

STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR

2nd Floor, BELTRON Bhawan, Shastri Nagar, Patna – 800023.

Ref. No. - 243.

Patna Dated: - 09/08/2023.

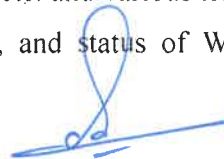
**MINUTES OF 23rd MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE (SEAC), BIHAR CONSTITUTED ON 12.08.2021**

VENUE: SEIAA Office

DATE: 05th August 2023

Minutes/Proceeding of the Meeting

- 1. Opening Remarks of the Chairman:** The Chairman and Members extended a warm welcome to each other and participants of the meeting. Thereafter, the meeting was opened for the proceedings as per the agenda adopted for the meeting.
- 2. Confirmation of Minutes of 22nd Meeting (22/2023)** vide Ref. No. - 236, dated 02.08.2023 of State Expert Appraisal Committee held on 22nd July, 2023. The State Expert Appraisal Committee, hereinafter referred to as SEAC, was informed that no representation has been received regarding projects considered in the meeting held on 22nd July, 2023. The minutes of the meeting of the said SEAC was confirmed by the Committee.
- 3. Consideration of Proposals:** The SEAC considered the proposals received as per the agenda adopted for the 23rd meeting (23/2023) vide Ref. No. 235 dated- 31.07.2023 and Ref. No. 238 dated- 03.08.2023. The key points of the deliberations held were as follows.
- 4.** With regard to the proposals submitted for the mining / real-estate/ apartment/ residential building projects, industry, etc. and various issues concerning the green belt area/greenery, human health hazards, and status of Waste Management, etc. were thoroughly discussed and scrutinized.



Consideration of Environmental Clearance Proposal

AGENDA ITEM NO. 01

Proposed Residential cum Commercial Building Project "Ujjwal City" at Mauza:- Sohagi, Thana:- Gaurichak, Tehsil:- Sampatchak, District:- Patna, State:- Bihar; by M/s Ujjwal Homes Private Limited [Total Plot Area:- 10,733.48 m², Total Built-up Area:- 47,847.02 m²] – Reg. Environmental Clearance, (File No.: SIA/8(a)/2050/2022, Proposal No.: SIA/BR/INFRA2/430479/2023).

Environment Consultant: M/s 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 01st December, 2022 for obtaining Term of Reference (ToR). ToR was issued by SEIAA, Bihar vide SIA/8(a)/2050/2022, dated 23.01.2023. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 09th June, 2023 for obtaining Environmental Clearance (EC).

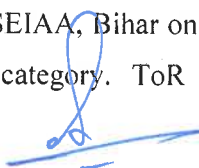
The Project Proponent along with the environmental consultant requested the committee to consider the proposal in next SEAC meeting due to revision in damage assessment / Remedial Plan and Community Augmentation Plan. Therefore the committee accepted the request of project proponent.

AGENDA ITEM NO. 02

Proposed Township and Area Development Project "TIRUVANTPURAM CITY (VIDHUT SECTOR)" at Mauza:- Adampur, Tehsil:- Danapur, District:- Patna, State:- Bihar; by M/s Nesh India Infrastructure Private Limited [Total Plot Area:- 25,259.40 m², Total Built-up Area:- 88,542.81 m²] – Reg. Environmental Clearance, (File No.: SIA/8(b)/2425/2023, Proposal No.: SIA/BR/INFRA2/437808/2023).

Environment Consultant: M/s 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 31st May, 2023 for obtaining Terms of Reference (ToR) under violation category. ToR was issued by SEIAA, Bihar vide



SIA/8(b)/2425/2023, dated 07.07.2023. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 31st July, 2023 for obtaining Environmental Clearance (EC).

The Project Proponent along with the environmental consultant requested the committee to consider the proposal in next SEAC meeting due to revision in damage assessment / Remedial Plan and Community Augmentation Plan. Therefore the committee accepted the request of project proponent.

AGENDA ITEM NO. 03

Proposed “Himalaya Medical College and Hospital” at Mauza:- Chiksi, Tehsil:- Paliganj, District:- Patna, State:- Bihar; by M/s Himalaya Educational Trust [Total Plot Area:- 1,13,465.20 m², Total Built-up Area:- 1,03,022.63 m²] – Reg. Environmental Clearance,

(File No.: SIA/8(a)/2418/2023, Proposal No.: SIA/BR/INFRA2/430285/2023).

Environment Consultant: M/s Rain Enviro 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 30th June, 2023 for obtaining Environmental Clearance (EC).

The Project Proponent along with the environmental consultant M/s Rian Enviro Private Limited, made a presentation on the key parameters and salient features of the project. Based on the discussion, the committee found their proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for the grant of Environmental Clearance subject to the following additional conditions along with the standard conditions as mentioned in Annexure "A".

1. Provide solar panels over 30% of the total rooftop area (open terrace).
2. Corporate Environmental Responsibility (CER) proposal in consultation with the concerned authority of the Local Body (Municipal Corporation/Municipality/Nagar Panchayat/Gram Panchayat) by clearly outlining the type of activities and amount involved, etc. Which shall predominantly include Municipal Solid Waste Management activities like-

- a) Material Recovery Facility (MRF).



- b) Wet Waste Processing Facilities.
- c) waste collection vehicles, etc.
3. Tree Plantation in three-rows should be raised around the entire campus especially of soil binding plants.
4. Before start of operation, authorization must be taken from Bihar State pollution Control Board, Bihar regarding bio-medical waste under the relevant Rules.
5. The space of 100 meter must be left from the Bank of river Punpun and greenery or plantation should be done/created to protect flooding in addition to environmental protection. As per NGT/Supreme Court guidelines, if the buffer zone is more for river Ganga and its sub-basins, it should be strictly maintained and no construction work should be done.
6. The Expert team from SEIAA/SEAC may visit any time in coming days during the implementation of the above project to verify whether the Hon'ble NGT/Supreme Court norms are being complied.

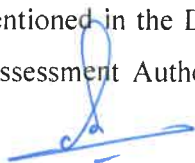
AGENDA ITEM NO. 04

Proposed Sand Mining Project on Son River at Aurangabad Son 26 Sand Ghat of District - Aurangabad, Area – 86.99 Ha. – Reg. Environmental Clearance, (File No.: SIA/1(a)/2274/2022, Proposal No.: SIA/BR/MIN/436796/2023).

Environment Consultant: M/s Rain Enviro Private Limited.

Application along with filled up Form - I, Prefeasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 31st January, 2023 for obtaining Terms of Reference (ToR). System Generated ToR was issued by SEIAA, Bihar vide SIA/1(a)/2274/2022, dated 03.02.2023 and Public Consultation was conducted by Bihar State Pollution Control Board, Patna on 26.06.2023. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 28th July, 2023 for obtaining Environmental Clearance (EC).

The proposal has been mentioned in the District Survey Report (DSR) approved by the State Environment Impact Assessment Authority (SEIAA), Bihar vide letter no. 265, dated 23.05.2022.



The Project Proponent along with its environmental consultant M/s Rian Enviro Private Limited, made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following additional conditions along with standard conditions as mentioned in Annexure "B".

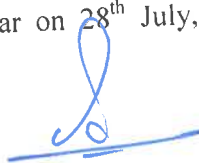
1. The proposed plantation (consisting of mixture of indigenous and fast growing species of trees must be created in one go and maintained. Plantation of (minimum 5 feet tall plants) must be planted in the 1st year of lease period and has to be maintained till the validity of Environmental Clearance.
2. The Project Proponent shall execute and conduct measurable CER activity like infrastructure creation for drinking water supply, solar power, rain water harvesting, Solid waste management facilities, sanitation essential furnitures for the local government schools and anganwadi Kendra, etc and display board must be placed for the information of the public, with intimation to the concerned District Magistrate and the concerned district level officer of the concerned department.

AGENDA ITEM NO. 05

Proposed Sand Mining Project on Son River at Aurangabad Son 07 Sand Ghat of District - Aurangabad, Area – 39.97 Ha. – Reg. Environmental Clearance, (File No.: SIA/1(a)/2082/2022, Proposal No.: SIA/BR/MIN/437453/2023).

Environment Consultant: M/s Rain Enviro Private Limited.

Application along with filled up Form - I, Prefeasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 23rd December, 2023 for obtaining Terms of Reference (ToR). ToR was issued by SEIAA, Bihar vide SIA/1(a)/2082/2022, dated 11.01.2023 and Public Consultation was conducted by Bihar State Pollution Control Board, Patna on 23.06.2023. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 28th July, 2023 for obtaining Environmental Clearance (EC).



The proposal has been mentioned in the District Survey Report (DSR) approved by the State Environment Impact Assessment Authority (SEIAA), Bihar vide letter no. 265, dated 23.05.2022.

The Project Proponent along with its environmental consultant M/s Rian Enviro Private Limited, made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following additional conditions along with standard conditions in Annexure "B".

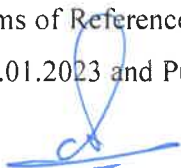
1. The proposed plantation (consisting of mixture of indigenous and fast growing species of trees must be created in one go and maintained. Plantation of (minimum 5 feet tall plants) must be planted in the 1st year of lease period and has to be maintained till the validity of Environmental Clearance.
2. The Project Proponent shall execute and conduct measurable CER activity like infrastructure creation for drinking water supply, solar power, rain water harvesting, Solid waste management facilities, sanitation essential furnitures for the local government schools and anganwadi Kendra, etc and display board must be placed for the information of the public, with intimation to the concerned District Magistrate and the concerned district level officer of the concerned department.

AGENDA ITEM NO. 06

Proposed Sand Mining Project on Son River at Aurangabad Son 31 Sand Ghat of District - Aurangabad, Area – 60 Ha. – Reg. Environmental Clearance, (File No.: SIA/1(a)/2065/2022, Proposal No.: SIA/BR/MIN/436466/2023).

Environment Consultant: M/s Rain Enviro Private Limited.

Application along with filled up Form - I, Prefeasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 14th December, 2022 for obtaining Terms of Reference (ToR). ToR was issued by SEIAA, Bihar vide SIA/1(a)/2065/2022, dated 11.01.2023 and Public Consultation was conducted by Bihar



State Pollution Control Board, Patna on 30.05.2023. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 28th July, 2023 for obtaining Environmental Clearance (EC).

The proposal has been mentioned in the District Survey Report (DSR) approved by the State Environment Impact Assessment Authority (SEIAA), Bihar vide letter no. 265, dated 23.05.2022.

The Project Proponent along with its environmental consultant M/s Rian Enviro Private Limited, made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following additional conditions along with standard conditions in Annexure "B".

1. The proposed plantation (consisting of mixture of indigenous and fast growing species of trees must be created in one go and maintained. Plantation of (minimum 5 feet tall plants) must be planted in the 1st year of lease period and has to be maintained till the validity of Environmental Clearance.
2. The Project Proponent shall execute and conduct measurable CER activity like infrastructure creation for drinking water supply, solar power, rain water harvesting, Solid waste management facilities, sanitation essential furnitures for the local government schools and anganwadi Kendra, etc and display board must be placed for the information of the public, with intimation to the concerned District Magistrate and the concerned district level officer of the concerned department..

AGENDA ITEM NO. 07

Proposed Sand Mining Project on Son River at Aurangabad Son 09 Sand Ghat of District - Aurangabad, Area – 94.88 Ha. – Reg. Environmental Clearance, (File No.: SIA/1(a)/2089/2022, Proposal No.: SIA/BR/MIN/436702/2023).

Environment Consultant: M/s Rian Enviro Private Limited.

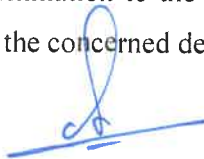


Application along with filled up Form - I, Prefeasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 30th December, 2022 for obtaining Terms of Reference (ToR). ToR was issued by SEIAA, Bihar vide SIA/1(a)/2089/2022, dated 11.01.2023 and Public Consultation was conducted by Bihar State Pollution Control Board, Patna on 23.06.2023. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 28th July, 2023 for obtaining Environmental Clearance (EC).

The proposal has been mentioned in the District Survey Report (DSR) approved by the State Environment Impact Assessment Authority (SEIAA), Bihar vide letter no. 265, dated 23.05.2022.

The Project Proponent along with its environmental consultant M/s Rian Enviro Private Limited, made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following additional conditions along with standard conditions in Annexure "B".

1. The proposed plantation (consisting of mixture of indigenous and fast growing species of trees must be created in one go and maintained. Plantation of (minimum 5 feet tall plants) must be planted in the 1st year of lease period and has to be maintained till the validity of Environmental Clearance.
2. The Project Proponent shall execute and conduct measurable CER activity like infrastructure creation for drinking water supply, solar power, rain water harvesting, Solid waste management facilities, sanitation essential furnitures for the local government schools and anganwadi Kendra, etc and display board must be placed for the information of the public, with intimation to the concerned District Magistrate and the concerned district level officer of the concerned department.



AGENDA ITEM NO. 08

Proposed Stone Mining Project of “Jalwa Quartz, Quartzite (Silica Stone)” at Village:- Bishunpur, Tehsil:- Surajgarha, District:- Lakhisarai, State:- Bihar, by M/S IDIO Construction & Industries (INDIA) Limited; (Total Area: 19.80 Ha) – Reg. Environmental Clearance,

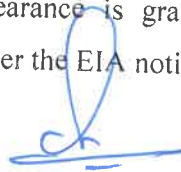
(File No.: SIA/1(a)/1913/2022, Proposal No.: SIA/BR/MIN/417379/2023).

Environment Consultant: M/s PARAMARSH (Servicing Environment and Development).

Application along with Reference (ToR). ToR was issued by SEIAA, Bihar vide SIA/1(a)/1913/2022, dated filled up Form - I, Prefeasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 10th March, 2022 for obtaining Terms of 29.07.2022 and Public Consultation was conducted by Bihar State Pollution Control Board, Patna on 15.12.2022. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 14th March, 2023 for obtaining Environmental Clearance (EC).

The Proposed proposal was forwarded by the SEIAA for appraisal by SEAC, Bihar on 19.07.2023 after taking a legal advice from the SEIAA's Advocate on panel. The said legal opinion was perused wherein the Advocate has opined that “in my considered opinion, SEIAA must take a final decision on the pending environmental clearance application of the project proponent which is public limited company and dispose of the application seeking environment clearance within the statutory scheme of the IA notification irrespective of the inter se dispute between the management as ultimately, it is the company which has to comply with the terms and conditions of the environment clearance in case of grant of such environment clearance by the SEIAA and whosoever is at the helm of the affairs of the company would be responsible for ensuring the compliance of the terms and conditions incorporated in the Environmental Clearance, in case it is granted.

However, as and by way of abundant precaution, in the environment clearance, in case SEIAA proposes to issue such a clearance in favour of the company, a condition may be incorporated that any *inter se* dispute between the parties with respect to the management of the company will have no bearing on the compliances of the terms and conditions of the environment clearance as environment clearance is granted in order to safeguard the environment within the statutory scheme under the EIA notification.”



The Committee after considering the above legal opinion and order dated 27.07.2016 of Hon'ble National Green Tribunal Eastern Zone Bench, Kolkata in Original Application No. 29/2016/EZ. The Hon'ble National Green Tribunal Eastern Zone Bench, Kolkata has imposed an amount of Rs. 5 lakh each per year as environmental compensation against revenue commencing from the first date of its operation till the date of its closure i.e. from 2001 to 2008 (8 years) and again from 2011 to 2015 (5 years) i.e., total 13 years. It was directed that the entire amount shall be kept in a joint FDR A/C of Bihar State PCB and Bihar SEIAA opened in a nationalized bank at Patna, Bihar. Apart from this, the applicant was directed furnish Bank Guarantee of Rupees one Crore with the MOEFCC, GoI.

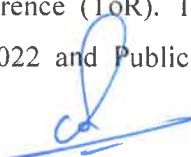
The Project Proponent along with his environmental consultant PARAMARSH (Servicing Environment and Development), made a presentation on the order of the Hon'ble National Green Tribunal, key parameter and salient features of the project. The Committee found that in District Survey Report, the total area of the two mining leases in favour of the applicant company is mentioned as 16.19 Ha but the proponent has sought environmental clearance for a total area of 19.80 Ha (two quartzite mining leases). Therefore the Committee decided to recommend the proposed proposal (as per area mentioned in District Survey Report i.e. 16.19 Ha) for grant of Environmental clearance with conditions as contained in Annexure - "C". subject to the deposition of Environmental compensation and bank guarantee amount to Bihar State PCB and Bihar SEIAA and to the MoEF&CC, GoI, as per the Hon'ble National Green Tribunal's above mentioned order.

AGENDA ITEM NO. 09

Proposed Molasses based distillery project at Village:- Khajuria & Harkhua, Tehsil:- Gopalganj, District:- Gopalganj, State:- Bihar, by M/s Vishnu Sugar Mills Limited [Total Proposed Capacity 60 KLPD] – Reg. Environmental Clearance, (File No.: SIA/5(g)/2045/2022, Proposal No.: SIA/BR/IND2/437742/2023).

Environment Consultant: M/s PARAMARSH (Servicing Environment and Development).

Application along with filled up Form - I, Prefeasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 26th August, 2022 for obtaining Terms of Reference (ToR). ToR was issued by SEIAA, Bihar vide SIA/5(g)/2045/2022, dated 23.09.2022 and Public Consultation was conducted by Bihar



State Pollution Control Board, Patna on 28.04.2023. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 28th July, 2023 for obtaining Environmental Clearance (EC).

The Project Proponent along with its environmental consultant M/s PARAMARSH (Servicing Environment and Development), made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following additional conditions along with standard conditions in Annexure "D".

1. Automatic/Mist Sprinkler system must be installed near haul road/transportation road within the campus.
2. The Project Proponent shall execute and conduct measurable CER activity like infrastructure creation for drinking water supply, solar power, rain water harvesting, Solid waste management facilities, sanitation essential furnitures for the local government schools and anganwadi Kendra, etc and display board must be placed for the information of the public, with intimation to the concerned District Magistrate and the concerned district level officer of the concerned department

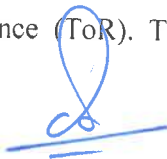
AGENDA ITEM NO. 10

Proposed Chemical Fertilizer Project "Indian Potash Limited" at Village:- Bela Industrial Area, Tehsil:- Mushari, District:- Muzaffarpur, State:- Bihar; by M/s Indian Potash Limited (Previously:- M/s Sri Krishna Fertilizers Limited [Production Facilities Single Super Phosphate (SSP) {Existing – 100 MT/Day (GSSP: Granular Single Super Phosphate), Proposed Modernization and Expansion – Granular SSP or Powder SSP 300 MT/Day} Total Production:- 400 MT/Day (GSSP or PSSP)] – Reg. Environmental Clearance,

(File No.: SIA/5(a)/2296/2023, Proposal No.: SIA/BR/IND3/435493/2023).

Environment Consultant: M/s Aseries envirotek india pvt Ltd.

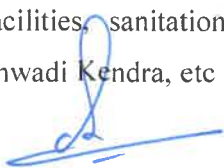
Application along with filled up Form - I, Prefeasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 07th February, 2023 for obtaining Terms of Reference (ToR). ToR was issued by SEIAA, Bihar vide



SIA/5(a)/2296/2023, dated 28.03.2022. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 22nd July, 2023 for obtaining Environmental Clearance (EC).

The Project Proponent along with its environmental consultant M/s Aseries envirotek india pvt Ltd.. made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following additional conditions along with standard conditions in Annexure "E".

1. The Proponent shall comply with the provisions of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended, as applicable, such as notification of major accident, preparation of safety report/safety audit report, preparation of on-site emergency plan and providing information related with preparation of off-site emergency plan by the Authority.
2. Tree plantation in three rows should be raised around the entire campus.
3. The important mobile number (contact number) in case of emergency should be displayed at every corner of the industry premises including the entry gate;
4. Fauna study (Birds, Reptiles and Mammalian diversity) should be carried out at every year and a consolidated report should be submitted along with the environmental statement by the industry to SEIAA, BSPCB and Regional office MoEF&CC, GoI;
5. Insect (Butterfly) park should be created within the campus in a area of 50 feet x 50 feet;
6. Automatic Sprinkler system must be installed near storage tank and operational unit. It should start working immediately/automatically in case of any leakage or increase in temperature.
7. On-site medical facilities, safety measures for staff in case of fire and proper alarm system must be installed.
8. All the equipments/storage facilities must be as per NGT norms as well as Govt. of India guidelines for hazardous chemicals.
9. The Project Proponent shall execute and conduct measurable CER activity like infrastructure creation for drinking water supply, solar power, rain water harvesting, Solid waste management facilities, sanitation essential furnitures for the local government schools and anganwadi Kendra, etc and display board must be placed for



the information of the public, with intimation to the concerned District Magistrate and the concerned district level officer of the concerned department.

AGENDA ITEM NO. 11

Proposed Commercial Building Project “Azalfa Trade Centre” at Mauza:- Mainpura Shankar, Saugna More, Tehsil:- Danapur, District:- Patna, State:- Bihar; by M/s Azalfa Building Construction Private Limited [Total Plot Area:- 5,194.74 m², Total Built-up Area:- 25,939.71 m²] – Reg. Environmental Clearance, (File No.: SIA/8(a)/2454/2023, Proposal No.: SIA/BR/INFRA2/437780/2023).

Environment Consultant: M/s Rian Enviro 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 26th July, 2023 for obtaining Environmental Clearance (EC).

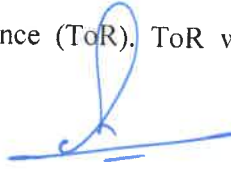
The project proponent requested the committee to consider the proposal in the next SEAC meeting due to minor revision in the proposed plan. Therefore the committee accepted the request of the project proponent.

AGENDA ITEM NO. 12

Proposed Metallurgical Project at Mauza:- Simli Murarpur, Deedarganj, Tehsil:- Patna Rural, District:- Patna, State:- Bihar; Area:- 2.56 Ha (6.34 Acres) by M/s Govardhan Ispat India Private Limited [Production of 200 MT/day/ 60,000 MT/Year of M.S Section- Angle, Channel, Patti, Rod at Simli Murarpur, Deedarganj Patna City] – Reg. Environmental Clearance, (File No.: SIA/3(a)/2367/2023, Proposal No.: SIA/BR/IND1/438123/2023).

Environment Consultant: M/s Rian Enviro Private Limited.

Application along with filled up Form - I, Prefeasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 21st April, 2023 for obtaining Terms of Reference (ToR). ToR was issued by SEIAA, Bihar vide



SIA/3(a)/2367/2023, dated 12.05.2023. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 28th July, 2023 for obtaining Environmental Clearance (EC).

The Project Proponent along with its environmental consultant M/s Rian Enviro Private Limited, made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following additional conditions along with standard conditions in Annexure "F".

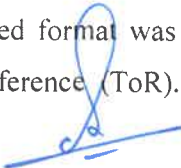
1. Tree plantation in three rows should be raised around the entire campus. It should be ensured that the plantation, green area, open area is strictly as per the guidelines.
2. The Project Proponent shall execute and conduct measurable CER activity like infrastructure creation for drinking water supply, solar power, rain water harvesting, Solid waste management facilities, sanitation essential furnitures for the local government schools and anganwadi Kendra, etc and display board must be placed for the information of the public, with intimation to the concerned District Magistrate and the concerned district level officer of the concerned department

AGENDA ITEM NO. 13

Proposed Township and Area Development Project "Mega Food Park" at Mauza:- Murarpur (Damodarpur), Block:- Motipur, District:- Muzaffarpur, State:- Bihar; by M/s Bihar Industrial Area Development Authority, (BIADA) [Total Plot Area-58.2585 ha. (582585 Sq.m./143.96 Acres), Total Built-up Area:- 6.6 Ha. (66004.23 Sq.m/16.31 Acres)] – Reg. Environmental Clearance, (File No.: SIA/8(b)/2427/2023, Proposal No.: SIA/BR/INFRA2/438864/2023).

Environment Consultant: M/s PARAMARSH (Servicing Environment and Development).

Application along with filled up Form - I, Prefeasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 31st May, 2023 for obtaining Terms of Reference (ToR). ToR was issued by SEIAA, Bihar vide



SIA/8(a)/2427/2023, dated 07.07.2023. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 03rd August, 2023 for obtaining Environmental Clearance (EC).

The Project Proponent along with its environmental consultant M/s PARAMARSH (Servicing Environment and Development), made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal not satisfactory hence the Committee directed to project proponent submit the revised plan for the damage assessment/Remedial Plan and Community Augmentation Plan.

AGENDA ITEM NO. 14

Proposed Sand Mining Project on Kiul River at Lakhisarai , Kiul Cluster II (Block No. – 11 and 12) Sand Ghat of District – Lakhisarai, Area – 32.0 Ha. – Reg. Environmental Clearance,

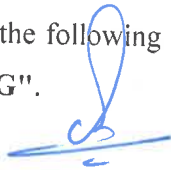
(File No.: SIA/1(a)/2072/2022, Proposal No.: SIA/BR/MIN/430260/2023).

Environment Consultant: M/s P & M Solution.

Application along with filled up Form - I, Prefeasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 15th December, 2022 for obtaining Terms of Reference (ToR). System Generated ToR was issued by SEIAA, Bihar vide SIA/1(a)/2072/2022, dated 11.01.2023 and Public Hearing was conducted by Bihar State Pollution Control Board, Patna on 13.05.2023. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 02nd August, 2023 for obtaining Environmental Clearance (EC).

The proposal has been mentioned in the District Survey Report (DSR) approved by the State Environment Impact Assessment Authority (SEIAA), Bihar vide letter no. 235, dated 23.05.2022.

The Project Proponent along with its environmental consultant M/s P & M solutions Limited, made a presentation on the key parameters and salient features of the project. Based on the discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following additional conditions along with standard conditions mentioned in Annexure "G".



1. The proposed plantation (consisting of mixture of indigenous and fast growing species of trees must be created in one go and maintained. Plantation of (minimum 5 feet tall plants) must be planted in the 1st year of lease period and has to be maintained till the validity of Environmental Clearance.
2. The Project Proponent shall execute and conduct measurable CER activity like infrastructure creation for drinking water supply, solar power, rain water harvesting, Solid waste management facilities, sanitation essential furnitures for the local government schools and anganwadi Kendra, etc and display board must be placed for the information of the public, with intimation to the concerned District Magistrate and the concerned district level officer of the concerned department.
3. The project proponent should undertake the sand mining limited to 1 meter (one meter) depth by manual excavation to check over-exploitation beyond one meter depth.

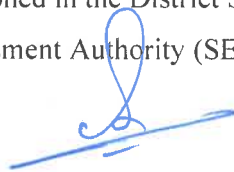
AGENDA ITEM NO. 15

Proposed Sand Mining Project on Kiul River at Lakhisarai Block No. – 05 Sand Ghat of District – Lakhisarai, Area – 32.0 Ha. – Reg. Environmental Clearance, (File No.: SIA/1(a)/2268/2022, Proposal No.: SIA/BR/MIN/437696/2023).

Environment Consultant: M/s P & M Solution.

Application along with filled up Form - I, Prefeasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 31st January, 2023 for obtaining Terms of Reference (ToR). System Generated ToR was issued by SEIAA, Bihar vide SIA/1(a)/2268/2023, dated 02.02.2023 and Public Hearing was conducted by Bihar State Pollution Control Board, Patna on 25.05.2023. Final EIA report in the prescribed format was submitted to SEIAA, Bihar on 02nd August, 2023 for obtaining Environmental Clearance (EC).

The proposal has been mentioned in the District Survey Report (DSR) approved by the State Environment Impact Assessment Authority (SEIAA), Bihar vide letter no. 235, dated 23.05.2022.



The Project Proponent along with its environmental consultant M/s P & M solutions Limited, made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Environmental Clearance subject to the following additional conditions along with standard conditions in Annexure "G".

1. The proposed plantation (consisting of mixture of indigenous and fast growing species of trees must be created in one go and maintained. Plantation of (minimum 5 feet tall plants) must be planted in the 1st year of lease period and has to be maintained till the validity of Environmental Clearance.
2. The Project Proponent shall execute and conduct measurable CER activity like infrastructure creation for drinking water supply, solar power, rain water harvesting, Solid waste management facilities, sanitation essential furnitures for the local government schools and anganwadi Kendra, etc and display board must be placed for the information of the public, with intimation to the concerned District Magistrate and the concerned district level officer of the concerned department.
3. The project proponent should undertake the sand mining limited to 1 meter (one meter) depth by manual excavation to check over-exploitation beyond one meter depth.

Consideration of Terms of Reference Proposal

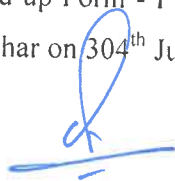
AGENDA ITEM NO. 16

Proposed Industrial Estate Project "Industrial Area" at Mauza:- Mosama, Tehsil:- Warsaliganj, District:- Nawada, State:- Bihar; by M/s Bihar Industrial Area Development Authority (BIADA) [Total Plot Area:- 29.77 Ha. (2,97,767 m² / 73.58 Acres), Standalone Cement Grinding Project – 6.0 Million TPA (2 X 3.0 Million TPA)] – Reg. Terms of Reference.

(File No.: SIA/7(c)/2449/2023, Proposal No.: SIA/BR/INFRA1/433926/2023).

Environment Consultant: M/s PARAMARSH (Servicing Environment and Development).

Application along with filled up Form - I and Prefeasibility Report in the prescribed format was submitted to SEIAA, Bihar on 30th July, 2023 for obtaining Terms of Reference (ToR).



The Project Proponent along with environmental consultant M/s PARAMARSH (Servicing Environment and Development), made a presentation on the key parameters and salient features of the project and requested to allow the baseline data collected during the period of March to May, 2023 for the preparation of EIA report.

The Committee accepted their request to allow the use of baseline data collected during the period of March to May, 2023 for the preparation of EIA report. Based on the discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for the grant of Terms of Reference subject to the following additional conditions along with standard conditions contained in Annexure "H".

1. Collect the one Month data for October 2023 to compare the data collected between month of March to May, 2023.

AGENDA ITEM NO. 17

Proposed Township and Area Development Project "Ashirwad Sundarlal City" at Village:- Mittanchak, Mauza:- Bhelwara, Tehsil:- Gopalpur, District:- Patna, State:- Bihar; by M/s Ashirwad Engicon Private Limited [Total Plot Area:- 47162.19 m², Total Built-up Area:- 198428.03 m²] – Reg. Terms of Reference.

(File No.: SIA/8(b)/2458/2023, Proposal No.: SIA/BR/INFRA2/438317/2023).

Environment Consultant: M/s Rian Enviro 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 31st July, 2023 for obtaining Terms of Reference (ToR).

The Project Proponent along with its environmental consultant M/s Rian Enviro Private Limited, made a presentation on the key parameters and salient features of the project. Based on discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of Terms of Reference subject to the following additional conditions along with standard conditions in Annexure "I".

1. The baseline data shall be collected after the 2023 monsoon.



AGENDA ITEM NO. 18

Proposed Residential cum Commercial Building Project “Megapolis Housing” at Mauza:- Lakhnibigha, Sarari, Tehsil:- Danapur, District:- Patna, State:- Bihar; by M/s Mundeshwari Multicon Private Limited [Total Plot Area:- 48393.05 m², Total Built-up Area:- 261568.77 m²] – Reg. Terms of Reference.

(File No.: SIA/8(b)/2461/2023, Proposal No.: SIA/BR/INFRA2/439080/2023).

Environment Consultant: M/s Rian Enviro 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 3rd August, 2023 for obtaining Terms of Reference (ToR).

The project proponent requested the committee to consider the proposal in the next SEAC meeting due to minor revision in the proposed plan. Therefore the committee accepted the request of the project proponent.

Extension /Amendment/Corrigendum of Terms of Reference Proposal

AGENDA ITEM NO. 19

Proposed Sand Mining Project on Son River at Patna Cluster 13 (Patna Son 16) Sand Ghat of District – Patna, – Reg. Amendment in Terms of Reference.

(File No.: SIA/1(a)/2384/2023, Proposal No.: SIA/BR/MIN/301416/2023).

Environment Consultant: M/s P & M Solution.

Application along with filled up Form - I and Prefeasibility Report in the prescribed format was submitted to SEIAA, Bihar on 24th July, 2023 for obtaining Amendment in Terms of Reference (ToR).

AGENDA ITEM NO. 20

Proposed Sand Mining Project on Son River at Bhoj Son 31 Sand Ghat of District – Bhojpur, – Reg. Amendment in Terms of Reference.

(File No.: SIA/1(a)/2374/2023, Proposal No.: SIA/BR/MIN/301949/2023).

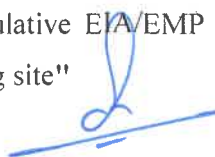
Environment Consultant: M/s P & M Solution.



Application along with filled up Form - I and Prefeasibility Report in the prescribed format was submitted to SEIAA, Bihar on 24th July, 2023 for obtaining Amendment in Terms of Reference (ToR).

The Project Proponent along with concern environmental consultant made a presentation on the key parameters and salient features of the above projects. Based on the discussion, the committee found their presentation and proposal satisfactory and acceptable; hence it was decided to recommend the proposals for grant of Amendment in Terms of Reference as per the standard Terms of Reference conditions as recommended by the MoEF&CC, Govt. of India as mentioned **Annexure "J"** along with the following additional specific conditions:-

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



LIST OF PARTICIPANTS IN 23rd MEETING OF SEAC, BIHAR HELD ON 05th August, 2023

Sl. No.	Name	Designation	Attended on 05.08.2023
1.	Dr. Gopal Sharma	Chairman	Present
2.	Dr. Ramakar Jha	Member	Present
3.	Dr. Bibha Kumari	Member	Present
4.	Dr. Anshumali	Member	Absent
5.	Dr. Aditya Mohanty	Member	Present
6.	Shri Mokhtarul Haque	Member	Absent
7.	Shri Ajit Samaiyar	Member	Present
8.	Shri Ranjan Kumar	Member	Absent
9.	Shri S. Chandrasekar	Member Secretary	Present

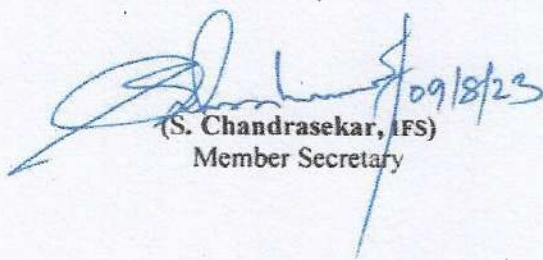
Signature(s) of the Members Present

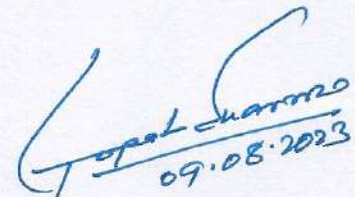
Sd/-
(Dr. Ramakar Jha)
Member, SEAC

Sd/-
(Dr. Bibha Kumari)
Member, SEAC

Sd/-
(Ajit Samaiyar)
Member, SEAC

Sd/-
(Dr. Aditya Mohanty)
Member, SEAC

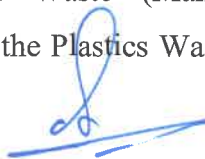

(S. Chandrasekar, IFS)
Member Secretary


(Dr. Gopal Sharma)
Chairman

Annexure – A (Himalaya Medical College - EC)

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.
2. The Project Proponent will obtain CTE from the BSPCB before preparing site for construction; if applicable and CTO before giving occupancy.
3. 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.
4. All directions of the Airport Authority, Director of Explosives and Fire Department, etc. shall be complied with.
5. 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 Bihar State Pollution Control Board.
6. The Project Proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
7. 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.
8. 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.
9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.



10. The Project Proponent shall follow the ECBC / ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power, GoI. strictly.
11. 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 center & 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 / recyclers for which a written tie-up must be done with the authorized vendors / recyclers.
12. Hazardous waste / E-waste should be disposed off as per Rules applicable and with the necessary approval of the Bihar State Pollution Control Board.
13. Solar power plant or other solar energy related equipment's shall be operated and maintained properly.
14. Provisions shall be made for the integration of solar water heating system.
15. Environmental Clearance conditions applicable for construction and operation phase which are in the interest of public at large must be displayed at prominent place which can be easily accessible to public along with address and contact number of authorities to whom violation of EC conditions can be reported.
16. Project site shall be adequately barricaded before the start of construction activity by erecting suitable windscreen upto. 1/3rd of the building height or 10 meters height whichever is more to prevent dispersion of dust particulate (fugitive emission) matter from the construction site.
17. Construction of appropriate civil structure and creation of other facilities shall be undertaken to provide benefit of the person suffering from disability in accordance with Hon'ble Supreme Court of India order dated 15th December 2017 in Writ Petition (Civil) 292 of 2006 with WP (Civil) 997 of 2013 (Disabled Rights Grout & Anr. Vs Union of India &Ors).



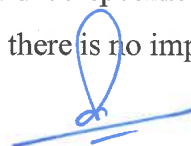
II. Air quality monitoring and preservation

1. 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. Project site shall be adequately barricaded before the start of construction activity by erecting suitable windscreen upto 1/3rd of the building height or upto 10 meters height whichever is more to prevent dispersion of particulate matter (fugitive emission) from the construction site. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. Plastic / tarpaulin sheet covers shall be provided for vehicles bringing all loose construction material e.g sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
3. A Management Plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
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.
5. Dust, smoke& other air pollution prevention measures shall be provided for the building as well as the site.
6. All loose construction material e.g sand, 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.

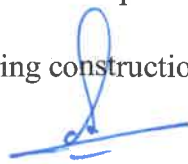
10. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection), Act 1986 prescribed for air and noise emission standards.
11. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. 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 shall be implemented.

III. Water quality monitoring and preservation:

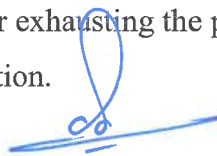
1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wet land and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
2. 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.



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.
9. 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. Rainwater 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. 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 into municipal drain.
17. No sewage or untreated effluent water would be discharged through storm water drains.
18. 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.
19. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
20. 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.
21. 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.
22. Possibilities need to be explored to use STP waste water during construction phase. Fresh water shall be used only after exhausting the possibility of obtaining STP waste water located in municipal jurisdiction.

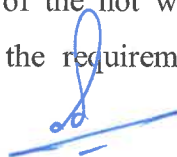


IV. Noise monitoring and prevention:

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. 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:

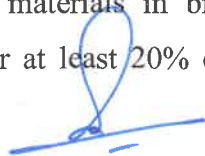
1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. Concept of passive solar design that minimize 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 Energy Conservation Building Code (ECBC) specifications.
4. 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-law's 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 Municipal Solid Waste (M.S.W.) generated from project shall be obtained.
2. 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 Solid Wastes Management, 2016 (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 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.
8. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the Bihar 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.

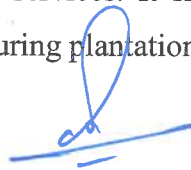


These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.

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 translocation shall be done with prior permission from the concerned regulatory authority. Old trees should be retained/translocated 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. 39712.82 Sqm. of the total plot area shall be kept under green belt cover within the project site.
3. All the efforts shall be made not to fell any tree however if any tree need to be removed necessarily, it may be translocated with prior permission from concerned local Authority. In case of felling, plantations to be ensured 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 re-applied during plantation of the proposed vegetation on site.

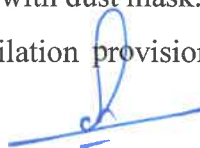


VIII. Transport:

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.
 - e) Proper signages.
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:

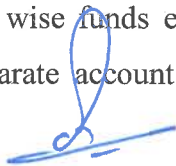
1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
2. For indoor air quality the ventilation provisions as per National Building Code of India.



3. 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:

1. 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 / wildlife norms / 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 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. Additional Conditions:-

1. Provide Waste water drain, rainwater drain and water supply pipe separately. Nothing should be drained outside the campus through underground pipes and nothing should be pumped to groundwater. All the sewage drains shall be covered.
2. Provide Safety measures (Fire, disaster, flood, etc.), /medical facilities and arrangement for physically challenged persons.

XII. Miscellaneous:

1. 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 Environmental Clearance and the details of MoEF&CC/SEIAA, Bihar 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. 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.
4. Rest room facilities shall be provided for service population.
5. The Project Proponent shall upload the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
6. 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.

7. 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.
8. The Project Proponent shall submit the environmental statement for each financial year in Form-V to the Bihar State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
9. 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.
10. The project authorities must strictly adhere to the stipulations made by the Bihar State Pollution Control Board and the State Government.
11. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Bihar.
12. 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.
13. The Environmental Clearance granted on the basis of submitted 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 Environmental Clearance is granted), the Project Proponent shall furnish a copy along with a request to SEIAA, Bihar to make necessary correction/revision in the Environmental Clearance accordingly. Any failure on part of the Project Proponent in doing so will be treated as a violation of Environmental Clearance condition.
14. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.



15. The SEIAA reserves the right to stipulate additional conditions if found necessary which shall be implemented in a time bound manner.
16. 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.
17. Project Proponent shall erect a signboard on his project site and display information regarding name of the project, Environmental Clearance letter No., date and validity period of Environmental Clearance, and Environmental Clearance conditions which affect general public at large along with name of authority to which violation of Environmental Clearance conditions can be reported.
18. 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.
19. Environmental Clearance shall remain valid for a maximum period of 10 years or completion of project whichever is earlier.
20. Any appeal against this Environmental Clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.




Annexure – B (Sand Ghat – EC)

A. Specific Condition

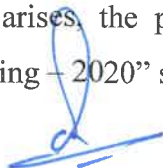
1. The Project Proponent shall obtain all necessary clearance/ permission from all concerned departments before commencement of mining works.
2. The Environmental Clearance will be valid for mine lease period subject to a ceiling of 5 years.
3. The project proponent before starting any activity /preparation of ground, on the leased area shall demarcate his lease hold by RCC pillars erected at the cost of lease holder after certification of the mining officer. On each pillar Geo-Coordinate and fore bearing/ back bearing shall be written with permanent paint mark as described in the mining plan. All the pillars should remain intact at same geo-coordinate. Establishment/ labeling of Benchmark at each pillars or ground control points.
4. Extraction of sand beyond annual production capacity is not permitted.
5. Semi-mechanized, preferably manual method shall be used for the River Bed Mining.
6. Extraction will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is earlier.
7. No mining shall be carried out in the areas prominently used by wild animals (birds and reptiles) for nesting. Restricted working hours-Sand mining operation has to be carried out between 6 am to 7 pm.
8. No mining shall be carried out in 3 meter wide strip from the river bank in a River flood plain and within flowing/live water channel.
9. To maintain the safety and stability of Riverbanks, 3 meter or 10% of the width of the River whichever is more will be left intact as "No Mining Zone".
10. No stream shall be diverted for the purpose of sand mining. No natural water course and / or water reservoirs shall be obstructed due to mining operations.
11. The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only

will be allowed to ply. The mineral transportation shall be carried out through covered vehicles / trucks only and the vehicle shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre.

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



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



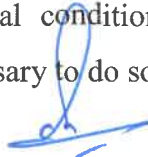
26. All specific and general conditions which are of public concern at large shall be permanently displayed at a prominent place for public along with address and contact details of authority where the violation of EC conditions can be reported.
27. Project proponent shall erect a signboard on his project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

B. General condition

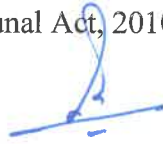
1. No stacking of sand is allowed on road side of any public road including national highways/ State highways.
2. No labour camp shall be allowed in riverbed.
3. Provision shall be made for housing labour with all necessary infrastructure and facilities (outside mining Block and river-bed) such as fuel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

plan. This should be produced before officers of Central and State Government for inspection whenever asked for.

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



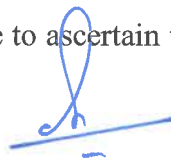
18. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.



Annexure – C (Stone Mining project - EC)

A. Specific Conditions

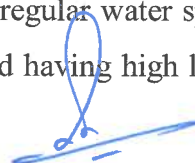
1. Prior to stone mining, the proponent shall get the studies on vibration due to blasting (Zone of influence) and best suitable blasting method specific to location project shall be done by a recognized Institute e.g. Indian Institute of Mines (ISM), Dhanbad or Central Mine and Fuel Research Institute, Dhanbad and submit report to SEIAA office before mining operation. If mining activities is carried out without the vibration studies, the Environmental Clearance shall be considered revoked automatically.
2. The project proponent before starting any activity / preparation of ground, on the leased area shall demarcate his lease hold by RCC pillar erected at the cost of lease holder after certification of the mining officer. On each pillar Geo-Coordinate shall be written with permanent paint mark as described in the mining plan.
3. Human habitation if any within the zone of influence (500 meter radius from the periphery) of the project site shall have to be rehabilitation and resettlement before commissioning mining activity on the proposed site. The cost of rehabilitation will be borne by the Project Proponent.
4. The project proponent shall adopt best mining practice. In the mining area, adequate numbers of check dams, retaining walls, garland drains and settling ponds should be provided to arrest the wash-off with rain water in catchment area.
5. The natural water bodies and streams which are flowing in and around the village should not be disturbed. The water table should be natured so as not to go down below the pre-mining period. Regular monitoring of water table in the open dug well located in the villages should be done to ascertain the impact mining over the ground water table.



6. The Proponent must ensure that specifically at night noise levels are kept within prescribed limits as fixed by MoEF&CC, GoI.
7. The Project proponent should not disturb the grazing ground for cattle.
8. Main Haulage road in the mine should be provided with permanent water sprinklers as well as other roads shall also be wetted with water tankers fitted with sprinklers.
9. The Project proponent shall ensure that the productivity of the agricultural crops is not adversely affected due to mining operations.
10. Transportation of the minerals by road passing through the village should be allowed only by the consent of the villages or else shall construct Bypass road at the expense of the proponent. Proponent shall bear the cost towards widening and strengthening the existing public road network in case the same is used for the project.
11. 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.
12. The Environmental Clearance is coterminous with mining lease by the Department of Mines & Geology, Government of Bihar to Project Proponent and all other Statutory Conditions as imposed by various agencies / District Authorities.
13. No mining shall be undertaken in the forest area without obtaining requisite prior Forest Clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in MoEF&CC, GoI, Guidelines.
14. Environmental Clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any endangered fauna occurs / is found in the Project area). No damage is to be done to fauna if found in Mining Lease (ML) area (as mentioned in various schedules). In case fauna is found they should be given protection, collected

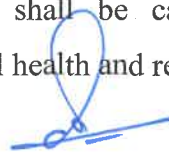
alive with the help of the expert and transferred them or handing over them to the concerned authorities. Conservation Plan, if applicable has to be adhered to.

15. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
16. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the SEIAA, Bihar / BSPCB, Patna on six monthly basis.
17. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields and other water bodies. The water so collected should be utilized for watering the mine area, haul roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
18. Dimension of the retaining wall at the toe of the Over Burden (OB) benches within the mine to check run-off and the siltation shall be based on the rainfall data.
19. Wherever it is possible three tier plantation shall be undertaken to develop a greenbelt shall be developed all along the mine lease area. The Project proponent shall take up tree plantation area equivalent to 33 % of the leased area preferably along the periphery and in vacant space within the lease area. Fast growing and local species will be planted. Plantation should be completed within 3 Years tree density 2,500 tree/ha.
20. Toilet for BPL family must be provided and facilities of drinking water for villagers for its established of a tank for drinking water.
21. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such



as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

22. The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Water Resource Department, Government of Bihar / Central Ground Water Board.
23. Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of minerals outside the mine lease area shall be carried out after the sunset.
24. No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime within a safe distance from any human habitation in accordance with applicable rules and/or orders of various courts and/or Tribunals. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
25. Drills shall either be operated with the dust extractors or equipped with water injection system.
26. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that concentration of PM₁₀ and PM_{2.5} levels are within the national Ambient Air Quality Standards.
27. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out by registered medical practitioner/specialized occupational health and records maintained.



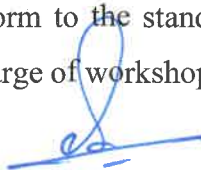
28. Provision shall be made for the housing of construction labour within the camping site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
29. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
30. The progressive mine reclamation shall be implemented.
31. The Project Proponent shall obtain Consent to Establish and Consent to Operate from the Bihar State Pollution Control Board, Patna and effectively implement all the conditions stipulated therein.
32. All along the boundary of mine lease 7.5 meter width shall be maintained as safety zone and developed as a green belt area.
33. Ground water shall not be abstracted without prior permission of competent authority i.e., CGWB/SGWB, if applicable.
34. The Proponent in consultation with CGWB/SGWB will install Piezometer to monitor the fluctuation in ground water level due to mining and data shall be submitted CGWB / SGWB; BSPCB, Patna; SEIAA, Bihar and MoEF&CC, GoI.
35. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna, etc.
36. The Project Proponent should advertise in at least two local newspapers widely circulated in the region, one of which should be in the vernacular language, informing that the project has been accorded Environmental Clearance and copies of clearance

letters are available with the State Environment Impact Assessment Authority, Bihar, and the same may also be sent to Bihar State Pollution Control Board (B.S.P.C.B.), Patna. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of MoEF&CC at Ranchi.

37. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

B. General conditions

1. No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Bihar, SEIAA, Bihar; Bihar State Pollution Control Board, Patna during the EC period.
2. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
3. The Project Proponent shall maintain register for production and dispatch and submit return to the Bihar State Pollution Control Board and SEIAA, Bihar.
4. The Project Proponent shall not carry out tree felling in leased out area without the permission of competent authority.
5. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of Heavy Earth Moving Machinery (HEMM), etc. should be provided with ear plugs/muffs.
6. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed. Oil and grease trap should be installed before discharge of workshop effluents.



7. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
8. Dispensary facilities for First Aid shall be provided at site.
9. A separate "Environmental Management/Monitoring Cell" with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
10. The SEIAA, Bihar directly shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) by furnishing the requisite data / information / monitoring reports.
11. The Project Proponent shall submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as soft copy by e-mail) to the SEIAA, Bihar.
12. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
13. Environmental Clearance shall be valid for a maximum period of 5 years or till expiry of lease period whichever is earlier.
14. All specific and general conditions which are of public concern at large shall be permanently displayed at a prominent place for public along with address and contact details of authority where the violation of EC conditions can be reported.

15. All statutory clearances shall be obtained before start of mining operations.

C. Other Conditions:-

1. The responsibility for implementation of environmental safeguards rest fully with the project proponent.
2. The Project Proponent shall submit (to the SEIAA, Bihar; Regional Office of MoEF&CC at Ranchi; Bihar State Pollution Control Board) six monthly compliance report of the conditions within a fortnight after the end of every six month till validity period of E.C.
3. Environmental Clearance shall be liable to be revoked if furnished information / provided description / Certificates/Affidavits / Undertaking etc. are found false / concocted at any stage of its validity.
4. This Environmental Clearance is issued without affecting any court order / statutory instructions as well as relevant other laws enacted by MoEF&CC, GoI, New Delhi.
5. Mining and transportation of mined material from mine site to stock yard shall be done in the day time only to avoid noise pollution in the nearby human habitation area.
6. The Authority (SEIAA, Bihar) reserves the right to add any new condition(s) or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority (SEIAA, Bihar) if that be so, legal action as per the provision of Environment (Protection) Act, 1986.
7. The Project Proponent shall not increase production rate and alter lease area during the validity of Environmental Clearance.
8. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Bihar for clearance, a fresh reference should be made to SEIAA to assess the

adequacy of the conditions imposed and to incorporate any new condition(s), if required.

9. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court, Patna and any other Court of Law relating to the subject matter.
10. 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 – D (Distillery projects - EC)

I. Statutory compliance:-

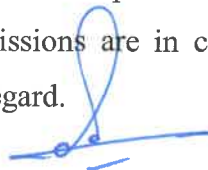
- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department; the implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. 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.
- v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vi. 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.

II. Air quality monitoring and preservation:-

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No.-546 (E) dated 30th August

2008 as amended from time to time and S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and the systems be calibrated according to equipment supplier's specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

- ii. The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emission) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)
- iii. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- v. The National should Air Quality Emission Standards issued by the Ministry vide G.S.R. No.-826(E) dated 16th November, 2009 shall be complied with.
- vi. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.



- viii. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution other fugitive emissions.

III. Water quality monitoring and preservation:-

- i. For online continuous of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD) and connected to SPCB and CPCB online servers.
- ii. Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD)
- iii. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- iv. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/water Act, whichever is more stringent.
- v. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from concerned regulatory authority/CGWA in this regard.
- vi. Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/CDS shall be passed through stripper followed by MEE and ATFD (agitated thin film drier.) Low TDS effluent stream shall be treated in ETP and then passed through RO system.
- vii. 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.

IV. Noise monitoring and prevention:-


- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. 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.
- iii. The ambient noise levels should conform to the standards prescribed under E(P) A Rules, 1986 viz. 75 dB (A) during day time and 70 dB (A) during night time.

V. Energy Conservation measures :-

- i. The energy sources for lighting purposes shall preferably be LED based.

VI. Water management :-

- i. 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.
- ii. 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.
- iii. The company shall undertake waste minimization measures as below:-
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c. Use of automate filling to minimize spillage.
 - d. Use of Close feed system into batch reactors.
 - e. Venting equipment through vapour recovery system.
 - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.



VII. Green Belt :-

- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.

VIII. Safety, Public hearing and Human health/safety issues :-

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- iv. 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.
- v. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vi. 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.

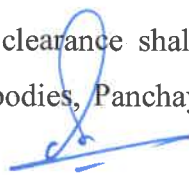
IX. Corporate Environment Responsibility :-

- i. 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.

- ii. 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 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 / wildlife norms / 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.
- iii. A separate Environmental Cell both at the project and company head quarter lever, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. 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 Ministry/ Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

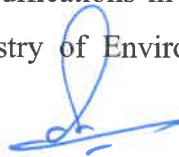
X. Miscellaneous :-

- i. 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 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.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Munichipal Bodies in

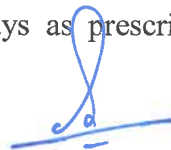


addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

- iii. 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.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. 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.
- vi. The project proponent shall submit the environmental statement for each financially 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.
- vii. The project proponent shall inform the 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.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).



- xi. 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.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions if not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.
- xiv. The Regional office of this Ministry 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.
- xv. 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.
- xvi. 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.



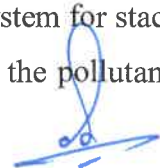
Annexure – E (Chemical Fertilizer project - EC)

A. Specific Condition

1. The Project Proponent shall develop Greenbelt over an area of at least 33 % of the total plot area within a period of one year of grant of EC. The saplings selected for the plantation should be of sufficient height, preferably 6-ft (about 2m). The budget earmarked for the plantation shall be kept in separate account and should be audited annually. Project Proponent should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of the expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC /SEIAA, Bihar before 1st July of every year for the activities carried out during the previous year.
2. A separate Environmental Management Cell (having qualified persons with Environmental Science / Environmental Engineering / specialization in the project area) equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions by engaging Plant Manager, Environment officer- Environment official. In addition to this, one safety & health officer as per the qualification given in Factories Act, 1948 shall be engaged within a month of grant of EC. The PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.
3. 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 environmental management, and risk mitigation measures relating to the project shall be implemented. The budget proposed under EMP [365 Lakh (Capital cost) and 70 Lakhs (Recurring cost)] shall be kept in a separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of

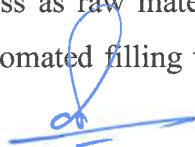
MoEF&CC before 1st July of every year for the activities carried out during the previous year..

4. The PP should ensure that water supply should not be the permissible limit as mentioned in the letter and fresh water shall be withdrawal only after obtaining prior agreement from Concerned Authority. The Project Proponent should submit the details of utilization to the Integrated Regional Office (IRO), MoEF&CC/SEIAA, Bihar before 1st July of every year for the activities carried out during the previous year.
5. No banned chemicals shall be manufactured by the Project Proponent. No banned raw materials shall be used in the unit. The Project Proponent shall adhere to the notifications / guidelines of the Government in this regard.
6. The Project Proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
7. The Project Proponent shall comply with the environment norms for Fertilizer as notified by the Ministry of Environment, Forest and Climate Change, *vide* GSR 1607(E), dated 29.12.2017 under the provisions of the Environment (Protection) Rules, 1986.
8. All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The Project Proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.
9. The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97% with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.
10. The Project Proponent shall explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal.
11. As committed by the Project Proponent, Zero Liquid Discharge shall be ensured.
12. Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to



be transmitted to the CPCB and SPCB servers. 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.

13. The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
14. The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
15. Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.
16. The unit shall make the arrangement for the protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
17. The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
18. The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent / any wastewater shall not be allowed to mix with storm water.
19. The Project Proponent shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close

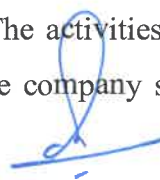


Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.

20. The activities and the action plan proposed by the project proponent to address the issues raised during the public hearing as well as the related socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit.

B. General Condition

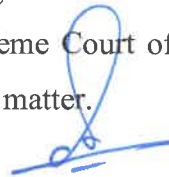
1. No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change / SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry / SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
2. The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.
3. The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
4. 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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
5. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental



measures including community welfare measures in the project area for the overall improvement of the environment.

6. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.
7. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal.
8. The project proponent shall also upload/submit six monthly reports on PARIVESH Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated 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 website of the company.
9. The environmental statement for each financial year ending 31st March 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, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Integrated Regional Office of MoEF&CC by e-mail.
10. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at <https://parivesh.nic.in/>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

11. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project. Submit details regarding R&R involved in the project.
12. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
13. The SEIAA, Bihar reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.
14. 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 the Environment (Protection) Act, 1986.
15. 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.
16. 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.



Annexure – F (Metallurgy projects - EC)

I. Statutory compliance:

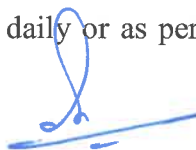
1. The Project Proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the water (prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
2. The Project Proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water/from the competent authority concerned in case of drawl of surface water required for the project.
3. The Project Proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

II. Air quality monitoring and preservation

1. The Project Proponent shall install 24x7 continuous emission monitoring system ensuring 98% data upload at process stacks to monitor stack emission with respect to standards prescribed in Environment(Protection) Rules 1986 vide G.S.R. 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended form time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2. The Project Proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (protection) Act, 1986 or NABL accredited laboratories.
3. The Project Proponent shall install system carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within

and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; large plants: Continuous)

4. The Project Proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Regional Office of MoEF&CC / SEIAA, Zonal Office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
5. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
6. The Project Proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
7. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
8. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines Collected in the pollution control devices and vacuum cleaning devices in the process after briquetting / agglomeration.
9. The Project Proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
10. The Project Proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
11. The Project Proponent shall provide primary and secondary fume extraction system at all melting furnaces.
12. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.
13. Fixing water sprinklers in plant campus, and use water tanker for sprinkling water on approach road of the unit at least twice daily or as per requirement to minimize air pollution due to dust



14. Mist spraying system for dust suppression in the campus.

III. Water quality monitoring and preservation

1. The Project Proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
2. The Project Proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC / SEIAA, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
3. Adhere to 'Zero Liquid Discharge'.
4. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
5. The Project Proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R. 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.
6. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
7. The Project Proponent shall practice rainwater harvesting to maximum possible extent.
8. The Project Proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

1. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office of the Ministry as a part of six-monthly compliance report.

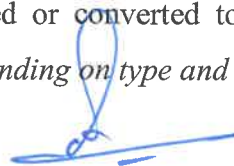
2. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB (A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

1. The Project Proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
2. Practice hot charging of slabs and billets/blooms as far as possible.
3. Ensure installation of regenerative type burners on all reheating furnaces.
4. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
5. Provide the Project Proponent for LED lights in their offices and residential areas.

VI. Waste management

1. Used refractories shall be recycled as far as possible.
2. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed dried, and briquetted and reused melting Furnaces.
3. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office and SEIAA, Bihar.
4. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016.
5. Kitchen waste shall be composted or converted to biogas for further use. *(to be decided on case to case basis depending on type and size of plant)*



VII. Green Belt

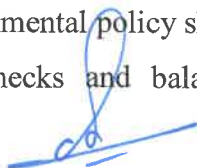
1. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The green belt shall inter alia cover the entire periphery of the plant.
2. The Project Proponent shall prepare GHG emissions inventory for the plant and shall submit the action plan for reduction of the same including carbon sequestration including plantation.

VIII. Public hearing and Human health issues

1. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2. The Project Proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
3. 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.
4. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

IX. Corporate Environment Responsibility

1. 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

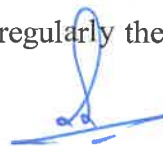


infringements / deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the SEIAA, Bihar as a part of six-monthly report.

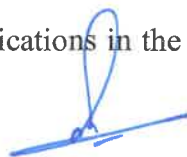
3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility 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, Bihar / Regional Office of MoEF&CC along with the Six Monthly Compliance Report.
5. Self-environmental audit shall be conducted annually. Every three years third par environmental audit shall be carried out.
6. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.

XI. Miscellaneous

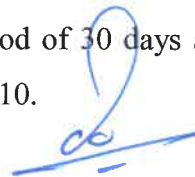
1. The Project Proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the Project Proponent's website permanently.
2. Entry inside the plant premises to all the workers/supervisor/Manager shall only be given after having all personal protective gears.
3. The Project Proponent shall maintain regularly the material balance and shall report and shown as and when asked for.



4. 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.
5. 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.
6. The Project Proponent shall monitor the criteria pollutants level namely; PM_{2.5}, PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
7. 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.
8. The Project Proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board/SEIAA as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
9. The Project Proponent shall inform the Regional Office as well as the SEIAA/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.
11. The Project authorities must strictly adhere to the stipulations made by the State Pollution control Board and the State Government.
12. The Project Proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during public Hearing and also that during their presentation to the State Expert Appraisal Committee.
13. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Bihar.



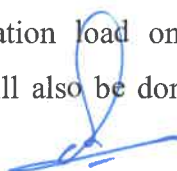
14. Concealing factual data or submission of false/fabricated data may result in revocation of this Environmental Clearance and attract action under the provisions of Environment (Protection) Act, 1986.
15. The SEIAA, Bihar may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
16. The SEIAA, Bihar reserves the right to stipulate additional conditions If found necessary. The Company in a time bound manner shall implement these conditions.
17. The Regional Office of this MoEF&CC/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.
18. 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 Trans boundary 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 Low relating to the subject matter.
19. The Environmental Clearance shall remain valid for ten years from the date of its issuance.
20. 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 – G (Lakhisarai Sand Ghat – EC)

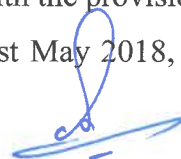
A. Specific Condition

1. The Project Proponent shall obtain all necessary clearance/ permission from all concerned departments before commencement of mining works.
2. The Environmental Clearance will be valid for mine lease period subject to a ceiling of 5 years.
3. The project proponent before starting any activity /preparation of ground, on the leased area shall demarcate his lease hold by RCC pillars erected at the cost of lease holder after certification of the mining officer. On each pillar Geo-Coordinate and fore bearing/ back bearing shall be written with permanent paint mark as described in the mining plan. All the pillars should remain intact at same geo-coordinate. Establishment/ labeling of Benchmark at each pillars or ground control points.
4. Extraction of sand beyond annual production capacity is not permitted.
5. Only manual method shall be used for the River Bed Mining.
6. Extraction will be carried out up to a maximum depth of 1 meter from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is earlier.
7. No mining shall be carried out in the areas prominently used by wild animals (birds and reptiles) for nesting. Restricted working hours-Sand mining operation has to be carried out between 6 am to 7 pm.
8. No mining shall be carried out in 3 meter wide strip from the river bank in a River flood plain and within flowing/live water channel.
9. To maintain the safety and stability of Riverbanks, 3 meter or 10% of the width of the River whichever is more will be left intact as "No Mining Zone".
10. No stream shall be diverted for the purpose of sand mining. No natural water course and / or water reservoirs shall be obstructed due to mining operations.
11. The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only



will be allowed to ply. The mineral transportation shall be carried out through covered vehicles / trucks only and the vehicle shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre.

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

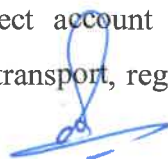


20. Project Proponent shall appoint a Monitoring committee to monitor the replenishment study, traffic management, levels of production, river Bank erosion and maintenance of Road etc.
21. Project Proponent shall submit the annual replenishment report certified by an authorized agency. In case the replenishment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

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

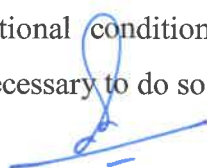
B. General condition

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

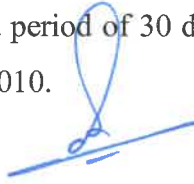


plan. This should be produced before officers of Central and State Government for inspection whenever asked for.

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

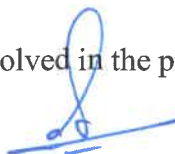


18. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

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Annexure – H (Industrial Area Projects - ToR)

1. Reasons for selecting the site with details of alternate sites examined / rejected / selected on merit with comparative statement and reason / basis for selection. The examination should justify site suitability in terms of environmental damage, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site.
2. Submit the details of the land use break-up for the proposed project. Details of 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.
3. Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities / villages and present status of such activities.
4. Examine the impact of proposed project on the nearest settlements.
5. Examine baseline environmental quality along with projected incremental load due to the project taking into account of the existing developments nearby.
6. Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.
7. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area, and any obstruction of the same by the project.
8. Details regarding project boundary passing through any eco- sensitive area and within 10 km from eco- sensitive area.
9. Green buffer in the form of green belt to a width of 15 meters should be provided all along the periphery of the industrial area. The individual units should keep 33% of the allotted area as a green area.
10. Submit the details of the trees to be felled for the project.
11. Submit the details of the infrastructure to be developed.
12. Submit the present land use and permission required for any conversion such as forest, agriculture etc.
13. Submit details regarding R & R involved in the project.



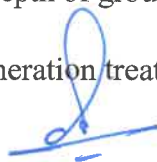
14. Zoning of the area in terms of 'type of industries' coming-up in the industrial area based on the resource requirement along with likely pollutants with quantity from the various industries.
15. The project boundary area and study area for which the base line data is generated should be indicated through a suitable map. Justification of the parameters, frequency and locations shall be discussed in the EIA.
16. Submit Legal frame work for the implementation of Environmental Clearance conditions to be clearly spelt out in the EIA report.
17. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
18. Site justification of the identified industry sectors from environmental angle and the details of the studies conducted if any.
19. Ground water classification as per the Central Ground Water Authority.
20. Submit the source of water, requirement vis-à-vis waste water to be generated along with treatment facilities, use of treated waste water along with water balance chart taking into account all forms of water use and management.
21. 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.
22. Examine soil characteristics and depth of ground water table for rainwater harvesting.
23. Examine details of solid waste generation treatment and its disposal.
24. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption.
25. In case 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.
26. 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 analyzed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
27. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.

28. Examine the details of transport of materials for construction which should include source and availability.
29. Examine the details of National Highways/State Highways/ expressways falling along the corridor and the impact of the development on them.
30. Examine noise levels - present and future with noise abatement measures.
31. Identify, predict and assess the environmental and sociological impacts on account of the project. A detailed description with costs estimates of CSR should be incorporated in the EIA / EMP report.
32. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
33. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
34. The Public hearing should be conducted for the project in accordance with provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the TOR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.
35. A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.
36. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
37. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
38. 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/Industrial Estate>".



Annexure – I [Township and Area Development – ToR]

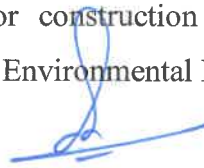
1. Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.
2. Submit details of environmentally sensitive places, land acquisition status, 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 one 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. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area.
6. Submit the details of the tree to be felled for the project.
7. Submit the present land use and permission required for any conversion such as forest, agriculture, etc.
8. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
9. Ground water classification as per the Central Ground Water Authority.
10. Examine the details of Source of water, water requirement, use of treated waste water and prep area water balance chart.
11. 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.
12. Examine soil characteristics and depth of ground water table for rainwater harvesting.
13. Examine details of solid waste generation treatment and its disposal.



14. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption.
15. 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.
16. 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.
17. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
18. Examine the details of transport of materials for construction which should include source and availability.
19. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
20. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
21. Prepare a plan for creation of designated greenbelt area (green island) work of demolition of old structures should start from the opposite end of the green island so that wild fauna sheltered therein may take refuge in the island.
22. Prepare a plan regarding Storm Water Management, Sewage Treatment Plant (STP), Effluent Treatment Plant (for the effluents generated from the laboratories) Groundwater recharge points, Rainwater Harvesting, Biomedical Waste Management Hazardous Waste Management, Biogas, Manure, Solar energy, etc.
23. Prepare a plan regarding existing flora and fauna in the campus for its conservation.

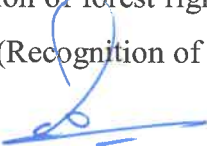


24. Submit a copy of the contour map with slopes, drainage pattern of the site, and the surrounding area together with obstruction of the same by project, if any.
25. Submit species wise details GBH (Girth at Breast Height), of the trees to be felled for the project.
26. No tree should be felled. Instead all the trees should be translocated at a suitable site within the Project Premises."Effort should be made to conserve the trees by modifying the layout/design, particularly the older trees which often are habitats of many activity nesting fauna. If inevitable, felling should be planned with permission and under the guidance of Forest Department."
27. Examine separately the details for construction and operation phase both for Environment Management Plan and Environmental Monitoring plan with cost.

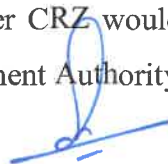


Annexure – J [Sand – ToR]

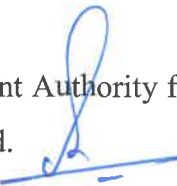
1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the areashould 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. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
 9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
 10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass pre-operational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
 11. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
 12. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
 13. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
 14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
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15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
17. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger / Elephant Reserves / (existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
18. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled – I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).



21. 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.
22. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23. 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. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
24. 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.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.



26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. 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.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
29. 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.
30. 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.
31. 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.
32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies

- such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
 34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
 35. 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.
 36. 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.
 37. 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.
 38. 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.
 39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
 40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
 41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
 42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
 43. 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.
 44. Besides the above, the below mentioned general points are also to be followed:-



- a) Executive Summary of the EIA/EMP Report.
- b) All documents to be properly referenced with index and continuous page numbering.
- c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
- d) 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.
- e) Where the documents provided are in a language other than English, an English translation should be provided.
- f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
- g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC 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.
- h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
- i) 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.
- j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

