

STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC)

Ref. No- **69/SEDA/17.**

Patna- 23, Date- **23/06/17.**

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 17.06.2017 & 18.06.2017 in Meeting Hall of State Environment Impact Assessment Authority, 2nd Floor, Beltron Bhawan, Shastri Nagar, Patna - 23**

Sir,

Please find enclosed Proceedings of State Expert Appraisal Committee which was held on 17th & 18th June, 2017 for your perusal.

Sincerely Yours

(Alok Kumar)

Secretary, SEAC

Proceedings of the State Level Expert Appraisal Committee (SEAC) dated 17th & 18th June, 2017

A meeting of State level Expert Appraisal Committee (SEAC) was held in the Meeting Hall of State Environment Impact Assessment Authority, 2nd Floor, Beltron Bhawan, Shastri Nagar, Patna- 23 on 17th & 18th June, 2017.

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

1. Dr. Ashok Kumar Ghosh, Chairman, SEAC
2. Shri Alok Kumar, Secretary SEAC
3. Dr. Nityanand Singh, Maurya, Member, SEAC
4. Shri Vijay Kumar Sinha, Member, SEAC
5. Dr. Nupur Bose, Member, SEAC

The proceeding of the last meeting of SEAC dated 26th May, 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. **"AAKRITT'S THE NEST" Residential Building Project by "M/s Aakirti Buildcon Pvt. Ltd." Village:- Jalalpur, Tehsil:- Danapur-cum-Khagaul, District:- Patna, State:- Bihar, (Proposal No. - SIA/8(a)/447/17) Online Proposal No.:- SIA/BR/MIS/62631/2017).**

Project Site is located at Mauza – Jalalpur, MohallaAbhimanyu Nagar, Thana – Rupaspur, Thana No.:- 22, Khata No.:- 178, 180, Survey Plot No.:- 349 (P), 356 (P). The Project is under consideration for the construction of 1 No. of Residential Building (B+G+10). Total nos. of residential flats will be 120, Total Plot area – 6,318.65 M². and Total Built up area:- 21,629.20 M².

In the earlier SEAC meeting, dated 24th March, 2017, the committee had directed to submit revised CSR Plan and Green- Belt Plan. It was also advised that CSR activity of the Project Proponent should be measurable and quantifiable, and it should be visible even after the completion of the project. The Project Proponent was also directed to deposit 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, from a nationalized bank, pledged in the name of SEIAA, Bihar, Patna as has been decided in the Joint meeting of SEIAA & SEAC dated 23rd March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities.



The proponent has submitted revised CSR Plan, Green- Belt plan and undertaking regarding no construction work ongoing on the project site. The proponent has also agreed to submit the bank guarantee. The proponent also agreed to install Wind Augmentation and Air Purifying Unit (4 Units at one location in Patna) on Pilot basis to deal with particulate matter pollution. The committee after due consideration and discussion, recommended the Environmental Clearance (as Annexure – I)

2. **SANCHAR NAGAR, PHASE - I A Group Housing Project, Village:- Adampur & Lakhni Bigha, Tehsil:- Danapur Block, District:- Patna, State:- Bihar, Area:- 9.02 Acres, Total Plot Area:- 36,533.37 M², Total Built-up Area - 91,327.42 M², (Proposal No. - SIA/8(a)/456/17) Online Proposal No.:- SIA/BR/MIS/63453/2017).**

The proposed Group Housing Project will be spread over an area of 9.02 acres (36,533.37 M²), which comprises of Floors for residential purposes having total built-up area 91,327.42 M² and total plot area 36,533.37 M². The proposal was submitted on dated 13th April, 2017.

In the earlier SEAC meeting dated 26th May, 2017 the committee observed that the map of green belt area is less than 33% of the total plot area. Scales shown on the map is also misleading. The Committee also directed to submit an affidavit regarding no construction work started at site from project proponent.

The proponent has submitted revised green belt area being 33 % of the total plot area, with revised scale shown on the map, CSR Plan, and undertaking regarding no construction work ongoing on the project site. The Project Proponent agreed to give 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar, Patna. The proponent also agreed to install Wind Augmentation and Air Purifying Unit (4 Units at one location in Patna) on Pilot basis to deal with particulate matter pollution. The committee after due consideration and discussion, recommended the Environmental Clearance (as Annexure – I)

3. **Common Bio-Medical Waste Treatment Facility, Village:- Karai, Tehsil:- Bikram, District:- Patna, State:- Bihar (Proposal No. - SIA/7(da)/458/17) Online Proposal No.:-SIA/BR/MIS/18952/2017.**

The Proponent presented the proposal before the committee. As per the guidelines of Central Pollution Control Board (C.P.C.B.), not everyone can be allowed to set up such a facility. It was decided to request SEIAA to refer this matter to Bihar State Pollution Control Board (BSPCB). So, Deferred for now.

4. **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 M² and Total Built up area is 24,121.00 M².

In earlier SEAC meeting dated 26th May, 2017 the committee directed the project proponent to submit an affidavit regarding no construction work at the site from the project proponent and a revised report on the green cover of the Project i.e. 33% green cover area.

The proponent Placed before the committee revised plan with green belt area being 16.79% of the total plot area (as per SEIAA Letter No. 65/SEIAA/17 Dated 13th June, 2017 addressed to SEAC exception has been made in case of building construction projects for acceptance upto 15% green cover area of the total plot area). The Proponent also submitted CSR Plan, and undertaking regarding no construction work ongoing on the project site. The Project Proponent agreed to give 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar, Patna. The committee after due consideration and discussion, recommended the Environmental Clearance (as Annexure – I)

5. Proposed Inter State Bus Terminal (ISBT) at Khata No. 660, 662, 100, 336, 313, Plot No. 1348, 1349, 1400, 1416, Mauza – Pahari (Patna - Gaya Road) District:- Patna, State-Bihar. (Proposal No.:- SIA/8(a)/462/17) Online Proposal No.:- SIA/BR/NCP/64798/2017).

Bihar Urban Infrastructure Development Corporation Limited (BUIDCO) has proposed a modern Inter State Bus Terminal (ISBT) at Khata No. 660, 662, 100, 336, 313, Plot No. 1348, 1349, 1400, 1416, Mauza – Pahari (Patna - Gaya Road) District:- Patna, State-Bihar in order to address the high urbanization trend, rapidly growing Urban Transport related issue witnessed in Patna of State Bihar. Proposed bus terminal would mainly be a transit bus terminal for neighboring state – Uttar Pradesh, Jarkhand buses, potential bus trip/day ~ 3,000 and 1,50,000 footfalls per day.

Inter State Bus Terminal (ISBT), Patna has a plot area of 25.02 acres i.e. 1,01,252.35 M² (10.12 hectare). The built-up area is 82,809.98 M². Geographical location of the project is 25° 34' 33.94" N (Latitude) & 85° 11' 14.18" E (Longitude).

In earlier SEAC meeting dated 26th May, 2017 the committee directed the project proponent to submit a revised report including idle parking (Buffer zone) for parking area, revised green belt plan (i.e. minimum 33 % of the total plot area), total no of toilets - separate for gents and ladies, total no of chair in waiting hall, drinking water point, Solid waste management with maintenance cost, Sewerage treatment plant, preliminary medical facility and ambulance service. Project Proponent was also advised to submit an affidavit regarding no construction work on project site.

After the submission of the compliance letter, the Project Proponent agreed to give 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed

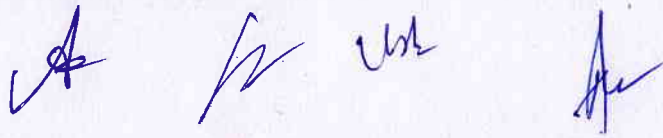
deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar, Patna. The proponent also agreed to install one continues Ambient Air Quality Monitoring Station within the premises and meet its Operation and maintenance requirements for 5 Years. After due consideration and discussion, the committee recommended the Environmental Clearance (as Annexure – I).

6. **"VENUS PARADISE" Residential Building Project By "M/s Venus Star Construction Pvt. Ltd", Village:- Ashopur, Tehsil:- Danapur-Cum-Khagaul, District:- Patna, State:- Bihar. (Proposal No.:- SIA/8(a)/464/17) Online Proposal No.:- SIA/BR/MIS/64655/2017).**

"VENUS PARADISE" Residential Building Project By "M/s Venus Star Construction Pvt. Ltd", Village:- Ashopur, Tehsil:- Danapur-Cum-Khagaul, District:- Patna, State:- Bihar. The project site is located at 1 Km away from Danapur Khagaul Road at Mauza Ashopur, Thana- Danapur, Tehsil- Danapur-cum-Khagaul, Thana No.:- 34, Tauzi No.:- 5065 (Old), 3077 (New), Khata No.:- 42, 73, 08, 19, 35, 42, 52, 36, 38, Survey Plot No.:- 392, 394, 380, 385, 387, 388, 389, 390, 391, 396, 395, 393 (P) of District – Patna, State – Bihar. The location of the site having 25° 35' 59.34" N (Latitude) & 85° 01' 58.35" E (Longitude). The total plot area of the project site is 7,821.22 M² and total built-up area of the project site is 28,742.98 M².

In earlier SEAC meeting dated 26th May, 2017 the committee directed the project proponent to submit an affidavit regarding no construction work at the site and a revised report on the green cover area of the Project (i.e. 33% of the total plot area).

After the submission of the compliance letter and CSR plan, the Project Proponent agreed to give 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar, Patna.. The proponent also agreed to install Wind Augmentation and Air Purifying Unit (4 Units at one location in Patna) on Pilot basis to deal with particulate matter pollution. The committee after due consideration and discussion, recommended the Environmental Clearance (as Annexure – I)



7. **Proposed Group Housing Project “The Great Ashoka City” at Thana no. 19, Mauza-Ranipur, Tehsil:- Patna, District:- Patna, State:- Bihar. (Proposal No.:- SIA/8(a)/465/17) Online Proposal No.:- SIA/BR/NCP/64874/2017).**

M/s Aparna Architect & Engicons Pvt. Ltd. has proposed to develop Group housing project “The Great Ashoka City” at Mauza-Ranipur, Tehsil:- Patna, District:- Patna, State:- Bihar of Thana No.:- 19, Khata No.:- 125, 262, 266, 513, 616, 1397, 537/1396, 608/1474, 556, 495, 528, 568, 608, 195/495, 573, 495, 493, 622, 558, 512, 586, 513, 534/580, 528, 516, 577, 622, 623, 602, 573, 502, 619, 486, 517, 1430, 517, 1262, 1251, 1241, 1395, 537/1396, 1407, 1401, 1402 and Plot No.:- 2644, 2692, 2674, 2645, 2693, 2668, 2654, 2669, 2665, 2655, 2667, 2656, 2666, 2756, 2658, 2664, 2659, 2676, 2662, 2660, 2675, 2733, 2661, 2677, 2734, 2678, 2754, 2679, 2758, 2682, 2757, 2681, 2766, 2684, 2770, 2540, 2769, 2539, 2768, 2536, 2767, 2537, 2670, 2538, 2671, 2686, 2672, 2683, 2673, 2680. The project is being develop on the total plot area of 46,327.7 M². The total built-up area is 1,49,737.04 M². The location of the site having 25° 35' 02.64" N (Latitude) & 85° 12' 57.47" E (Longitude).

In earlier SEAC meeting dated 26th May, 2017 the committee directed the project proponent to submit an affidavit regarding no construction work at the site form the project proponent and a revised report on the green cover area of the Project (i.e. 33% of the total plot area).

After the submission of the compliance letter and CSR plan, the Project Proponent also agreed to give 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar, Patna. The committee after due consideration and discussion, recommended the Environmental Clearance (as Annexure – I)

8. **Proposed Residential and Commercial Building “Devendra Green City” at Plot No. – 411, 412, 414, 415, 418, 419, 420, 421, 422, 423, Opposite Mahindra Commercial Vehicle Showroom, SH-01, Patna - Gaya road, District:- Patna, State: – Bihar. (Proposal No.:- SIA/8(a)/504/17) Online Proposal No.:- SIA/BR/NCP/65336/2017).**

Proposed Residential and Commercial Building “Devendra Green City” at Plot No. – 411, 412, 414, 415, 418, 419, 420, 421, 422, 423, Opposite Mahindra Commercial Vehicle Showroom, SH-01, Patna - Gaya road, District:- Patna, State: – Bihar. The project having Total Plot Area of 18,975.40 M² and Total Built-up Area of 66,233.44 M².

The Project Proponent & Consultant presented their proposal before the committee. The proponent also submitted CSR plan as per directed by the committee. The Project Proponent agreed to give 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar, Patna. After due consideration and discussion, the committee recommended the Environmental Clearance (as Annexure – I).

9. Common Bio-Medical Waste Treatment Facility at Bela Industrial area, Of district Muzaffarpur, State:- Bihar. (Proposal No.:- SIA/7(da)/02/16) Online Proposal No.:- SIA/BR/MIS/19429/2015).

Medicare Environmental Management Private Limited (MEMPL) established a Common Bio-Medical Waste Treatment Facility (CBWTF) in an area of 1.03 acre at Plot No A - 19, Phase - II, Bela Industrial Area, Muzaffarpur district with a capital cost of around Rs. 10 Crores. It is treating bio - medical waste generated from Muzaffarpur and surrounding districts. The key components of the facility include (i) Incinerator – 250 kg/hr, (ii) Autoclave – 648 to 3000 Liters/batch and (iii) Shredder – 100 kg/hr with all other supporting infrastructure. The project having latitude 26° 05' 14.21" N and longitude 85° 25' 17.39" E. ToR issued by SEAC, Bihar vide letter no.- 61, dated- 12th April, 2016. After submission of the final EIA report (dated 07th June, 2017) for the Environmental Clearance, the same was considered by the SEAC in the meeting.

The Project Proponent & Consultant presented their proposal before the committee. The Project Proponent agreed to give 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar, Patna. After due consideration and discussion, the committee recommended the Environmental Clearance (as Annexure – III).

10. M/s INDIAN OIL CORPORATION LIMITED NH - 28A, Chhapra Bahas, Motihari, District:- East Champaran Motihari, Bihar. (Proposal No.:- SIA/6(b)/466/17) Online Proposal No.:- SIA/BR/IND2/19502/2017).

Installation of 3X1200 MT Mounded Storage Vessel for LPG, 2X24 point carousel for filling of cylinders, 8 Bays TLD for Bulk LPG decantation Installation of 3X9025 KL MS Storage tanks, 2X3071 KL PCK Storage tanks, 3X12284 KL HSD storage tanks, 2X1804 KL Ethanol Storage tanks, 1X665 KL Bio diesel Storage tanks, 4X53 KL HSD, Bio diesel, MS & Ethanol Storage tanks, 1X21.6 KL HSD Storage tanks. 1X600 KL for Sludge tank, 2 X 8 Bays Bottom loading TLF Bays Installation of 2 X 820 KL Trans mixes tanks for pipeline delivery. For Future: 1 X 12,284 KL HSD 1 X 9,025 KL MS, 2 X 9,025 KL Class B Product

The proposed project will be carried out at Vill- Chhapra Bahas, NH-28A, Motihari-Raxaul Road, Motihari, East Champaran, Bihar. Development of facilities for POL Terminal, LPG Bottling Plant and Pipeline Delivery/Pumping Station at Motihari of East Champaran. Indian Oil Corporation Limited (IOCL) proposes to construct POL Terminal, LPG Bottling Plant & Pipeline Delivery, Pumping Station at Chhapra Bahas, Motihari-Raxaul Road, Motihari, East Champaran, Bihar to meet the needs of East Champaran, West Champaran, Gopalganj and other adjoining districts as well as for supplying petroleum products to Nepal Oil Corporation (NOC). Indian Oil Corporation Limited (IOCL) proposes to establish the LPG bottling plant with construction of 3 Nos. of 1200 MT Mounded storage vessels, storage of POL products 76,215.6 KL (Present) & 39,359 KL (Future) to meet present and Future demand.

The Project Proponent & Consultant presented their proposal before the committee. After due consideration and discussion, the committee recommended to issue the Term of Reference (ToR) for this project (as Annexure – IV).

11. M/s. Hindustan Petroleum Corporation Ltd., Village- Industrial Growth Center Tehsil- Maranga, District- Purnea, State- Bihar. (Proposal No.:- SIA/6(b)/332/16) Online Proposal No.:- SIA/BR/IND2/19540/2016).

Hindustan Petroleum Corporation Limited (HPCL), Purnea proposes to establish additional storage of LPG plant for bottling and storage facilities at Purnea LPG Plant, Industrial Growth Centre, Maranga, Purnea, Bihar and storage capacity is 1500 MT LPG (3 X 500 MT Mounded Storage Vessels). The bottling plant is spread over an area of 19.76 acres of land. Geographically, the plant is at latitude 25°44' 02.40" N; longitude 87°27' 40.45" E. The nearest railway station at a distance of 6.0 Km from plant. The area is connected by Barauni - Purnea Highway road situated adjacent to the project site. ToR issued by SEIAA, Bihar by letter no.- 351, dated-29th September, 2016. After the submission of final EIA report (dated 12th June, 2017) for the Environmental Clearance, the same was considered by SEAC in the meeting.

During the presentation the committee directed the project proponent to submit a revised CSR plan and green belt plan, which was immediately submitted by the project proponent. The Project Proponent also agreed to give 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar, Patna. The proponent agreed to provide community safe drinking water purifier units near by the project site area. After due consideration and discussion, the committee recommended the Environmental Clearance (as Annexure – I).

12. Expansion of LPG Mounded Storage Facility at HPCL, Gidha Industrial Growth Center, Village Gidha, Arrah, District- Bhojpur, Bihar, 802 314 (Proposal No.:- SIA/6(b)/329/16) Online Proposal No.:- SIA/BR/IND2/19320/2016).

Hindustan Petroleum Corporation Limited (HPCL) Arrah, Patna LPG storage and bottling plant is located at Village Gidha, Arrah, District Bhojpur, Patna –802314, situated in the notified Industrial Area of Gidha Industrial Growth Centre, Village Gidha. It is spread over a plot area of 34.45 Acres area (around 1, 39,414 M²).

Raw material in the form of LPG will be supplied by road through anyone or all sources viz. HMEL, Bathinda refinery, HPCL Vishakh LPG Terminal, HPCL Haldia, GAIL Auriya, & IOCL Barauni.

The raw material will be transported through trucks in bulk tank trucks having net capacity upto 18 MT of LPG. HPCL LPG Bottling Plant at Patna (Arrah, District- Bhojpur) consists of the following systems: (a.) Receipt of LPG from LPG Tankers of 17/18T capacity, (b.) Storage of LPG in bullets, (c.) Receiving of empty LPG cylinder, (d.) Filling of LPG into cylinders, (e.) Dispatch of filled cylinders. ToR issued by SEIAA, Bihar by letter no.- 302, dated-13th July, 2016. After the submission of final EIA report (dated 14th June, 2017) for the Environmental Clearance, the same was considered by SEAC in the meeting.

During the presentation the committee directed the project proponent to submit a revised CSR plan and green belt plan, which was immediately submitted by the project proponent. The Project Proponent also agreed to give 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar, Patna. The proponent agreed to provide community safe drinking water purifier units near by the project site area. After due consideration and discussion, the committee recommended the Environmental Clearance (as Annexure – I).

13. Stone Mining Project For Final EIA

- a) Rajauli Stone Mine Project, Block No.- 04, Village- Rajauli, Tehsil- Nawada, District- Nawada, State- Bihar (Proposal No.:- SIA/1(a)/409/16) Online Proposal No.:- SIA/BR/MIN/17977/2015)**

Settlement area/ mining lease measuring 12.36 acres (5.00 Ha) demarcated as Block - 04 by the Mining Department, Govt. of Bihar. Proposed annual production of 7,28,000 TPA of stone by open cast semi-mechanized method involving drilling and blasting, during the settlement/ lease period of 5 years. ToR issued by SEAC, Bihar by letter no.- 261, dated-30th December, 2015 and public hearing is conducted on 4th February, 2017 (letter no.- T-1149). After the submission of final EIA report (dated 24th May, 2017) for the Environmental Clearance, the same was considered by SEAC in the meeting.

During the presentation the committee directed the project proponent to submit revised CSR plan and Mining Area Reclamation Plan which was submitted by the Consultant in the next day SEAC meeting dated 18th June, 2017. The Project Proponent agreed to give 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar, Patna. The proponent also agreed to provide community safe drinking water purifier units for locals near the project area (and to go for tall shelter belt plantation all around the lease area this monsoon itself). After due consideration and discussion, the committee recommended the Environmental Clearance (as Annexure – I).

- b) Rajauli Stone Mine Project, Block No.- 06, Village- Rajauli, Tehsil- Nawada, District- Nawada, Area:- 05 Ha (Proposal No.:- SIA/1(a)/410/16) Online Proposal No.:- SIA/BR/MIN/17976/2015)**

Settlement area/ mining lease measuring 12.36 acres (5.00 Ha) demarcated as Block - 06 by the Mining Department, Govt. of Bihar. Proposed annual production of 6,72,000 TPA of stone by open cast semi-mechanized method involving drilling and blasting, during the settlement/ lease period of 5 years. ToR issued by SEAC, Bihar by letter no.- 266, dated-30th December, 2015 and public hearing is conducted on 4th February, 2017 (letter no.- T-1149). After the submission of final EIA report (dated 5th May, 2017) for the Environmental Clearance, the same was considered by SEAC in the meeting.

During the presentation the committee directed the project proponent to submit revised CSR plan and Mining Area Reclamation Plan which was submitted by the Consultant in the next day SEAC meeting dated 18th June, 2017. The Project Proponent agreed to give 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, in a nationalized bank, pledged in the name of SEIAA, Bihar, Patna. The proponent also agreed to provide community safe drinking water purifier units for locals near the project area (and to go for tall shelter belt plantation all around the lease area this monsoon itself). After due consideration and discussion, the committee recommended the Environmental Clearance (as Annexure – I).



- c) **Mirzapur Stone Mining Project, Block No- 01, Gaya, Village - Mirzapur, Anchal-Manpur, Distrcit- Gaya, Area:- 5.06 Ha, (Proposal No.:- SIA/1(a)/342/16)**

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.

Both Project Proponent & Consultant were absent and as such the proposal was deferred for next meeting.

- d) **Gere Block No.-04, Stone Mining Project, Vill- Gere, Tehsil- Manpur, Dist- Gaya, Area:- 5.06 Ha, (Proposal No.:- SIA/1(a)/349/16)**

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.

Both Project Proponent & Consultant were absent and as such the proposal was deferred for next meeting.



Soil Mining Project (Under Compliance)

District Name:-Begusarai.




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.
SIA/1(a)/452/17 Online Proposal No. SIA/BR/MIN/63 518/2017	Soil Mining Project at Village:- MathaniJalalpur, P.S.:- Matihani, District:- Begusarai, State:- Bihar	Village:- Mathani Jalalpur, P.S.:- Matihani, District:- Begusarai, State:- Bihar	Begusarai	Total Area - 4.98 Ha	Geological Reserve:- 1,29,480 Tonnes Mineable Reserve:- 1,16,532 Tonnes Production Per Year (in Ton):- 2,33,064 Tonnes	03-04-17	Corner A- 25° 21' 27.38" N 86° 10' 58.38" E Corner B- 25° 21' 27.72" N 86° 11' 05.91" E Corner C- 25° 21' 20.06" N 86° 11' 05.73" E Corner D- 25° 21' 20.48" N 86° 10' 57.38" E	499	105, 114, 122, 58, 1, 2, 125, 101, 55, 83, 72, 21, 28, 14, 107, 87, 100, 95, 80	213, 275, 276, 332, 53, 53/441, 53/442, 269, 90, 91, 92, 93, 290, 233, 234, 200, 192, 199, 126, 229

The Project Proponent & Consultant both were absent. So, deferred for next meeting.

Sand Mining Project (Under Compliance)

District Name:-Munger.

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
SIA/1(a)/356/16 Online Proposal No. SIA/BR/MIN/59 811/2016	Balu / Sand Mining (Minor Mineral) over an area of 6.6 Ha in Kalishan -Fulkia Ghat of Ganga River Tehsil - Bariarpur, District- Munger, Bihar	Kalishan - Fulkia Ghat of Ganga River in Tehsil - Bariarpur, District- Munger, Bihar	Munger	6.6 Ha	Geological Reserve:- 3,96,000 MT Mineable Reserve:- 66,000 Ton Production Per Year (in Ton):- 45,000 TPA	15-11-16	Corner A- 25° 18' 06.79" N 86° 34' 26.35" E Corner B- 25° 18' 08.61" N 86° 34' 32.12" E Corner C- 25° 17' 55.25" N 86° 34' 30.65" E Corner D- 25° 17' 57.31" N 86° 34' 36.53" E				Kalishan - Fulkia Ghat
SIA/1(a)/364/16 Online Proposal No. SIA/BR/MIN/59 799/2016	Balu / Sand Mining (Minor Mineral) over an area of 11.50 Ha in Bomber Ghat of Mahani River Tehsil - Teitha Bambor, District- Munger, Bihar	Bomber Ghat of Mahani River Tehsil - Teitha Bambor, District- Munger, Bihar	Munger	11.50 Ha	Geological Reserve:- 6,90,000 MT Mineable Reserve:- 75,000 Ton Production Per Year (in Ton):- 1,35,000 TPA	15-11-16	Corner A- 25° 01' 27.35" N 86° 35' 17.13" E Corner B- 25° 01' 26.58" N 86° 35' 20.65" E Corner C- 25° 00' 50.41" N 86° 35' 00.24" E Corner D- 25° 00' 49.99" N 86° 35' 03.58" E		229	01- 889/97 5	Bomber Ghat

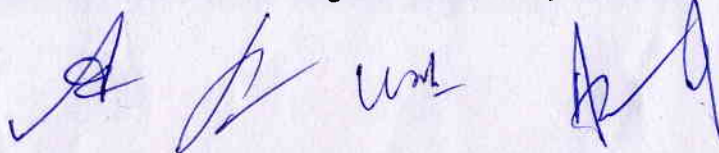




The Proponent & Consultant presented the proposal before the committee. The Proponent submitted vide affidavit that

- 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.

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

1. To submit annual replenishment report through scientific study, 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.
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. It was also advised that CSR activity of the Project Proponent should be measurable and quantifiable, and it should be visible even after the completion of the project. The Project Proponent was also directed to deposit 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, from a nationalized bank, pledged in the name of SEIAA, Bihar, Patna as has been decided in the Joint meeting of SELAA & SEAC dated 23rd March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities.
5. The Project Proponents has been directed by Committee to submit Six Monthly Compliance report with Satellite picture procured from National Remote Sensing Center, Hyderabad of individual Sand ghats within 1:15,000 scale



Sand Mining Project (Under Compliance)

District Name:-West Champaran.

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
SIA/1(a)/194/16	Proposed Sand Mining of area 2.72 ha, Village-Barwa, Tehsil-Mainatanad, District-Paschim Champaran, State- Bihar	Vill-Barwa, Tehsil-Mainatanad, Dist-Pashchim Champaran	West Champaran	Total Area- 2.72 Ha	Geological Reserve:- 1,53,387 Tonnes Mineable Reserve:- 1,18,631.7 Tonnes Production Per Year (in Ton):- 84.7 Tonnes	10-03-16	Corner A- 26° 54' 15.874"N 84° 03' 41.802"E Corner B- 26° 54' 13.933"N 84° 03' 44.666"E Corner C- 26° 54' 7.52"N 84° 03' 38.639"E Corner D- 26° 54' 10.041"N 84° 03' 35.576"E	278	260, 231, 239, 171, 109, 02	903, 904, 908, 912, 913, 914, 918, 954, 957, 501, 502, 529, 530, 234, 196	Barwa Ghat

The Project Proposer & Consultant both were absent. So, Deferred for next meeting.

New Sand Mining Projects (For E.C.)

District Name:- Gaya

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
SIA/1(a)/470/1 7 Online Proposal No. SIA/BR/MIN/6 4377/2017	Karea Sand Ghat on Buddh River of District:- Gaya, State:- Bihar	Village:- Karea, Anchal:- Tekari, District:- Gaya	Gaya	22.17 Ha	Geological Reserve:- Mineable Reserve:- 12,07,604 Tonnes Production Per Year (in Ton):- 5,82,739 TPA	12-06-17	Corner A- 24° 53' 03.05" N 84° 51' 23.81" E Corner B- 24° 53' 00.48" N 84° 51' 28.54" E Corner C- 24° 52' 36.10" N 84° 50' 57.07" E Corner D- 24° 52' 41.07" N 84° 50' 53.33" E		102	1131	Karea Sand Ghat
SIA/1(a)/471/1 7 Online Proposal No. SIA/BR/MIN/6 4472/2017	Manoharpur Sand Ghat on Buddh River of District:- Gaya, State:- Bihar	Village:- Manoharpur, Anchal:- Koach, District:- Gaya	Gaya	17 Ha	Geological Reserve:- Mineable Reserve:- 9,17,586 Tonnes Production Per Year (in Ton):- 5,31,904		Corner A- 24° 50' 58.99" N 84° 50' 14.91" E Corner B- 24° 50' 40.40" N 84° 50' 12.30" E Corner C- 24° 50' 35.88" N 84° 50' 21.86" E Corner D- 24° 50' 55.25" N		365	2254	Manohar pur Sand Ghat

SIA/1(a)/473/1 7 Online Proposal No. SIA/BR/MIN/6 4369/2017	Sikandarpur Sand Ghat on Dhadhar River of District:- Gaya, State:- Bihar	Mauza - Jaruawan, Village:- Sikandarpur , Anchal:- Wazirganj, District:- Gaya	Gaya	22.70 Ha	TPA Geological Reserve:- Mineable Reserve:- 12,58,164 Tonnes Production Per Year (in Ton):- 8,29,577 TPA	84° 50' 26.34" E Corner A- 24° 49' 42.65" N 85° 18' 30.56" E Corner B- 24° 49' 09.70" N 85° 18' 07.80" E Corner C- 24° 49' 09.21" N 85° 18' 13.16" E Corner D- 24° 49' 43.13" N 85° 18' 35.91" E	936	2564	Sikandar pur Sand Ghat
SIA/1(a)/477/1 7 Online Proposal No. SIA/BR/MIN/6 4505/2017	Fatehpur Balu Ghat on Falgu River of District:- Gaya, State:- Bihar	Village:- Fatehpur, Anchal:- Belganj, District:- Gaya	Gaya	10.50 Ha	Geological Reserve:- Mineable Reserve:- 5,68,213 Tonnes Production Per Year (in Ton):- 3,72,082 TPA	Corner A- 24° 57' 58.03" N 85° 04' 07.58" E Corner B- 24° 57' 42.10" N 85° 03' 56.40" E Corner C- 24° 57' 41.76" N 85° 04' 00.67" E Corner D- 24° 57' 54.21" N 85° 04' 13.86" E	323	2101	Fatehpur Balu Ghat
SIA/1(a)/478/1 7 Online Proposal No. SIA/BR/MIN/6	Riula Sand Ghat on Dhadhar River of District:- Gaya, State:- Bihar	Village:- Riula, Anchal:- Mohada, District:- Gaya	Gaya	16 Ha	Geological Reserve:- Mineable Reserve:- 8,67,058 Tonnes	Corner A- 24° 53' 07.40" N 85° 20' 56.00" E Corner B- 24° 52' 57.22" N 85° 20' 31.00" E Corner C-	462	1882	Riula Saand Ghat

4415/2017						Production Per Year (in Ton):- 5,93,179 TPA		24° 52' 52.28" N 85° 20' 32.31" E Corner D- 24° 53' 06.97" N 85° 20' 59.25" E				
SIA/1(a)/480/1 7 Online Proposal No. SIA/BR/MIN/6 4510/2017	Baluganj Balu Ghat on Buddh River of District:- Gaya, State:- Bihar	Village:- Baluganj, Anchal:- Sherghati, District:- Gaya	Gaya	20 Ha	Geological Reserve:- Mineable Reserve:- 10,69,268 Tonnes Production Per Year (in Ton):- 3,40,130 TPA		Corner A- 24° 36' 05.50" N 84° 49' 39.90" E Corner B- 24° 35' 49.68" N 84° 49' 47.19" E Corner C- 24° 35' 50.29" N 84° 49' 55.48" E Corner D- 24° 36' 12.70" N 84° 49' 41.93" E		223	149	Baluganj Balu Ghat	
SIA/1(a)/483/1 7 Online Proposal No. SIA/BR/MIN/6 4379/2017	Kukiyasin Sand Ghat on Falgu River of District:- Gaya, State:- Bihar	Village - Kukiyasin, Anchal:- Manpur, District - Gaya	Gaya	23 Ha	Geological Reserve:- Mineable Reserve:- 12,52,237 Tonnes Production Per Year (in Ton):- 7,95,964 TPA		Corner A- 24° 51' 57.98" N 85° 01' 08.51" E Corner B- 24° 52' 23.99" N 85° 01' 58.98" E Corner C- 24° 52' 23.40" N 85° 01' 49.50" E Corner D- 24° 51' 59.28" N 85° 01' 39.67" E		101	01 & 02	Kukiyasi n Sand Ghat	
SIA/1(a)/484/1 7	Deogaon Sand Ghat on Falgu River of	Village:- Deogaon, Anchal:-	Gaya	22 Ha	Geological Reserve:-		Corner A- 24° 57' 00.10" N 85° 03' 46.00" E		313	01	Deogaon Sand Ghat	

Online Proposal No. SIA/BR/MIN/6 4373/2017	District:- Gaya, State:- Bihar	Khijsarai, District:- Gaya			Mineable Reserve:- 11,88,464 Tonnes Production Per Year (in Ton):- 7,92,432 TPA		Corner B- 24° 57' 20.52" N 85° 03' 49.92" E Corner C- 24° 57' 20.70" N 85° 03' 39.35" E Corner D- 24° 57' 01.18" N 85° 03' 35.61" E				
SIA/1(a)/485/1 7 Online Proposal No. SIA/BR/MIN/6 4383/2017	Sobh Sand Ghat on Gulsakhari River of District:- Gaya, State:- Bihar	Village:- Sobh, Anchal:- Barachatti, District:- Gaya	Gaya	8.30 Ha	Geological Reserve:- Mineable Reserve:- 4,48,843 Tonnes Production Per Year (in Ton):- 1,69,751 TPA		Corner A- 24° 30' 23.40" N 84° 58' 06.60" E Corner B- 24° 30' 23.52" N 84° 58' 08.31" E Corner C- 24° 29' 49.46" N 84° 58' 08.85" E Corner D- 24° 29' 49.45" N 84° 58' 06.15" E		67	281	Sobh Sand Ghat
SIA/1(a)/489/1 7 Online Proposal No. SIA/BR/MIN/6 4380/2017	Morabbi Chak Sand Ghat on Paimar River of District:- Gaya, State:- Bihar	Village:- Chakama, Anchal:- Nimchak Bahani, District:- Gaya	Gaya	12 Ha	Geological Reserve:- Mineable Reserve:- 6,52,919 Tonnes Production Per Year (in Ton):- 3,20,202 TPA		Corner A- 24° 59' 56.39" N 85° 14' 57.89" E Corner B- 24° 59' 57.55" N 85° 15' 00.34" E Corner C- 24° 59' 36.10" N 85° 14' 49.20" E Corner D- 24° 59' 38.21" N		348	01	Morabbi Chak Sand Ghat

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1.	SIA/1(a)/490/1 7 Online Proposal No. SIA/BR/MIN/6 4348/2017	Maranchi Sand Ghat on Buddh River of District:- Gaya, State:- Bihar	Village - Maranchi, Anchal - Paraiya, District:- Gaya	Gaya	21.50 Ha	Geological Reserve:- Mineable Reserve:- 11,60,811 Tonnes Production Per Year (in Ton):- 7,69,043 TPA	85° 14' 46.87" E Corner A- 24° 50' 22.50" N 84° 50' 22.70" E Corner B- 24° 50' 00.90" N 84° 50' 33.20" E Corner C- 24° 50' 24.20" N 84° 50' 27.70" E Corner D- 24° 49' 58.62" N 84° 50' 42.80" E	205	1227	Maranchi Sand Ghat
2.	SIA/1(a)/492/1 7 Online Proposal No. SIA/BR/MIN/6 4504/2017	Nawada - Takiya Balu Ghat on Falgu River of District:- Gaya, State:- Bihar	Village:- Gannu Bigha, Anchal:- Chandauti, District:- Gaya	Gaya	23.30 Ha	Geological Reserve:- Mineable Reserve:- 12,58,951 Tonnes Production Per Year (in Ton):- 7,78,021 TPA	Corner A- 24° 49' 29.62" N 85° 01' 23.75" E Corner B- 24° 49' 09.24" N 85° 01' 15.92" E Corner C- 24° 49' 06.14" N 85° 01' 30.37" E Corner D- 24° 49' 27.03" N 85° 01' 36.86" E	149	1044	Nawada - Takiya Sand Ghat
3.	SIA/1(a)/493/1 7 Online Proposal No. SIA/BR/MIN/6	Palhat Kalan Sand Ghat on Buddh River of District:- Gaya, State:- Bihar	Village:- Gannu Bigha, Anchal:- Chandauti, District:- Gaya	Gaya	18 Ha	Geological Reserve:- Mineable Reserve:- 9,72,882 Tonnes	Corner A- 24° 34' 42.46" N 84° 49' 11.12" E Corner B- 24° 34' 54.80" N 84° 49' 27.00" E Corner C-	14	01	Palhat Kalan Sand Ghat

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	4398/2017					Production Per Year (in Ton):- 6,33,042 TPA		24° 35' 00.10" N 84° 49' 16.30" E Corner D- 24° 34' 43.31" N 84° 49' 03.47" E				
4.	SIA/1(a)/497/1 7 Online Proposal No. SIA/BR/MIN/6 4493/2017	Siripur Sand Ghat on Falgu River of District:- Gaya, State:- Bihar	Village:- Siripur, Anchal:- Belaganj, District:- Gaya	Gaya	13.50 Ha	Geological Reserve:- Mineable Reserve:- 7,29,608 Tonnes Production Per Year (in Ton):- 5,39,874 TPA		Corner A- 24° 58' 45.72" N 85° 05' 07.97" E Corner B- 24° 58' 31.30" N 85° 04' 58.80" E Corner C- 24° 58' 29.15" N 85° 05' 03.85" E Corner D- 24° 58' 45.02" N 85° 05' 13.93" E		364	2101	Siripur Sand Ghat
5.	SIA/1(a)/498/1 7 Online Proposal No. SIA/BR/MIN/6 4397/2017	Mathiyapur Sand Ghat on Falgu River of District:- Gaya, State:- Bihar	Village:- Shadipur, Anchal:- Manpur, District:- Gaya	Gaya	19.50 Ha	Geological Reserve:- Mineable Reserve:- 10,53,252 Tonnes Production Per Year (in Ton):- 6,42,636 TPA		Corner A- 24° 51' 06.81" N 85° 01' 19.97" E Corner B- 24° 51' 13.97" N 85° 01' 22.48" E Corner C- 24° 51' 21.11" N 85° 01' 06.31" E Corner D- 24° 51' 05.15" N 85° 01' 00.13" E		339	02	Mathiyap ur Sand Ghat
6.	SIA/1(a)/500/1 7	Charhata Aghatpur Sand Ghat on	Village:- Charhata, Anchal:-	Gaya	19 Ha	Geological Reserve:-		Corner A- 24° 59' 26.40" N 84° 53' 58.20" E		159	611	Charhata Aghatpur Sand

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Online Proposal No. SIA/BR/MIN/6 4468/2017	Buddh River of District:- Gaya, State:- Bihar	Tekari, Distrcit:- Gaya			Mineable Reserve:- 10,26,335 Tonnes Production Per Year (in Ton):- 7,40,790 TPA		Corner B- 24° 59' 06.70" N 84° 53' 37.50" E Corner C- 24° 59' 23.10" N 84° 53' 59.80" E Corner D- 24° 59' 02.15" N 84° 53' 42.18" E				Ghat
SIA/1(a)/501/1 7 Online Proposal No. SIA/BR/MIN/6 4491/2017	Khijarsarai Sand Ghat on Falgu River of District:- Gaya, State:- Bihar	Village:- Jcgiasimra, Anchal:- Khijasarai, Distrcit:- Gaya	Gaya	18.50 Ha	Geological Reserve:- Mineable Reserve:- 10,03,819 Tonnes Production Per Year (in Ton):- 6,44,620 TPA		Corner A- 25° 00' 07.09" N 85° 05' 32.74" E Corner B- 25° 00' 07.69" N 85° 05' 40.98" E Corner C- 25° 59' 46.62" N 85° 05' 38.51" E Corner D- 25° 59' 47.13" N 85° 05' 29.08" E	230	2527		Khijarsar ai Sand Ghat

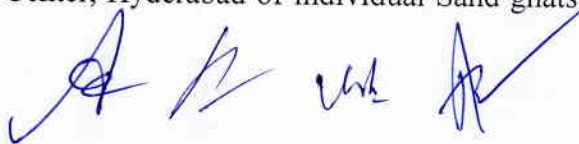
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The Proponent & Consultant presented the proposal before the committee. The Proponent submitted vide affidavit that

- 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;

During the presentation the committee observed that the mining plan is not approved by Mines and Geology Department, Govt. of Bihar. As such the committee recommends Environmental Clearance with condition that the proponent will submit approved mine plan to SEIAA, Bihar. Following conditions are to be included as E.C. conditions.

1. To submit annual replenishment report through scientific study, 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.
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. It was also advised that CSR activity of the Project Proponent should be measurable and quantifiable, and it should be visible even after the completion of the project. The Project Proponent was also directed to deposit 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, from a nationalized bank, pledged in the name of SEIAA, Bihar, Patna as has been decided in the Joint meeting of SEIAA & SEAC dated 23rd March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities.
5. The Project Proponents has been directed by Committee to submit Six Monthly Compliance report with Satellite picture procured from National Remote Sensing Center, Hyderabad of individual Sand ghats within 1:15,000 scale.



New Sand Mining Projects (For E.C.)

District Name:- Gaya

River Name:- Morhar

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
	SIA/1(a)/472/17 Online Proposal No. SIA/BR/MIN/64 507/2017	Vishnubigha Sand Ghat on Morhar River of District:- Gaya, State:- Bihar	Village:- Vishnubigha, Anchal:- Imamganj, District:- Gaya	Gaya	23.80 Ha	Geological Reserve:- Mineable Reserve:- 12,84,995 Tonnes Production Per Year (in Ton):- 8,80,873 TPA		Corner A- 24° 29' 13.90" N 84° 36' 12.40" E Corner B- 24° 28' 55.96" N 84° 35' 56.10" E Corner C- 24° 28' 53.77" N 84° 36' 04.35" E Corner D- 24° 29' 13.51" N 84° 36' 19.81" E		483	2835 (RS)	Vishnubigha Sand Ghat
	SIA/1(a)/486/17 Online Proposal No. SIA/BR/MIN/64 411/2017	Ranjan - II Sand Ghat on Morhar River of District:- Gaya, State:- Bihar	Village:- Sobh, Anchal:- Barachatti, District:- Gaya	Gaya	23.20 Ha	Geological Reserve:- Mineable Reserve:- 12,52,537 Tonnes Production Per Year (in Ton):-		Corner A- 24° 38' 12.95" N 84° 49' 23.48" E Corner B- 24° 38' 24.80" N 84° 49' 28.80" E Corner C- 24° 38' 28.70" N 84° 49' 08.90" E Corner D-		147	01	Ranjan - II Sand Ghat

						8,27,608 TPA		24° 38' 13.00" N 84° 49' 05.70" E				
3.	SIA/1(a)/487/17 Online Proposal No. SIA/BR/MIN/64 347/2017	Madarpur & Dhamaniya Sand Ghat on Morhar River of District:- Gaya, State:- Bihar	Village:- Dhamaniya, Anchal:- BankeBazar , Distrcit:- Gaya	Gaya	22.20 Ha	Geological Reserve:- Mineable Reserve:- 11,97,038 Tonnes Production Per Year (in Ton):- 6,41,696 TPA		Corner A- 24° 32' 16.30" N 84° 44' 30.00" E Corner B- 24° 31' 55.70" N 84° 44' 18.50" E Corner C- 24° 31' 51.22" N 84° 44' 36.82" E Corner D- 24° 32' 16.09" N 84° 44' 37.35" E		135	462	Madarpur & Dhamani ya Sand Ghat
	SIA/1(a)/488/17 Online Proposal No. SIA/BR/MIN/64 385/2017	Tarwadih Sand Ghat on Morhar River of District:- Gaya, State:- Bihar	Village:- Tarwadih, Anchal:- BankeBazar , Distrcit:- Gaya	Gaya	23.10 Ha	Geological Reserve:- Mineable Reserve:- 12,50,348 Tonnes Production Per Year (in Ton):- 8,87,987 TPA		Corner A- 24° 32' 59.50" N 84° 45' 03.50" E Corner B- 24° 32' 34.00" N 84° 44' 34.60" E Corner C- 24° 32' 32.34" N 84° 44' 38.21" E Corner D- 24° 32' 58.88" N 84° 45' 11.96" E		87	01	Tarwadih Sand Ghat
	SIA/1(a)/494/17 Online Proposal No. SIA/BR/MIN/64	Dadu Barma Balu Ghat on Morhar River of District:- Gaya, State:- Bihar	Village:- Dadu Barma, Anchal:- Guraru, Distrcit:-	Gaya	16 Ha	Geological Reserve:- Mineable Reserve:- 8,67,449		Corner A- 24° 37' 59.30" N 84° 48' 24.60" E Corner B- 24° 38' 37.39" N 84° 48' 32.80" E		121	1415	Dadu Barma Balu Ghat

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506/2017		Gaye			Tonnes Production Per Year (in Ton):- 5,30,899 TPA		Corner C- 24° 38' 37.55" N 84° 48' 28.34" E Corner D- 24° 37' 59.89" N 84° 48' 21.52" E				
SIA/1(a)/499/17 Online Proposal No. SIA/BR/MIN/64 391/2017	Darna Sand Ghat on Morhar River of District:- Gaya, State:- Bihar	Village:- Darna, Aancha:- Amas, District:- Gaya	Gaya	15.80 Ha	Geological Reserve:- Mineable Reserve:- 8,53,432 Tonnes Production Per Year (in Ton):- 5,21,629 TPA		Corner A- 24° 35' 47.68" N 84° 48' 12.00" E Corner B- 24° 35' 26.10" N 84° 48' 00.60" E Corner C- 24° 35' 21.70" N 84° 48' 07.50" E Corner D- 24° 35' 47.50" N 84° 48' 20.07" E		51	200 & 397	Darna Sand Ghat
SIA/1(a)/502/17 Online Proposal No. SIA/BR/MIN/64 484/2017	Chapradah Sand Ghat on Morhar River of District:- Gaya, State:- Bihar	Village:- Chapradah, Aancha:- Amas, District:- Gaya	Gaya	23.40 Ha	Geological Reserve:- Mineable Reserve:- 12,62,142 Tonnes Production Per Year (in Ton):- 8,12,066 TPA		Corner A- 24° 33' 33.60" N 84° 46' 17.20" E Corner B- 24° 33' 21.86" N 84° 45' 28.39" E Corner C- 24° 33' 20.07" N 84° 45' 29.95" E Corner D- 24° 33' 27.72" N 84° 46' 15.10" E		643	462	Chaprada h Sand Ghat
SIA/1(a)/503/17	Uchirman Balu Ghat on	Village:- Uchirman,	Gaya	23.30 Ha	Geological Reserve:-		Corner A- 24° 37' 42.00" N		135	02	Uchirma n Balu

Online Proposal No. SIA/BR/MIN/64 517/2017	Morhar River of District:- Gaya, State:- Bihar	Anchal:- Sherghat, District:- Gaya			Mineable Reserve:- 12,43,264 Tonnes Production Per Year (in Ton):- 7,89,505 TPA		84° 48' 43.20" E Corner B- 24° 37' 53.25" N 84° 49' 07.20" E Corner C- 24° 38' 00.20" N 84° 48' 54.20" E Corner D- 24° 37' 51.30" N 84° 48' 38.90" E				Ghat
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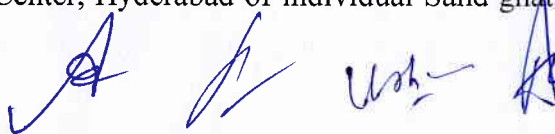
The Proponent & Consultant presented the proposal before the committee. The Proponent submitted vide affidavit that

- 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 has submitted a letter from Gaya Divisional Forest Officer (D.F.O.) mentioning that these ghats are sufficiently away from PF/RF and Sanctuary land.

During the presentation the committee observed that the mining plan is not approved by Mines and Geology Department, Govt. of Bihar. As such the committee recommends Environmental Clearance with condition that the proponent will submit approved mine plan to SEIAA, Bihar. Following conditions are to be included as E.C. conditions.

1. To submit annual replenishment report through scientific study, 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.
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. It was also advised that CSR activity of the Project Proponent should be measurable and quantifiable, and it should be visible even after the completion of the project. The Project Proponent was also directed to deposit 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, from a nationalized bank, pledged in the name of SEIAA, Bihar, Patna as has been decided in the Joint meeting of SEIAA & SEAC dated 23rd March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities.
5. The Project Proponents has been directed by Committee to submit Six Monthly Compliance report with Satellite picture procured from National Remote Sensing Center, Hyderabad of individual Sand ghats within 1:15,000 scale.



New Sand Mining Projects (For E.C.)

District Name:- Gaya

River Name:- Lilajan

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)/467/17 Online Proposal No. SIA/BR/MIN/64469/2017	Patiauna Sand Ghat on Lilajan River of District:- Gaya, State:- Bihar	Village:- Patiauna, Anchal:- Barachatti, Distrcit:- Gaya	Gaya	18 Ha	Geological Reserve:- Mineable Reserve:- 9,74,344 Tonnes Production Per Year (in Ton):- 7,19,903 TPA	12-06-17	Corner A- 24° 33' 52.42" N 84° 56' 59.80" E Corner B- 24° 34' 08.36" N 84° 57' 19.90" E Corner C- 24° 34' 11.77" N 84° 57' 08.64" E Corner D- 24° 33' 54.85" N 84° 56' 51.17" E		92	08	Patiauna Sand Ghat
2.	SIA/1(a)/468/17 Online Proposal No. SIA/BR/MIN/64376/2017	Hardawan Sand Ghat on Lilajan River of District:- Gaya, State:- Bihar	Village:- Hardawan, Anchal:- Dobhi, Distrcit:- Gaya	Gaya	22 Ha	Geological Reserve:- Mineable Reserve:- 11,94,109 Tonnes Production Per Year (in Ton):-	12-06-17	Corner A- 24° 28' 54.50" N 84° 52' 11.80" E Corner B- 24° 28' 23.30" N 84° 52' 13.20" E Corner C- 24° 28' 23.55" N 84° 52' 19.79" E Corner D-		47	326	Hardawan Sand Ghat

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						7,56,932 TPA		24° 28' 54.88" N 84° 52' 19.80" E				
3.	SIA/1(a)/469/ 17 Online Proposal No. SIA/BR/MIN/ 64503/2017	Nigri Balu Ghat on Lilajan River of District:- Gaya, State:- Bihar	Village:- Nigri, Anchal:- Dobhi, District:- Gaya	Gaya	23.60 Ha	Geological Reserve:- Mineable Reserve:- 12,76,560 Tonnes Production Per Year (in Ton):- 7,82,759 TPA	12-06-17	Corner A- 24° 33' 07.60" N 84° 55' 43.20" E Corner B- 24° 32' 53.30" N 84° 55' 29.10" E Corner C- 24° 32' 50.44" N 84° 55' 41.83" E Corner D- 24° 33' 06.46" N 84° 55' 57.31" E		208	1930	Nigri Sand Ghat
4.	SIA/1(a)/479/ 17 Online Proposal No. SIA/BR/MIN/ 64400/2017	Upadhayay Sand Ghat on Lilajan River of District:- Gaya, State:- Bihar	Village:- Bodhgaya, Anchal:- Bodhgaya, District:- Gaya	Gaya	9.90 Ha	Geological Reserve:- Mineable Reserve:- 5,33,374 Tonnes Production Per Year (in Ton):- 2,93,850 TPA		Corner A- 24° 41' 21.65" N 84° 59' 41.86" E Corner B- 24° 41' 28.83" N 84° 59' 40.50" E Corner C- 24° 41' 27.90" N 84° 59' 56.94" E Corner D- 24° 41' 20.57" N 84° 59' 56.51" E		1035	4438	Upadhay ay Sand Ghat

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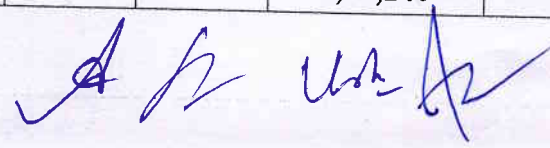
New Sand Mining Projects (For E.C.)

District Name:- Gaya

River Name:- Morhar

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 Ghat
9.	SIA/1(a)/474/17 Online Proposal No. SIA/BR/MIN/64 343/2017	Baijudham Sand Ghat on Morhar River of District:- Gaya, State:- Bihar	Village:- Baiju Bigha, Anchal:- Gurua, District:- Gaya	Gaya	23.70 Ha	Geological Reserve:- Mineable Reserve:- 12,79,712 Tonnes Production Per Year (in Ton):- 7,79,699 TPA		Corner A- 24° 40' 25.50" N 84° 48' 52.51" E Corner B- 24° 40' 47.70" N 84° 48' 49.90" E Corner C- 24° 40' 47.12" N 84° 48' 33.83" E Corner D- 24° 40' 25.65" N 84° 48' 44.19" E		107	01	Baijudham Sand Ghat
10.	SIA/1(a)/475/17 Online Proposal No. SIA/BR/MIN/64 419/2017	Solahdham Sand Ghat on Morhar River of District:- Gaya, State:- Bihar	Village:- Dhirabigha, Anchal:- Tekari, District:- Gaya	Gaya	7.40 Ha	Geological Reserve:- Mineable Reserve:- 3,90,433 Tonnes Production Per Year (in Ton):-		Corner A- 25° 02' 20.67" N 84° 52' 35.07" E Corner B- 25° 01' 52.38" N 84° 52' 40.32" E Corner C- 25° 01' 52.64" N 84° 52' 41.92" E Corner D-		276	130	Solahdham Sand Ghat

						2,76,181 TPA		25° 02' 20.52" N 84° 52' 36.71" E				
11.	Online Proposal No. SIA/BR/MIN/64 483/2017	Bankey Bazar Sand Ghat on Morhar River of District:- Gaya, State:- Bihar	Village:- Bankey Bazar, Anchal:- Bankey Bazar, District:- Gaya	Gaya	22.80 Ha	Geological Reserve:- Mineable Reserve:- 12,34,906 Tonnes Production Per Year (in Ton):- 7,78,468 TPA		Corner A- 24° 30' 10.10" N 84° 38' 57.70" E Corner B- 24° 30' 19.00" N 84° 38' 58.72" E Corner C- 24° 30' 08.57" N 84° 39' 26.20" E Corner D- 24° 30' 00.67" N 84° 39' 22.94" E		202	01	Bankey Bazar Sand Ghat
12.	Online Proposal No. SIA/BR/MIN/64 382/2017	Pachmahla Sand Ghat on Morhar River of District:- Gaya, State:- Bihar	Village:- Pachmahla, Anchal:- Tekari, District:- Gaya	Gaya	22.80 Ha	Geological Reserve:- Mineable Reserve:- 12,88,397 Tonnes Production Per Year (in Ton):- 9,12,078 TPA		Corner A- 24° 57' 22.30" N 84° 51' 48.40" E Corner B- 24° 57' 41.70" N 84° 52' 06.40" E Corner C- 24° 57' 40.49" N 84° 51' 46.66" E Corner D- 24° 57' 24.54" N 84° 51' 38.04" E		86	130	Pachmahla Sand Ghat
13.	Online Proposal No. SIA/BR/MIN/64	Thanapur Balu Ghat on Morhar River of District:- Gaya, State:- Bihar	Village:- Thanapur, Anchal:- Tekari, District:- Gaya	Gaya	13.90 Ha	Geological Reserve:- Mineable Reserve:- 7,47,140		Corner A- 25° 01' 04.40" N 84° 53' 23.90" E Corner B- 25° 00' 41.60" N 84° 53' 16.60" E		168	826	Thanapur Sand Ghat



	508/2017					Tonnes Production Per Year (in Ton):- 5,21,226 TPA		Corner C- 25° 01' 04.90" N 84° 53' 31.50" E Corner D- 25° 00' 40.85" N 84° 53' 20.10" E				
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New Sand Mining Projects (For E.C.)

District Name:- Gaya

River Name:- Mohana

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 Ghat
1.	SIA/1(a)/481/17 Online Proposal No. SIA/BR/MIN/6 4370/2017	Bhaluachatti Bajinathpur Sand Ghat on Mohana River of District:- Gaya, State:- Bihar	Village:- Bhaluachatti , Anchal:- Barachatti, District:- Gaya	Gaya	15.40 Ha	Geological Reserve:- Mineable Reserve:- 8,32,424 Tonnes Production Per Year (in Ton):- 5,69,092 TPA		Corner A- 24° 27' 38.17" N 85° 08' 19.34" E Corner B- 24° 27' 38.25" N 85° 08' 28.86" E Corner C- 24° 28' 03.90" N 85° 08' 15.03" E Corner D- 24° 28' 04.21" N 85° 08' 18.78" E		41	03	Bhaluachatti Bajinathpur Sand Ghat
2.	SIA/1(a)/495/17 Online Proposal No. SIA/BR/MIN/6 4371/2017	Chotiya Sand Ghat on Mohana River of District:- Gaya, State:- Bihar	Village:- Sahbajpur, Anchal:- Knijsarai, District:- Gaya	Gaya	14.30 Ha	Geological Reserve:- Mineable Reserve:- 7,80,759 Tonnes Production Per Year (in Ton):-		Corner A- 25° 02' 49.40" N 85° 07' 31.30" E Corner B- 25° 03' 02.20" N 85° 07' 39.60" E Corner C- 25° 03' 06.70" N 85° 07' 26.70" E Corner D-		189	1191	Chotiya Sand Ghat

						5,16,830 TPA		25° 02' 50.40" N 85° 07' 23.60" E				
3.	Online Proposal No. SIA/BR/MIN/6 4473/2017	Moratal Sand Ghat on Mohana River of District:- Gaya, State:- Bihar	Village:- Moratal, Anchal:- Eodhgaya, Distrcit:- Gaya	Gaya	22 Ha	Geological Reserve:- Mineable Reserve:- 11,89,438 Tonnes Production Per Year (in Ton):- 7,24,738 TPA		Corner A- 24° 42' 12.50" N 85° 00' 59.30" E Corner B- 24° 42' 36.40" N 85° 01' 01.30" E Corner C- 24° 42' 37.68" N 85° 00' 50.18" E Corner D- 24° 42' 12.86" N 85° 00' 48.39" E		401	2091	Moratal Sand Ghat

A B ush

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 presentation the committee observed that the mining plan is not approved by Mines and Geology Department, Govt. of Bihar. Committee also directed to submit Divisional Forest Officer (D.F.O.), Gaya Report regarding distance of Mining area from Protected Forest, Reserve Forest, and Wild life Sanctuary. So, Deferred for next meeting.

A. J. Singh

It has been resolved that the next meeting of SEAC will be held on 28th June, 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 the following for all 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.
- (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.

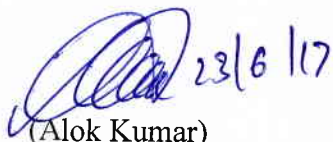


(V. K. Sinha)
(Member, SEAC)



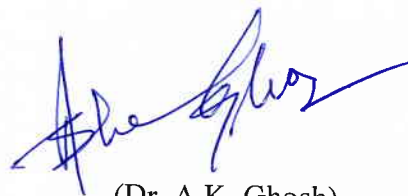
(Dr. N.S. Maurya)
(Member, SEAC)

(Dr. Nupur Bose)
(Member, SEAC)



23/6/17

(Alok Kumar)
Secretary, SEAC



(Dr. A.K. Ghosh)
Chairman, SEAC

Annexure:- I

Environmental Clearance Condition of Building 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 be in the vernacular language, informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority, Bihar, and the same may also be 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 mitigation 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-peak 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 sink 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. It was also advised that CSR activity of the Project Proponent should be measurable and quantifiable, and it should be visible even after the completion of the project. The Project Proponent was also directed to deposit 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, from a nationalized bank, pledged in the name of SEIAA, Bihar, Patna as has been decided in the Joint meeting of SEIAA & SEAC dated 23rd March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities.
- iii. Project Proponent should obtain prior permission for ground water withdrawal from CCWA/CGWB if applicable.
- iv. 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.
- v. 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/sq.m./degree centigrade with appropriate modifications of specifications and building technologies. The provisions of National Building Code 2005 shall be strictly followed.
- vi. 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.
- vii. 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.
 - viii. All proposed air/conditioned buildings should follow the norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency.
 - ix. 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 valves, 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-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. 15% 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 15% 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 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.

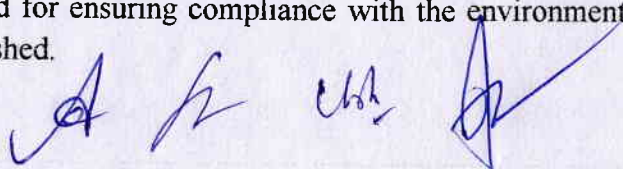


Annexure:- II

Environmental Clearance of Common Bio-Medical Waste Treatment Facility

Specific Conditions:

1. The consent to establish shall be obtained from State Pollution Control Board under Air and Water Act before the start of any construction at the site.
2. The green belt all along the periphery of the site should be developed and maintained.
3. All measures of air and water pollution should be adopted.
4. Zero discharge system shall be adopted.
5. There should be no spillage from the transportation vehicle. Vehicles should be covered and containments system as per BMW rules. Vehicles must have complaint ----- numbers and redressal mechanism.
6. All recommendation of EMP/DMP and corporate social responsibility to be strictly complied with.
7. The Sludge from ETP to be disposed in consultation with SPCB as per CTO norms. If found hazardous in nature, then disposal to be CETP sludge disposal facility or Common Hazardous Waste Treatment and Storage Disposal Facility or as per BMW Rules.
8. Corporate social responsibility by adopting a nearby village for sanitation and drinking water.
9. It was also advised that CSR activity of the Project Proponent should be measurable and quantifiable, and it should be visible even after the completion of the project. The Project Proponent was also directed to deposit 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, from a nationalized bank, pledged in the name of SEIAA, Bihar, Patna as has been decided in the Joint meeting of SEIAA & SEAC dated 23rd March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities
10. Corporate Environment Responsibility:
 - a. The Company shall have a well laid down Environment Policy approved by the Board of Directors.
 - b. The Environment Policy shall prescribe for standards operating process/procedures to bring into focus any infringements/deviation/ violence of the environmental or forest norms/conditions.
 - c. The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.



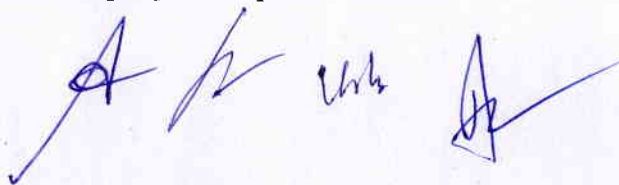
- d. To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

General Conditions:

- I. Full support shall be extended to the officers of Bihar State Pollution Control Board by the project proponent during inspection of the project for monitoring purposes.
- II. A copy of the environmental clearance letter shall also be displayed on the website of the Bihar State Pollution Control Board. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Bihar State Pollution Control Board and may also be seen on the website of the SEIAA at www.seiaabihar.org.
- III. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Bihar State Pollution Control Board.
- IV. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the Project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall be sent to the respective Bihar State Pollution Control Board by e-mail.
- V. In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the SEIAA, Bihar.
- VI. The environmental safeguards contained in the EIA Report should be implemented in letter and spirit. The funds earmarked for environmental protection measures shall be complied with.
- VII. These stipulations would be enforced among others under the provisions of water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986 and BMW rules 1998 and its amendments needs to be complied under all respect.
- VIII. All other statutory clearance such as technical approval for storage of diesel from Chief Control of Explosives, Fire department, Civil Aviation, Depart, Forest Conservation Act 1980 and wildlife (Protection) Act, 1972 shall be obtained, as applicable by project proponents from the respective competent authorities.
- IX. This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.
- X. 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.

- XI. Any appeal against this 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.
- XII. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.



Annexure:- III

Term of Reference (ToR) Recommended for Petroleum 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) National Remote Sensing Center, Hyderabad
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_{2.5}, PM₁₀, SO₂, NO_x 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. 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 :

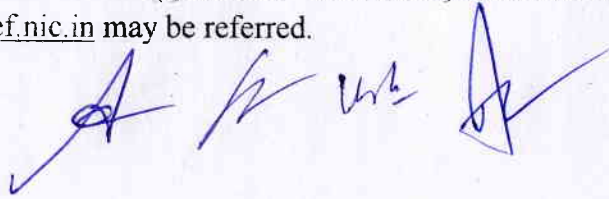
- (i) All documents should be properly indexed, page numbered.
- (ii) Period/date of data collection should be clearly indicated.
- (iii) Authenticated English translation of all material provided in Regional Languages.
- (iv) The letter/application for EC should quote the SEIAA, Bihar file No. and also 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 4th August, 2009; O.M. No. J-1105/333/2009-

IA.II(M) dated 25th Feb 2010 and -11013/41/2006-IA.II (I) dated 5th 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 2nd December, 2009 available on the Ministry's Website <http://www.moef.nic.in> may be referred.



Annexure:- IV

Environmental Clearance Condition for Recommended 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. It was also advised that CSR activity of the Project Proponent should be measurable and quantifiable, and it should be visible even after the completion of the project. The Project Proponent was also directed to deposit 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, from a nationalized bank, pledged in the name of SEIAA, Bihar, Patna as has been decided in the Joint meeting of SEIAA & SEAC dated 23rd March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities.
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.

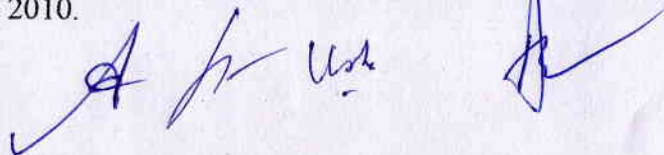
B. General conditions

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 (generally 5 years). 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 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.
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.

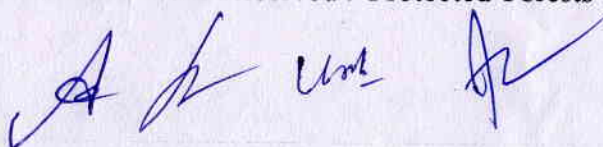


Annexure:- V

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

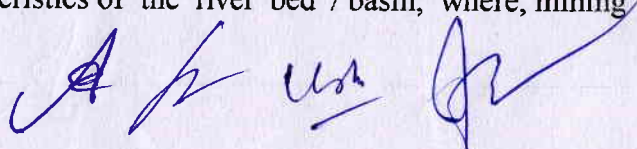
mine plan. This should be produced before officers of Central Government and State for inspection.

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 it 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 programme. 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. It was also advised that CSR activity of the Project Proponent should be measurable and quantifiable, and it should be visible even after the completion of the project. The Project Proponent was also directed to deposit 10% of the CSR cost (2.5% of the total project cost) as security in the form of fixed deposit, from a nationalized bank, pledged in the name of SEIAA, Bihar, Patna as has been decided in the Joint meeting of SEIAA & SEAC dated 23rd March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities.
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 plantations shall consist of mixture of available indigenous, fast growing and sturdy species of trees, shrubs. 33% .
28. 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

1. 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.
2. 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.
3. 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.
4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Bihar and any other Court of Law relating to the subject matter.
5. 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.

