

**STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC)**

Ref. No- **563.**

Patna- 23, Date- **02/03/2017.**

To,

1. **Dr. Ashok Kumar Ghosh,**  
Professor and HoD, Research Centre  
Mahavir Cancer Research Institute and Research Centre, Patna.
2. **Dr. Nupur Bose,**  
Associate Professor, Department of Geography,  
A.N. College, Patna Boring Road, Patna-800013.
3. **Shri Vijay Kumar Sinha,**  
"Prasad Bhawan", R.K. Path, Pirmohani,  
Kadamkuan, Patna-800003.
4. **Dr. Kamesh Kumar,**  
Professor of Economics and Professor-in-Charge of MBA,  
A.N. College, Patna Boring Road, Patna-800013.
5. **Dr. Jitendra Singh,**  
Retired Vice-Chancellor, 'BRAJ', Behind Post Office,  
L.B. Shastri Nagar, Patna-800023.
6. **Shri Shatrunjay Kumar Singh,**  
Professor of Botany, Department of Environment and Water Management,  
A.N. College, Patna Boring Road, Patna-800013.
7. **Dr. Nityanand Singh Maurya,**  
Department of Civil Engineering,  
National Institute of Technology, Patna-800005.
8. **Prof. Chandan Bhar,**  
Department of Management Studies, Indian School of Mines,  
Dhanbad-826004.
9. **Dr. Ram Madhab Bhattacharjee,**  
Associate Professor, Department of Mining Engineering,  
Indian School of Mines, Dhanbad-826004, Jharkhand.

**Sub :-** Proceedings of State Level Expert Appraisal Committee which was held on 18.02.2017 & 19.02.2017 in Meeting Hall of State Environment Impact Assessment Authority, 2<sup>nd</sup> Floor, Beltron Bhawan, Shastri Nagar, Patna - 23.

Sir,

Please find enclosed Proceedings of State Expert Appraisal Committee which was held on 18<sup>th</sup> & 19<sup>th</sup> February, 2017 for your perusal.

Sincerely Yours

**(Shri S. Chandrasekar)**  
Secretary, SEAC

**02/3/17**

**Proceedings of the State Level Expert Appraisal Committee (SEAC) dated 18<sup>th</sup> & 19<sup>th</sup> February, 2017**

A meeting of State level Expert Appraisal Committee (SEAC) was held in the Meeting Hall of State Environment Impact Assessment Authority, 2<sup>nd</sup> Floor, Beltron Bhawan, Shastri Nagar, Patna- 23 on 18<sup>th</sup> & 19<sup>th</sup> February, 2017.

The Chairman and the following members of the committee were present in the meeting:

1. Dr. Ashok Kumar Ghosh, Chairman, SEAC
2. Shri S. Chandrasekar, Secretary, SEAC
3. Dr. Nityanand Singh, Maurya, Member, SEAC
4. Shri Vijay Kumar Sinha, Member, SEAC
5. Shri Shatrunjay Kumar Singh, Member, SEAC
6. Dr. Nupur Bose, Member, SEAC
7. Dr. Kamesh Kumar, Member, SEAC

The proceeding of the last meeting of SEAC dated 28-01-2017 & 29-01-2017 was confirmed by the committee.

The Various projects records were put up before the committee by the supporting staffs/officers working with SEIAA as per the agenda which is prepared on the basis of scrutiny fee received by SEIAA, Member-Secretary and after discussion in the committee meeting the records were sent back and kept by SEIAA.

The committee discussed the proposal on the agenda and made following recommendations for various projects and sought compliance of the points raised against some of the projects as given below:

**1. Existing and Proposed expansion of Darbhanga Medical College and Hospital, District:- Darbhanga, State:- Bihar (Proposal No.:- SIA/8(b)/433/17) Online Proposal No.:- SIA/BR/NCP/17927/2016.**

Bihar Medical Services & Infrastructure Corporation (BMSICL) has proposed expansion of the Darbhanga Medical College and Hospital (DMCH) in terms of construction of Academic Block, Hospital Block, Class IV Accommodation, Surgical Block and Students Hostel.

The project is being developed on the total plot area of 8,18,070.73 M<sup>2</sup> and total buildup area of 3,41,655.52 M<sup>2</sup>. The exiting hospital complex consists buildings which having total built-up area of 2,18,429.51 M<sup>2</sup> at present.

The Project proponent presented the proposal before the committee. After due consideration and discussion, the committee recommended to issue the ToR. (As Annexure- I).



2. **Proposed Capacity Expansion at BPCL POL Depot, Muzaffarpur., Village:- Sherpur, Near Annat Railway Station, NH - 28, P.O.- MIC Bela, District- Muzaffarpur, State- Bihar, Pin- 842 005. (Proposal No.:- SIA/6(b)/434/17) Online Proposal No.:- SIA/BR/IND2/16935/2016.**

The proposed project is an expansion project for increasing storage capacity of the existing Depot by 600 KL. After implementation of the project, capacity of the Depot at Muzaffarpur will increase to 29805 KL from the present capacity of 19505 KL.

The proponent & Consultant presented the proposal before the committee. During Presentation proponent requested to the committee for exemption of Public Hearing because in the same premises last Public Hearing was conducted recently on 29<sup>th</sup> July, 2016. The committee accepted his request and decided to forward as the same to SEIAA for kind consideration. After due consideration and discussion, the committee recommended to issue the ToR. (As Annexure - II).

3. **Additional of Ethanol/Biodiesal tankage at POL Depot of BPCL, Barauni, Village:-Panapur (Barauni), Zero Mile, Behind HPCL Depot, Panapur, Begusarai District- Begusarai, State- Bihar, Pin- 851 210 (Proposal No. - SIA/6(b)/435/17) Online Proposal No.:-SIA/BR/IND2/17186/2016.**

The proposed project is an expansion project for increasing storage capacity from the existing 26609 KL by addition of 3 tanks and converting 1 underground tank presently used for storage of Diesel to store Ethanol. After implementation, the storage capacity will increase to 27967 KL.

The proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee recommended to issue the ToR. (As Annexure - II).

4. **Rock Hill Hi-Tech Cement Pvt. Ltd., Vilage:- Fatuha Industrial Area, Tehsil:- Fatuha, District:- Patna, State:- Bihar. (Proposal No. - SIA/3(b)/437/17) Online Proposal No.:-SIA/BR/IND/18498/2017.**

M/s Rock Hill Hi-tech Cement Pvt. Ltd. (RHHCL) has proposed to establish a cement grinding unit at Plot No. A-8 & A-9, and total area 0.91 Acres Phase -I, Fatuha Industrial Area, Dist. Patna, Bihar. Geo Co-ordinates of Project Site are Latitude 25° 30' 21.06" N & Longitude 85° 18' 44.82" E. Establishing a Cement Grinding Unit of 0.09 Million Ton/Annum (MTPA) capacity to produce Portland Pozzolona Cement (PPC). In the production process of PPC production Clinker, Flyash, Slag & Gypsum will be used as raw materials.

The Proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee recommended to issue the ToR. (As Annexure - III).

*[Handwritten signatures and initials in blue ink, including "U.B.", "as", "sd", "H", and "us"]*

5. **JMD Alloys Ltd., (Expansion Project) Expansion of Re-rolling Mill by Installation of New 30 Ton Rolling Mill Furnance, Village:- Deokuli, Tehsil:- Bihta, District:- Patna, State:- Bihar. (Proposal No. - SIA/3(a)/438/17) Online Proposal No.:-SIA/BR/IND/18510/2017.**

JMD Alloys Ltd. (JMDAL), is situated near Village- Deokuli, Bihta, District Patna, Bihar having Latitude 25°36' 7.58" N & Longitude 84° 51' 56.82" E. Proposed expansion of its Re-rolling Mill project by installation of New 30 Ton Rolling Mill Furnace for additional production of 167500 TPA TMT Rod/Bar. In the proposed expansion of re-rolling mill project producer gas, will be utilized for fulfilling the heating requirement of rolling mill furnace, generated through coal gasifier based system.

The Proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee recommended to issue the ToR. (As Annexure – IV).

6. **"LOTUS ADOBE" Residential Building Project by "NUTAN CONSTRUCTION", Village- Danapur Shahzadpur, Tehsil- Danapur-cum-Khagual, District- Patna, State- Bihar. (Proposal No.:- SIA/8(a)/408/16) Online Proposal No.:- SIA/BR/MIS/60656/2016.**

Project Site is located at Mauza Danapur Shahzadpur, Thana No. 21, Tauzi No. 5399, Khata No.- 171, 213. Survey Plot No. 1407 & 1410. The Project is under consideration for the construction of 2 Nos. of Residential Building (B+G+ 12). Total nos. of residential flats will be 202 Nos. in 2 nos. of Blocks, Total Plot area – 9135.00 M<sup>2</sup>. and Total Built up area:- 22794.26 M<sup>2</sup>. The proposal was put up in the SEAC meeting dated 28<sup>th</sup> & 29<sup>th</sup> January, 2017. The SEAC decided to make a site visit of the area. The SEAC decided to make a site visit of the area. The Chairman SEAC visited the area (site) on 05<sup>th</sup> February, 2017 and submitted a report before SEAC.

After due consideration and discussion, the committee recommended to issue the Environmental Clearance to this project as (Annexure – V).

7. **"CONCICON'S TRANQUIL Residential Building Project" Developer:- M/s CONCICON CONSTRUCTION PVT. LTD., Village- Dhanaut, Tehsil- Patna Sadar, District- Patna, State- Bihar (Proposal No.:- SIA/8(a)/355/16) Online Proposal No.:- SIA/BR/MIS/58608/2016).**

Residential Building Project "CONCICON TRANQUIL" is coming up at Mauza Dhanaut, Near Lohiya Patha, Nitibag, Rukanpura, Bailey Road. Residential Building of five Nos. of blocks A (B+G+5), B (B+G+5), C (B+G+5), D (G+5) & E (G+5), Total 227 Nos. Flats), Total Plot area – 9445.74 M<sup>2</sup>. and Total Built up area:- 23482.01 M<sup>2</sup>. The proposal was put up in the SEAC meeting dated 28<sup>th</sup> & 29<sup>th</sup> January, 2017. The SEAC decided to make a site visit of the area. The SEAC decided to make a site visit of the area. The Chairman SEAC visited the area (site) on 05<sup>th</sup> February, 2017 and submitted a report before SEAC.

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After due consideration and discussion, the committee recommended to issue the Environmental Clearance to this project as (Annexure – V).

**8. Proposed Residential Building "Winsome Empire" at Plot No.- 531 & 613 and 614, Mauza- Sikandarpur, Thana - Danapur, District - Patna, State – Bihar (Proposal No.:- SIA/8(a)/421/17) Online Proposal No.:- SIA/BR/NCP/61804/2017.**

Winsome Infrastructure is going to develop a Residential Building “Winsome Empire” at Plot No.- 531, 613 and 614, Mauza- Sikandarpur, Thana- Danapur, District:- Patna, Bihar. Total Land area measuring 7516.32 M<sup>2</sup> and Total Built up area is 24,121.00 M<sup>2</sup>.

The Proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee decided to make site visit of the project area before taking any decision.

**9. Proposed Madhubani Medical College at Village:- Madhubani, Tehsil:- Rahika (Block), District:- Madhubani, State:- Bihar (Proposal No.:- SIA/8(a)/417/16) Online Proposal No.:- SIA/BR/MIS/61227/2016.**

Milli Trust is going to develop a Medical College on the total land area measuring 1,00,229 M<sup>2</sup> and Built up area is 75,541.88 M<sup>2</sup>. Earlier the Dr. Fayaz Ahmad, President, Milli Trust, Madhubani had planning to develop a school named “Proposed Indian Public School, Madhubani” on the same plot measuring land area 1, 00,229 M<sup>2</sup>. and built up area 16,903 M<sup>2</sup>. As per EIA Notification 2006, if project having built up area less than 20,000 M<sup>2</sup>, it's not come under the applicability of Environmental Clearance. In impression of above proponent had started to construction at site. But due to change in internal planning from development of school to hospital and modification in the design of building as per the management decision the built-up area has been changed to 75,541.88 M<sup>2</sup>. The committee directed the project proponent to submit a report on the green cover of the Project and suggested to maintain 33% green cover including the existing tree cover inside the campus in last meeting dated 28<sup>th</sup> & 29<sup>th</sup> January, 2017.

The Proponent & Consultant presented & submit a report on the green cover of the Project area and assured to maintain 33% green cover including the existing tree cover inside the campus. After due discussion and consideration, the committee recommended to issue the Environmental Clearance. (As Annexure- V).

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**10. "SS METRO MALL CUM MULTIPLEX & RESIDENTIAL COMPLEX"**

**Developer:- M/s S. D - S. D & P. Pvt. Ltd. (J.V.) Village:- Danapur Sahjadpur, Tehsil:- Danapur-Cum Khagaul, District:- Patna, State:- Bihar (Proposal No.:- SIA/8(a)/445/17) Online Proposal No.:- SIA/BR/NCP/62326/2017.**

S. D. – S. D. & P. Pvt. Ltd. (JV) is going to develop a Residential-cum-Commercial Building complex "SS METRO MALL CUM RESIDENTIAL BUILDING" at Thana No.- 21, Khata No.:- 165, 171, 208, Plot No.- 1409, 1410 (P), 1411, Village- Danapur Sahjadpur, Teshil:- Danapur-cum-Khagaul, District:- Patna, Bihar. Total Plot area measuring 11,177.50 M<sup>2</sup> and Total Built up area is 27,802.55 M<sup>2</sup>. New Residential-cum-Commercial Building Complex having two residential blocks A & B (B+G+10) and a Commercial building (B+B+G+5). Total 160 Nos. of residential flats.

The proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee recommended to Environmental Clearance as (Annexure – V).

**11. Stone Mining Project (For Final EIA).**

- a) **Mirzapur Stone Mining Project, Block No- 01, Gaya, Village - Mirzapur, Anchal- Manpur, District:- Gaya, Area:- 5.06 Ha, (Online Proposal No.:- SIA/BR/MIN/17375/2015).**

The committee directed the project Proponent to submit a report from the Circle Officer concerned through the District Magistrate regarding status of habitation whether legal or illegal within 500 meters around the project area. (Decision taken in the last meeting dated 28<sup>th</sup> & 29<sup>th</sup> January, 2017)

The Proponent & Consultant presented the proposal before the committee but not submitted Circle Officer's Letter through the concerned District Magistrate. So, the Committee deferred the decision on this project.

- b) **Gere Block No.-04, Stone Mining Project, Vill- Gere, Tehsil- Manpur, District:- Gaya, Area:- 5.06 Ha, (Online Proposal No.:- SIA/BR/MIN/17387/2015).**

The committee directed the project Proponent to submit a report from the Circle Officer concerned through the District Magistrate regarding status of habitation whether legal or illegal within 500 meters around the project area. (Decision taken in the last meeting dated 28<sup>th</sup> & 29<sup>th</sup> January, 2017)

The Proponent & Consultant presented the proposal before the committee but not submitted Circle Officer's Letter through the concerned District Magistrate. So, the Committee deferred the decision on this project.

*Handwritten signatures and initials: U.S.B., a, and several other illegible signatures.*



- c) **Bhadokhara Sand Mine (Block No.-07), Village:- Bhadokhara, Tehsil-Nawada, District:- Nawada, Area:- 5.52 Ha, (Proposal No.:- SIA/1(a)/414/17) Online Proposal No.:- SIA/BR/MIN/17647/2016).**

The committee directed the Project Proponent to submit the disclosure of the consultants with the original signature of the functional area experts and the Co-ordinator. The photograph of the Co-ordinator has also to be affixed and has to be submitted in the next meeting for further consideration. The Consultant submit disclosure of Consultant.

The Proponent & Consultant presented the proposal before the committee. The committee directed to submit revised land use pattern, Green-Belt Development Plan, Re-Habilitation Plan, Exit Plan, Environment Management Plan, Budget Plan, Total Project Cost. So, the Committee deferred to the decision next meeting.

- d) **Bhadokhara Sand Mine (Block No.-08), Village:- Bhadokhara, Tehsil-Nawada, District:- Nawada, Area:- 05 Ha, (Proposal No.:- SIA/1(a)/412/17) Online Proposal No.:- SIA/BR/MIN/17662/2015).**

The committee directed the Project Proponent to submit the disclosure of the consultants with the original signature of the functional area experts and the Co-ordinator. The photograph of the Co-ordinator has also to be affixed and has to be submitted in the next meeting for further consideration. The Consultant submit disclosure of Consultant.

The Proponent & Consultant presented the proposal before the committee. The committee directed to submit revised land use pattern, Green-Belt Development Plan, Re-Habilitation Plan, Exit Plan, Environment Management Plan, Budget Plan, Total Project Cost. So, the Committee deferred to the decision next meeting.

- e) **Bhadokhara Sand Mine (Block No.-09), Village:- Bhadokhara, Tehsil-Nawada, District:- Nawada, Area:- 05 Ha, (Proposal No.:- SIA/1(a)/415/17) Online Proposal No.:- SIA/BR/MIN/17653/2015).**

The committee directed the Project Proponent to submit the disclosure of the consultants with the original signature of the functional area experts and the Co-ordinator. The photograph of the Co-ordinator has also to be affixed and has to be submitted in the next meeting for further consideration. The Consultant submit disclosure of Consultant.

The Proponent & Consultant presented the proposal before the committee. The committee directed to submit revised land use pattern, Green-Belt Development Plan, Re-Habilitation Plan, Exit Plan, Environment Management Plan, Budget Plan, Total Project Cost. So, the Committee deferred to the decision next meeting.

- f) **Bhadokhara Sand Mine (Block No.-10), Village:- Bhadokhara, Tehsil-Nawada, District:- Nawada, Area:- 5.51 Ha, (Proposal No.:- SIA/1(a)/413/17) Online Proposal No.:- SIA/BR/MIN/18050/2015).**

The committee directed the Project Proponent to submit the disclosure of the consultants with the original signature of the functional area experts and the Co-ordinator. The photograph of the Co-ordinator has also to be affixed and has to be submitted in the next meeting for further consideration. The Consultant submit disclosure of Consultant.

The Proponent & Consultant presented the proposal before the committee. The committee directed to submit revised land use pattern, Green-Belt Development Plan, Re-Habilitation Plan, Exit Plan, Environment Management Plan, Budget Plan, Total Project Cost. So, the Committee deferred to the decision next meeting.

- g) **Matokhar & Surdaspur Stone Mine, Block No.- 06), M. L. Area:- 5.26 Ha), Village:- Motakhar & Surdaspur, Tehsil:- Sheikhpura, District:- Sheikhpura, Area:- 5.26 Ha, (Proposal No.:- SIA/1(a)/422/17) Online Proposal No.:- SIA/BR/MIN/18371/2015).**

The Project Proponent submitted relevant documents, namely Form-1 (as per the EIA Notification 2006, as amended till date) along with a Pre-feasibility Report and proposed Terms of References (ToR) for carrying out environmental studies, First Presentation (for ToR approval) schedule before SEIAA, Bihar in May 2015. The SEAC, Bihar prescribed ToR vide Ref. No. 199 Dated 07/10/2015. OMTC undertook the study during the winter season (December 2015 to February 2016), and presented the preliminary study findings in its final report. Draft EIA/EMP report was submitted for public consultation on 21<sup>st</sup> April 2016. Public consultation held on 01<sup>st</sup> August, 2016 and Reconsideration of Public Consultation held on 13th January 2017, at Project site, Villages: Matokhar & Surdaspur, Block & District: Sheikhpura. Final EIA report is being submitted for Environmental Clearance. The proposed Matokhar & Surdaspur Stone Mine, Block no. 6 having plot no. 1030 (P) & 32 (P) is situated near villages Matokhar & Surdaspur, District Sheikhpura, Bihar state over an area of 5.26 Ha. It is proposed to excavate approximately 12, 75,708 of Stone by Open-cast mechanized method. The lease area is 5.26 Ha and total mineable reserves are 74, 42,192 MT. The expected life of the mine will be ~ 6years.

The Proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee recommended the Environmental Clearance (as Annexure - VI).



- h) **Matokhar & Surdaspur Stone Mine, Block No.- 05), M. L. Area:- 5.26 Ha), Village:- Motakhar & Surdaspur, Tehsil:- Sheikhpura, District:- Sheikhpura, Area:- 5.26 Ha, (Proposal No.:- SIA/1(a)/433/17) Online Proposal No.:- SIA/BR/MIN/18369/2015).**

The Project Proponent submitted relevant documents, namely Form-1 (as per the EIA Notification 2006, as amended till date) along with a Pre-feasibility Report and proposed Terms of References (ToR) for carrying environmental studies, to the State Environment Impact Assessment Authority (SEIAA), on 25<sup>th</sup> June, 2015. A presentation to the SEAC, Bihar, to finalize the ToR for the EIA study was held during 17<sup>th</sup> Oct 2015. The SEAC, prescribed ToR vide Ref. No. 223 dated 03.11.2015. OMTC undertook the study during the winter season (December, January and February) 2015-2016, and presented the preliminary study findings in its final EIA report. Public Hearing for the proposed Ordinary Stone Mining was held on 01.08.2016 & the Reconsideration of Public Consultation held on 13<sup>th</sup> January 2017, at Project site- Villages: Matokhar & Surdaspur, Block & District: Sheikhpura. Final EIA report is being submitted for Environment Clearance. The proposed "Matokhar & Surdaspur Ordinary Stone Mining Project", Block No.:- 05, is situated near Villages Matokhar & Surdaspur, Block & District- Sheikhpura (Bihar) over an area of 5.26 Ha. In Plot No. 1030 (P) & 32 (P). It is proposed to excavate approximately 10,51,652 TPA of Ordinary stone by Open-cast mechanized method. The lease area is 5.26 Ha and total mineable reserve are 73,78,745 MT. The expected life of the mine will be ~ 7 years.

The Proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee recommended the Environmental Clearance (as Annexure - VI).

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## New Sand Mining Projects (For E.C.)

District Name:- Saharsa

Sl. No.	Proposal Sl. No.	Proposal Details with Address	Mining Location	District	Area (Acre/hectare)	Geological/Mineable/Production Per Year (in Ton)	Date of Receiving	BlockWise Geo-Coordinate as per given in Form-I & Mining Plan approved by Mining Deptt., Govt. of Bihar	Thana No.	Khata No.	Khesra No.	Name of Ghat
1.	SIA/1(a)/430/17  Online Proposal No.:- SIA/BR/MIN/61 866/2017	<b>Sand Mining Project at Tulsiyahi Ghat on River T lawe, District - Saharsa, State - Bihar</b>	Village - Bhatauni, Block:- Simri Bakhitiyarpur, District:- Saharsa, State:- Bihar	Saharsa	7.56 Ha	Geological Reserve:- <b>4,08,013 Ton</b> Mineable Reserve:- <b>1,99,292 Ton</b> Production Per Year (in Ton):- <b>1,99,292 Ton</b>	23-01-17	Corner A- 25° 43' 52.42" N 86° 40' 42.16" E Corner B- 25° 43' 52.56" N 86° 40' 47.00" E Corner C- 25° 44' 17.49" N 86° 40' 41.27" E Corner D- 25° 44' 17.76" N 86° 40' 36.19" E			3372	Tulsiyahi Ghats
2.	SIA/1(a)/431/17  Online Proposal No.:- SIA/BR/MIN/61 869/2017	<b>Sand Mining Project at Noniati Balu Ghat on River Sursari, District - Saharsa, State - Bihar</b>	Village - Noniati, Block:- Sonbarsa Raj, District:- Saharsa, State:- Bihar	Saharsa	6.40 Ha	Geological Reserve:- <b>3,62,941 Ton</b> Mineable Reserve:- <b>2,05,600 Ton</b> Production Per Year (in Ton):- <b>2,05,600 Ton</b>	23-01-17	Corner A- 25° 42' 42.75" N 86° 47' 39.46" E Corner B- 25° 42' 43.81" N 86° 47' 39.96" E Corner C- 25° 42' 43.23" N 86° 48' 08.21" E Corner D- 25° 42' 41.56" N			3327	Noniati Balu Ghats



								86° 48' 09.00" E				
3.	SIA/1(a)/432/17  Online Proposal No.:- SIA/BR/MIN/61 868/2017	<b>Sand Mining Project at Dakra- Bhapatia Ghat on River Tilawe, District - Saharsa, State - Bihar</b>	Village - Bhapatia, Block:- Saur Bazar, District:- Saharsa, State:- Bihar	Saharsa	8.48 Ha	Geological Reserve:- <b>4,58,019 Ton</b> Mineable Reserve:- <b>2,29,194 Ton</b> Production Per Year (in Ton):- <b>2,29,194 TPA</b>	23-01-17	Corner A- 25° 45' 39.02" N 86° 41' 14.65" E Corner B- 25° 45' 43.56" N 86° 41' 13.89" E Corner C- 25° 45' 43.37" N 86° 41' 42.59" E Corner D- 25° 45' 39.69" N 86° 41' 42.43" E			2603	Dakra- Bhapatia Ghats








The Proponent & consultant presented the proposal before the committee. The Proponent submitted vide affidavit that

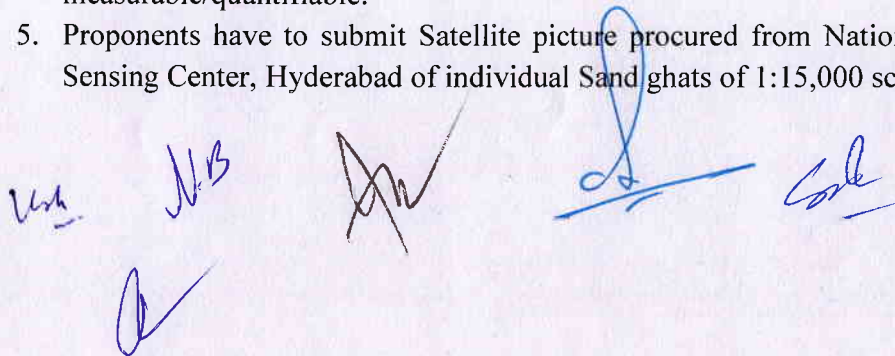
- No RF/PF is located within 500 meters from the project site;
- The sum total of mining area including the proposed site is less than 25 Hectare (B-2 Category ) within 500 Meter radius;
- No railway /Road bridge is coming within 300 meter;
- No intake well is coming within the distance of 500 meter from the mining lease area in upstream as well as downstream side;
- No notified aquatic species breeding area is present within 500 meter from the mining lease area in upstream as well as downstream side;
- No any disturbance/harm will be done to Flora & Fauna lies within core & buffer zone during mining operation & mining activity and will Comply the provisions of Environmental (Protection) Act, 1986, water (Prevention control of pollution ) Act, 1974, Air (prevention & control of pollution) Act, 1981 and Wildlife (Protection) Act, 1972;

- The Proponent submitted annexure-I & II;

During the meeting the committee directed to the proponent submit an affidavit regarding no mining on the active channel of the river & Proponent submitted an affidavit to this effect.

E.C. is recommended with following conditions to be included in E.C. conditions.

1. The sand mining should be in proportion to the annual replenishment of the area. In Case the replenishment is lower than the approved amount of sand removal, the mining activity shall be decreased/Stopped till the replenishment is completed.
2. No Mining activity shall be done within a distance of 3 Meter or 10% of the width of the river bed, whichever is more and it will be left intact as no mining zone.
3. Sand mining will not be done at the river meandering point.
4. CSR activity of the Project Proponent should be visible and measurable/quantifiable.
5. Proponents have to submit Satellite picture procured from National Remote Sensing Center, Hyderabad of individual Sand ghats of 1:15,000 scale.



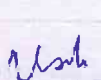






**District Name:- Munger.**

Sl. No.	Proposal Sl. No.	Proposal Details with Address	Mining Location	District	Area (Acre/hectare)	Geological/Mineable/Production Per Year (in Ton)	Date of Receiving	Blockwise Geo-Coordinate as per given in Form-I & Mining Plan approved by Mining Deptt., Govt. of Bihar	Thana No.	Khata No.	Khesra No.	Name of Ghat
1.	SIA/1(a)/355/16  Online Proposal No:- SIA/BR/MIN/59815/2016	<b>Balu / Sand Mining (Minor Mineral) over an area of 6.4 Ha in Kalisthan - Bariyarpur Ghat of Ganga River Tehsil - Bariarpur, District-Munger, Bihar</b>	Kalisthan - Bariyarpur Ghat of Ganga River Tehsil - Bariarpur, District-Munger, Bihar	Munger	6.4 Ha	Geological Reserve:- <b>3,84,000 MT</b> Mineable Reserve:- <b>45,000 Ton</b> Production Per Year (in Ton):- <b>45,000 Ton</b>	15-11-16	Corner A- 25° 17' 26.35" N 86° 35' 34.80" E Corner B- 25° 17' 29.14" N 86° 35' 42.53" E Corner C- 25° 17' 18.87" N 86° 35' 39.88" E Corner D- 25° 17' 22.04" N 86° 35' 48.10" E				Kalisthan - Bariyarpur Ghat
2.	SIA/1(a)/357/16  Online Proposal No:- SIA/BR/MIN/59790/2016	<b>Balu / Sand Mining (Minor Mineral) over an area of 10.4 Ha in Bardha Ghat of Ganga River Tehsil - Munger, District-Munger, Bihar</b>	Bardha Ghat of Ganga River Tehsil - Munger, District-Munger, Bihar	Munger	10.4 Ha	Geological Reserve:- <b>6,24,000 MT</b> Mineable Reserve:- <b>75,000 Ton</b> Production Per Year (in Ton):- <b>75,000 Ton</b>	15-11-16	Corner A- 25° 21' 39.77" N 86° 32' 45.75" E Corner B- 25° 21' 43.38" N 86° 32' 52.58" E Corner C- 25° 21' 26.73" N 86° 32' 54.69" E Corner D- 25° 21' 30.28" N 86° 33' 01.39" E				Bardha Ghat
3.	SIA/1(a)/358/16	<b>Balu / Sand Mining (Minor</b>	Rampur Ghat of	Munger	7.5 Ha	Geological Reserve:-	15-11-16	Corner A- 25° 20' 10.30" N				Kalan Rampur

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	Online Proposal No:- SIA/BR/MIN/ 59790/2016	Mineral) over an area of 7.5 Ha in Kalan Rampur Ghat of Ganga River Tehsil - Jamalpur, District-Munger, Bihar	Ganga River Tehsil - Jamalpur, District-Munger, Bihar			4,50,000 MT Mineable Reserve:- 45,000 Ton Production Per Year (in Ton):- 45,000 Ton		86° 33' 40.04" E Corner B- 25° 20' 11.12" N 86° 33' 46.32" E Corner C- 25° 19' 57.18" N 86° 33' 43.77" E Corner D- 25° 19' 58.37" N 86° 33' 50.22" E			Ghat
4.	SIA/1(a)/359/16  Online Proposal No:- SIA/BR/MIN/ 59805/2016	Balu / Sand Mining (Minor Mineral) over an area of 5.6 Ha with Production Capacity of 45000 TPA at Lal Darwaja Ghat of Ganga River Tehsil - Munger, District-Munger, Bihar	Lal Darwaja Ghat of Ganga River Tehsil - Munger, District-Munger, Bihar	Munger	5.6 Ha	Geological Reserve:-  Mineable Reserve:- 45,000 Ton Production Per Year (in Ton):- 45,000 Ton	15-11-16	Corner A- 25° 23' 18.99" N 86° 27' 40.36" E Corner B- 25° 23' 22.11" N 86° 27' 35.45" E Corner C- 25° 23' 25.91" N 86° 27' 48.16" E Corner D- 25° 23' 29.98" N 86° 27' 43.19" E			Lal Darwaja Ghat
5.	SIA/1(a)/360/16  Online Proposal No:- SIA/BR/MIN/ 59612/2016	Balu / Sand Mining (Minor Mineral) over an area of 6.7 Ha with Production Capacity of 45000 TPA at Tikarampur Ghat of Ganga	Tikarampur Ghat of Ganga River Tehsil - Munger, District-Munger, Bihar	Munger	6.7 Ha	Geological Reserve:-  Mineable Reserve:- 45,000 Ton Production Per Year (in Ton):- 45,000 Ton	15-11-16	Corner A- 25° 23' 47.43" N 86° 28' 24.50" E Corner B- 25° 23' 53.71" N 86° 28' 21.64" E Corner C- 25° 23' 51.17" N 86° 28' 35.36" E Corner D-			Tikarampur Ghat

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		<b>River Tehsil - Munger, District- Munger, Bihar</b>						25° 23' 57.25" N 86° 28' 32.82" E				
6.	SIA/1(a)/361/16  Online Proposal No:- SIA/BR/MIN/ 59816/2016	<b>Balu / Sand Mining (Minor Mineral) over an area of 13.6 Ha in Shakarpur Ghat of Ganga River Tehsil - Munger, District- Munger, Bihar</b>	Shakarpur Ghat of Ganga River Tehsil - Munger, District- Munger, Bihar	Munger	13.6 Ha	Geological Reserve:- <b>8,16,000 MT</b> Mineable Reserve:- <b>1,05,000 MT</b> Production Per Year (in Ton):- <b>1,05,000 MT</b>	15-11-16	Corner A- 25° 23' 12.60" N 86° 30' 47.52" E Corner B- 25° 23' 18.48" N 86° 30' 55.05" E Corner C- 25° 23' 00.87" N 86° 30' 59.79" E Corner D- 25° 23' 06.44" N 86° 31' 06.95" E				Shakarpur Ghat
7.	SIA/1(a)/362/16  Online Proposal No:- SIA/BR/MIN/ 59787/2016	<b>Balu / Sand Mining (Minor Mineral) over an area of 5.74 Ha with Production Capacity of 36240 TPA at Ghor Ghat of Ganga River Tehsil - Jamalpur, District- Munger, Bihar</b>	Ghor Ghat of Ganga River Tehsil - Jamalpur, District- Munger, Bihar	Munger	5.74 Ha	Geological Reserve:-  Mineable Reserve:- <b>36,240 MT</b> Production Per Year (in Ton):- <b>36,240 MT</b>	15-11-16	Corner A- 25° 14' 42.52" N 86° 38' 13.99" E Corner B- 25° 14' 46.50" N 86° 38' 15.41" E Corner C- 25° 14' 37.95" N 86° 38' 28.14" E Corner D- 25° 14' 42.01" N 86° 38' 30.00" E				Ghor Ghat
8.	SIA/1(a)/363/16  Online Proposal No:-	<b>Balu / Sand Mining (Minor Mineral) over an area of 14.7</b>	Chotki Mohali Ghat of Ganga River Tehsil	Munger	14.7 Ha	Geological Reserve:- <b>8,82,000 MT</b> Mineable	15-11-16	Corner A- 25° 24' 04.50" N 86° 30' 16.10" E Corner B-				Chotki Mohali Ghat







SIA/BR/MIN/ 59788/2016	<b>Ha in Chatki Mohali Ghat of Ganga River Tehsil - Teitha Bambor, District- Munger, Bihar</b>	- Teitha Bambor, District- Munger, Bihar			Reserve:- <b>1,27,500</b> MT/Annum Production Per Year (in Ton):- <b>1,27,500</b> MT/Annum		25° 24' 09.33" N 86° 30' 26.02" E Corner C- 25° 23' 50.76" N 86° 30' 23.52" E Corner D- 25° 23' 54.94" N 86° 30' 33.11" E				
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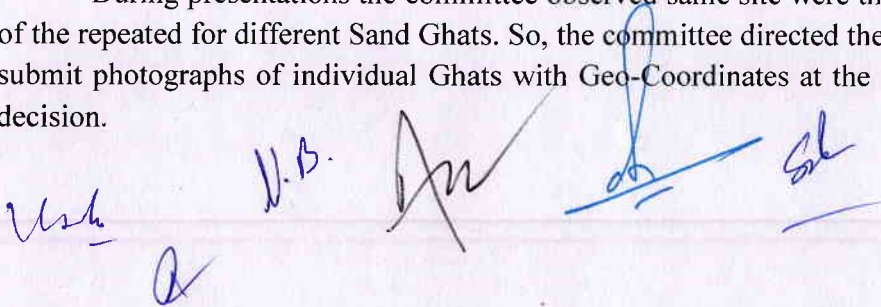


The Proponent & consultant presented the proposal before the committee. The Proponent submitted vide affidavit that

- No RF/PF is located within 500 meters from the project site;
- The sum total of mining area including the proposed site is less than 25 Hectare (B-2 Category ) within 500 Meter radius;
- No railway /Road bridge is coming within 300 meter;
- No intake well is coming within the distance of 500 meter from the mining lease area in upstream as well as downstream side;
- No notified aquatic species breeding area is present within 500 meter from the mining lease area in upstream as well as downstream side;
- No any disturbance/harm will be done to Flora & Fauna lies within core & buffer zone during mining operation & mining activity and will Comply the provisions of Environmental (Protection) Act, 1986, water (Prevention control of pollution ) Act, 1974, Air (prevention & control of pollution) Act, 1981 and Wildlife (Protection) Act, 1972;
- The Proponent submitted annexure-I & II;
- The proponent also submitted a letter regarding withdrawal/no go ahead of its application submitted to MoEF&CC for grant of E.C. regarding the Sand Mining Ghats under consideration of this committee.

The proponent also stated that he has applied to DFO Munger to get no objection certificate (NOC) regarding distance of the mining ghat from the Bhimbandh Wild Life Sanctuary including its Eco Sensitive Zone if any.

During presentations the committee observed same site were that the photographs of the repeated for different Sand Ghats. So, the committee directed the project proponent submit photographs of individual Ghats with Geo-Coordinates at the earliest for further decision.



**District Name:- Banka.**

Sl. No.	Proposal Sl. No.	Proposal Details with Address	Mining Location	District	Area (Acre/hectare)	Geological/Mineable/Production Per Year (in Ton)	Date of Receiving	BlockWise Geo-Coordinate as per given in Form-I & Mining Plan approved by Mining Deptt., Govt. of Bihar	Thana No.	Khata No.	Khesra No.	Name of Ghat
1.	SIA/1(a)/444/17  Online Proposal No:- SIA/BR/MIN/61902/2017	<b>District Banka Blocks (Stretch I Block I) Mining Project</b>	Village:- Majhoni, Tehsil:- Rajon, District:- Banka, State:- Bihar	Banka	23 Ha	Geological Reserve:-  Mineable Reserve:- <b>11,76,062 Ton</b> Production Per Year (in Ton):- <b>8,27,955 Ton</b>	14-02-17	Corner A- 24° 58' 09.35" N 86° 55' 25.42" E Corner B- 24° 58' 12.13" N 86° 55' 37.87" E Corner C- 24° 57' 52.55" N 86° 55' 44.77" E Corner D- 24° 57' 52.46" N 86° 55' 31.99" E	357	01	Plot No. 1 (Block 1) Toposheet 72L/13	Majhoni Ghat









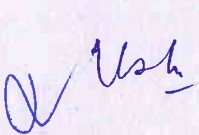
Earlier on the SEIAA, meeting dated 20<sup>th</sup> December, 2016 (Ref. No.- 460, Dated:- 23/12/2016) a decision was taken by the SEIAA not to approve the Stretch – I of Block – II but in case the proponent wants Environmental Clearance for Stretch – I of Block – I he was directed to apply afresh. So, Proponent applied for Stretch – I of Block – I afresh.

The Proponent & consultant presented the proposal before the committee. The Proponent submitted vide affidavit that

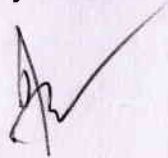
- No RF/PF is located within 500 meters from the project site;
- The sum total of mining area including the proposed site is less than 25 Hectare (B-2 Category ) within 500 Meter radius;
- No railway /Road bridge is coming within 300 meter;
- No intake well is coming within the distance of 500 meter from the mining lease area in upstream as well as downstream side;
- No notified aquatic species breeding area is present within 500 meter from the mining lease area in upstream as well as downstream side;
- No any disturbance/harm will be done to Flora & Fauna lies within core & buffer zone during mining operation & mining activity and will Comply the provisions of Environmental (Protection) Act, 1986, water (Prevention control of pollution ) Act, 1974, Air (prevention & control of pollution) Act, 1981 and Wildlife (Protection) Act, 1972;
- The Proponent submitted annexure-I & II;
- The proponent also submitted a letter regarding withdrawal/no go ahead of its application submitted to MoEF&CC for grant of E.C. regarding the Sand Mining Ghats under consideration of this committee.

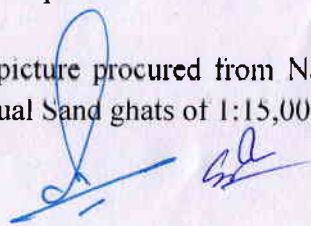
E.C. is recommended with following conditions to be included in E.C. conditions.

1. The sand mining should be in proportion to the annual replenishment of the area. In Case the replenishment is lower than the approved amount of sand removal, the mining activity shall be decreased/Stopped till the replenishment is completed.
2. No Mining activity shall be done within a distance of 3 Meter or 10% of the width of the river bed, whichever is more and it will be left intact as no mining zone.
3. Sand mining will not be done at the river meandering point.
4. CSR activity of the Project Proponent should be visible and measurable/quantifiable.
5. Proponents have to submit Satellite picture procured from National Remote Sensing Center, Hyderabad of individual Sand ghats of 1:15,000 scale.







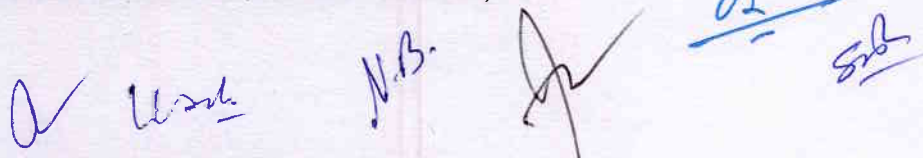


## New Sand Mining Projects (For ToR)

**District Name:- Patna.**

Sl. No.	Proposal Sl. No.	Proposal Details with Address	Mining Location	District	Area (Acre/hectare)	Geological/Mineable/Production Per Year (in Ton)	Date of Receiving	BlockWise Geo-Coordinate as per given in Form-I & Mining Plan approved by Mining Deptt., Govt. of Bihar	Thana No.	Khata No.	Khesra No.	Name of Ghat
1.	Online Proposal No.:- SIA/BR/MIN/18390/2017	<b>Sand Mining Project at Jitan Chapra Ghat on Son River District- Patna, State- Bihar</b>	Town/Village:- Jitan Chapra Ghat, Village:- Saraiya, Block:- Dulhin Bazar, District:- Patna	Patna	42 Ha	Geological Reserve:- <b>16,80,000 Ton</b> Mineable Reserve:- <b>16,30,547 Ton</b> Production Per Year (in Ton):- <b>15,49,020 TPA</b>	13-02-17	Corner A- 25° 22' 21.08" N 84° 45' 14.90" E Corner B- 25° 22' 44.7" N 84° 45' 13.92" E Corner C- 25° 22' 44.6" N 84° 44' 53.27" E Corner D- 25° 22' 21.00" N 84° 44' 54.08" E		345	1691, 1692, 1693, 1694, 1695, 1697, 1698	Jitan Chapra Ghat

The proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee recommended to issue the ToR. (As Annexure- VIII).





**District Name:- Gaya.**

Sl. No.	Proposal Sl. No.	Proposal Details with Address	Mining Location	District	Area (Acre/hectare)	Geological/Mineable/Production Per Year (in Ton)	Date of Receiving	BlockWise Geo-Coordinate as per given in Form-I & Mining Plan approved by Mining Deptt., Govt. of Bihar	Thana No.	Khata No.	Khesra No.	Name of Ghat
1.	SIA/1(a)/439/17  Online Proposal No.:- SIA/BR/MIN/179 18/2016	<b>Bajitpur Ghat (Stretch 4 Block - 2) Sand Mining Project, of District:- Gaya, State:- Bihar</b>	Village:- Bajitpur, Tehsil:- Amas, District:- Gaya	Gaya	30 Ha	Geological Reserve:- <b>16,47,401 Ton</b> Mineable Reserve:- <b>15,65,116 Ton</b> Production Per Year (in Ton):- <b>9,67,320 Ton</b>	13-02-17	Corner A- 24° 33' 36.50" N 84° 46' 37.80" E Corner B- 24° 33' 25.50" N 84° 46' 43.80" E Corner C- 24° 33' 46.40" N 84° 47' 20.70" E Corner D- 24° 33' 53.80" N 84° 47' 10.60" E			305 & 320	Bajitpur Ghat
2.	SIA/1(a)/440/17  Online Proposal No.:- SIA/BR/MIN/178 74/2016	<b>Kothvara Ghat (Stretch 1 Block 1) Sand Mining Project, of District:- Gaya, State:- Bihar</b>	Village:- Kothvara, Dhobi, Tehsil:- Dobhi, District:- Gaya	Gaya	35 Ha	Geological Reserve:- <b>19,82,205 Ton</b> Mineable Reserve:- <b>18,75,398 Ton</b> Production Per Year (in Ton):- <b>11,48,324 Ton</b>	13-02-17	Corner A- 24° 29' 32.40" N 84° 52' 54.10" E Corner B- 24° 29' 42.50" N 84° 52' 53.00" E Corner C- 24° 29' 19.20" N 84° 52' 22.70" E Corner D- 24° 29' 14.40" N 84° 52' 29.70" E			580, 1250	Kothvara Ghat
3.	SIA/1(a)/441/17	<b>Shanti Nagar Ghat (Stretch 2</b>	Village:- Shanti	Gaya	30.5 Ha	Geological Reserve:-	13-02-17	Corner A- 24° 53' 21.10" N			Block No.- 11	Shanti Nagar

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Online Proposal No.:- SIA/BR/MIN/179 23/2016	Block -11] Sand Mining Project of District:- Gaya, State:- Bihar	Nagar, Tehsil:- Khizirsarai , Distrcit:- Gaya			16,95,015 Ton Mineable Reserve:- 16,29,043 Ton Production Per Year (in Ton):- 10,54,202 Ton		85° 02' 04.60" E Corner B- 24° 53' 22.30" N 85° 02' 18.60" E Corner C- 24° 54' 04.00" N 85° 02' 14.50" E Corner D- 24° 54' 01.80" N 85° 02' 02.70" E				Ghat
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The proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee recommended to issue the ToR. (As Annexure- VIII).

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## Sand Mining Projects (Amendment in ToR)

District Name:- Patna.

Sl. No.	Proposal Sl. No.	Proposal Details with Address	Mining Location	District	Area (Acre/hectare)	Geological/Mineable/Production Per Year (in Ton)	Date of Receiving	BlockWise Geo-Coordinate as per given in Form-I & Mining Plan approved by Mining Deptt., Govt. of Bihar	Thana No.	Khata No.	Khesra No.	Name of Ghat
1.	SIA/1(a)/309/16	Sand Mining Project on Mokama Ghat of Ganga river of District- Patna, State- Bihar	Vill- Jazira Mokama (As per Census Data), Tehsil- Mokamesh Kash, Dist- Patna	Patna	Total Area - 45 Hect	Geological Reserve:- <b>18,00,000 Ton</b> Mineable Reserve:- <b>17,20,855 Ton</b> Production Per Year (in Ton):- <b>16,34,812 Ton</b>	20-04-16	Corner A- 24° 24' 32.70" N 85° 55' 23.77" E Corner B- 25° 24' 43.78" N 85° 55' 28.75" E Corner C- 25° 25' 00.69" N 85° 54' 50.95" E Corner D- 25° 24' 49.92" N 85° 54' 45.00" E	29	1049, 1047	3013, 1830, 1870, 1871, 1885, 1886, 1887, 1888, 1869, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1450	Mokama Ghat

The proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee recommended to issue the ToR. (As Annexure- VIII).

**District Name:- Gaya.**

Sl. No.	Proposal Sl. No.	Proposal Details with Address	Mining Location	District	Area (Acre/hectare)	Geological/Mineable/Production Per Year (in Ton)	Date of Receiving	BlockWise Geo-Coordinate as per given in Form-I & Mining Plan approved by Mining Deptt., Govt. of Bihar	Thana No.	Khata No.	Khesra No.	Name of Ghat
1.	SIA/1(a)/323/16  Online Proposal No.:- SIA/BR/MIN/17 902/2016	<b>Sand Mining Project on Falgu river at Alipur Ghat of District- Gaya, State- Bihar</b>	Vill-Alipur, Tehsil-Tikari, Dist- Gaya	Gaya	30.5 hect	Geological Reserve:- <b>16,43,220 Ton</b> Mineable Reserve:- <b>15,66,886 Ton</b> Production Per Year (in Ton):- <b>9,96,624 Ton</b>	22-04-16	Corner A- 24° 33' 36.50" N 84° 46' 37.80" E Corner B- 24° 33' 25.50" N 84° 46' 43.80" E Corner C- 24° 33' 46.40" N 84° 47' 20.70" E Corner D- 24° 33' 53.80" N 84° 47' 10.60" E	248	114	01,	Alipur Ghat

The proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee recommended to issue the ToR. (As Annexure- VIII)



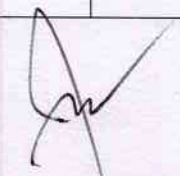

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## Sand Mining Project (Under Compliance)

District Name:- Banka.

Sl. No.	Proposal Sl. No.	Proposal Details with Address	Mining Location	District	Area (Acre/hectare)	Geological/Mineable/Production Per Year (in Ton)	Date of Receiving	BlockWise Geo-Coordinate as per given in Form-I & Mining Plan approved by Mining Deptt., Govt. of Bihar	Thana No.	Khata No.	Khesra No.	Name of Ghat
1.	SIA/1(a)/328/16	Sand Mining Project on Chandan river of District-Banka, State-Bihar	Vill- Baisa, Tehsil-Banka, Dist-Banka	Banka	Total Area - 24 hectare	Geological Reserve:- <b>13,43,303 Ton</b> Mineable Reserve:- <b>8,84,167 Ton</b> Production Per Year (in Ton):- <b>8,84,167 TPA</b>	19-05-16	Corner A- 24° 55' 8.32" N 86° 54' 57.94" E Corner B- 24° 55' 7.84" N 86° 55' 18.29" E Corner C- 24° 54' 43.47" N 86° 54' 58.75" E Corner D- 24° 54' 42.03" N 86° 54' 48.35" E	88	61	01	Baisa Ghat

The Proponent & consultant presented the proposal before the committee. The Proponent submitted vide affidavit that

- No RF/PF is located within 500 meters from the project site;
- The sum total of mining area including the proposed site is less than 25 Hectare (B-2 Category ) within 500 Meter radius;
- No railway /Road bridge is coming within 300 meter;
- No intake well is coming within the distance of 500 meter from the mining lease area in upstream as well as downstream side;
- No notified aquatic species breeding area is present within 500 meter from the mining lease area in upstream as well as downstream side;
- No any disturbance/harm will be done to Flora & Fauna lies within core & buffer zone during mining operation & mining activity and will Comply the provisions of Environmental (Protection) Act, 1986, water (Prevention control of pollution ) Act, 1974, Air (prevention & control of pollution) Act, 1981 and Wildlife (Protection) Act, 1972;
- The Proponent submitted annexure-I & II;
- The proponent also submitted a letter regarding withdrawal/no go ahead of its application submitted to MoEF&CC for grant of E.C. regarding the Sand Mining Ghats under consideration of this committee.

In the earlier meeting dated 28<sup>th</sup> & 29<sup>th</sup> January, 2017 the SEAC directed to re-survey the project area and submit a fresh Pillar Co-Ordinate Map. After submission of fresh Pillar Co-Ordinate Map & Affidavit the SEAC considered this project again.

E.C. is recommended with following conditions to be included in E.C. conditions.

1. The sand mining should be in proportion to the annual replenishment of the area. In Case the replenishment is lower than the approved amount of sand removal, the mining activity shall be decreased/Stopped till the replenishment is completed.
2. No Mining activity shall be done within a distance of 3 Meter or 10% of the width of the river bed, whichever is more and it will be left intact as no mining zone.
3. Sand mining will not be done at the river meandering point.
4. CSR activity of the Project Proponent should be visible and measurable/quantifiable.
5. Proponents have to submit Satellite picture procured from National Remote Sensing Center, Hyderabad of individual Sand ghats of 1:15,000 scale.

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It has been resolved that the next meeting of SEAC will be held on ..... 2017 and the Agenda would be communicated to all member and concerned, one week prior to the date of the meeting.

Apart from that, the committee also decided to follow the following criteria for all the projects before the grant of environmental clearance.

- (I) Credible action should be taken by SEIAA, against the violation cases as per the latest MoEF&CC / NGT guidelines.
- (II) Affidavit related to violation / non violation cases may be procured from all the proponents also have received the Environmental Clearance.
- (III) The aforementioned two Clauses I & II should be also applicable for the cases recommended by SEAC in the meetings held earlier.

The Member-Secretary thanked the Chairman and members present in the meeting for participation and deliberation, and the meeting was declared closed with the permission of the Chairman, SEAC.

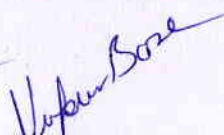


(V. K. Sinha)

(Dr. N.S. Maurya)



(Dr.S.K. Singh)



(Dr.Nupur Bose)



(Dr. Kamesh Kumar)

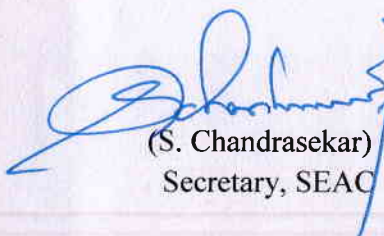
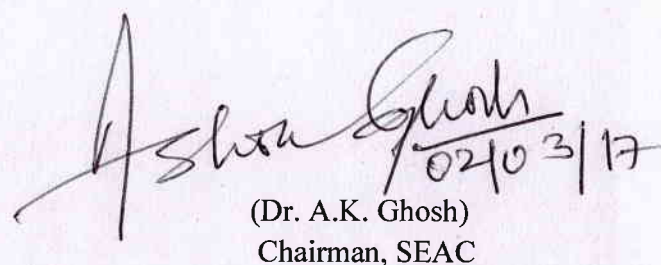
(Member,SEAC)

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(Member, SEAC)

  
(S. Chandrasekar)  
Secretary, SEAC  
02/3/17  
(Dr. A.K. Ghosh)  
Chairman, SEAC  
02/03/17



## **Annexure:- I**

### **Term of Reference(ToR) for Township/Area Developmet Projects**

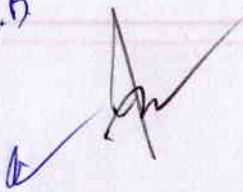


1. Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.
2. Submit details of environmentally sensitive places, land acquisition status, 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 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.
5. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project.
6. Submit the details of the trees 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 Environment Protection 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 prepare a 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. Energy conservation and energy efficiency.
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. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
22. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
23. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Townships>".

The Proponent shall inform the office of SEIAA the exact date of monitoring so that experts from SEIAA office could visit site of monitoring.

These 'ToRs' should be considered for the preparation of EIA/EMP report. Relevant information as per the General Structure of EIA' Notification, 2006.

The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India/National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/Laboratories including their status of approvals etc. in this regard circular no. B No J-11013/77/2004-IA II(I) dated 2<sup>nd</sup> December, 2009 available on the Ministry's Website <http://www.moef.nic.in> may be referred.

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## **Annexure:- II**

### **Term of Reference(ToR) for Expansion of Ethanol/Biodiesel Projects**

1. Executive Summary of the Project
2. Land used details of the Site based on Satellite imagery.
3. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
4. Project Description and Project Benefits.
5. Proposal for safety buffer zone around the proposed site with map.
6. Detailed layout plan with provision of trucks parking area and storage tanks and other associated facilities
7. Details of the storage and technical specifications with safety aspects & standards.
8. Site details including satellite imagery for 5 km around the site by delineating land use pattern.
9. Land use along with maps (By using satellite imagery data) & cropping pattern, vegetation, Flora & Fauna.
10. Details within 500m with respect to all establishments/railway line/habitation etc.
11. Demography & Socio-economics of the area.
12. Baseline 3 Months of Monitoring AAQ data (except monsoon)) for air, water and soil for: 8 locations .The monitoring stations shall be based CPCB guidelines
  - I. Ambient Air Quality monitoring for PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> CO and other parameters relevant to the project shall be collected.
  - II. Background levels of hydrocarbons (methane & non methane HC) and VOCs.
  - III. Soil Sample analysis.
  - IV. Base line underground and surface water quality in the vicinity of Project.
  - V. Climatology & Meteorology including wind speed, wind direction, temperature, rainfall etc.
  - VI. Measurement of Noise levels.
13. Details of water consumption and source of water supply, waste water generation, treatment and utilization of treated water generated from the facilities and effluent disposal.
14. Detailed solid waste generation, collection, segregation, its recycling and reuse, treatment and disposal.
15. Assessment of impact on air, water, soil, solid/hazardous waste and noise levels.
16. Details of proposed preventive measures for leakages and accident.
17. Adequate width of approach road to avoid congestion and to have safe exit in emergencies.
18. Environmental Management Plan.



19. Details on list of hazardous chemicals to be stored along with storage quantities at the facility, their category (as per MSIHC Rules), MSDS.
20. Mode of receiving hazardous chemicals in isolated storages and mode of their dispatch.
21. Layout plan of the storage tanks and other associated facilities.
22. Details on types and specifications of the storage facilities including tanks, pumps, piping, valves, flanges, pumps, monitoring equipments, systems for emissions control safety controls including relief systems.
23. Arrangements to control loss/leakage of chemicals and management system in case of leakage.
24. Risk Assessment & Disaster Management Plan.
  - I. Identification of hazards
  - II. Consequence Analysis
  - III. Risk Assessment & proposed measures for Risk Reduction
  - IV. Action Plan for fire fighting facility as per OISD 117 norms.
  - V. Details of domino effect of the storage tanks and respective preventive measures including distance between storage units in an isolated storage facility.
  - VI. Onsite and offsite emergency preparedness plan.
25. Details of proposed occupational Health Surveillance program for the employees and other labour.
26. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
27. Environmental Monitoring Programme.
28. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.
29. 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.
30. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project if so, details thereof.
31. A tabular Chart indicating point-wise compliance of the ToR.

**The Following general points should be noted :**

- (i) All documents should be properly indexed, page numbered.
- (ii) Period/date of data collection should be clearly indicated.
- (iii) Authenticated English translation of all material provided in Regional Languages.
- (iv) The letter/application for EC should quote the SEIAA, Bihar file No. and also attach a copy of the letter.
- (v) The copy of the letter received from the SEAC, Bihar should be also attached as an annexure to the final EIA-EMP Report.
- (vi) The final EIA-EMP report submitted to the SEIAA, Bihar must incorporate the issues in this letter. The index of the final EIA-EMP Report must indicate the

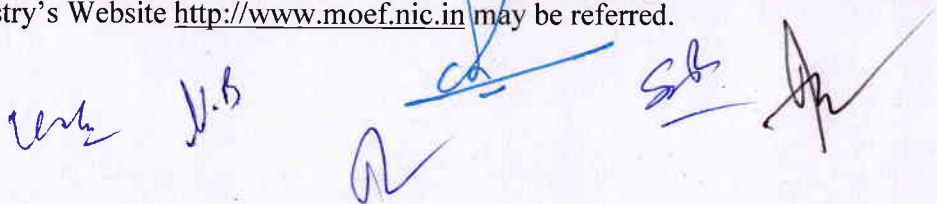
specific chapter and page no of the EIA- EMP Report where the above issues have been incorporated.

- (vii) While preparing and submitting the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF&CC vide O.M. No J-1103/41/2006-IA.II (I) dated 4<sup>th</sup> August, 2009; O.M. No. J-1105/333/2009-IA.II(M) dated 25<sup>th</sup> Feb 2010 and -11013/41/2006-IA.II (I) dated 5<sup>th</sup> October, 2011, which are available on the website of this Ministry should also be followed.

The Proponent shall inform the office of SEIAA the exact date of monitoring so that experts from SEIAA office could visit site of monitoring.

These 'ToRs' should be considered for the preparation of EIA/EMP report. Relevant information as per the General Structure of EIA' Notification, 2006.

The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India/National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/Laboratories including their status of approvals etc. in this regard circular no. B No J-11013/77/2004-IA II(I) dated 2<sup>nd</sup> December, 2009 available on the Ministry's Website <http://www.moef.nic.in> may be referred.



## **Annexure:- III**

### **Term of Reference(ToR) for Cement Grinding Projects**

#### **Executive Summary of the project**

1. Detailed breakup of the land area along with latest photograph of the area.
2. Location of project site on topo sheet.
3. Present land use based on satellite imagery.
4. Details of site and information related to environmental setting within 10 Km radius of the project site.
5. Information regarding eco-sensitive area such as national park/wildlife sanctuary/biosphere reserves within 10 Km radius of project area.
6. Number of working days of the proposed cement grinding unit.
7. Total cost of the project along with item wise brake up.
8. Project site layout plan showing raw materials and other storage area, bore well or water storage tank, waste dumping areas, green areas, water bodies, rivers/drainage passing through the project site should be shown.
9. List of raw material required and source along with mode of transportation and mass balance for the raw material and products should be included.
10. Details of solid/hazardous waste & its action plan for management should be included.
11. Site specific micro meteorological data (one season) using temperatures, relatives humidity, hourly wind speed and direction and rainfall is necessary.
12. AAQ data (except monsoon season) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
13. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
14. Air quality modeling for specific pollutants needs to be done. APCS for the control of emissions should also be included to control particulate emissions within 50 mg/Nm<sup>3</sup>.
15. Impact of the transport of the raw materials and end products on the surrounding environment should be assessed and provided.
16. An action plan to control and monitor secondary fugitive emissions from all the sources as per the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30<sup>th</sup> May, 2008.
17. Analysis of Ground water from 5 locations & surface water of nearby river (downstream & upstream) from 2 locations within 5 km, radius.
18. Permission for the withdrawal of ground water should be obtained from CGWA if applicable.
19. Rain Water Harvesting Action Plan
20. Detailed description of the flora and fauna (terrestrial and aquatic) should be given with specific reference to rare, endemic and endangered species.
21. Impact of air and water discharge on human health around 5 km radius of the project site.

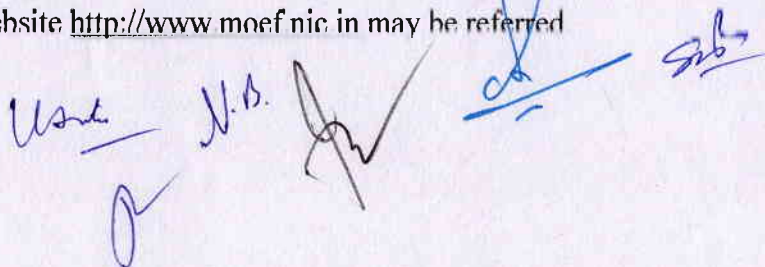


22. Noise levels monitoring at five locations within the study area.
23. Detailed Environment Management Plan (EMP) with specific reference to details of air pollution control system & wastewater management, monitoring & mitigation measure should be provided.
24. Disaster Management Plan for cement grinding project.
25. Details of occupational health surveillance programme
26. Details of socio-economic welfare activities to be provided.
27. Action Plan for post-project environmental monitoring.
28. At least 2.5% of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on locals need and item wise details along with time bound action plan should be included.
29. Total capital cost and recurring cost/annum for environmental pollution control measure should also be included.
30. Any Litigation pending against the project and/or any direction/order passed by any court of Law against the project, if so, details thereof
31. Raw material being used/their source and impact on environment.
32. Source of energy and use of alternate source if any.
33. Percentage of fly ash being added to the cement and its source.
34. Expected increase in the dust/environment pollutants level and methods of their abatement.
35. Impact on the sub soil water level.
36. Sanitary and housing arrangements for the labour and staff working on the plant with their numbers.
37. A tabular chart with index for point-wise compliance of above ToRs.

The Proponent shall inform the office of SEIAA the exact date of monitoring so that experts from SEIAA office could visit site of monitoring.

These 'ToRs' should be considered for the preparation of EIA/EMP report. Relevant information as per the General Structure of EIA' Notification, 2006.

The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India/National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/Laboratories including their status of approvals etc. in this regard circular no. B No J-11013/11/2004-LA II(1) dated 2<sup>nd</sup> December, 2009 available on the Ministry's Website <http://www.moef.nic.in> may be referred

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## **Annexure:- IV**

### **Term of Reference(ToR) for Expansion of Re-Rolling Projects**

1. Executive summary of the project
2. Detailed breakup of the land area along with latest photograph of the area.
3. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places). Present land use based on satellite imagery National Remote Sensing Center, Hyderabad.
4. Expansion/modernization proposals:
  - a) Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing existing operation of the project from SPCB shall be attached with the EIA-EMP report.
  - b) In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.
5. Details of site and information related to environmental setting within 10 km radius of the project site.
6. Information regarding eco-sensitive area such as national park / wildlife sanctuary /biosphere reserves within 10 km radius of project area.
7. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc.
8. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area.
9. Number of working days of the proposed expansion project.
10. Total cost of the project along with item wise cost.
11. Project site layout plan showing raw materials and other storage area, bore well or water storage tank, waste disposal area, green areas & working area
12. List of raw material required and source along with mode of transportation and Mass balance of the raw materials should be included.
13. Details of solid /hazardous waste & its action plan for management should be included.
14. Site specific micro meteorological data (one season) using temperature, relative humidity, hourly wind speed and direction and rainfall is necessary.






15. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based ON CPCB guidelines and take into account the pre-dominant wind direction, population zone.
16. Air quality modeling for specific pollutants needs to be done. APCS for the control of emissions should also be included to control particulate emissions within 150 mg/Nm<sup>3</sup>.
17. Impact of the transport of the raw materials and end products on the surrounding environment should be assessed and provided.
18. An action plan to control and monitor secondary fugitive emissions from all the sources as per the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30<sup>th</sup> May, 2008.
19. Analysis of Ground water from 5 locations & surface water of nearby river (downstream & upstream) from 2 locations within 5 km. radius.
20. Rain Water Harvesting Action Plan
21. Detailed description of the flora and fauna (terrestrial and aquatic) should be given with special reference to rare, endemic and endangered species.
22. Specific study on the impact of air and water discharge on human health around 5 km radius of the project site.
23. Noise levels monitoring at five locations within the study area.
24. Soil Characteristic as per CPCB guidelines.
25. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
26. Detailed Environment management plan (EMP) with specific reference to details of air pollution control system & wastewater management, monitoring frequency & mitigation measure should be provided.
27. EMP should also include concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation and natural resource conservation.
28. Disaster Management Plan for proposed expansion project.
29. Details of occupational health surveillance programme.
30. Action plan for post-project environmental monitoring.
31. At least 2.5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on locals need and item wise details along with time bound action plan should be included.
32. Total capital cost and recurring cost/annum for environmental pollution control measures should also be included.
33. 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.
34. Any litigation pending against the project and/or any direction/ order passed by any Court of Law against the project, if so, details thereof.
35. A tabular chart with index for point-wise compliance of above ToRs.



The Proponent shall inform the office of SEIAA the exact date of monitoring so that experts from SEIAA office could visit site of monitoring

These 'ToRs' should be considered for the preparation of EIA/EMP report. Relevant information as per the General Structure of EIA' Notification, 2006.

The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India/National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/Laboratories including their status of approvals etc. in this regard circular no. B No J-11013/77/2004-IA II(I) dated 2<sup>nd</sup> December, 2009 available on the Ministry's Website <http://www.moef.nic.in> may be referred.

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## **Annexure:- V**

### **Environment Clearance condition for Construction Projects**

#### **PART A – GENERAL CONDITIONS**

##### **I. Pre- Construction Phase**

- i. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel (kerosene/gas) for cooking, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after completion of the project.
- ii. Provision of drinking water, waste water disposal, solid wastes management and primary health facilities shall be ensured for labour force. Proper sanitation facilities shall be provided at the construction site to prevent health related problems. Domestic as well as sanitary wastes from construction camps shall be cleared regularly.
- iii. Adequate safety measures shall be adopted for the construction workers.
- iv. All the labourers to be engaged for construction works shall be screened for health and adequately treated before issue of work permits. The contractor shall ensure periodic health check-up of construction workers.
- v. Fencing of the project boundary before start of construction activities.
- vi. Use of energy efficient construction materials shall be ensured to achieve the desired thermal comfort.
- vii. Use of fly ash based bricks/blocks/tiles/products shall be explored to the maximum extent possible.
- viii. Lay out of proposed buildings and roads within premises etc. shall be made in such a way that it shall cause minimum disturbance to existing flora and fauna. Appropriate green belt shall developed to compensate the habitat loss of tree cutting (if any) from competent authority as per prevailing Act/Rules. The exotic species existing within the existing premises, if any, shall be protected. The greening programme shall include planation of both exotic and indigenous species.
- ix. Dedicated pedestrian paths shall be provided along the proposed Buildings. Appropriate access shall be provided for physically challenged people in the Pedestrian Paths.
- x. The design of service roads and the entry and exit from the buildings shall conform to the norms & standards prescribed by the State Public Works Department.
- xi. The road system shall have the road cross sections for general traffic, exclusive ways for public mass transport (bus) system, pedestrian paths and ways, utility corridors and green strip.
- xii. Topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site. Balance top soil should be disposed at in planned manner for use else where Adequate erosion and sediment control measures to be adopted before ensuing construction activities.

- xiii. Prior permission should be obtained from the competent authority for demolition of the existing structure, if any. Waste recycling plans including top soil should be developed prior to beginning of demolition and construction activity. The plans should identify wastes to be generated and designate handling, recycling and disposal method to be followed.
- xiv. Disposal of muck including excavated material during construction phase should not create any adverse effects in the neighborhood and the same shall be disposed of taking the necessary precautions for general safety and health aspects.
- xv. The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which should 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 seen on the website of the 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 this Ministry at Bhubaneswar.
- xvi. Risk assessment study along with Disaster Management Plan (DMP) shall be prepared. The mitigate measures for disaster prevention and control shall be prepared and get approval from competent authority. All other statutory clearances/licenses/permissions from concerned State Governments Departments, Boards and Corporations shall be obtained for directions issued by Central Government/State Government, Central Pollution Control Board/Bihar State Pollution Control Board.
- xvii. Baseline Environmental Condition of Project area i.e. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples should be conducted and report should be submitted to State Environment Impact Assessment Authority (SEIAA), Bihar and Bihar State Pollution Control Board (BSPCB), Patna prior to start of construction activities.

## **II. Construction Phase**

- i. It shall be ensured that the construction debris is properly stored on the site prior to disposal. Such requirements shall be made part of the contractor agreement.
- ii. All the top soil excavated during construction activities shall be stored for use in horticulture/landscape development within the project site. Proper erosion control and sediment control measures shall be adopted.
- iii. Earth material generated from excavation shall be reused to the maximum possible extent as filling material during site development. The construction debris and surplus excavated material shall be disposed off by mechanical transport through the Patna Municipal Corporation.
- iv. Disposal of muck, including excavated material during construction phase, shall not create any adverse effects on the neighbouring communities and shall be disposed off taking the necessary precautions for general safety and health aspects.



- v. Low Sulphur diesel generator sets should be used during construction phase. Diesel generator sets during construction phase shall have acoustic enclosures and shall conform to Environment (Protection) Rules, 1986 prescribed for noise emission standards.
- vi. All vehicles/equipment deployed during construction phase shall be ensured in good working condition and shall conform to applicable air and noise emission standards. These shall be operated only during non-peaking hours.
- vii. Ambient noise levels shall conform to the standards prescribed by MoEF, Govt. of India.
- viii. The protective equipment such as nose mask, earplugs etc. shall be provided to construction personnel exposed to high noise levels.
- ix. Construction spoils, including bituminous material and other hazardous materials including oil from construction equipment must not be allowed to contaminate soil/ground water. The dumpsites for such material must be secured so that they shall not leach into the ground water.
- x. Proper and prior planning, sequencing and scheduling of all major construction activities shall be done. Construction material shall be stored in covered sheds. Truck carrying soil, sand and other construction materials shall be duly covered to prevent spilling and dust emission. Adequate dust suppression measures shall be undertaken to control fugitive dust emission. Regular water sprinkling for dust suppression shall be ensured.
- xi. Use of Ready-Mix concrete is recommended for the project.
- xii. Accumulation/stagnation of water shall be avoided ensuring vector control.
- xiii. Regular supervision of the above and other measures shall be in place all through the construction phase so as to avoid disturbance to the surroundings.
- xiv. Water during construction phase should be preferred from Municipal supply.
- xv. All directions of the Airport Authority, Director of Explosives and Fire Department etc. shall be complied.
- xvi. Unskilled construction labourers shall be recruited from the local areas.
- xvii. Provisions shall be made for the integration of solar water heating system.
- xviii. Provision of vermin-composting for the biodegradable solid wastes generated from the proposed extension buildings as well as the large amount of biomass that shall be available from the tree plantation shall be made.
- xix. Monitoring of ground water table and quality once in three months shall be carried out. Construction of tube wells, bore wells shall be strictly regulated.
- xx. Permeable (porous) paving in the parking areas, and walkways should be used to control surface runoff by allowing storm water to infiltrate the soil and return to ground water.
- xxi. All intersections shall be designed and developed as roundabouts.
- xxii. 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.

- xxiii. The road drainage shall be designed to enable quick runoff of surface water and prevent water logging.
- xxiv. Adequate provision shall be made to cater the parking needs. Parking spaces standards as given in "Manual on Norms and Standards for Environmental Clearance of Large Construction Projects" issued by Ministry of Environment and Forests, Government of India shall be adopted.
- xxv. Rest room facilities shall be provided for service population.
- xxvi. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, should be conducted and report should be submitted on monthly basis to SEIAA, Bihar & BSPCB, Patna.

#### **Water Body Conservation :-**

- i. Water body falling within premises (if any) shall not be lined or no embankment shall be cemented. The water bodies, if any, shall be kept in natural conditions without disturbing the ecological habitat.
- ii. Improvement or rehabilitation of existing nallas (if any) shall be carried out without disturbing the ecological habitat.

#### **III. Post Construction/Operation Phase**

- i. The environmental safeguards and mitigation measures contained in the application shall be implemented in letter and spirit.
- ii. All the conditions, liabilities and legal provisions contained in the Environmental Clearance shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity. Ground water shall not be abstracted without prior permission from the competent authority.
- iii. The storm water management plan shall be implemented in such a manner that the storm water is discharged through an existing dedicated Storm Water Outfall only.
- iv. The height of the stack of the DG sets should be as per norms of CPCB.
- v. Medical (First-Aid) facility must be provided for visitors & employees. Para-medical staff should be attached as Medical facility provider.
- vi. Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of trees shall be completed in the construction stage. The plantations shall consist of mixture of available indigenous, fast growing and sturdy species of trees, shrubs and herbs. Preferential plantation of flowering trees with less timber and fruits value shall be carried out.
- vii. Two chambered container or two separate containers (one for recyclable wastes and other for all organic and compostable wastes) shall be placed at appropriate distance on the roadsides and inside the building. Covered dustbins/garbage



- collector in convenient places to collect the Municipal solid wastes shall be provided.
- viii. Proper composting / vermi-composting of municipal solid wastes shall be carried out. All municipal solid wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Municipal Solid Wastes (Management and Handling) Rules, 2000 (As amended).
  - ix. The use of hand gloves, shoes and safety dress for all waste collectors and sorters shall be enforced.

#### **IV. Entire Life of the Project**

- i. The project proponent should implement Environmental Monitoring Programme as per details submitted in EMP.
- ii. No expansion/modification activity should be carried out obtaining prior Environmental Clearance as per EIA Notification 2006/
- iii. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stock Emissions & Testing of Effluent from DG sets should be conducted and report should be submitted on monthly basis to SEIAA, Bihar & BSPCB, Patna.

#### **PART B- SPECIFIC CONDITIONS**

##### **I. Pre-Construction Phase**

- i. Project Proponent should obtain prior consent to establish (NOC) under Section 25 & 26 of the Water (Prevention & Control of Pollution) Act' 1974 and under Section 21 of the Air (Prevention & Control of Pollution) Act' 1981 from State Pollution Control Board before start of construction activities.
- ii. Project Proponent should obtain prior permission for ground water withdrawal from CCWA/CGWB if applicable.
- iii. Construction shall conform to the requirements of local seismic regulations. The project proponent shall obtain permission for the plans and designs including structural design, standards and specifications of all construction work from concerned authority.
- iv. Use of energy efficient construction materials to achieve the desired thermal comfort shall be incorporated. The desired level of roof assembling "U" factor and insulation "R" value must be achieved. Roof assembling "U" factor for the top roof shall not exceed 0.4 watt/m<sup>2</sup> /degree centigrade with appropriate modifications of specifications and building technologies. The provisions of National Building Code 2005 shall be strictly followed.
- v. Street/Corridor lighting shall be energy efficient. The High Pressure Sodium Vapour (HPSV) Lamps & Compact Fluorescent Lamps (CFL) along Building premises shall be provided. High intensity, high mast lights to be installed at few strategic points. Solar energy may be used for outdoor lighting.



- vi. Reduction of hard paving-onsite (Open area surrounding all buildings) and/or provision of shades on hard paved surfaces to minimize heat island effect and imperviousness of the site should be undertaken.
- vii. All proposed air/conditioned buildings should follow the norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency.
- viii. Monitoring of AAQ as per NAAQs 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG sets should be conducted, and reports should be submitted on monthly basis to SPCB.

## **II. Construction Phase**

- i. All the conditions laid down in NOC issued by SPCB should be strictly complied with during entire construction cycle of the Project.
- ii. The water treatment plant shall be provided for treatment of water. The treatment shall include screening, sedimentation, filtration and disinfections. Appropriate arrangement shall be made for treatment and reuse of backwash water of filtration plant.
- iii. Project proponent shall provide adequate measuring arrangement at the inlet point of water uptake and at the discharge point for the measurement of water utilized in different categories and monitoring daily water consumption.
- iv. Regular water sprinkling shall be done all around the site to minimize fugitive dust emission during construction activities.
- v. Rain water harvesting structures should be provided as per submitted Plan.

## **III. Post Construction/Operation Phase**

- i. Project Proponent should obtain prior consent to operate under Air Act, 1981 & Water Act, 1974 from State Pollution Control Board before commissioning of the project.
- ii. Water saving practices such as usage of water saving devices/fixtures, low flushing systems, sensor based fixtures, auto control walls, pressure reducing devices etc. should be adopted.
- iii. Water budget should be adopted as per the plan submitted in the supplementary Form I A & EMP.
- iv. All the generated domestic effluent should be sent to ETP/STP for treatment & further recycling & reuse.
- v. Treated water recovered from STP would be used for flushing the toilets, gardening purpose, make up water in air conditioning systems, etc. As proposed, Fluidized Bed Reactor (FBR) type sewage treatment plant should be installed. The Sewage Treatment Plant shall be ensured before the completion of Building Complex.
- vi. Rainwater from open spaces shall be collected and reused for landscaping and other purposes. Rooftop rainwater harvesting shall be adopted for the proposed Buildings. Every building of proposed extension project shall have rainwater-

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- harvesting facilities. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter and oil and grease.
- vii. Municipal solid wastes generated in the proposed extension buildings shall be managed and handled in accordance with the compliance criteria and procedure laid down in Schedule- II of the Municipal Wastes (Management and handling) Rules, 2000 (As amended).
  - viii. The standard for composting & treated leachates as mentioned in Schedule-IV of the Municipal Wastes (Management and handling) Rules, 2000 (As amended) shall be followed.
  - ix. All hazardous wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Hazardous Wastes (Management and Handling) Rules, 1989 (As amended).
  - x. Recycling of all recyclable wastes such as newspaper, aluminium cans, glass bottles, iron scrap and plastics etc. shall be encouraged through private participation. Project proponent shall take appropriate action to ensure minimum utilization of plastic carry bags and plastic small containers etc. within the proposed buildings shall be ensured.
  - xi. Project proponent shall operate and maintain the sewage collection/conveyance system, sewage pumping system and sewage treatment system regularly to ensure the treated water quality within the standards prescribed by Ministry of Environment and Forests, Government of India.
  - xii. Properly treated and disinfected (Ultra Violet Treatment) sewage shall be utilized in flushing the toilets, gardening purpose, make up water in air conditioning systems etc.
  - xiii. Non-mixing of faecal matter with the municipal solid wastes shall be strictly ensured.
  - xiv. Non-mixing of sewage/sludge with rainwater shall be strictly ensured.
  - xv. Noise barriers shall be provided at appropriate locations so as to ensure that the noise levels do not exceed the prescribed standards. D.G. sets shall be provided with necessary acoustic enclosures as per Central Pollution Control Board norms.
  - xvi. Back up supply shall be based on natural Gas/cleaner fuel subject to their availability.
  - xvii. The project proponent shall resort to solar energy at least for street lighting and water heating for Proposed Building Complex, gardens/park areas.
  - xviii. During maintenance, energy efficient electric light fittings & lamps- low power ballasts, low consumption high power luminaries, lux level limiters & timers for street lighting shall be provided.
  - xix. A report on the energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, "R" and "U" factors etc.
  - xx. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG sets & Testing of Untreated & treated effluent samples of STPs should be conducted and report should be submitted on monthly basis to SPCB.



#### IV. Entire Life of the Project

- i. All the conditions laid down in NOC & consent to operate issued by SPCB should be strictly complied with during entire life cycle of the project.
- ii. Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG Sets & Testing of Untreated & treated effluent samples of STPs should be conducted and reports should be submitted on monthly basis to SPCB.
- iii. The project authorities shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPC rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- iv. The overall noise levels in and around the project 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 should conform to the standards prescribed under EPA Rules 1989 viz. 75 DBA (day time) and 70 DBA (night time).
- v. The project authorities shall provide requisite funds for both recurring and non-recurring expenditure to implement the conditions stipulated by SEIAA, Bihar with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- vi. Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of trees shall be completed in the construction stage. The plantations shall consist of mixture of available indigenous, fast growing and sturdy species of trees, shrubs. 33% of the total plot area shall be used for plantations.
- vii. Whenever developer will hand over building to the society, the developer must mention in the agreement or sale deed that 33% green belt area of total plot area should mentioned & Environmental Conditions given by SEIAA, Bihar has to be complied.
- viii. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad/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 proponent.
- ix. The funds earmarked for the environmental protection measures shall not be diverted for other purposes.
- x. In case of any changes in the scope of the project, the project shall require a fresh appraisal by the SEAC/SEIAA.
- xi. The SEAC/SEIAA Bihar will have the right to amend the above conditions and add additional safeguard measures subsequently, if found necessary, and to take action

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including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

- xii. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal (NGT), 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:- VI**

### **Environment Clearance condition for Stone Mining Projects**

#### **A. Specific Conditions**

1. Prior to stone mining, the proponent shall get the vibration studies of blasting (Zone of influence) done by a recognized Institute e.g. Indian Institute of Mines (ISM), 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. Rehabilitation of villages, if any, has to be done at the Proponent's cost.
3. The project proponent shall adopt best mining practice. In the mining area, adequate numbers of check dams, retaining walls, garland drains and setting ponds should be provided to arrest the wash-off with rain water in catchment area.
4. 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.
5. The Proponent must ensure that villagers nearby get good sleep at night (noise levels should be within prescribed limit).
6. The Project proponent should not disturb the grazing ground for cattle.
7. 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.
8. The Project proponent shall ensure that the productivity of the agricultural crops is not affected due to mining operations.
9. Transportation of the minerals by road passing through the village shall be allowed rather by pass road should be constructed. The proponent shall bear the cost towards widening and strengthening the existing public road network in case the same is used for the project.
10. As CSR activities, the mining establishment shall spend up 2.5 % of their financial turn over.
11. The environmental clearance is subject to grant of mining lease by the Department of Mines, Government of Bihar to PP and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
12. 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.
13. 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 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.

14. 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.
15. 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.
16. 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.
17. 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.
18. Greenbelt shall be developed all along the mine lease area. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. Plantation should be completed within 3 Years.
19. Toilet for BPL family must be provided and facilities of drinking water for villagers for its established of a tank for drinking water.
20. 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.
21. 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.
22. 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.



23. 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.
24. Drills shall either be operated with the dust extractors or equipped with water injection system.
25. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
26. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
27. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
28. 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.
29. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
30. The proponent shall submit mining closure plan to SEIAA Bihar, before the start of mining, failing which Environment Clearance shall be revoked.
31. 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.

## **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 make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.

4. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
5. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
6. 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.
7. 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.
8. 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.
9. Dispensary facilities for First Aid shall be provided at site.
10. 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 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. 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. 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.

3. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
4. 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.
5. 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 Trans 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.
6. 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.

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## **Annexure:- VII**

### **Environmental Clearance Condition for Recommended Sand Mining Projects**

#### **A. Specific Conditions**

1. The Environmental clearance is subject to grant of Mining Lease and will be co-terminus with the mining lease period.
2. The mining work will be open-cast and exclusively manual. No mechanical work or drilling / blasting should be involved at any stage.
3. It shall be ensured that there shall be no mining beyond 03 m or upto water level whichever is less further meaning thereby that no mining activity in ruining/stagnant water in the River in the issue of Sand Mining. The Distance from the bank of the river shall be as per the Bihar Minor Mineral and concession Rule (2014) and amendment thereof.
4. The project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed.
5. The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard clearly showing the no work zone in the mine lease i.e. the distance from the bank of river to be left un-worked (Non mining area).
6. The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area shall not be affected.
7. The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
8. Solid waste material viz, plastic bags, glasses etc. to be generated during project activity will be separately stored in bins and managed as per Solid Waste Management rules.
9. Natural /customary paths used by villagers should not be obstructed at any time by the activities proposed under the project.
10. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.

12. 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.
13. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
14. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
15. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna as prescribed the Wildlife (protection) Act.1972
16. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
17. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the SEIAA, Bihar & Bihar State Pollution Control Board, Patna and to concerned DMO in prior of final mine closure for approval.
18. 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.
19. The depth of mining in river-bed shall not exceed three meter or water level, whichever is less, provided that where the Joint Inspection Committee certifies about excessive deposit or over accumulation of mineral in certain reaches requiring channelization, it can be as specified by the Committee, on defined reaches of the river.
20. No river sand mining be allowed in rainy season (July, August, and September).
21. To submit 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. In river flood plain mining, a buffer of 3 meter be left from the river bank for mining.
23. In mining from agricultural field, a buffer of 3 meter be left from the adjacent field.
24. Mining shall be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.
25. No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations
26. No labour camp be allowed in riverbed.
27. Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the SEIAA, Bihar.
28. The top soil in case of surface mining shall be stored temporarily in an earmarked site and concurrently used for land reclamation.



29. Lease shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This should be produced before officers of Central Government and State for inspection.
30. Noise arising out of mining and processing shall be abated and controlled at source to keep within permissible limit.
31. The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly.
32. Air Pollution due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under environmental laws.
33. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Wheel washing facility should be installed and used.
34. The aesthetics of the site shall be maintained.
35. Restoration of flora affected by mining should be done immediately. Twice the number of trees destroyed by mining be planted preferably of indigenous species.
36. No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made thereunder.
37. Protection of spring sources should be ensured.
38. Attempt should be there to restrict activities to cause minimum surface soil disturbance.
39. Adequate steps to check soil erosion and control debris flow etc. by constructing engineering structures should be ensured.
40. Site clearance and tidiness shall be maintained.
41. The proponent shall take all possible precautions for the protection of environment and control of pollution.
42. Junction at takeoff 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.
43. Health and safety of workers should be taken care of.
44. Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers shall be adopted.
45. The Distance from N.H, Railway line, Reservoir, Bridge shall be adopted as per Bihar Minor Mineral and concession Rule (2014) and amendment thereof.
46. The proponent shall not conduct sand mining where mining can cause danger to site of flood protection works, places of cultural, religious, historical, and archeological importance.



47. Vehicles only with fitness and PUC Certificates should be used.
48. Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.
49. No stacking of sand is allowed on road side along national highways.
50. Restoration, reclamation and rehabilitation in cluster should be done systematically EC by the proponent.
51. Site specific plan with eco-restoration should be in place and implemented.
52. The PP shall make arrangement for drinking water, first aid facility.
53. Adequate steps should be taken to check soil erosion and control debris flow etc. by constructing engineering structures.
54. Proponent will provide adequate sanitary facility in the form of mobile toilets to the labours engaged for the project work.
55. Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and washing of all transport vehicles should be done inside the mining lease.
56. The Proposed route for transportation should not pass through private land. But in case is passes permission from private land owner obtained.

#### **B. General conditions**

1. Any change in mining area Plot / Khata numbers, entailing capacity addition with change in process and or mining technology modernization and scope of working shall again require prior Environmental Clearance as per the provisions of EIA Notification, 2006 (as amended), MoEF&CC guidelines and Supreme Court judgment on the subject.
2. The Different Geo-Coordinate is given as per approved Mining Plan approved by Mining Deptt., Govt. of Bihar.
3. It shall be ensured that standards related to ambient air quality/effluent as prescribed by the Ministry of Environment & Forests are strictly complied with. Water sprinklers and other dust control majors should be applied to take-care of dust generated during mining operation, Sprinkling of water on haul roads to control dust will be ensured by the project proponent.
4. All necessary statutory clearances shall be obtained before start of mining operations. If this condition is violated, the clearance shall be automatically deemed to have been cancelled.
5. Parking of vehicles should not be made on public places.
6. No tree-felling will be done in the leased area, except only with the permission of Forest Department.
7. No wildlife habitat will be infringed.

8. It shall be ensured that excavation of minor mineral does not disturb or change the underlying soil characteristics of the river bed / basin, where, mining is carried out.
9. It shall be ensured that mining operation will not in any way disturb the, velocity and flow pattern of the river water significantly.
10. Adequate protection against dust and other environmental pollution due to mining shall be made so that the habitations (if any) close by the lease area are not adversely affected. The status of implementation of measures taken shall be reported to the RO, BSPCB and SEIAA and this activity should be completed before the start of sand mining.
11. Need-based assessment for the nearby villages shall be conducted to study economic measures which can help in improving the quality of life of economically weaker section of society. Income generating projects / tools such as development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such program me. The project proponent shall provide separate budget for community development activities and income generating programmes.
12. Green cover development shall be carried out following CPCB guidelines including selection of plant species and in consultation with the local DFO / Horticulture Officer.
13. Transportation of materials shall be done by covering the trucks / tractors with tarpaulin or other suitable mechanism to avoid fugitive emissions and spillage of mineral/dust.
14. Special Measures shall be adopted to protect the nearby settlements from the impacts of mining activities, Maintenance of Village roads through which transportation of minerals is to be undertaken, shall be carried out by the project proponent regularly at his own expenses.
15. Measures for prevention & control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion, if any, shall be carried out with geo textile matting or other suitable material.
16. The project proponent shall obtain necessary prior permission of the competent Authorities for withdrawal of requisite quantity of water (surface water and groundwater), required for the project.
17. Safety measures to be taken for the safety of the people working at the mine lease area should be given, which would also include measure for treatment of bite of poisonous reptile / insect like snake. Periodical and Annual medical checkup of workers as per Mines Act and they should be covered under ESI as per rule.
18. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
19. The Project proponent shall maintain register for production and dispatch and submit return to the SEIAA, Bihar & B.S.P.C.B, Patna.
20. Measures should be taken for control of noise levels below prescribed norms in the work environment.
21. 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.

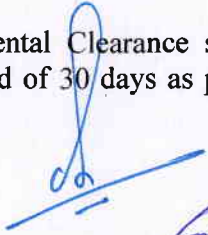

22. Dispensary facilities for First Aid shall be provided at site.
23. Social Corporate Responsibility (SCR) plan along with budgetary provision amounting to 2.5 % of total project cost shall be submitted within three months on need base assessment study in the study area. Income generating measures which can help in up-liftment of weaker section of society consistent with the traditional skills of the people identified. The programme can include activities such as drinking water arrangements in villages, arrangement for toilets, development of fodder farm, fruit bearing orchards, vocational training etc. In addition, vocational training for individuals shall be imparted so that poor section of society can take up self-employment and jobs. Separate budget for community development activities & income generating programmes shall be specified.
24. SEIAA, Bihar, The Bihar State Pollution Control Board, Patna directly or through its Regional Office, 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.
25. 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 by e-mail) to the SEIAA, Bihar & Bihar State Pollution Control Board, Patna and to its concerned Regional Office.
26. All statutory clearances shall be obtained before start of mining operations.
27. The Mines commissioner cum Principal Secretary, Government of Bihar through respective officers at the district level shall ensure the implementation of the stipulated environmental condition mention above.

### **C. Other points**

7. 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 or for that matter for any other Administrative reason.
8. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
9. 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.
10. 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 Transboundary 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.



11. 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.

✓ Ushu J.B.  Sd/ 

## **Annexure:- VIII**

### **Term of Reference (ToR) Recommended for Sand Mining Projects**

#### **Executive Summary of the project.**

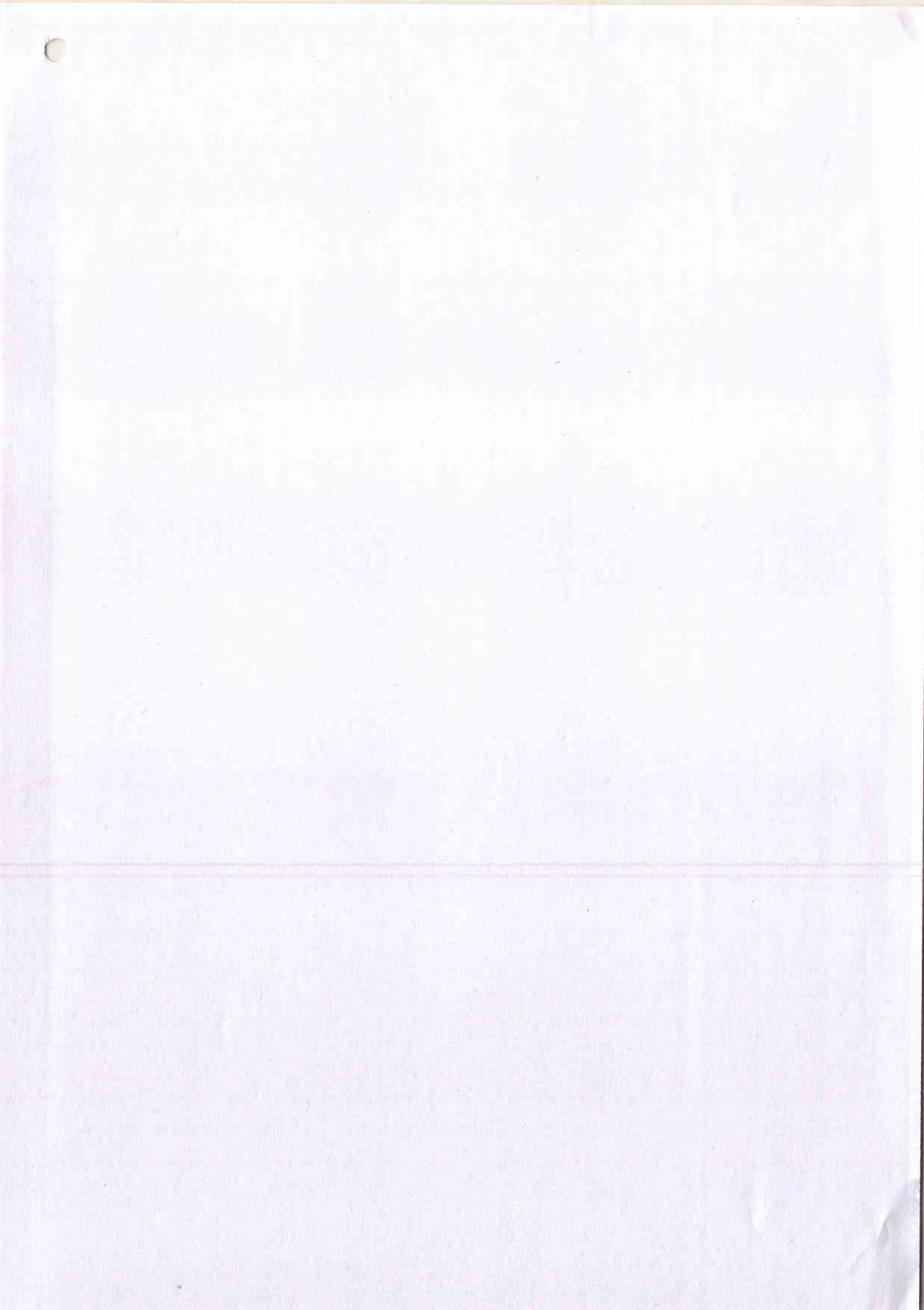
1. A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be included in the EIA Report.
2. All documents including approved mine plan, EIA and public hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management and mining technology and should be in the name of the lessee.
3. Khata No. & Plot No. to be provided in this EIA/EMP.
4. All corner coordinates of the mine lease area superimposed on High Resolution Imagery / toposheet should be provided. All Balughats falling under the panchayat have to be indicated in one map and distance between there should be clearly marked. In case some total of Area of Balughats falling within 1 Km of each other exceeds 50 Ha then the cluster will fall under 'A' category. This has to be clearly shown in the map and confirmed.
5. Does the Environment Policy prescribe for standard operating process/procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
6. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
7. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.
8. The terms and conditions imposed, if any, by the Competent Authority in the State Government while granting mining lease should be built into the mine plan as well as the EIA report. It may inter-alia include; area of working, mode of working, working shift, transportation of mineral etc.
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 and national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated.

11. Land use plan of the mine lease area should be prepared to encompass Pre-operational, operational and post operational phases and submitted.
12. Details of the land for Sand storage the mine lease such as extent of land area, distance from mine lease, its land use, R&R issues, if any should be given.
13. High Resolution Satellite Imagery of the proposed area clearly showing the land use and other ecological features of the study area (core and buffer zone) should be furnished.
14. Points made in Supreme Court order dated 27-02-2012 are to be considered while preparing EIA/EMP Report also Guidelines of SEIAA, Bihar and MoEF&CC circulars / guidelines issued from time to time are to be given due consideration while preparing EIA/EMP Report.
15. The Project Proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the worker engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
16. Hydro – geological study shall be carried out by reputed organization / institute and establish that mining in the said area will not adversely affect the ground water regime.
17. Mining plan has to be prepared keeping in view the applicable guidelines including distances from nearby structures like bridge, intake well, etc. Sectional plan is to be shown.
18. Existence of Breeding ground of species like Hill Stream Fishes, Turtles, Mastacembelid Fish, Gastropods, Bivalves etc. if any the vicinity and in the Mining area is to be prepared / obtained and confirmed from DFO. In case if Breeding ground is not there, then a certificate of no occurring has to be obtained from DFO and incorporated in the EIA/EMP Report.
19. Width of the river on which all these Ghats with authentic backup data / information.
20. 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, or otherwise, based on land use classification (revenue record) as also in terms of the definition of forest as pronounced in the judgment of the Hon'ble Supreme Court of India in the matter of T.N. Godavarman Vs. Union of India. In the event of any 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.



21. 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). A copy of the forestry clearance should also be furnished.
22. Implementation of status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
23. 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.
24. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, 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, if any, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above should be obtained from the State Wildlife Department/Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished. In case, there is no such Eco-sensitive area within 10 km, the boundary of the nearest Eco-sensitive area with its distance shall be marked in a drawing and included in EIA / EMP Report.
25. A detailed biological study for 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, duly authenticated, separately for core and buffer zone should be furnished based on 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 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.
26. Impact, if any, of change of land use should be given.
27. R&R plan / compensation details for the project affected people should be furnished. While preparing the R&R plan, the Bihar State and National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs / STs and other weaker sections, need based sample survey, family-wise, should be undertaken to assess their requirement and action programmes prepared accordingly integrating the sectoral programme of line departments of the State Government.
28. Collection of one season (non-monsoon) primary baseline data on ambient air quality, water quality, noise level, soil and flora and fauna. Site-specific meteorological data should also be collected. The location of the monitoring stations should be justified. Date wise collected baseline AAQ data should form part of EIA and EMP report. The mineralogical composition of RSPM/SPM particularly for free silica should be given. 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.

29. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should 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.
30. The water requirement for the project, its availability and source to be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should be indicated.
31. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
32. Details of water conservation measures proposed to be adopted in the project should be given.
33. Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand / Central Ground Water Board.
34. Quantity of solid waste generation to be estimated and details for its disposal and management should be provided. The quantity, volumes and methodology planned for removal and utilization (preferably concurrently) of top soil should be indicated.
35. 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 increased load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.
36. Details of the infrastructure facilities to be provided for the mine workers should be included in the EIA report.
37. Phase-wise plan of greenbelt development, 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.
38. Occupational health impact of project should be anticipated and preventive measures initiated. Details in this regard should be provided. Details of pre placement medical examination and periodical medical examination schedules should be incorporated in the EMP.
39. Public health implication 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 allocation.





40. Measures of socio economic significance and influence to the local community proposed to be provided by project proponent should be indicated. As far as possible, quantitative dimensions may be given with time frame for implementation.
41. Detailed environmental management plan to mitigate the environmental impacts which, should inter-alia also include the impact due to change of land use, due to loss of agricultural land and grazing land, if any, occupational health impacts besides other impacts of the projects.
42. Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
43. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be included. Socio-economic development activities need to be elaborated upon.
44. Total capital cost and recurring cost/annum for environmental pollution control measures should also be included.
45. Details of litigation pending against the project, if any, with direction / order passed by any Court of Law against the project should be given.
46. Public hearing.  
The following general points should be noted:
  - I. Properly indexed, page numbered.
  - II. Period/date of data collection should be clearly indicated. (non-monsoon)
  - III. Authenticated English translation of all material in Regional languages should be provided.
  - IV. The letter/application for environmental clearance should quote the SEIAA, Bihar file No. and also attach a copy of the letter.
  - V. Site related monitoring shall be carried out for 3 months in one season (non monsoon).
  - VI. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report
  - VII. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.

The consultants involved in the preparation of EIA / EMP report after accreditation with Quality Council of India (QCI) / National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA /EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc.

47. The Proponent shall inform the office of SEIAA the exact date of monitoring so that experts from SEIAA office could visit site of monitoring.

Handwritten signatures and initials in blue ink, including "V.H.", "J.B.", "A", "G.S.", and a large stylized signature.