

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

Ref. No- **36/SEIAA/17.**

Patna- 23, Date- **16/05/2017.**

To,


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

**Sub :-** Proceedings of State Level Expert Appraisal Committee which was held on 28.04.2017 in Meeting Hall of State Environment Impact Assessment Authority, 2<sup>nd</sup> Floor, Beltron Bhawan, Shastri Nagar, Patna - 23.

Sir,

Please find enclosed Proceedings of State Expert Appraisal Committee which was held on 28<sup>th</sup> April, 2017 for your perusal.

Sincerely Yours

  
(Shri Alok Kumar)  
Secretary, SEAC

**Proceedings of the State Level Expert Appraisal Committee (SEAC) dated 28<sup>th</sup> April, 2017**

A meeting of State level Expert Appraisal Committee (SEAC) was held in the Meeting Hall of State Environment Impact Assessment Authority, 2<sup>nd</sup> Floor, Beltron Bhawan, Shastri Nagar, Patna- 23 on 28<sup>th</sup> April, 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. Shri Vijay Kumar Sinha, Member, SEAC
4. Shri Shatrunjay Kumar Singh, Member, SEAC

The proceeding of the last meeting of SEAC dated 24<sup>th</sup> March, 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. MAAJAGDAMBE PAPER MILLS PVT. LTD., Mauja - Mahuli, P.O.:- Kothiya, Tehsil:- Patna Sadar, District:- Patna, State:- Bihar. (Proposal No.:- SIA/5(i)/450/17) Online Proposal No.:-SIA/BR/IND/18896/2017).**

Maajagdambe Paper Mills Pvt. Ltd.(MJPMPL), is going to be established a Paper Mill Project near VillageMahuli, P.O.-Kothiya, P.S.-Deedarganj, District-Patna. Project site having Latitude 25°32'14.41"N & Longitude 85°13'13.86"E at 52 metre above MSL.

MJPMPLis going to establish a Paper Mill, for producing Craft Paper (20 TPD) & Writing Paper(20 TPD), (40 TPD OR 12000 TPA). The proposed paper mill will generate pulp from recycling of waste paper as raw material and subsequently pulp obtained from recycling of waste paper will be utilized for production of craft and writing paper.

MJPMPLowesland of 4.12Acresat Mauja- Mahuli, Khata No. 03, 09, 11, Khesra No. 130, 131, 132.

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



2. **BALMUKUND CONCAST LTD., (MODERNISATION & EXPANSION PROJECT), Village:-MahadeopurPhulari, Tehsil- Bihta, District:- Patna. (Proposal No.:- SIA/3(a)/220/16) Online Proposal No.:- SIA/BR/IND/19030/2016).**

Balmukund Concast Ltd. (BMC), is situated at MahadeopurPhulari, Bihta, District -Patna, Bihar having Latitude 25°34'53.274" N & Longitude 84° 52'6.12" E at 51 meter above MSL nearby NH-30. The total plant area is 7.83 Acres (31,686.88 M<sup>2</sup>). Total production capacity Existing capacity (36,000 MT/Annum MS Ingot/Billet) (52,350 MT/Annum TMT Bars/Rods) Proposed Expansion (28,350 MT/Annum MS Ingot/Billet) (7,650 MT/Annum TMT Bars/Rods). ToR issued by SEAC, Bihar 12<sup>th</sup> April, 2016 and public hearing was conducted on 06<sup>th</sup> February, 2017. After submission of the final EIA report dated 12<sup>th</sup> April, 2017.

The proponent and the Consultant presented the proposal before the committee for Environmental Clearance. The project Proponent directed to deposit 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 same of SEIAA, Bihar, Patna as has been decided in the Joint meeting of SEIAA & SEAC dated 23<sup>rd</sup> March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities. After due consideration and discussion, the committee recommended the Environmental Clearance. (Annexure – II).

3. **M/s Shree Balajee Cement Industries Private Limited, Village:-Fatuha, Tehsil:- Industrial Area Fatuha, District:- Patna, State:- Bihar. Online Proposal No.:- SIA/BR/IND/19053/2015.**

Clinker Grinding Unit of M/s Shree Balajee Cement Industries Pvt. Ltd. will be located at Plot No. E-2 (P), E-3, E-4 & E-5, Fatuha Industrial Area, District - Patna, Bihar. Geo Co-ordinates of Project Site are Latitude 25° 29'55.46"N & Longitude 85° 19'46.75"E. Total 25000 Sq. feet (0.57 Acres) area by BIADA for establishment of Clinker Grinding Unit. Land of the project site is allotted in the name of Shree Balajee Cement Industries Pvt. Ltd. Total production capacity 30,000 TPA. ToR issued by SEAC, Bihar 13<sup>th</sup> July 2015. After submission of the final EIA report dated 12<sup>th</sup> April 2017.

The proponent and the Consultant presented the proposal before the committee. 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, in a nationalized bank, pledged in the same of SEIAA, Bihar, Patna as has been decided in the Joint meeting of SEIAA & SEAC dated 23<sup>rd</sup> March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities. After due consideration and discussion, the committee recommended the Environmental Clearance. (As Annexure- III).



4. **SANCHAR NAGAR, PHASE - I A Group Housing Project, Village:- Adampur&LakhniBigha, Tehsil:- Danapur Block, District:- Patna, State:- Bihar, Area:- 9.02 Acres Total Plot Area:- 36,533.37 M<sup>2</sup>, Total Built-up Area - 91,327.42 M<sup>2</sup>, (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 M<sup>2</sup>), which comprises of Floors for residential purposes having total built-up area 91,327.42 M<sup>2</sup>. The proposal was submitted on dated 13<sup>th</sup> April 2017.

The Proponent & Consultant presented the proposal before the committee. After due discussion and consideration, the committee directed the project proponent to submit a revised report on the green cover of the Project i.e. minimum 33% green cover with no of plants, Landscape plan, Excavation plan, Disposal of excavated soil management plan. So deferred for next meeting.

5. **Expansion of Clinker Capacity of Existing Bihar Cement Plant from 3.6 to 4.5 Million TPA Cement (OPC, PPC, PSC & SSC & Wall Putty) and installation of a New Bihar Cement Plant of 5.5 Million TPA Cement (OPC, PPC, PSC & SSC & Wall Putty) at Plot No. NS - 24, NS - 29 & NS - 28(P), Aurangabad Industrial Growth Center (BIADA), District - Aurangabad (Bihar) is proposed by M/s Shree Cement Ltd. (Proposal No. - SIA/3(b)/336/16) Online Proposal No.:-SIA/BR/IND/19010/2016.**

Expansion of Clinker Grinding Capacity of Existing Bihar Cement Plant from 3.6 to 4.5 Million TPA Cement (OPC, PPC, PSC, SSC & Wall Putty). Installation of a New Bihar Cement Plant of 5.5 Million TPA Cement (OPC, PPC, PSC, SSC & Wall Putty). Increase of DG Set Capacity from 2,500 to 3,500 KVA. Total plot area of the project site is 67.74 Acres (27.37 ha) and having plot no. are NS-24, NS-29 & NS-28(P), Aurangabad Industrial Growth Centre (BIADA), Aurangabad. Latitude and longitude of the project are respectively 24°46'18.8" N to 24°46'38.8" N & 84°21'00.8" E to 84°21'27.3" E. ToR issued by SEIAA, Bihar 21<sup>st</sup> December 2016. After submission of the final EIA report dated 20<sup>th</sup> April 2017.

The proponent and the Consultant presented the proposal before the committee. The project Proponent directed to deposit 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 same of SEIAA, Bihar, Patna as has been decided in the Joint meeting of SEIAA & SEAC dated 23<sup>rd</sup> March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities. After due consideration and discussion, the committee recommended the Environmental Clearance (As Annexure- III).





6. **Proposed Lohia Path Chakra at Jawaharlal Nehru Path (Bailey Road) in Between BPSC office (near LatitBhawan) and VidhyutBhawan in Patna, Bihar (Proposal No. - SIA/8(a)/457/17) Online Proposal No.:- SIA/BR/NCP/63452/2017.**

Proposed Lohia Path Chakra at Jawaharlal Nehru Path (Bailey Road) in Between BPSC office (near Lalit Bhawan) and Vidhyu Bhawan in Patna, Bihar. Project site having Latitude 25°32'14.41"N & Longitude 85°13'13.86"E at 52 metre above MSL. Project having area of 1,04,155.37 M<sup>2</sup>.

The Project proponent presented the proposal before the committee. The committee considered the letter from Chairman SEIAA, Bihar letter no. 193 dated 05/10/2015 and the respondent letter no 7043 (E) dated 20-11-2015. As per the aforementioned letters the present case seems to be a case of violation as per recent MoEF&CC notification dated 14<sup>th</sup> march 2017. A site visit by SEAC members is recommended to review the status of the project.

7. **Common Bio-Medical Waste Treatment Facility, Village:-Karai, Tehsil:-Bikram, District:- Patna, State:- Bihar (Proposal No. - SIA7(da)/458/17) Online Proposal No.:-SIA/BR/MIS/18952/2017.**

The Proponent & Consultant both are absent. So deferred for next meeting.

8. **Proposed Commercial Project "Delight Mall FO" at plot No.:- 49, 54, 55, 56, & 57, Khata No.:- 84, 90 & 94, Tauzi No.:- 5519, Thana No.:- 22, Mauza- Jalalpur, Thana - Danapur, Patna, Bihar (Proposal No. - SIA/8(a)/459/17) Online Proposal No.:-SIA/BR/NCP/64080/2017.**

Proposed Commercial Project "Delight Mall FO" at Plot No.-49, 54, 55, 56 & 57, Khata No.-84, 90 & 94, Tauzi No.-5519, Thana No.-22 Mauza- Jalalpur, Thana-Danapur Patna Bihar. Project site having latitude 25°36'46.75"N and longitude 85°03'14.29"E. The total plot area of the project site having 14,980 M<sup>2</sup> and total Built-up area 71,214 M<sup>2</sup>. The proposal was submitted on dated 21<sup>st</sup> April, 2017.

The Proponent & Consultant presented the proposal before the committee. After due discussion and consideration, the committee directed the project proponent to submit a fresh report on the green cover of the Project i.e. 33% green cover. So deferred for next meeting.



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

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

The Proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee directed the project proponent to submit a fresh report on the green cover i.e. 33%. So deferred for next meeting.

10. **Badhokhra Stone Mining Project, Block No.:- 05, Area:- 5.59 hectare, Village:- Bhadokhara, Tehsil- Nawada, District:- Nawada. (Proposal No. - SIA/1(a)/451/17) Online Proposal No.:-SIA/BR/MIN/18783/2015.**

Settlement area/mining lease measuring (5.59 Ha) demarcated as Block No. - 05 by the Mining Department, Govt. of Bihar. Proposed annual production of 10,08,000 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 07<sup>th</sup> October, 2015 and public hearing is conducted on 21<sup>st</sup> January 2017. After submission of the final EIA report dated 29<sup>th</sup> March 2017.

The Proponent & Consultant presented the proposal before the committee. After due consideration and discussion, The project Proponent directed to deposit 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 as has been decided in the Joint meeting of SEIAA & SEAC dated 23<sup>rd</sup> March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities. After due consideration and discussion, the committee recommended the Environmental Clearance (as Annexure - IV).





# New Soil Mining Project

District Name:-Begusarai.

Sl. No.	Proposal Sl. No.	Proposal Details with Address	Mining Location	District	Area (Acre/h ectare)	Geological/ Mineable/Pr oduction 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.
1.	SIA/1(a)/453/17 Online Proposal No. SIA/BR/MIN/6 3522/2017	<b>Soil Mining Project at Village:- Ragunathpur, P.S.:- Sahebpur Kamal, District:- Begusarai, State:- Bihar</b>	Village:- Ragunathpur, P.S.:- Sahebpur Kamal, District:- Begusarai, State:- Bihar	Begusarai	Total Area - 4.97 Ha	Geological Reserve:- <b>96,915Tonne s</b> Mineable Reserve:- <b>87,224 Tonnes</b> Production Per Year (in Ton):- <b>87,224Tonne s</b>	03-04-17	Corner A- 25° 26' 14.84" N 86° 27' 27.69" E Corner B- 25° 26' 10.75" N 86° 27' 26.57" E Corner C- 25° 26' 13.74" N 86° 27' 12.33" E Corner D- 25° 26' 17.17" N 86° 27' 13.51" E	650	219, 126, 21, 22, 187	837, 838, 839, 752, 583, 582, 1126, 675, 895, 694
2.	SIA/1(a)/454/17 Online Proposal No. SIA/BR/MIN/6 3524/2017	<b>Soil Mining Project at Village:- Sadpur, P.O.:- Sadpur, P.S.:- Sahebpur Kamal, District:- Begusarai, State:- Bihar</b>	Village:- Sadpur, P.O.:- Sadpur, P.S.:- Sahebpur Kamal, District:- Begusarai, State:- Bihar	Begusarai	Total Area - 3.71 Ha	Geological Reserve:- <b>96,460 Tonnes</b> Mineable Reserve:- <b>86,814 Tonnes</b> Production Per Year (in Ton):-	03-04-17	Corner A- 25° 26' 41.34" N 86° 21' 13.78" E Corner B- 25° 26' 40.62" N 86° 21' 14.98" E Corner C- 25° 26' 18.89" N 86° 21' 08.89" E Corner D- 25° 26' 19.12" N	663	1060	1304, 1284

						<b>1,76,039.5 Tonnes</b>		<b>86°21' 07.85" E</b>			
--	--	--	--	--	--	------------------------------	--	------------------------	--	--	--

The Proponent & Consultant presented the proposal before the committee. After due consideration and discussion, The project Proponent directed to deposit 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 as has been decided in the Joint meeting of SEIAA & SEAC dated 23<sup>rd</sup> March, 2017. The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities. After due consideration and discussion, the committee recommended the Environmental Clearance (as Annexure – VI).





# New Soil Mining Project

District Name:-Begusarai.

Sl. No.	Proposal Sl. No.	Proposal Details with Address	Mining Location	District	Area (Acre/hect are)	Geological/ Mineable/Pr oduction 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.
1.	SIA/1(a)/452 /17  Online Proposal No. SIA/BR/MIN /63518/2017	<b>Soil Mining Project at Village:- MathaniJalal pur, P.S.:- Matihani, District:- Begusarai, State:- Bihar</b>	Village:- MathaniJalal pur, P.S.:- Matihani, District:- Begusarai, State:- Bihar	Begusarai	Total Area - 4.98 Ha	Geological Reserve:- <b>1,29,480 Tonnes</b> Mineable Reserve:- <b>1,16,532 Tonnes</b> Production Per Year (in Ton):- <b>2,33,064</b>	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 Proponent & Consultant presented the proposal before the committee. After due consideration and discussion, the committee directed the project proponent to submit a fresh report of contour Map, Land use pattern. So deferred for next meeting.

## Sand Mining Project (Under Compliance)

District Name:-Nalanda.

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)/344/16	<b>Nalanda Sand Blocks (Block II of Strech I) Mining Project</b>	Vill- Patoriya, Tehsil- Biharsharif, Dist- Nalanda	Nalanda	Total Area- 25.08 hect	Geological Reserve:- <b>14,34,942 Tonnes</b> Mineable Reserve:- <b>13,50,066 Tonnes</b> Production Per Year (in Ton):- <b>8,24,508 TPA</b>	24-10-16	Corner A- 25°03' 45.31" N 85°34' 47.86" E Corner B- 25°03' 44.81" N 85°34' 55.85" E Corner C- 25°03' 20.61" N 85°34' 40.00" E Corner D- 25°03' 21.72" N 85°34' 26.43" E			Plot No.- 1134, 35, 36, 1143, 1147, 1150, 51, 52, 53, 54, 55, 56, 57, 1165, 66, 67, 68, 69, 70, 71, 72, 73, 74, 1181, 82, 1183, 1184, 1187, 88, 1190, 1196	Parman and Pur Ghat

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






It has been resolved that the next meeting of SEAC will be held on 26<sup>th</sup> May, 2017 and the Agenda would be communicated to all member and concerned, one week prior to the date of the meeting.

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

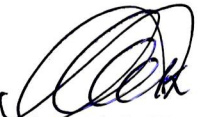
- (I) Credible action should be taken by SEIAA, against the violation cases as per the latest MoEF&CC / NGT guidelines.
- (II) Affidavit related to violation / non-violation cases maybe procured from all the proponents who have received the Environmental Clearance.
- (III) The aforementioned two Clauses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

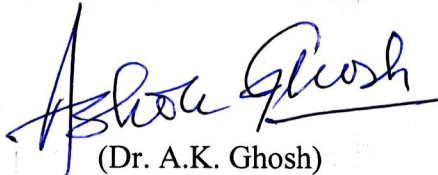
(V. K. Sinha)  
(Member, SEAC)



(Dr.S.K. Singh)  
(Member,SEAC)



16/5/17  
(Shri Alok Kumar)  
Secretary, SEAC



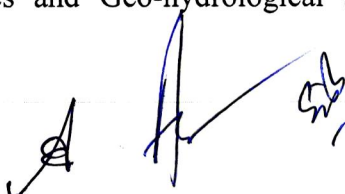
(Dr. A.K. Ghosh)  
Chairman, SEAC

# **Annexure:- I**

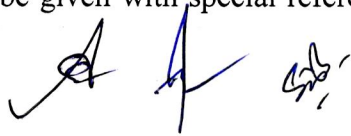
## **Term of Reference(ToR) for Paper Mill Projects**

### **STANDARD TERMS OF REFERENCE**

1. Executive Summary.
2. Introduction.
  - a) Details of the EIA Consultant including NABET accreditation.
  - b) Information about the project proponent.
  - c) Importance and benefits of the project.
3. Project Description.
  - a) Cost of project and time of completion.
  - b) Products with capacities for the proposed project.
  - c) If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier Environmental Clearance if any.
  - d) List of raw materials required and their source along with mode of transportation.
  - e) Other chemicals and materials required with quantities and storage capacities.
  - f) Details of Emission, effluents, hazardous waste generation and their management.
  - g) Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
  - h) Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided.
  - i) Hazard identification and details of proposed safety systems.
4. Site Details.
  - a) Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
  - b) 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).
  - c) Details w.r.t. option analysis for selection of site.
  - d) Co-ordinates (lat-long) of all four corners of the site.
  - e) Google map-Earth downloaded of the project site.
  - f) Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
  - g) Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
  - h) Landuse break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area).
  - i) A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area.
  - j) Geological features and Geo-hydrological status of the study area shall be included.





- k) Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects).
  - l) Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
  - m) R&R details in respect of land in line with state Government policy.
5. Forest and wildlife related issues (if applicable):
- a) Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).
  - b) Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).
  - c) Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
  - d) The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.
  - e) Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.
  - f) Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.
6. Environmental Status.
- a) Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
  - b) AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
  - c) Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
  - d) Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
  - e) Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
  - f) Ground water monitoring at minimum at 8 locations shall be included.
  - g) Noise levels monitoring at 8 locations within the study area.
  - h) Soil Characteristic as per CPCB guidelines.
  - i) Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
  - j) Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered
- 

species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

k) Socio-economic status of the study area.

7. Impact and Environment Management Plan.

- a) Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- b) Water Quality modelling - in case of discharge in water body.
- c) Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.
- d) A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- e) Details of stack emission and action plan for control of emissions to meet standards.
- f) Measures for fugitive emission control.
- g) Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
- h) Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- i) Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- j) Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- k) Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- l) Action plan for post-project environmental monitoring shall be submitted.
- m) Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8. Occupational health.

- a) Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.





- b) Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
  - c) Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved.
  - d) Annual report of health status of workers with special reference to Occupational Health and Safety.
9. Corporate Environment Policy.
- a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
  - b) Does the Environment Policy prescribe for standard operating process /procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms /conditions? If so, it may be detailed in the EIA.
  - c) What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
  - d) Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report.
10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.
11. Enterprise Social Commitment (ESC).
- a) Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.
12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
13. A tabular chart with index for point wise compliance of above TOR.

Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website.

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





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

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

A handwritten signature in blue ink, consisting of a stylized 'A' followed by a long horizontal stroke and a vertical stroke, with a small flourish at the end.

## **Annexure:- II**

### **Environmental Clearance Conditions for BalmukundConcast Ltd.**

#### **PART A – SPECIFIC CONDITIONS**

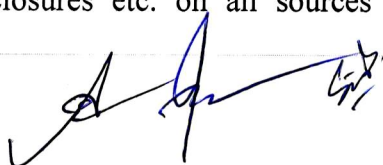
- i. No change of Products or capacity shall be undertaken without prior approval of SEIAA, Bihar/MoEF&CC, Govt. of India.
- ii. Sufficient air pollution control system viz. Fume extraction system with dust collectors, ID Fan and Stack of adequate height (as per CPCB) to furnace shall be provided to control emission below 50 mg/NM<sup>3</sup>.
- iii. Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed.
- iv. The total water requirement shall not exceed 25m<sup>3</sup>/day. 'Zero' Effluent discharge shall be strictly followed and no wastewater should be discharged outside the premises.
- v. Solid waste viz. dust generated shall be properly recycled and reutilized in the process itself.
- vi. The unit must develop a separate water body to harvest rain water so as to use the stored water for serving partial requirement of plant as also to use for plantation, firefighting, washing & cleaning etc. Recharging of ground water is not permitted.
- vii. Green belt over 33% of the total project area should be developed and maintained within plant premises with at least 10 m. wide green belt on all sides along the periphery of the project area in downward direction to mitigate the effects of fugitive emissions as per the CPCB guidelines.
- viii. Occupational Health Surveillance of Workers including regular analysis for respiratory and audiometric parameters shall be done on a regular basis and records shall be maintained as per the Factories Act.
- ix. Proper housekeeping shall be maintained within premises. Process machinery, exhaust and ventilation systems shall be laid in accordance with Factories Act. Better housekeeping practices should be adopted for improvement of the environment within the work environment.
- x. Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.



- xi. Adequate measures to be adopted to ensure industrial safety.
- xii. At least 2.5% of the profit of the project shall be earmarked towards Corporate Social Responsibility (CSR) based on local needs and details alongwith time schedule for implementation shall be prepared and submitted to the SEIAA, Bihar.
- xiii. Slags (containing iron) generated due to proposed project operation should not be used for land filling. All the generated iron slag shall be used for cement manufacturing or reuse in iron industries.
- xiv. Regular Monitoring and analysis of all environmental components viz. Ambient Air Quality, Stack Emission, Noise Level and Ground water should be done and reports should be submitted to BSPCB, Patna / SEIAA, Bihar.
- xv. Parking & road will not come up in green belt area.
- xvi. For withdrawal of ground water authorization from C.G.W.B. if applicable.

#### **PART B – GENERAL CONDITIONS**

- i. The project authorities must strictly adhere to the stipulations made by the Bihar State Pollution Control Board and the State Government.
- ii. Project Proponent should obtain prior Consent to Establish (NOC) under Sec. 25 & 26 of The Water (Prevention & Control of Pollution) Act'1974 and under Sec. 21 of The Air (Prevention & Control of Pollution) Act'1981 from Bihar State Pollution Control Board before start of any construction activities.
- iii. Project Proponent should obtain prior Consent to Operate under Sec. 25 & 26 of the Water (Prevention & Control of Pollution) Act'1974 and under Sec. 21 of The Air (Prevention & Control of Pollution) Act'1981 from State Pollution Control Board before start of production activities.
- iv. Water Meters shall be installed at water intake point and water cess should be submitted to SPCB as per guidelines of E(P) Act.
- v. At least Four Ambient Air Quality Monitoring Stations shall be set up. One in the down wind direction and three where maximum ground level concentration of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub>, are anticipated in consultation with the Bihar State Pollution Control Board. Data on ambient air quality and stack emission shall be regularly monitored and test reports will be submitted to SEIAA Bihar / BSPCB / once in six months.
- vi. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient





noiselevels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA ( day time) and 70 dBA ( night time).

- vii. The project authorities shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. The company shall comply with the recommendations made in the EIA/EMP report.
- ix. The project authorities shall earmarked requisite funds towards capital and recurring cost/annum for environment pollution control measures 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.
- x. The applicant shall inform the public that the project has been accorded environmental clearance by SEIAA and that the copies of the clearance letter are available with the Website of SEIAA. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Hindi language and the other in English. A copy each of the same shall be forwarded to SEIAA, Bihar.
- xi. 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 soft copy by e-mail) to the Regional Office of MoEF&CC at Ranchi, SEIAA, & Bihar and the State Pollution Control Board.
- xii. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to Regional Office of MoEF (Ranchi) &SEIAA, Bihar.
- xiii. 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 the public that the proposed expansion 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, Bihar. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of MoEF&CCat Ranchi& SEIAA Bihar.
- xiv. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.



## **PART C – CONDITIONS FOR ENTIRE LIFE OF PROJECT**

- i. No further expansion / modification in the plant shall be carried out without prior permission of SEIAA, Bihar / MoEF, Govt. of India.
- ii. Project Proponent should obtain Consent to Operate under Sec. 25 & 26 of The Water (Prevention & Control of Pollution) Act'1974 and under Sec. 21 of The Air (Prevention & Control of Pollution) Act'1981 from State Pollution Control Board regularly.
- iii. Slags generated due to proposed project operation should not be used for land filling. All the generated iron slag shall be used for cement manufacturing or reuse in iron industries.
- iv. Occupational Health Surveillance of Workers including regular analysis for respiratory and audiometric parameters shall be done on a regular basis and records shall be maintained as per the Factories Act.
- v. Proper housekeeping shall be maintained within premises. Process machinery, exhaust and ventilation systems shall be laid in accordance with Factories Act. Better housekeeping practices should be adopted for improvement of the environment within the work environment.
- vi. Green belt over 33% of the total project area should be maintained within plant premises with atleast 10 m. wide green belt on all sides along the periphery of the project area in downward direction to mitigate the effects of fugitive emissions as per the CPCB guidelines.
- vii. Regular water sprinkling should be done on the roads inside the plant and other high potential areas to control the fugitive dust emission.
- viii. The environmental clearance accorded shall be valid for a period of 5 years for the proposed project. The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification, 2006 and their amendments.
- ix. The project authorities must strictly adhere to the stipulations made by the Bihar State Pollution Control Board and the State Government.

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.



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.

Two handwritten signatures in blue ink. The first signature is a stylized 'A' with a checkmark. The second signature is a more complex, flowing script.Three handwritten signatures in blue ink. The first is a stylized 'A' with a checkmark. The second is a complex, flowing script. The third is a smaller, more compact signature.



## **Annexure:- III**

### **Environmental Clearance Conditions for Cement Grinding Projects**

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

1. The gaseous emissions from various process units should conform to the load/mass based standards prescribed by the Ministry of Environment & Forests and the State Pollution Control Board from time to time. At no time the emission level should go beyond the prescribed standards.
2. Cement grinding shall be carried out in closed cement mill. Further, provision of dust extraction and pollution control system consisting of highly efficient Bag Filters and ID Fan should be provided for Cement for Cement Mill, Clinker Silo, Fly Ash Storage Silo, Cement Silo, Wagon and Gypsum Crushing Plant with adequate stack height. Stack emissions shall be monitored at regular intervals and records maintained.
3. The stack emission from various sources shall not exceed  $50 \text{ mg/Nm}^3$  as per the MoEF&CC notification G.S.R. 46(E) dated 03-02-2006.
4. Transportation of fly ash to the plant should be brought through tankers and stored in silo without any air pollution at transfer point.
5. Regular monitoring of the air quality shall be carried out in and around the plant and records shall be maintained.
6. Adequate dust suppression and extraction system should be provided in material storage areas, material loading/unloading areas and transfer points for controlling fugitive emission. Fugitive dust emissions from ball mill and storage areas shall be collected in bag filters and recycled back to the process.
7. Regular water sprinkling should be done on the roads inside the plant and other high potential areas to control the fugitive dust emission.
8. Suction head should be provided at all transfer dust emission.
9. Groundwater shall not be abstracted without prior permission of competent authority i.e., Central Ground Water Commission Board if applicable.
10. Groundwater shall not be abstracted without prior permission of competent authority i.e., Central Ground Water Commission Board if applicable.
11. Clinker manufacturing is not permitted under this environmental clearance.



12. Solid waste viz. dust generated shall be properly recycled and reutilized in the process itself.
13. The unit must develop a separate water body to harvest rain water so as to use the stored water for serving partial requirement of plant as also to use for plantation, firefighting, washing & cleaning etc. Recharging of ground water is not permitted.
14. Green belt shall be developed in and around the plant premises. Green belt to be developed at least 33% of the project area. Selection of appropriate species for the plantation programme may be done in consultation with the Environment & Forest Deptt., Bihar.
15. Ambient noise level should not exceed the permissible limit. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB (A) (daytime) and 70 dB (A) (nighttime) and its subsequent amendments.
16. Generators must be housed in acoustic enclosure and should meet the CPCB norms.
17. All internal roads should be concrete /pitched. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicular movement. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should conform to pollution under control (PUC) norms. Proper House Keeping shall be maintained within the premises. Solar lighting should be used as far as practicable.
18. Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
19. Adequate measures to be adopted to ensure industrial safety.
20. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
21. No civil construction shall be constructed below the high tension wire passing through the proposed site of the unit.



22. Follow all the safety measures as per The Indian Electricity rules, 1956 & its amendment.

**B. General Conditions:**

1. The project proponent shall comply with all the environmental protection measures and safeguards recommended. Further, the unit must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes and health care, etc.
2. All the conditions, liabilities and legal provisions contained in the E.C 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.
3. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits.
4. The project proponent should make financial provision in the total budget of the project for implementation of the environmental safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
5. At least 2.5% of the profit of the project shall be earmarked towards Corporate Social Responsibility (CSR) based on local needs and details alongwith time schedule for implementation shall be prepared and submitted to the SEIAA, Bihar.
6. No further expansion or modifications in the plant should be carried out without prior approval of the State Environmental Impact Assessment Authority Bihar.
7. The State Environment Impact Assessment Authority, Bihar, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to BSPCB and SEIAA, Bihar regularly. This report shall be also put on the website of the Company and also regularly be updated.
8. In the case of any changes(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA.
9. The project Proponent should inform the public that the project has been accorded environmental clearance by SEIAA and copies of the clearance letter are available with the SEIAA Secretariat and may also be seen at Website. This should be advertised by the project proponent within seven days from the widely circulated in the region of which one shall be in the vernacular language of the locality concerned.





10. Prior Consent-to-Establish (NOC) for the proposed project must be obtained from BSPCB before commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.
11. The environmental clearance accorded shall be valid for a period of 5 years for the proposed project. The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification, 2006 and their amendments.
12. 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.

**C. Other points**

1. The responsibility for implementation of environmental safeguards rest fully with the project proponent.
2. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority if that be so, legal action as per the provision of Environment (protection) Act, 1986.
3. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
4. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Bihar for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
5. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and 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.

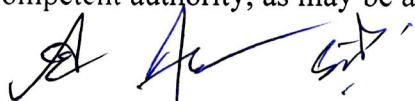


## **Annexure:-IV**

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

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

1. Prior to stone mining, the proponent shall get the vibration studies of blasting (Zone of influence) done by a recognized Institute e.g. Indian Institute of Mines (ISM), Dhanbad, and submit report to SEIAA office before mining operation. If mining activities is carried out without the vibration studies, the Environmental Clearance shall be considered revoked automatically.
2. Rehabilitation of villages, if any,
3. The project proponent shall adopt best mining practice. In the mining area, adequate numbers of check dams, retaining walls, garland drains and setting ponds should be provided to arrest the wash-off with rain water in catchment area.
4. The natural water bodies and streams which are flowing in and around the village should not be disturbed. The water table should be natured so as not to go down below the pre-mining period. Regular monitoring of water table in the open dug well located in the villages should be done to ascertain the impact mining over the ground water table.
5. The Proponent must ensure that villagers nearby get good sleep at night (noise levels should be within prescribed limit.
6. The Project proponent should not disturb the grazing ground for cattle.
7. Main Haulage road in the mine should be provided with permanent water sprinklers as well as other roads be wetted with water tankers fitted with sprinklers.
8. The Project proponent shall ensure that the productivity of the agricultural crops is not affected due to mining operations.
9. Transportation of the minerals by road passing through the village shall be allowed rather by pass road should be constructed. The proponent shall bear the cost towards widening and strengthening the existing public road network in case the same is used for the project.
10. As CSR activities, the mining establishment shall spend up 2.5 % of their financial turn over.
11. The environmental clearance is subject to grant of mining lease by the Department of Mines, Government of Bihar to PP and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
12. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in MoEF&CC Guidelines.
13. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any





fauna occurs / is found in the Project area). No damage is to be done to fauna if found in Mining Lease (ML) area (as mentioned in various schedules). In case found they should be given protection, collected alive with the help of the expert and transferred them or handling over them to the concerned authorities. Conservation Plan, if applicable has to be adhered to.

14. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
15. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the SEIAA, Bihar Patna/ BSPCB, Patna its nearest Regional Office on six monthly basis.
16. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, and other water bodies. The water so collected should be utilized for watering the mine area, haul roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
17. Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
18. Greenbelt shall be developed all along the mine lease area. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. Plantation should be completed within 3 Years.
19. Toilet for BPL family must be provided and facilities of drinking water for villagers for its established of a tank for drinking water.
20. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
21. The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Bihar / Central Ground Water Board.
22. Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.





23. No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
24. Drills shall either be operated with the dust extractors or equipped with water injection system.
25. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
26. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
27. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
28. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
29. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
30. The proponent shall submit mining closure plan to SEIAA Bihar, before the start of mining, failing which Environment Clearance shall be revoked.
31. The project proponent shall obtain NOC and Consent to establish/Consent to Operate from the Bihar State Pollution Control Board, Patna and effectively implement all the conditions stipulated therein.

## **B. General conditions**

1. No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Bihar, SEIAA, Bihar, Bihar State Pollution Control Board, Patna during the EC period.
2. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
3. The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
4. The Project proponent shall maintain register for production and dispatch and submit return to the Board.



5. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
6. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
7. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
8. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
9. Dispensary facilities for First Aid shall be provided at site.
10. A separate environmental management / monitoring cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
11. The SEIAA, Bihar directly shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
12. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA, Bihar.
13. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad / 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**

7. The responsibility for implementation of environmental safeguards rest fully with the project proponent.
8. 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.
9. 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.

10. 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.
11. 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.

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.

A handwritten signature in blue ink, consisting of stylized, overlapping loops and a long horizontal stroke extending to the right.

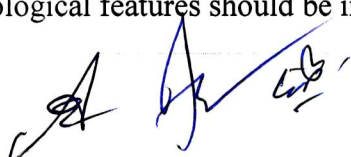


## **Annexure:-V**

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

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

1. A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be included in the EIA Report.
2. All documents including approved mine plan, EIA and public hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management and mining technology and should be in the name of the lessee.
3. Khata No. & Plot No. to be provided in this EIA/EMP.
4. All corner coordinates of the mine lease area superimposed on High Resolution Imagery / toposheet should be provided. All Balughats falling under the panchayat have to be indicated in one map and distance between there should be clearly marked. In case some total of Area of Balughats falling within 1 Km of each other exceeds 50 Ha then the cluster will fall under 'A' category. This has to be clearly shown in the map and confirmed.
5. Does the Environment Policy prescribe for standard operating process/procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
6. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
7. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.
8. The terms and conditions imposed, if any, by the Competent Authority in the State Government while granting mining lease should be built into the mine plan as well as the EIA report. It may inter-alia include; area of working, mode of working, working shift, transportation of mineral etc.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary and national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated.



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





21. Status of forestry clearance for the broken up area and virgin forestland involved in the project including deposition of net present value (NPV) and compensatory afforestation (CA). A copy of the forestry clearance should also be furnished.
22. Implementation of status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
23. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required should be worked out with cost implications and submitted.
24. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves (existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, if any, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above should be obtained from the State Wildlife Department/Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished. In case, there is no such Eco-sensitive area within 10 km, the boundary of the nearest Eco-sensitive area with its distance shall be marked in a drawing and included in EIA / EMP Report.
25. A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on primary field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for Implementing the same should be made as part of the project cost.
26. Impact, if any, of change of land use should be given.
27. R&R plan / compensation details for the project affected people should be furnished. While preparing the R&R plan, the Bihar State and National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs / STs and other weaker sections, need based sample survey, family-wise, should be undertaken to assess their requirement and action programmes prepared accordingly integrating the sectoral programme of line departments of the State Government.
28. Collection of one season (non-monsoon) primary baseline data on ambient air quality, water quality, noise level, soil and flora and fauna. Site-specific meteorological data should also be collected. The location of the monitoring stations should be justified. Date wise collected baseline AAQ data should form part of EIA and EMP report. The mineralogical composition of RSPM/SPM particularly for free silica should be given. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10 particularly for free silica should be given.





29. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
30. The water requirement for the project, its availability and source to be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should be indicated.
31. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
32. Details of water conservation measures proposed to be adopted in the project should be given.
33. Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand / Central Ground Water Board.
34. Quantity of solid waste generation to be estimated and details for its disposal and management should be provided. The quantity, volumes and methodology planned for removal and utilization (preferably concurrently) of top soil should be indicated.
35. Impact on local transport infrastructure due to the project should be indicated. Projected increase in truck traffic as a result of the project in the present road network (including those outside the project area) should be worked out, indicating whether it is capable of handling the increased load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.
36. Details of the infrastructure facilities to be provided for the mine workers should be included in the EIA report.
37. Phase-wise plan of greenbelt development, plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.
38. Occupational health impact of project should be anticipated and preventive measures initiated. Details in this regard should be provided. Details of pre placement medical examination and periodical medical examination schedules should be incorporated in the EMP.
39. Public health implication of the project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocation.

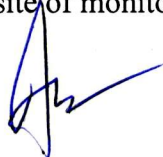


40. Measures of socio economic significance and influence to the local community proposed to be provided by project proponent should be indicated. As far as possible, quantitative dimensions may be given with time frame for implementation.
41. Detailed environmental management plan to mitigate the environmental impacts which, should inter-alia also include the impact due to change of land use, due to loss of agricultural land and grazing land, if any, occupational health impacts besides other impacts of the projects.
42. Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
43. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be included. Socio-economic development activities need to be elaborated upon.
44. Total capital cost and recurring cost/annum for environmental pollution control measures should also be included.
45. Details of litigation pending against the project, if any, with direction / order passed by any Court of Law against the project should be given.
46. Public hearing.  
The following general points should be noted:
  - I. Properly indexed, page numbered.
  - II. Period/date of data collection should be clearly indicated. (non-monsoon)
  - III. Authenticated English translation of all material in Regional languages should be provided.
  - IV. The letter/application for environmental clearance should quote the SEIAA, Bihar file No. and also attach a copy of the letter.
  - V. Site related monitoring shall be carried out for 3 months in one season (non monsoon).
  - VI. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report
  - VII. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.1I (I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.



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

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





## **Annexure:-VI**

### **Environmental Clearance for Ordinary Earth Evacuation Projects**

1. The burrowing / excavation of brick earth and ordinary earth for the purpose of brick manufacturing, construction of roads, embankments etc. shall not involve blasting.
2. The burrowing/excavation activity shall be restricted to a maximum depth of 2 meters below general ground level at the site.
3. The burrowing /excavation activity shall be restricted to 2 meters above the ground water table at the site.
4. The burrowing/excavation activity shall not alter the natural drainage pattern of the area.
5. The burrowing/excavation pit shall be restored by the project proponent for useful purpose.
6. Appropriate fencing all around the burrow /excavation pit shall be made to prevent any mishap.
7. Measures shall be taken to prevent dust emission by covering of burrowed /excavated earth during transportation.
8. Safe guards shall be adopted against health risk on account of breeding of vectors in the water bodies created during burrowing/excavation of earth. \
9. Workers / labourers shall be provided with facilities for drinking water and sanitation.
10. A beam shall be left from the boundary of adjoining field having a width equal to at least half depth of the proposed excavation.
11. A minimum distance of 15 meters from any civil structure shall be kept from the periphery of an excavation area.
12. The concerned SEIAA while considering granting environmental clearance for such activity for brick earth / ordinary earth will prescribe the guidelines as stated at 1 to 11 above and specify that the clearance so granted shall be liable to be cancelled in case of any violation of above guidelines.
13. 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 soft copy by e-mail) to the Regional Office of MoEF&CC at Ranchi, SEIAA, & Bihar and the State Pollution Control Board.

