

## STATE EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR

Ref. No- 40.

Patna- 23, Date- 01/02/2019.

To,

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

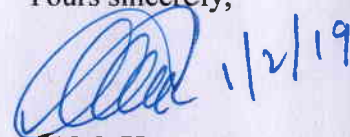
8. Dr. Dilip Kumar Paul,  
Associate Professor and Course Coordinator, M.Sc.  
Environment Science and Management, Post-Graduation Department of Zoology,  
Patna University, Patna, Bihar - 800 005

Sub :- Proceedings of meeting of State level Expert Appraisal Committee held on  
25.01.2019.

Sir,

Please find enclosed herewith proceedings of the State Expert Appraisal Committee  
(SEAC) meeting held on 25<sup>th</sup> January, 2019.

Yours sincerely,



**(Alok Kumar)**  
Member Secretary  
SEAC, Bihar

Proceedings of the State Expert Appraisal Committee (SEAC) meeting dated 25<sup>th</sup> January, 2019 -

A meeting of SEAC was held in the meeting hall of SEIAA, Bihar, Patna on - 25<sup>th</sup> January, 2019 presided over by the Chairman, SEAC. The following members of the Committee were present in the meeting:

1. Shri Vijay Kumar Sinha,
2. Dr. Samir Kumar Sinha
3. Dr. Amar Nath Verma,
4. Dr. Shardendu,
5. Dr. Birendra Prasad,
6. Dr. Rakesh Kumar Singh,
7. Dr. Dilip Kumar Paul,
8. Shri Alok Kumar, Member Secretary

The records of project proposals included in the agenda were put up before the Committee by supporting staff/officials for necessary appraisal. The Project Proponents / Consultants of the respective project proposals made presentation before the Committee.

The Committee discussed project proposals and made the following observations/recommendations for various projects and / or sought compliance on the points raised in relation thereto-

**A.1. "KUNDAGHAT RESERVOIR SCHEME", Village:-Sikandra, Block:-Sikandra, District:- Jamui, State:- Bihar, (Proposal No. - SIA/1(c)/428/17). Online Proposal No.:-SIA/BR/RIV/26099/2016).**

Proponent :-Water Resource Department, Government of Bihar.

Consultant :- Enviro Infra Solution Pvt. Ltd.

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 30.12.2016 for obtaining Terms of Reference (ToR). The proposal was considered by the SEAC in its meeting held on 28<sup>th</sup> and 29<sup>th</sup> January 2017 to determine the ToR for preparation of EIA / EMP Report. The

*A*



SEIAA issued ToR vide Ref. No. 534, dated 16.02.2017. Final EIA report was submitted on 24.05.2018.

Earlier, in the meeting dated 1<sup>st</sup> June 2018 the Committee had, on consideration of the proposal observed that the proposal is for construction of a dam and not an upgradation and modernization of existing structure as claimed by Project Proponent, therefore it is imperative that the process of public consultation as laid down by EIA Notification, 2006 must be completed before appraisal. Accordingly Project Proponent was directed to submit a revised EIA Report including public hearing proceeding. The Project Proponent has now submitted a revised EIA Report including public consultation held on 30.09.2018.

The Proponent and consultant presented details before the committee. The committee observed that the project proponent has already started construction work on site which is violation of EIA Notification, 2006 and required to be dealt with under the provision of Notification S.O. 1030 (E) dated- 08.03.2018. The Committee took exception to this violation and directed the Project Proponent to submit a revised proposal containing details of construction etc, along with explanation for violation (for issue of specific revised ToR with reference to violation). All construction activities must, forthwith, be stopped in the meanwhile.

**B.2. PROPOSED RESIDENTIAL APARTMENT "SAI ENCLAVE" Developer: M/s Sri Anuanand Construction Pvt. Ltd., Village:-Mustafapur, Tehsil:- Danapur, District:- Patna, State:- Bihar, Total Plot Area:- 24,633.43 m<sup>2</sup> Total Built-up Area:- 72,661.74 m<sup>2</sup>. (Proposal No. - SIA/8(a)/602/18) Online Proposal No.:- SIA/BR/MIS/83570/2018).**

Proponent :-Shri Bimal Kumar (M/s Anu Anand Construction Private Limited).

Consultant :-Mantras Green Resources Ltd. Nasik.

An application along with filled up 'Form - I', Form-IA and Conceptual Plan in the prescribed format was submitted to SEIAA, Bihar on 17<sup>th</sup> December, 2018 for obtaining Environmental Clearance (EC).



The Proponent and consultant presented their proposal before the Committee. The Committee was informed that project proponent has already started construction work without obtaining Environmental Clearance. Presently 4 blocks have been fully constructed, 8 blocks are in different stages of construction and 2 more blocks are proposed. This is a violation of EIA Notification, 2006 and required to be dealt with under the provision of Notification S.O. 1030(E) dated-08.03.2018.

Earlier, in the meeting dated 28<sup>th</sup> December 2018 the Committee had decided to undertake a site visit of the area. A SEAC team visited the area on 29<sup>th</sup> December 2018 and submitted its report which was discussed. It is decided to grant ToR as Annexure-I.

**C.3 Gere Block No.- 04 stone mining project, Village - Gere, Tehsil - Manpur, District - Gaya (Proponent:- M/s Katyayni Contractors Pvt. Ltd.). (Online Proposal No.- SIA/BR/MIN/17387/2015).**

Proponent :-M/s Katyayni Contractors Private Limited.

Consultant :- Ascenso Enviro Pvt. Ltd.

The proposal was appraised in the light of existing physical condition and situation of the relevant area as also public consultation details and report of the District Magistrate Gaya (Letter No. 3230, dated 14.12.2018). The public consultation was held jointly for Gere Block No.- 04, and Mirzapur Block No.- 01 about which there was widespread opposition on its being adjacent to a regular habitation / village. It is observed that the instant Gere Block No.- 04 is away from any regular habitation area and there is no specific opposition in respect of the relevant Gere Block No.- 04 under consideration.

Visual representation of the proposed mining area reveals that it is an old mined out area auctioned by Deptt. of Mines and Geology, Govt. of Bihar. The three said houses / building / huts near the proposed site are reported illegal (Letter No. 3230, dated 14.12.2018) and as claimed by the Project Proponent they are only occasionally used by the concerned people. The Committee decided that mandatory additional condition to meet out the grievances of local population during public consultation along with an oathed declaration regarding amicable relocation of the three above mentioned





houses / building / huts shall be submitted before commissioning mining activity on the proposed site.

The proposal as such is recommended for grant of Environmental Clearance as Annexure - II.

**Agenda item No. C.4 to C.7**

- C.4 Nalanda Sand Blocks (Block II of Stretch I) Mining Project, Village- Patoriya, Tehsil- Biharsharif, District- Nalanda, Area- 25.08 ha, Proposal No. - SIA/1(a)/344/16). Online Proposal No.:-SIA/BR/MIN/25920/2017).**

Proponent :-Mahadev Enclave Pvt. Ltd.

Consultant :-Cognizance Research India Private Limited.

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 24.10.2016 for obtaining approved Term of Reference (ToR). The SEIAA issued ToR Vide Ref. No. 55/SEIAA/17 dated 02.06.2017 and public hearing for the proposed expansion project was conducted on 10.03.2018. Final EIA report submitted by Project Proponent dated -22.06.2018.

- C.5. Nalanda Sand Blocks (Block I of Stretch I) Mining Project, Village- Katona, Tehsil- Rajgir, District- Nalanda, Area- 26.99 ha, Proposal No. - SIA/1(a)/345/16). Online Proposal No.:-SIA/BR/MIN/17393/2016).**

Proponent :-Mahadev Enclave Pvt. Ltd.

Consultant :-Cognizance Research India Private Limited.

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA" Bihar on 24.10.2016 for obtaining approval Terms of Reference (ToR). The SEIAA issued ToR vide Ref. No. 461 dated 23.12.2016 and public hearing for the proposed expansion project was conducted on 10.03.2018. Final EIA report submitted by project proponent dated- 22.06.2018.



**C.6. Banka Sand Blocks ( Block 16 and 17 of Stretch-I) Mining Project, Village- Kunani, Jogipahadi Tehsil- Banka, District- Banka, Area- 32.6 ha, Proposal No. - SIA/1(a)/347/16). Online Proposal No.:-SIA/BR/MIN/17507/2016).**

Proponent :-Mahadev Enclave Pvt. Ltd.

Consultant :-Cognizance Research India Private Limited.

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 24.10.2016 for obtaining approved Terms of Reference (ToR).The SEIAA issued ToR vide Ref. No. 462 dated 23.12.2016 and public hearing for the proposed expansion project was conducted on 03.09.2017. Final EIA report submitted by project proponent dated- 22.06.2018.

**C.7. Banka Sand Blocks ( Block 5 of Stretch-I) Mining Project, Village- Kanka, Tehsil- Banka, District- Banka, Area- 29.00 ha, Proposal No. - SIA/1(a)/348/16).Online Proposal No.:-SIA/BR/MIN/17509/2016).**

Proponent :-Mahadev Enclave Pvt. Ltd.

Consultant :-Cognizance Research India Private Limited.

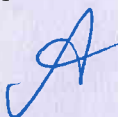
An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 24.10.2016 for obtaining approved Terms of Reference (ToR). The SEIAA issued ToR vide Ref. No. 463 dated 23.12.2016 and public hearing for the proposed expansion project was conducted on 03.09.2017. Final EIA report submitted by project proponent dated 22.06.2018.

The above said proposals (C.4. to C.7.) being qualitatively similar were appraised together.

Earlier, in the meeting dated 7/8 December 2018, the Committee had directed the project proponent to submit revised reports and documents as mentioned in the proceeding of that meeting.

The EIA Report has addressed all the points mentioned in the ToR except point No. 18 regarding existence of critical breeding ground in the proposed areas. It required a certificate to this effect issued from the local Divisional Forest Officer.

During the SEAC meeting dated 08.12.2018 the Project Proponent informed that the concerned D.F.Os despite repeated request have not issued the above mentioned



certificate regarding existence of such breeding ground in the proposed mined area . However the D.F.O., Banka vide letter No. 11921, dated 27.11.2018 expressed inability to give such a certificate. The Project Proponent has also approached the Zoological survey of India regional office Patna for such a certificate (repeatedly dated 22.12.2018, 18.01.2019, 22.01.2019) but in vain. Thereafter the Project Proponent got the matter surveyed / studied by Deptt. of Zoology Soghra College, Bihar sarif, Nalanda and has submitted a report issued by Head of Deptt. of Zoology in the matter. Accordingly the mining blocks being situated on the dry bed of seasonal river don't have any such breeding ground as mentioned in the ToR point 18.

The SEAC decided to accept the above mentioned report regarding ToR point No. 18 and to recommend the above mentioned sand mining proposals for Environmental Clearance as Annexure - III.

**D.8. Proposed Expansion of Induction Furnace& Rolling Unit (from 1,09,100 TPA to 1,66,320 TPA) Located at Sabalpur, Deedarganj, Patna , Bihar by M/s Neelkamal Steels Pvt. Ltd., (NSPL), (Proposal No. - SIA/3(a)/603/19). Online Proposal No.:- SIA/BR/IND/30735/2018).**

Proponent :-M/s Neelkammal Steels Private Limited.

Consultant :- Mantras Green Resources Limited.

An application along with filled up 'Form - I', Pre-feasibility report and Environment Management Plan in the prescribed format was submitted to MoEF&CC on 16<sup>th</sup> January, 2018 for obtaining approved Term of Reference (ToR). The MoEF&CC issued ToR Vide F. No. J-11011/30/2018-IA-II(I), dated 27.02.2018 and public hearing for the proposed project was conducted by Bihar State Pollution Control Board on 24.11.2018. Final EIA report submitted by Project Proponent in the prescribed format to SEIAA, Bihar on 16.01.2019 for obtaining Environmental Clearance (EC).

The Proponent and Consultant presented the proposal before the Committee, which after discussion and due consideration directed the project proponent to submit a revised report including the following:-

- I. Copy of Form-1, PFR, submitted to MoEF&CC grant of ToR;





- II. Audit Report submitted by Chartered Accountant regarding production details, (since the year 2005 to 2018);
- III. Submit latest copy of inspection report(s) with regard to inspections conducted earlier by Regional office, Ranchi of MoEF&CC;
- IV. Copy of inspection report / NOC from Industry department / Factory Inspector regarding safety norms;
- V. Submit the site specific Rain Water Harvesting plan along with detail calculations.
- VI. Submit the Risk assessment plan and Fire / Safety / Emergency scheme or plan.
- VII. Submit copies of compliance of CTE and CTO (since the year 2005 to 2018).

**E.9 SAI City and Assorita Commercial Complex at Musatafapur, Phulwari, Patna (Bihar) by M/s Annuanand Constrution Pvt. Ltd., at Musatafapur, Phulwari, Patna (Bihar), Total Plot Area:-35,468m<sup>2</sup> Total Built-up Area:- 1,75,420.772m<sup>2</sup>. (Proposal No. - SIA/8(b)/604/19) Online Proposal No.:-SIA/BR/NCP/30736/2017).**  
 (Proponent:- Bimal Kumar) M/s AnuAnand Construction Private Limited.  
 Consultant :- Mantras Green Resources Limited.

An application along with filled up 'Form - I', Form-IA and Conceptual Plan in the prescribed format was submitted to MoEF&CC on 13<sup>th</sup> December, 2017 for obtaining approved Term of Reference (ToR). The MoEF&CC issued ToR Vide F. No. 21-1/2018-IA-III, dated 27.02.2018. Final EIA report submitted by Project Proponent in the prescribed format to SEIAA, Bihar dated – 16.01.2019 for obtaining approved Environmental Clearance (EC).

The Proponent and Consultant presented the proposal before the Committee, which after discussion and due consideration directed the project proponent to submit a revised report including the following:-

- (i) Copy of Form-1, Form-1A, Conceptual plan submitted to MoEF&CC for grant of ToR.
- (ii) Project Proponent should submit clear and revised site plan i.e in colour plan map along with "Birds eye view" Maps / Drawing(s).



- (iii) Disclose the nearest Fire Station from the proposed project site.
- (iv) Submit all desired documents, studies and NOC mentioned in ToR by MoEF&CC.
- (v) Submit the Landscape plan with details, Fire / Emergency scheme or plan, Solid waste management plan and STP design.
- (VI) Justification regarding commercial area is more than residential are under one lic. or layout and submit any govt's. Documents in this regards
- (VI) Submit the site specific Rain Water Harvesting plan along with detail calculations.
- (v) Width of the road as per approved Master Plan, Patna.
- (vi) Width of approach road to proposed residential and commercial parts of the Project separately.
- (vii) Certificate from approved structural engineer / designer.

**E.10 INDIRA PAPER MILL PVT. LTD., Village - Dhawalpura, Tehsil- Patna Rural, District - Patna, State - Bihar, Total Capacity Writing Paper:- 50 Ton/day. (Proposal No. - SIA/5(i)/605/19) Online Proposal No.:-SIA/BR/IND/29688/2017).**

Proponent :-Shri Abhinandan Kumar.

An application along with filled up 'Form - I', and Pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 16<sup>th</sup> January, 2019 for obtaining approved Term of Reference (ToR).

The project Proponent has submitted the application for revision in the ToR issued by the MoEF&CC vide F. No. J-11011/381/2017-IA-II (I) dated 17.08.2017 for 25 TPD recycled paper. The instant application is for revised ToR seeking 50 TPD as production including change in production process. The Committee observed that there is substantial increase in quantity of production as well as change in process. The Project Proponent therefore is directed to submit a revised proposal. It is decided that a site inspection shall be conducted by a SEAC team before issuing the revised ToR. The inspection report so submitted shall be discussed in the next SEAC meeting. The Project Proponent is also directed to submit details of land / documents used by the unit.



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

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


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


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

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

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

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

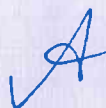
 1/2/19  
(Alok Kumar)  
Member Secretary, SEAC

 01/02/2019  
(Murarijee Mishra)  
Chairman, SEAC



## ANNEXURE - I

1. Project description, its importance and benefits.
2. Project site details (location, toposheet of the study area of 10 km, coordinates, Google map, layout map, land use, geological features and geo-hydrological status of the study area, drainage).
3. Land use as per the approved Master Plan of the area, Permission/approvals required from the land-owning agencies, Development Authorities, Local Body, Water Supply & Sewerage Board, etc.
4. Land acquisition status, R&R details.
5. Forest and Wildlife and eco-sensitive zones, if any in the study area of 10 km – Clearances required under the Forest (Conservation) Act, 1980, the Wildlife (Protection) Act, 1972 and/or the Environment (Protection) Act, 1986.
6. Baseline environmental study for ambient air (PM10, PM 2.5, SO<sub>x</sub>, NO<sub>x</sub> & CO), water (both surface and ground), noise and soil for one month (except monsoon period) as per MoEF&CC / CPCB guidelines at minimum 5 locations in the study area of 10 km.
7. Details on flora and fauna and socio-economic aspects in the study area.
8. Likely impact of the project on the environmental parameters (ambient air, surface and groundwater, land, flora and fauna and socio-economic, etc).
9. Source of water for different identified purposes with the permissions required from the concerned authorities, both for surface water and the groundwater (by CGWA / SGWC) as the case may be, Rainwater harvesting, etc.
10. Wastewater management (treatment, reuse and disposal) for the project and also the study area.
11. Management of solid waste and the construction & demolition waste for the project vis-a-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
12. Energy efficient measures (LED lights, solar power, etc) during construction as well as during the operational phase of the project.
13. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental



laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.

14. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to the violation.
15. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
  - i. The EIA would study the impact of dewatering and draw up an action plan for disposal of the excess water.
  - ii. The EIA would study the impact of Demolition and conformance to the Construction and Demolition Rules under the E(P) Act, 1986.
  - iii. If applicable, then submit Certified Compliance Report issued by the MoEF&CC, Regional Office or concerned Regional Office of Central Pollution Control Board or the Member Secretary of the respective State Pollution Control Board for the conditions stipulated in the earlier environmental clearance issued for the project along with an action taken report on issues which have been stated to be partially complied or not / not compiled.
  - iv. The Air Quality Index shall be calculated for base level air quality.
  - v. A detailed report on compliance with ECBC-2017 norms.
  - vi. A certificate from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for groundwater and surface water sources, ensuring that there is no impact on other users.
  - vii. An assessment of the cumulative impact of all development and increased inhabitation being carried out or proposed to be carried out by the project or other agencies in the core area shall be made for traffic densities and parking capabilities in a 2 km radius from the site. Detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA and the plan to



be implemented to the satisfaction of all the concerned state departments and implementing agencies.

- viii. The permission of the CGWA for abstraction of groundwater if any and for basement / excavation dewatering if applicable.
- ix. A certificate of the adequacy of available power from the agency supplying power to the project along with the load allowed for the project.
- x. A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal / drainage systems along with the final disposal point.
- xi. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from the project.
- xii. The Air Quality Index shall be calculated for base level air quality.

A



## ANNEXURE - II

### 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 or 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 are 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. Rehabilitation if any within the zone of influence of the project site shall have to be rehabilitated.
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 at night (noise levels are be within prescribed limits of MoEF&CC).
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 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 by pass road at the expense of



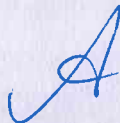
the proponent. Proponent shall bear the cost towards widening and strengthening the existing public road network in case the same is used for the project.

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, 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 forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in MoEF&CC 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 found they should be given protection, collected alive with the help of the expert and transferred them or handling 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 Patna/ BSPCB, Patna its nearest Regional Office 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 OB benches within the mine to check run-off and siltation shall be based on the rain fall data.





19. Greenbelt shall be developed all along the mine lease area. The Project proponent shall do tree plantation area equivalent to 33 % of the leased area preferably along the periphery and in vacant space within or including the lease area. Fast growing and local species will be planted. Plantation should be completed within 3 Years.
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 Ground Water Directorate, 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 ore 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. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
25. Real time ambient air monitoring equipment to measure Ambient Air Quality shall be installed and the data shall be displayed in public domain as per National Ambient Air Quality parameters
26. Drills shall either be operated with the dust extractors or equipped with water injection system.
27. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that concentration of PM<sub>10</sub> and PM<sub>2.5</sub> levels are within the national Ambient Air Quality Standards.





28. 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.
29. 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, 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.
30. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
31. The progressive mine reclamation shall be implemented.
32. The project proponent shall obtain NOC and Consent to establish/Consent to Operate from the Bihar State Pollution Control Board, Patna and effectively implement all the conditions stipulated therein.
33. All along the boundary of mine lease 7.5 meter width shall be maintained as safety zone and developed as a green belt area.
34. Groundwater shall not be abstracted without prior permission of competent authority i.e., CGWC/SGWC if applicable.
35. The proponent in consultation with CGWC/SGWC will install Piezometer to monitor the fluctuation in ground water level due to mining and data shall be submitted CGWC/SGWC, SPCB, SEIAA and MoEF&CC.
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



## **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 Board.
4. The Project proponent shall not cut trees / 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 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 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.
- 11 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.



- 12 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.
- 13 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.
- 14 Environmental clearance be valid for a maximum period of 5 years or till expiry of lease period whichever is earlier.
- 15 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.
- 16 All statutory clearances shall be obtained before start of mining operations.

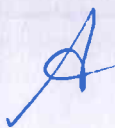
**C. Other points**

1. The responsibility for implementation of environmental safeguards rest fully with the project proponent.
2. 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. EC 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 EC is issued without affecting any court order / statutory other institutions 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 reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority if that be so, legal action as per the provision of Environment (protection) Act, 1986.






7. The PP 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 conditions 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 of Bihar 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 - III

#### A. Specific Condition

1. Environmental clearance be valid for a maximum period of 5 years or till expiry of lease period whichever is earlier.
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. Sand mining in river bed shall be done semi-mechanized and preferably manual.
4. Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier.
5. No mining shall be carried out in the areas prominently used by wild animals (birds and reptiles) for nesting.
6. 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.
7. 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.
8. 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.
9. Restricted working hours. Sand mining operation shall be carried out in day hours only.
10. For dust suppression sprinkling shall be done minimum 4 times daily.
11. The stacking area of mined-out sand which shall be situated near the mining site within a area fenced from all sides to avoid being spread in the nearby areas by high winds and the height 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 any.
12. Rubbish burial shall not be done in the Rivers.
13. Adequate steps shall be taken to check soil erosion and control debris flow etc. by constructing engineering structures.



14. Mining shall not be undertaken in a mining lease located in 200 - 500 meter of bridge, 200 meter upstream and downstream of water supply / irrigation scheme, 100 meters from the edge of National Highway and railway line, 50 meters from a reservoir, channel or building, 25 meter from the edge of State Highway and 10 meters from the edge of others roads.
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. Junction at take-off point of approach road with main road 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 nallhas flowing in and around the mine lease shall be carried out and records maintained. Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the SEIAA, Bihar, Regional office, Ranchi, Central Ground water Authority, Regional Director, Central Ground water Board, State Pollution Control Board and Central Pollution Control Board.
23. Project proponent shall erect a signboard on his project site and display information regarding name of the project, No. date and validity period of EC, annual production capacity of the mineral and other relevant information for the general public.
24. EC conditions must be displayed at prominent place which can be easily visible to public.
25. Apart from above the project proponent shall abide by the Sustainable Sand Mining Management Guidelines 2016 as issued MoEF&CC.
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.

#### **B. General condition**

1. 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 the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre.
2. No stacking of sand is allowed on road side along national highways/ State highways.
3. No labour camp be allowed in riverbed.
4. Provision shall be made for housing 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.

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5. Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
6. The Project Proponent shall make arrangements for safe drinking water, first aid facility (along with specific anti-venom) in case of emergency for the workers.
7. Personal 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.
8. The project proponent shall maintain register for production and dispatch and submit periodic return to the SEIAA, Bihar.
9. The EC holder shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle and mine plan. This should be produced before officers of Central Government and State for inspection whenever asked for.
10. Regular monitoring of ground water table shall be carried out at the upstream and depth of water available in the dug well shall be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers.
11. Monitoring of Ambient Air Quality, Water Quality & Noise Quality to be carried out based on the Notification, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places of loading and unloading points & transfer points to reduce fugitive emissions.
12. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the SEIAA, Bihar.
13. The Project proponent shall provide all necessary logistic support to the authorised officer of this authority as when required. They will facilitate and assist the authority in site inspection and monitoring.
14. Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India vide order dated 27.02.2012 in Deepak Kumar case [SLAP(C) Nos. 19628-19629 of 2009] and order dated 05.08.2013 of the Hon'ble National Green Tribunal in application No. 171/2013 shall be strictly followed.



15. All the provisions made and restrictions imposed as envisaged in the Bihar Minor Mineral Rule, shall be complied with; particularly regarding Environment Management and payment of compensation to the land owners.
16. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Bihar.
17. The ministry or any other competent authority may alter / modify the above conditions or stipulate any further condition in the interest of environment protection.
18. Concealing factual data or submission of false / fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal/suspension of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
19. The instruction contained here in above regarding air and noise pollution and details of mining proposals shall be display on Signboard in local vernacular for public information.
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.

