedings of meeting of State level Expert Appraisal Committee held on 03.01.2020 and 04.01.2020.

Sir,

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Please find enclosed herewith proceedings of the State Expert Appraisal Committee (SEAC) meeting held on 03rd and 04th January, 2020.

Yours sincerely, 10 10

(Alok Kumar) Member Secretary SEAC, Bihar Proceedings of the State Expert Appraisal Committee (SEAC) meeting dated 03rd and 04th January, 2020 -

A meeting of SEAC was held in the meeting hall of SEIAA, Bihar, Patna on - 03rd and 04th January, 2020 presided over by the Chairman, SEAC. Following members of the Committee were present in the meeting:

- 1. Shri Vijay Kumar Sinha,
- 2. Dr. Amar NathVerma
- 3. Dr. Shardendu,
- 4. Dr. Birendra Prasad,
- 5. Dr. Rakesh Kumar Singh,
- 6. Dr. Samir Kumar Sinha,
- 7. Shri Alok Kumar, Member Secretary

The Project Proponents / Consultants of respective project proposals made presentation before the Committee, which discussed project proposals as per agenda.

 Government Medical College and Hospital at Village:- Punaura, Tehsil:- Dumra, District:- Sitamarhi, Bihar, Total Plot Area – 1,01,170.25 m², Total Built-up Area:-1,12,618.61 m² (File No. - SIA/8(a)/697/19). Online Proposal No.:-SIA/BR/MIS/125023/2019).

Proponent:- Department of Health Govt. of Bihar, .

Consultant :- Earthood Services Private Limited.

Application along with filled up 'Form - I', Form - I (A) and Conceptual Plan in the prescribed format was submitted to SEIAA, Bihar on 09th December, 2019 for obtaining Environmental Clarence (EC).

The Proponent and Consultant presented the proposal before the Committee. After consideration the Committee sought information / reports as under.

1. There are certain inadequate informations in Form-IA which need to be furnished (eg. 2.3, 5.1 etc.).

- 2. Submit a report on background air quality level with predicted values based on dispersion model specific for traffic congestion as a result of the proposed construction. The consultant will provide source of meteorological data (surface and upper air data) and list of input variables with value which is used in air modeling.
- 3. Revise Water balance diagram, discharge and its layout plan.
- Project Proponent should submit coloured plan map along with "Birds eye view" Maps / Drawing(s).
- 5. Identify central storage facility during operation of the proposed hospital.
- Proposed Group Housing "IOB Galaxy Building" Mauza Painal, Tehsil:- Bihta, District- Patna, State:- Bihar, Total Plot Area – 39,141.90 m², Total Built-up Area:-1,46,136.87 m² (File No. - SIA/8(a)/699/19, Online Proposal No.:-SIA/BR/MIS/127441/2019).

Proponent :- M/s Ashirwad Engicon Private Limited.

Consultant :- Earthood Services Private Limited.

Application along with filled up 'Form - I', Form - I (A) and Conceptual Plan in the prescribed format was submitted to SEIAA, Bihar on 13th December, 2019 for obtaining Environmental Clarence (EC).

The Proponent and Consultant presented the proposal before the Committee. After consideration the Committee sought information / reports as under.

- Project Proponent should submit coloured plan map along with "Birds eye view" Maps / Drawing(s).
- 2. Submit corrected KML file.
- 3. Submit a report on background air quality level with predicted values based on dispersion model specific for traffic congestion as a result of the proposed construction. The consultant will provide source of meteorological data (surface

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and upper air data) and list of input variables with value which is used in air modeling.

4. Disclose details of structures adjacent to / nearby the proposed plot / site.

The Project Proponent informed that the present proposal (IOB Galaxy phase -II) is adjacent to IOB Galaxy phase -I which includes Block A to F, because of which the blocks in the instant proposal are designated as G to M. The proponent is directed to submit necessary clarification and if required revise the proposal details.

3. 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- 1,49,300 m², Area of Viaduct - 28,170 m², Area of Bridge - 1,21,131 m² (File No.:- SIA/8(a)/694/19).Online Proposal No.:- SIA/BR/MIS/96989/2019). Proponent :- Office of the Executive Engineer.

Consultant :- Sri Sai Manasa Nature Tech Private Limited, Hyderabad.

Application along with filled up 'Form - I', Form - I (A) and Conceptual Plan in the prescribed format was submitted to SEIAA, Bihar on 15th October, 2019 for obtaining Environmental Clarence (EC).

The Proponent and Consultant presented the proposal before the Committee. After consideration the Committee sought information / reports as under.

- 1. Impact study of nearest population/habitation likely to be affected by large scale construction.
- There are certain inadequate informations in Form-IA which need to be furnished, (eg. 2.3, 5.1 etc.).
- 3. Submit a report on background air quality level with predicted values based on dispersion model specific for traffic congestion as a result of the proposed construction. The consultant will provide source of meteorological data (surface

and upper air data) and list of input variables with value which is used in air modeling.

- 4. Status of Forest Clearance under Forest (Conservation) Act, 1980.
- 5. Impact and mitigation measures for aquatic fauna specially Gangetic dolphin.
- 6. Map showing forest land involved and alternative as per OM no. J-11015/200/2008-IA.II (M) dated 19.03.2013 of MoEF&CC.GoI.
- 7. Traffic load study on the feeder road on either side of the proposed bridge after construction and subsequent operation.
- Redevelopment of Patna Medical College and Hospital (PMCH) at Mauza:- Ashok
 Rajpath, Tehsil:- Patna Rural, District:- Patna, State:- Bihar, Total Plot Area 1,95,867.90 m², Total Built-up Area:- 7,16,856 m² (Existing Built-up Area:- 1,58,696 m²)
 (File No. SIA/8(b)/696/19). Online Proposal No.:- SIA/BR/NCP/47134/2019).
 Proponent :- Patna Medical College and Hospital (PMCH).
 Consultant :- Earthood Services Private Limited.

Application along with filled up 'Form - I', Form - I (A) and Conceptual Plan in the prescribed format was submitted to SEIAA, Bihar on 29th November, 2019 for obtaining Environmental Clarence (EC).

The Proponent and Consultant presented the proposal before the Committee. It was observed that the capacity and facilities will increase manifold after completion of the project. The existing roads approaching the PMCH are grossly inadequate to provide for an existing load of traffic jams and congestion are a commonplace around that area. The solution to the problem suggested in the proposal are not sufficient and detailed study is required. The Project Proponent was directed to produce an undertaking from the competent authority to make necessary arrangements (like an elevated road) to facilitate hassle free traffic across the project area before its completion. Clearly specify whether in-house / Captive Biomedical Waste Treatment Facility (Incinerator) will continue for PMCH. The Committee decided to grant ToR including above stipulations to the Project Proponent as Annexure - I.

4.

Proposed grain based Distillery project of 65 KLD and Co-Generation project of 2.5 M W of M/s Eastern India Bio-fuels Private Limited (EIBPL) at Village – Parora, Tehsil – Krityanand Nagar, District- Purnia, State:- Bihar, Area:- 06.13 Ha or 15.17 Acres (File No. - SIA/5(g)/863/19), Online Proposal No.:- SIA/BR/IND2/47625/2019.

Proponent :- M/s Eastern India Bio-fuels Private Limited.

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 09th March, 2019 for obtaining Terms of Reference (ToR). MoEF&CC issued ToR Vide No. - IA-J-11011/77/2019-IA-II (I), dated 12.03.2019 and public hearing for the proposed project was conducted by Bihar State Pollution Control Board on 11.11.2019. Final EIA report was submitted by Project Proponent in the prescribed form to SEIAA, Bihar on 24.12.2019 for obtaining Environmental Clarence (EC).

The Proponent and Consultant presented the proposal before the Committee. After consideration the Committee sought information / reports as under.

- 1. Identify sources of raw materials.
- 2. Final utilization process of byproducts of distillery.
- 3. Detailed measures proposed for odour mitigation.
- 4. Undertake revised air modelling by taking account of gaseous emission from all the point and line source i.e. storage tanks, furnace, stack, boiler, roads etc. The consultant will provide source of meteorological data (surface and upper air data) and list of input variables with value which is used in air modeling.
- 5. Revised layout plan, rectifying difference in the report / power-point presentation.
- 6. Clarification on proposed stack heights.
- Proposed Building and Construction Project of "Parivahan Parishar" at Mauza Amukuddha, in Patna District of Bihar State Total Plot Area:- 85,793.36 m², Total Built-up Area:- 32,350.35 m² (File No. SIA/8(a)/864/19), Online Proposal No.:-SIA/BR/MIS/128384/2019.

Proponent :- Bihar State Road Transport Corporation (BSRTC), Govt. of Bihar.

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Consultant :- PARAMARSH (Servicing Environment and Development).

Application along with filled up 'Form - I', Form - I (A) and Conceptual Plan in the prescribed format was submitted to SEIAA, Bihar on 24th December, 2019 for obtaining Environmental Clearance (EC).

The Proponent and Consultant presented the proposal before the Committee. After consideration the Committee sought information / reports as under.

- 1. Revise green area and provide for more open spaces.
- 2. Submit a report on background air quality level with predicted values based on dispersion model specific for traffic congestion as a result of the proposed construction. The consultant will provide source of meteorological data (surface and upper air data) and list of input variables with value which is used in air modeling.
- Project Proponent should submit coloured plan map along with "Birds eye view" Maps / Drawing(s).
- 4. Justification of locating the proposed construction in such a sensitive area.
- 5. Classification of the site area in the Master Plan.
- Proposed Residential Project "Sunrise Rupaspur City" at Village Rupaspur (Dhanaut), Mohalla - Rupaspur, Pargana - Phulwari, Tehsil - Danapur Block, District - Patna, State -Bihar, Total Plot Area:- 10,877.83 m², Total Built-up Area:- 23,611.60 m² (File No. -SIA/8(a)/524/18), Online Proposal No.:- SIA/BR/NCP/74851/2018.
 Proponent : Sunrise Sui Developers Private Limited.
 Consultant :- Amaltas Enviro Industrial Consultant Private Limited.

Application along with filled up 'Form - I', Form - I (A) and Conceptual Plan in the prescribed format was submitted to SEIAA, Bihar on 14th May, 2018 for obtaining Environmental Clearance (EC).

Earlier, in the meeting dated 31st May, 2019, the Committee had directed the Project Proponent to submit a revised plan and documents as mentioned in the proceeding of that meeting. The Project Proponent has complied. The Committee

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considered the compliance submitted by the project proponent and decided to recommend the proposal for Environmental Clearance as Annexure -II.

Sand Mining Projects

5. Sand Mining Project at Riverbed of Son River (Patna Son 30 Balu Ghat) at Village:-Ghana Nisarpura, Tehsil:- Dulhin Bazar, District:- Patna, State:- Bihar, Area:- 38.30 Ha (File No. - SIA/1(a)/721/19), Online Proposal No.:- SIA/BR/MIN/46610/2019. Proponent :- Mineral Development Officer, District Mining office, Patna, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 19th December, 2019 for obtaining Terms of Reference (ToR).

 Sand Mining Project at Riverbed of Son River (Patna Son 01 Balu Ghat) at Village:-Suarmarwa, Tehsil:- Maner, District:- Patna, State:- Bihar, Area:- 40.30 Ha (File No. -SIA/1(a)/701/19), Online Proposal No.:- SIA/BR/MIN/46842/2019.

Proponent :- Mineral Development Officer, District Mining office, Patna, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 19th December, 2019 for obtaining Terms of Reference (ToR).

 7. Sand Mining Project at Riverbed of Son River (Patna Son 02 Balu Ghat) at Village:-Suarmarwa, Tehsil:- Maner, District:- Patna, State:- Bihar, Area:- 54.20 Ha (File No. -SIA/1(a)/702/19), Online Proposal No.:- SIA/BR/MIN/46848/2019.
 Proponent :- Mineral Development Officer, District Mining office, Patna, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 19th December, 2019 for obtaining Terms of Reference (ToR).

Sand Mining Project at Riverbed of Son River (Patna Son 06 Balu Ghat) at Village:-Thekha, Tehsil:- Bihta, District:- Patna, State:- Bihar, Area:- 37.10 Ha (File No. -SIA/1(a)/710/19), Online Proposal No.:- SIA/BR/MIN/46851/2019.

Proponent :- Mineral Development Officer, District Mining office, Patna, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 19th December, 2019 for obtaining Terms of Reference (ToR).

9. Sand Mining Project at Riverbed of Son River (Patna Son 03 Balu Ghat) at Village:-Chaurashi, Tehsil:- Maner, District:- Patna, State:- Bihar, Area:- 56 Ha (File No. -SIA/1(a)/703/19), Online Proposal No.:- SIA/BR/MIN/46847/2019.

Proponent :- Mineral Development Officer, District Mining office, Patna, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 19th December, 2019 for obtaining Terms of Reference (ToR).

 Sand Mining Project at Riverbed of Son River (Patna Son 07 Balu Ghat) at Village:-Thekha, Tehsil:- Bihta, District:- Patna, State:- Bihar, Area:- 19.90 Ha (File No. -SIA/1(a)/716/19), Online Proposal No.:- SIA/BR/MIN/46865/2019.

Proponent :- Mineral Development Officer, District Mining office, Patna, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 19th December, 2019 for obtaining Terms of Reference (ToR).

 Sand Mining Project at Riverbed of Son River (Patna Son 09 Balu Ghat) at Village:-Thekha, Tehsil:- Bihta, District:- Patna, State:- Bihar, Area:- 19.90 Ha (File No. -SIA/1(a)/715/19), Online Proposal No.:- SIA/BR/MIN/46856/2019.
 Proponent :- Mineral Development Officer, District Mining office, Patna, Govt. of Bihar.

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Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 19th December, 2019 for obtaining Terms of Reference (ToR).

 Sand Mining Project at Riverbed of Son River (Patna Son 11 Balu Ghat) at Village:-Halkhoriya Chak Mustafapur, Tehsil:- Bihta, District:- Patna, State:- Bihar, Area:- 38.40 Ha (File No. - SIA/1(a)/713/19), Online Proposal No.:- SIA/BR/MIN/46913/2019.
 Proponent :- Mineral Development Officer, District Mining office, Patna, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 19th December, 2019 for obtaining Terms of Reference (ToR).

 Proposed Sand Mining Project Aurangabad Ghat 13 on Son River at Mauza- Sheikhpura, Village- Sheikhpura, P.O- Saduri Karma, P.S- Narari Kala, Block- Barun, District-Aurangabad, State:- Bihar, Area:- 99 Ha (File No. - SIA/1(a)/858/19), Online Proposal No.:- SIA/BR/MIN/48854/2019.

Proponent :- Mineral Development Officer, District Mining office, Aurangabad, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

14. Proposed Sand Mining Project of Area 98.0 Ha at Aurangabad Ghat 14 on Son River at Mauza- Sobhekhap, Village- Sobhekhap P.O- Jhumar Dihra, P.S- Barun, Block-Barun, District- Aurangabad, State:- Bihar, Area:- 98 Ha (File No. - SIA/1(a)/857/19), Online Proposal No.:- SIA/BR/MIN/48851/2019.

Proponent :- Mineral Development Officer, District Mining office, Aurangabad, Govt. of Bihar.

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Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

15. Proposed Sand Mining Project Aurangabad Ghat 15 on Son River at Mauza- Sahaspur, Village- Gauni Bigha P.O- Saduri Karma, P.S- Narari Kala, Block- Barun, District-Aurangabad, State:- Bihar, Area:- 98 Ha (File No. - SIA/1(a)/794/19), Online Proposal No.:- SIA/BR/MIN/46915/2019.

Proponent :- Mineral Development Officer, District Mining office, Aurangabad, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

 Proposed Sand Mining Project Aurangabad Ghat 16 on Son River at Mauza- Sahaspur, Village- Karamkila P.O- Saduri Karma, P.S- Narari Kala, Block- Barun, District-Aurangabad, State:- Bihar, Area:- 99 Ha (File No. - SIA/1(a)/847/19), Online Proposal No.:- SIA/BR/MIN/46929/2019.

Proponent :- Mineral Development Officer, District Mining office, Aurangabad, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

 Proposed Sand Mining Project Aurangabad Ghat 17 on Son River at Mauza- Dhamni, Village- Dhamni, P.O- Jhumar Dihra, P.S.- Barun, Block- Barun, District- Aurangabad, State:- Bihar, Area:- 96.5 Ha (File No. - SIA/1(a)/860/19), Online Proposal No.:-SIA/BR/MIN/46932/2019.

Proponent :- Mineral Development Officer, District Mining office, Aurangabad, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

 Proposed Sand Mining Project Aurangabad Ghat 18 on Son River at Mauza- Dhammi, Village- Dhamni, P.O- Jhumar Dihra, P.S- Barun, Block- Barun, District- Aurangabad, State:- Bihar, Area:- 96 Ha (File No. - SIA/1(a)/855/19), Online Proposal No.:-SIA/BR/MIN/46936/2019.

Proponent :- Mineral Development Officer, District Mining office, Aurangabad, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

19. Sand Mining Project Gaya Falgu 01 Balu Ghat at Mauza- Sripur, Khizarsarai and Budhua, P.S.- Belaganj and Khizarsarai, Anchal- Belaganj and Khizarsarai, District-Gaya, State:- Bihar, Area:- 92 Ha (File No. - SIA/1(a)/725/19), Online Proposal No.:-SIA/BR/MIN/48117/2019.

Proponent :- Mineral Development Officer, District Mining office, Gaya, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

20. Sand Mining Project Gaya Falgu 02 Balu Ghat at Mauza- Panchrukhai, P.S.- Khizarsarai, Anchal- Khizarsarai, District-Gaya, State:- Bihar, Area:- 62.60 Ha (File No. -SIA/1(a)/737/19), Online Proposal No.:- SIA/BR/MIN/48179/2019.

Proponent :- Mineral Development Officer, District Mining office, Gaya, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

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 21. Sand Mining Project Gaya Falgu 03 Balu Ghat at Mauza – Fatehpur, P.S –Khizarsarai, Anchal- Khizarsarai, District-Gaya, State:- Bihar, Area:- 99 Ha (File No. -SIA/1(a)/738/19), Online Proposal No.:- SIA/BR/MIN/48180/2019.
 Proponent :- Mineral Development Officer, District Mining office, Gaya, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

25. Proposed Sand Mining Project Rohtas Son 01 Ghat on Son River at Mauza- Kachhwa, Mauza- Kachhwa, Village- Kachhwa P.O.- Kachhwa P.S.- Kachhwa Anchal- Nasriganj, Tehsil- Bikramganj, District - Rohtas, State - Bihar, Area:- 50 Ha, (File No. - SIA/1(a)/815/19), Online Proposal No.:- SIA/BR/MIN/47289/2019.

Proponent :- Assistant Director Mine Sasaram (Rohtas), District Mining office, Rohtas, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

Proposed Sand Mining Project Rohtas Son 02 Ghat on Son River at Mauza - Ganauri Bigha, Village - Ganauri Bigha, P.O. - Kachhwa, P.S. - Kachhwa, Anchal - Nasriganj, Tehsil- Bikramganj, District - Rohtas, State - Bihar, Area:- 50 Ha, (File No. - SIA/1(a)/816/19), Online Proposal No.:- SIA/BR/MIN/47294/2019.
Proponent :- Assistant Director Mine Sasaram (Rohtas), District Mining office, Rohtas, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

27. Proposed Sand Mining Project Rohtas Son 03 Ghat on Son River at Mauza- Mahipat Tola Bigha, Village- Magraon, P.O.- Magraon, P.S.- Kachhwa, Anchal- Nasriganj, Tehsil-Bikramganj, District - Rohtas, State - Bihar, Area:- 49.60 Ha, (File No. - SIA/1(a)/817/19), Online Proposal No.:- SIA/BR/MIN/47304/2019.
Proponent :- Assistant Director Mine Sasaram (Rohtas), District Mining office, Rohtas,

Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

Proposed Sand Mining Project Rohtas Son 04 Ghat on Son River at Mauza- Khiriao, Village- Khiriao, P.O- Turk Bigha, P.S.- Kachhwa, Anchal- Nasriganj, Tehsil-Bikramganj, District - Rohtas, State - Bihar, Area:- 91.60 Ha, (File No. - SIA/1(a)/818/19), Online Proposal No.:- SIA/BR/MIN/47315/2019.

Proponent :- Assistant Director Mine Sasaram (Rohtas), District Mining office, Rohtas, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

29. Proposed Sand Mining Project Rohtas Son 05 Ghat on Son River at Mauza- Magroan, Village- Magroan, P.O.- Magraon, P.S.- Kachhwa, Anchal- Nasriganj, Tehsil-Bikramganj, District- Rohtas, State- Bihar, Area:- 54.10 Ha, (File No. - SIA/1(a)/812/19), Online Proposal No.:- SIA/BR/MIN/47467/2019.
 Proponent .- Assistant Director Mine Sasaram (Rohtas), District Mining office, Rohtas, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

 Proposed Sand Mining Project Rohtas Son 06 Ghat on Son River at Mauza- Mahadeva,
 Village- Mahadeva, P.O-Mahadeva, P.S.- Nasriganj, Anchal- Nasriganj, Tehsil-Bikramganj, District - Rohtas, State - Bihar, Area:- 41.70 Ha, (File No. -SIA/1(a)/819/19), Online Proposal No.:- SIA/BR/MIN/47318/2019.
 Proponent :- Assistant Director Mine Sasaram (Rohtas), District Mining office, Rohtas, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

31. Sand Mining Project of Jamui Kiul 07 Balu Ghat on Kiul River at Mauza- Garo Nawada, Village- Garo Nawada and Sikhariya, Post- Jamui, P.S.- Jamui, Anchal- Jamui, District -Jamui, State - Bihar, Area:- 29 Ha, (File No. - SIA/1(a)/758/19), Online Proposal No.:-SIA/BR/MIN/47830/2019.

Proponent :- Mineral Development Officer, District Mining office, Jamui, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

32. Sand Mining Project of Jamui Kiul 08 Balu Ghat on Kiul River at Mauza- Garo Nawada, Village- Garo Nawada, Sonpe and Sikhariya, Post- Jamui, P.S.- Jamui, Anchal- Jamui, District - Jamui, State - Bihar, Area:- 27 Ha, (File No. - SIA/1(a)/756/19), Online Proposal No.:- SIA/BR/MIN/47752/2019.

Proponent :- Mineral Development Officer, District Mining office, Jamui, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

33. Sand Mining Project of Jamui Kiul 09 Balu Ghat on Kiul River at Mauza- Sonpe, Village- Sonpe, Post- Jamui, P.S.- Jamui, Anchal- Jamui, District - Jamui, State - Bihar,

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Area:- 51 Ha, (File No. - SIA/1(a)/754/19), Online Proposal No.:-SIA/BR/MIN/47753/2019.

Proponent :- Mineral Development Officer, District Mining office, Jamui, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

Proposed Sand Mining Project of Arwal Son 01 Ghat on Son River at Mauza- Kaler,
 P.O.- Belaw, P.S.- Kaler, Block- Kaler, District - Arwal, State - Bihar, Area:- 43 Ha,
 (File No. - SIA/1(a)/772/19), Online Proposal No.:- SIA/BR/MIN/48638/2019.
 Proponent :- Mineral Development Officer, District Mining office, Jamui, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

Proposed Sand Mining Project of Arwal Son 02 Ghat on Son River at Mauza- Belaw,
 P.O.- Belaw, P.S.- Kaler, Block- Kaler, District - Arwal, State - Bihar, Area:- 37.20 Ha,
 (File No. - SIA/1(a)/773/19), Online Proposal No.:- SIA/BR/MIN/47822/2019.
 Proponent :- Mineral Development Officer, District Mining office, Jamui, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

Proposed Sand Mining Project of Arwal Son 03 Ghat on Son River at Mauza- Kaler,
 P.O.- Belaw, P.S.- Kaler, Block- Kaler, District - Arwal, State - Bihar, Area:- 55 Ha,
 (File No. - SIA/1(a)/774/19), Online Proposal No.:- SIA/BR/MIN/47852/2019.
 Proponent :- Mineral Development Officer, District Mining office, Jamui, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

37. Proposed Sand Mining Project of Arwal Son 04 Ghat on Son River at Mauza- Kaler,
 P.O.- Belaw, P.S.- Kaler, Block- Kaler, District - Arwal, State - Bihar, Area:- 72.90 Ha,
 (File No. - SIA/1(a)/775/19), Online Proposal No.:- SIA/BR/MIN/47856/2019.
 Proponent :- Mineral Development Officer, District Mining office, Jamui, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

38. Proposed Sand Mining Project of Arwal Son 05 Ghat on Son River at Mauza- Mainpura,
P.O.- Mainpura Chanda, P.S.- Kaler, Block- Kaler, District - Arwal, State - Bihar, Area:72.90 Ha, (File No. - SIA/1(a)/776/19), Online Proposal No.:SIA/BR/MIN/47917/2019.

Proponent :- Mineral Development Officer, District Mining office, Jamui, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

39. Proposed Sand Mining Project of Arwal Son 06 Ghat on Son River at Mauza- Mainpura,
 P.O.- Mainpura Chanda, P.S.- Kaler, Block- Kaler, District - Arwal, State - Bihar, Area: 83 Ha, (File No. - SIA/1(a)/777/19), Online Proposal No.:- SIA/BR/MIN/47878/2019.
 Proponent :- Mineral Development Officer, District Mining office, Jamui, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

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Proposed Sand Mining Project of Arwal Son 07 Ghat on Son River at Mauza- Sohsa, P.O.- Sohsa, P.S.- Kaler, Block- Kaler, District - Arwal, State - Bihar, Area:- 37 Ha, (File No. - SIA/1(a)/778/19), Online Proposal No.:- SIA/BR/MIN/47892/2019. Proponent :- Mineral Development Officer, District Mining office, Jamui, Govt. of Bihar.

Application along with filled up 'Form - I', and Pre-feasibility Report in the

prescribed format was submitted to SEIAA, Bihar on 23rd December, 2019 for obtaining Terms of Reference (ToR).

The Sand Mining proposals (Agenda Sl. No. 05 to 21 & 25 to 40) were screened by the Committee. The officials of Department of Mines and Geology (as Project Proponent) and Consultants were present during screening. Reference was drawn to Department of Mines and Geology (DMG), Govt. of Bihar (GoB) letter No. 60/M dated 25.12.2019 addressed to SEIAA, Bihar whereby it is informed that as many as 311 sand ghats are being auctioned for mining (which includes the Ghats relating to applications for Environmental Clearance). On being asked about the current position of the proposed mining areas (ghats) it was informed that most of the ghats have been auctioned / leased to lessees and the Department intends to transfer Environmental Clearance to the concerned lessees. The Committee was informed that the officials of DMG, GoB have submitted more than 150 applications / proposals. The Committee felt that in the given circumstances the official of DMG, GoB cannot be the applicant / proponent for Environmental Clearance. Reference was further drawn to Hon'ble Supreme Court decisions in Union of India Vs Vijay Bansal in C.A. No. 010378 - 010380 / 2013 and SLP (C) No. 000729 - 000731 / 2011, relevant provisions of EIA Notification, 2006 and different OMs issued thereunder.

The officials of DMG requested that all these applications may be treated as filed by the concerned lessees, for which the department will submit a list mentioning application numbers and names of the lessees concerned. The request was accepted and it was decided that required procedure will follow after that.

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The Committee decided that all similar applications filed by DMG shall stand dealt with accordingly. It was also decided that all such applications which have hither to not been forwarded to SEAC by SEIAA shall stand dealt with accordingly as above.

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

Sd/-(Samir Kumar Sinha) (Member, SEAC) Sd/-(Dr. Rakesh Kumar Singh) (Member, SEAC) Sd/-(Shri Vijay Kumar Sinha) (Member, SEAC)

10/1/20 (Alok Kumar)

Member Secretary, SEAC

(Murarijee Mishra) Chairman, SEAC

Annexure - I

Terms of Reference for EIA and preparation of Environment Management Plan

- 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. 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.
- 6. Submit a report on background air quality level with predicted values based on dispersion model specific for traffic congestion as a result of the proposed construction. By considering all the roads located within 5 KM radius which are leading to proposed project site.
- 7. The consultant will provide source of meteorological data (surface and upper air data) and list of input variables with value which is used in air modeling
- 8. 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.
- Submit the species wise details such as GBH (Girth at Breast Height) etc of the trees to be felled for the project.

- 10. The detail development plan of all other area marked as proposed green area shall be enclosed.
- 11. 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.
- 12. Submit the present land use and permission required for any conversion such as forest, agriculture etc., if applicable.
- 13. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
- 14. Ground water classification as per the Central Ground Water Authority.
- 15. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
- 16. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water.
- 17. Examine details using any mathematical model to design dewatering system during construction phase as well as during operation phase if ground water abstraction takes place as a separate chapter in EIA/EMP.
- 18. A separate chapter shall be placed on handing of demolition materials in accordance with the provision of the Construction and Demolition Waste Rules 2016.
- 19. Examine soil characteristics and depth of ground water table for rainwater harvesting.
- 20. 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.
- 21. 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.
- 22. 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

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be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.

- 23. Submit details of building and construction material to be used in accordance with the provision of fly ash notification and it subsequent amendment.
- 24. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
- 25. Examine the details of transport of materials for construction which should include source and availability.
- 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 - II

I. Statutory compliance:

- 1. The project proponent shall obtain all necessary clearance / permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.
- 3. All directions of the Airport Authority, Director of Explosives and Fire Department etc. shall be complied with.
- 4. 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.
- 5. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- 6. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- 7. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- The project proponent shall follow the ECBC / ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- 10. The facilities provided for collection, segregation, handling, on site storage & processing of solid waste such as chute system for multi-storey buildings, wet & dry bins, collection

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centre & mechanical composter etc. shall be properly maintained. The collected solid waste shall be segregated at site. The recyclable solid waste shall be sold out to the authorized vendors for which a written tie-up must be done with the authorized recyclers.

- 11. Hazardous waste/E-waste should be disposed off as per Rules applicable and with the necessary approval of the Bihar State Pollution Control Board.
- 12. Solar power plant or other solar energy related equipment's shall be operated and maintained properly.
- 13. Provisions shall be made for the integration of solar water heating system.
- 14. EC conditions must be displayed 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.
- 15. Fencing of the project boundary by erecting 10 meter façade before start of construction activities.
- 16. Free Parking facility for visitors shall be provided.
- 17. The Project Proponent will strictly adhere to the fly ash notification and subsequent amendment for using all the building and construction material to be used in the project.

II. Air quality monitoring and preservation

- Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- 2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.

- 4. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Diesel to be used should have lower in sulphur content. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- 5. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust / wind breaking walls all around the site (at least 10 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- 6. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- 7. Wet jet shall be provided for grinding and stone cutting.
- 8. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- 9. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- 11. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust

pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.

- 12. For indoor air quality the ventilation provisions as per National Building Code of India.
- 13. Real time Ambient Air Quality shall be measured on continuous basis and and the data shall be displayed in public domain as per National Ambient Air Quality parameters and on the portal of hospital. The measured data shall be linked to the server of the State Pollution Control Board.

III. Water quality monitoring and preservation:

- The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- 3. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- 4. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the, SEIAA/ Regional Office, MoEF&CC along with six monthly Monitoring reports.
- 5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

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- 6. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- 7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- 8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.
- Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- 10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- 11. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- 12. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- 13. All recharge should be limited to shallow aquifer.
- 14. No ground water shall be used during construction phase of the project.

- 15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- 16. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- 17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- 18. No sewage or untreated effluent water would be discharged through storm water drains.
- 19. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- 20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- 21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
- 22. Separate drainage system shall be developed for storm water so that end point discharge to nearest nallah / river is ensured to avoid water logging without any increase in the pollution load in receiving system.

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IV. Noise monitoring and prevention:

- 1. Ambient noise levels shall conform to residential area silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
- 2. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures:

- Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- 2. Outdoor and common area lighting shall be LED.
- 3. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- Energy conservation measures like installation of CFLs / LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

- 5. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- 6. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management:

- 1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- Proper composting / vermi-composting of municipal and biodegradable solid wastes shall be carried out. All municipal solid wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Municipal Solid Wastes (Management and Handling) Rules, 2000 (As amended).
- 3. All the top soil excavated during construction activities shall be stored for use in horticulture/landscape development within the project site.
- 4. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- 5. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.

- 6. Organic waste compost / Vermiculture pit / Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- 7. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- 9. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
- 10. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016, Ready mixed concrete must be used in building construction.
- 11. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- 12. Used CFLs and TFLs should be properly collected and disposed off / sent for recycling as per the prevailing guidelines / rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover:

- 1. No tree should be felled unless exigencies demand. Wherever absolutely necessary, tree felling shall be done with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured in the ratio of species cut to species planted.
- 2,697.52 m² (24.79%) of the plot area shall be kept under green belt cover within the project site.

- 3. All the affords shall be made not to fell any tree however if any tree need to be removed necessarily a prior permission from concerned local Authority shall be obtained. In case of felling plantations to be insured in the ratio of species cut / removed to species planted. Area for green belt development shall be provided as per the details provided in the Project document.
- 4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

VIII. Transport:

- 1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
- 2. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- 3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D. / competent authority for road augmentation and shall also have their consent to the

implementation of components of the plan which involve the participation of these departments.

IX. Human health issues:

- 1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- 2. For indoor air quality the ventilation provisions as per National Building Code of India.
- Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- 4. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- 5. Occupational health surveillance of the workers shall be done on a regular basis.
- 6. A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility:

- 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.
- 2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / conditions and / or shareholders / stake

holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

- 3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- 4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the SEIAA/ Ministry, Regional Office along with the Six Monthly Compliance Report.

XI. Miscellaneous:

- The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC / SEIAA website where it is displayed.
- 2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- 3. The project proponent shall permanently display all the EC conditions applicable to construction and operating phase affecting people at large along with contact details of SEIAA and SPCB to report violation of EC condition by any citizen.
- 4. The proponent shall ensure that vehicle carrying construction materials during construction and visitors vehicles during operation phase is not parked outside their premises.
- 5. No construction materials shall be dumped or stored beyond their premises.

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- 6. All utility lines (electricity, telephone, cable, water supply, sewage, drainage, etc. shall be laid below ground level. Ducts shall be provided along and across the roads to lay the utility lines. Major trunk (water/sewerage) lines are to be laid along the utility corridor.
- 7. Rest room facilities shall be provided for service population.
- 8. Permission shall be made for food waste management facility / Bio-composting unit preferably in the campus.
- 9. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- 10. The project proponent shall abide by all the commitments and recommendations made in the EIA / EMP report, commitment made during their presentation to the State Expert Appraisal Committee.
- 11. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- 12. The project proponent shall submit the environmental statement for each financial year in Form-V 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.
- 13. The project proponent shall inform the SEIAA, Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- 14. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- 15. The EC granted on submitted basis of the layout plan of 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.

- 16. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA.
- Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- 18. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 19. The SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- The Regional Office of the MoEF&CC, GoI / SEIAA 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.
- 21. 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, and other relevant information for the general public.
- 22. 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.

- 23. Whenever developer will hand over building to the society, the developer must mention in the agreement or sale deed that 24.79% of green belt area of total plot area should mentioned & Environmental Conditions given by SEIAA, Bihar has to be complied.
- 24. Environmental clearance shall remain valid for a maximum period of 7 years or completion of project whichever is earlier.
- 25. Any appeal against this EC 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.