

Minutes of 415th SEAC Meeting Dated 07/08/2019

The 415th meeting of SEAC was held in Directorate of Environment, U.P. on 07/08/2019 following members were present in the SEAC:

1.	Dr. (Prof.) S.N. Singh,	Chairman
2.	Dr. Sarita Sinha,	Member
3.	Dr. Arvind Mathur,	Member
4.	Dr. Virendra Misra,	Member
5.	Dr. Pramod Kumar Mishra,	Member
6.	Dr. Richhpal Singh Sangu,	Member
7.	Shri Ramesh Chand Kataria,	Member
8.	Dr. Ajoy Kumar Mandal,	Member
9.	Shri Meraj Uddin,	Member
10.	Shri Rajive Kumar,	Member

The Chairman welcomed the members to the 415th SEAC meeting.

The SEAC unanimously took following decisions on the agenda points discussed:

1. **Brick Earth Mining at Gata No.-6/2 at Village- Chandner & Jakhauta, Tehsil- Gabhana, Aligarh, U.P., M/s Kanha Ent Udyog, (Area: 2.367 Ha) File No. 4901/Proposal No. SIA/UP/MIN/33753/2019**

RESOLUTION AGAINST AGENDA NO-01

The project proponent did not appear. The committee discussed and deliberated that the project file should be closed and be opened only after request from the project proponent. The file shall not be treated as pending at SEAC. The matter will be discussed only after submission of online request on prescribed online portal.

2. **Brick Earth Mining at Gata No.-148, 145 & 146, at Village-Gopalpur, Tehsil- Koil, Aligarh, M/s Shree Balaji Ent Udyog, (Area: 2.90Ha) File No. 4902/Proposal No. SIA/UP/MIN/34964/2019**

RESOLUTION AGAINST AGENDA NO-02

The project proponent did not appear. The committee discussed and deliberated that the project file should be closed and be opened only after request from the project proponent. The file shall not be treated as pending at SEAC. The matter will be discussed only after submission of online request on prescribed online portal.

3. **Brick Earth Mining at Gata No.-1029, at Village-Nah & Wajidpur, District-Aligarh, M/s R.S. Brick Dwitiya,(Area: 2.741 Ha) File No. 4903/Proposal No. SIA/UP/MIN/33562/2019**

RESOLUTION AGAINST AGENDA NO-03

The project proponent did not appear. The committee discussed and deliberated that the project file should be closed and be opened only after request from the project proponent. The file shall not be treated as pending at SEAC. The matter will be discussed only after submission of online request on prescribed online portal.

4. **Earth Mining From Gata No.-1387, 489 & 639, Village- Malikapur, Tehsil-Lambuha, District-Sultanpur, U.P., M/s Nasim Ahmad Ent Bhatta. Leased Area -1.526 ha File No. 4796/Proposal No. SIA/UP/MIN/33955/2019**

RESOLUTION AGAINST AGENDA NO-04

The project proponent did not appear. The committee discussed and deliberated that the project file should be closed and be opened only after request from the project proponent. The file shall not be treated as pending at SEAC. The matter will be discussed only after submission of online request on prescribed online portal.

5. **Sand Mining (Minor Mineral) at Khasra No.-108/1, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, at Village- Nai Nagla, Manglaura Jadid, Tehsil- Uun, District-Shamli. Shri Jagjeet Sen (Area-44.064 Ha) File No. 4049/Proposal No. SIA/UP/MIN/21803/2018**

RESOLUTION AGAINST AGENDA NO-05

A presentation was made by the project proponent along with their consultant M/s Vardan Environet. The committee found that a complaint/objection in the case has been submitted by Mr. Virendra Singh, R/o 452, Tutauli, Shamli, U.P. regarding formation of District Survey report without proper replenishment study. The complainant has submitted a replenishment study report conducted by National Institute of Technology, Kurukshetra.

The committee discussed the matter and opined that the Environmental Clearance cannot be granted under these circumstances. The committee directed the Secretariat to send a letter to District Magistrate, Shamli for providing the factual report regarding the complaint of Mr. Virendra Singh.

6. **Building Stone,(Khandas & Gitti, Boulder) Mine at Gata No./Araji No./Plot No.- 87, Khand No.-01, Villlage-Dasna, Tehsil-Moth, District-Jhansi, U.P., M/s Khare Traders, Leased Area - 1.214ha File No. 4735/Proposal No. SIA/UP/MIN/33037/2019**

RESOLUTION AGAINST AGENDA NO-06

A presentation was made by the project proponent along with their consultant M/s Paramarsh (Servicing Environment and Development). The committee discussed the matter and directed the project proponent to submit revised cluster certificate for further consideration of the matter. The matter will be discussed only after submission of online information on prescribed online portal.

7. Building Stone (Khandas, Gitti & Boulder) Mining Project at Gata No.-42 & 44, Khand No.-05 at Village-Baruwasvoda, Tehsil- Naraini, District- Banda, U.P., Leased Area -1.46 ha File No. 4938/Proposal No. SIA/UP/MIN/39559/2019

RESOLUTION AGAINST AGENDA NO-07

The project proponent did not appear. The committee discussed and deliberated that the project file should be closed and be opened only after request from the project proponent. The file shall not be treated as pending at SEAC. The matter will be discussed only after submission of online request on prescribed online portal.

8. Sand/Morrum Mining at Yamuna River Bed in Khand No.-02, Village-Daulatpur Kachhar, Tehsil- Bhognipur, District- Kanpur Dehat, U.P., (Leased Area-12.15 Ha), M/s Anthracite Infra Pvt. Ltd., File No. 4940/Proposal No. SIA/UP/MIN/38777/2019

A presentation was made by the project proponent along with their consultant M/s Paramarsh (Servicing Environment and Development). The proponent, through the documents submitted and the presentation made, informed the committee that:-

1. The environmental clearance is sought for Sand/Morrum Mining at Yamuna River Bed in Khand No.-02, Village-Daulatpur Kachhar, Tehsil- Bhognipur, District- Kanpur Dehat, U.P., (Leased Area-12.15 Ha), M/s Anthracite Infra Pvt. Ltd.
2. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/38777/2019																
2. File No. allotted by SEIAA, UP	4940																
3. Name of Proponent	M/s Anthracite Infra Private Limited Shri Ankit Sachan S/o Shri Santosh Sachan																
4. Full correspondence address of proponent and mobile no.	Shri Ankit Sachan S/o Shri Santosh Sachan, R/o B 202, Gopala Green Ratanlal Nagar, Thana – Govind Nagar, District – Kanpur Nagar, Uttar Pradesh.																
5. Name of Project	Terms of Reference for Proposed River Bed Sand Mining having lease area 12.15 ha (30.00 acre) along River Yamuna in Khand No. 02 at Village – Daulatpur Kachhar, Tehsil –Bhogipur, District – Kanpur Dehat, U.P. of M/s Anthracite Infra Private Limited.																
6. Project location (Plot/Khasra/Gata No.)	Khand No.2,																
7. Name of River	Yamuna																
8. Name of Village	Daulatpur Kachhar																
9. Tehsil	Bhognipur																
10. District	Kanpur Dehat																
11. Name of Minor Mineral	River Bed Sand																
12. Sanctioned Lease Area (in ha.)	12.15 ha																
13. Zero level mRL	95.8																
14. Max. & Min mRL within lease area	The highest level is 102.30 mRL the lowest level is 96.7 mRL																
15. Pillar Coordinates (Verified by DMO)		<table><tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr><tr><td>A</td><td>25° 08' 11.96"N</td><td>79° 45'5.60"E</td></tr><tr><td>B</td><td>25° 08' 22.54"N</td><td>79° 45'1.20"E</td></tr><tr><td>C</td><td>25° 08' 16.03"N</td><td>79° 44'49.40"E</td></tr><tr><td>D</td><td>25° 08' 05.30"N</td><td>79° 44'55.22"E</td></tr></table>	Point	Latitude	Longitude	A	25° 08' 11.96"N	79° 45'5.60"E	B	25° 08' 22.54"N	79° 45'1.20"E	C	25° 08' 16.03"N	79° 44'49.40"E	D	25° 08' 05.30"N	79° 44'55.22"E
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D	25° 08' 05.30"N	79° 44'55.22"E															
16. Geological Reserves	5,21,176 m ³																
17. Mineable Reserves	1,94,403 m ³																
18. Total Proposed Production	9,72,000 m ³ (5 Year)																
19. Proposed Production/year	1,94,400 m ³ /annum																
20. Sanctioned Period of Mine lease	5 years																

21. Production of mine/day	777 m ³	
22. Method of Mining	Opencast semi- mechanized method	
23. No. of working days	250	
24. Working hours/day	8 hrs	
25. No. of workers	55	
26. No. of vehicles movement/day	60	
27. Type of Land	Govt./Non Forest Land	
28. Depth of Mining	3.00 m	
29. Nearest metalled road from site	0.77 Km	
30. Water Requirement	PURPOSE	REQUIREMENT (KLD)
	Drinking	0.55 KLD
	Suppression of dust	9.24 KLD @ 1.0 L for 1 sqm (2 time a day)
	Plantation	1.84 KLD @ 5 lit/plant
	Total	11.63 KLD
31. Name of QCI Accredited Consultant with QCI No period of validity.	Paramarsh (Servicing Environment and Development) 110 21 May 2021	
32. Any litigation pending against the project or land in any court	No	
33. Details of 500 m Cluster Map & certificate verified by Mining Officer	Letter No-282/UP Khanij Ka De Cluster/Parya/2019 dated 07.06.2019	
34. Details of Lease Area in approved DSR	Page No- 9 S.No. 5	
35. Proposed CER cost	Project cost – 65.0 lacs/annum CER – 1.30 lacs (2% of Total Cost)	
36. Length and breadth of Haul Road	0.77 km and 6m	
37. No. of trees to be planted	200	

3. The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
4. This project does not attract any of the general conditions applicable on mining projects specified in EIA Notification 14/09/2006.
5. The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
6. There is no litigation pending in any court regarding this project.
7. The project proposal falls under category–1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-08

The committee discussed the matter and recommended to issue the terms of reference (TOR) for the preparation of EIA as annexed at annexure-1 to these minutes.

9. Sand/Morrum Mining Yamuna River Bed in Gata No.-826mi/2 at Village- Behmai, Tehsil- Sikandara, District-Kanpur Dehat, U.P., (Leased Area-25.0 Ha), M/s Laxmi Khad Bhandar, File No. 4941/Proposal No. SIA/UP/MIN/38778/2019

A presentation was made by the project proponent along with their consultant M/s Paramarsh (Servicing Environment and Development). The proponent, through the documents submitted and the presentation made, informed the committee that:-

1. The environmental clearance is sought for Sand/Morrum Mining Yamuna River Bed in Gata No.- 826mi/2 at Village- Behmai, Tehsil- Sikandara, District-Kanpur Dehat, U.P., (Leased Area-25.0 Ha), M/s Laxmi Khad Bhandar.
2. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/38778/2019																																		
2. File No. allotted by SEIAA, UP	4941																																		
3. Name of Proponent	M/s Laxmi Khad Bhandar Shri Bhagwan Das Gupta (Prop)																																		
4. Full correspondence address of proponent and mobile no.	Shri Bhagwan Das Gupta S/o Shri Laxmi Narayan Gupta R/o Village and Post – Maharajpur, Thana – Maharajpur, District – Kanpur Nagar, Uttar Pradesh - 209402																																		
5. Name of Project	Proposed River Bed Sand/Morrum Mining having lease area 25.0 ha (61.77 acre) along River Yamuna in Gata No.- 826mi/2, at Village Behmai, Tehsil- Sikandara, District-Kanpur Dehat, U.P., M/s Laxmi Khad Bhandar, (Leased Area-25.0 Ha)																																		
6. Project location (Plot/Khasra/Gata No.)	826mi/2																																		
7. Name of River	Yamuna																																		
8. Name of Village	Behmai																																		
9. Tehsil	Sikandara																																		
10. District	Kanpur Dehat																																		
11. Name of Minor Mineral	Sand																																		
12. Sanctioned Lease Area (in ha.)	Area 25.0 ha																																		
13. Zero level mRL	98																																		
14. Max. & Min mRL within lease area	The highest level is 104.1 mRL The lowest level is 98 mRL																																		
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16. Submerged Area	5.1 ha																																		
17. Workable Area	19.90 ha																																		
18. Geological Reserves	5,66,842 m ³																																		
19. Mineable Reserves	300180 m ³																																		
20. Total Proposed Production	15,00000 m ³ (5 Year)																																		
21. Proposed Production/year	3,00000 m ³																																		
22. Sanctioned Period of Mine lease	5 years																																		
23. Production of mine/day	1200 m ³																																		
24. Method of Mining	Opencast semi-mechanized																																		
25. No. of working days	250																																		
26. Working hours/day	8 hrs																																		
27. No. of workers	85																																		
28. No. of vehicles movement/day	90																																		
29. Type of Land	Govt./Non Forest Land																																		
30. Depth of Mining	3.0 m																																		
31. Nearest metalled road from site	0.90 km																																		
32. Water Requirement	PURPOSE	REQUIREMENT (KLD)																																	
	Drinking	0.85 KLD																																	
	Suppression of dust	10.8 KLD @ 1.0 L for 1 sqm (2 time a day)																																	
	Plantation	2.42 KLD @ 5 lit/plant																																	
	Total	14.07 KLD																																	
33. Name of QCI Accredited Consultant with	Paramarsh (Servicing Environment and Development)																																		

QCI No period of validity.	110 21 May 2021
34. Any litigation pending against the project or land in any court	No
35. Details of 500 m Cluster Map & certificate verified by Mining Officer	DM, Kanpur Dehat, granted the LoI with vide letter 276/उप खनिज - ई0 टेण्डर सह ई नीलामी /सहमति पत्र /2018-19 , dated 06 June, 2019
36. Details of Lease Area in approved DSR	Page No- 9 of DSR
37. Proposed CER cost	Project cost – 90.0 lacs /annum CER – 1.80 lacs (2% of Total Cost)
38. Length and breadth of Haul Road	0.90 m and 6m
39. No. of trees to be planted	242

3. The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
4. This project does not attract any of the general conditions applicable on mining projects specified in EIA Notification 14/09/2006.
5. The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
6. There is no litigation pending in any court regarding this project.
7. The project proposal falls under category–1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-09

The committee discussed the matter and recommended to issue the terms of reference (TOR) for the preparation of EIA as annexed at annexure-1 to these minutes.

10. Sand/Morum Mining from Yamuna River Bed at Khand No.-15/45 to 15/46, Village-Mahewa, The.-Manjhanpur, Distt.-Kaushambi, U.P., M/s Bharat Earth Movers, Sanctioned Area:24.28 ha, Effective Area-18.88 ha File No. 4194/Proposal No. SIA/UP/MIN/23679/2018

RESOLUTION AGAINST AGENDA NO-10

The committee noted that the project proponent has applied for the amendment in Environmental Clearance for reducing the quantity due to submergent of lease area. The committee discussed the matter and directed the Secretariat to send a letter to District Magistrate, Kaushambi for providing the factual report regarding the project. The committee also directed that a copy of the letter should be sent to Director, Geology and Mining Department, Lucknow, Uttar Pradesh for necessary information.

11. Sand/Morum Mining along Yamuna River Bed in Gata No.-391Mi (Khand No.-04), Village-Korra Kanak, Tehsil-Fatehpur, District- Fatehpur, U.P., M/s Jai Shakti Realcon Pvt. Ltd. (Leased Area-40.48 Ha) File No. 4282/Proposal No. SIA/UP/MIN/25866/2018

RESOLUTION AGAINST AGENDA NO-11

The committee noted that the project proponent has applied for the amendment in Environmental Clearance for reducing the quantity due to submergent of lease area. The committee discussed the matter and directed the Secretariat to send a letter to District Magistrate, Fatehpur for providing the factual report regarding the project. The committee also directed that a copy of the letter should be sent to Director, Geology and Mining Department, Lucknow, Uttar Pradesh for necessary information.

12. Sand/Morum Mining at Khand No.-03, Gata No.-383Mi, 391) near Village-Korra Kanak, Tehsil & District- Fatehpur, U.P. File No. 4239/Proposal No. SIA/UP/MIN/25616/2018

RESOLUTION AGAINST AGENDA NO-12

The Secretariat informed the committee that the environmental clearance for the above project was issued by SEIAA, U.P. vide letter no. 683/Parya/SEAC/4239/2018 dated 08/02/2019 for the leased area 40.48 ha and production capacity of 6,07,200 m³/year. The project proponent submitted a letter dated 12/06/2019 through which they have applied for modification in production from capacity of 6,07,200 cum/annum to 44,200 cum/annum of moram because most of the total mining lease area is now submerged.

The committee discussed the matter and directed the Secretariat to send a letter to District Magistrate, Fatehpur for providing the factual report regarding the project. The committee also directed that a copy of the letter should be sent to Director, Geology and Mining Department, Lucknow, Uttar Pradesh for necessary information.

13. Exemption from Environmental Clearance of proposed UPAL Warehouse at Khasra No. 1251(part), 1252Ka(Part), 1252Kha(Part) 1253, 1257Kha, 1258Ka (Part), 1258Kha, 1259, 1259 Ka, 1260, 1261, 1262, 1263, 1267(Part), 1268, 1298 & 1299 at Village- Mau, Mohanlalganj, Lucknow, U.P., M/s UPAL Warehouse.

The matter was considered in the meeting of SEAC held on dated 07/07/2019. The SEAC gone though the letter received from the Lucknow Development Authority (LDA) vide letter no. 85/AA Manchitra cell/19 dated 12/06/2019 regarding objection/no objection by the SEAC/Directorate of Environment for the construction of the proposed project.

The SEAC noted that MoEF&CC, Notification No. S.O. 3252 (E) dated 22/12/2014 states that “the project or activities shall not include industrial shed, School, college, hostel for educational institute, but such buildings shall ensure sustainable environmental management, solid and liquid waste management, and rain water harvesting etc.”

In the above reference, SEAC accepted the request of the project proponent and LDA letter dated 12/06/2019 to recommend for exemption of the proposal in light of MoEF&CC, Notification S.O. 3252 (E) dated 22/12/2014 as the present matters relates to Industrial Shed.

14. Expansion of Production Capacity from 3 MTPA to 4 MTPA at Cement Grinding plant at Kundanganj, District-Raebareli, U.P., M/s RCCPL Pvt. Ltd. File No. 4859/Proposal No. SIA/UP/IND/37475/2019

The Secretariat informed the committee that the project proponent M/s RCCPL Pvt. Ltd. submitted a letter dated 08/08/2019 through which they have requested as per MoEF&CC OM dated 20/04/2018. The above project was kindly considered for issuance of TOR in SEAC meeting dated 07/08/2019.

A presentation was made by the project proponent along with their consultant M/s Vimta Labs Ltd., Hyderabad. The proponent, through the documents submitted and the presentation made, informed the committee that:-

1. The environmental clearance is sought for Expansion of Production Capacity from 3 MTPA to 4 MTPA at Cement Grinding plant at Kundanganj, District-Raebareli, U.P., M/s RCCPL Pvt. Ltd.
2. Environmental Clearance for the production capacity of 2.0 MTPA was granted by SEIAA, U.P. vide Letter No. 247/SEAC/339/2010/AA(S) dated 31.10.2011.
3. Subsequently capacity was again expanded from 2 MTPA to 3 MTPA and EC was granted vide letter No.980/Parya/SEA/1543/2013/JDCA(S) dated 06.08.2013.
4. The project is proposed to expand the production capacity by installing the one additional cement mill of capacity 1.6 Million Tons Per Annum (MTPA). After expansion, the total production capacity of plant will be 4.0 MTPA.

5. Salient features of the project:

Description	Details
Total land requirement	No additional land is required for the expansion. The existing land is 34 ha.
Water requirement & source	Additional water requirement for the expansion has been estimated to be about 175 m ³ /day. Water demand is being met from existing ground water sources. Obtained NOC from CGWA vide letter no. 21-4 (332) /NR/ CGWA/20111-579 dated 10 th May 2019 for withdrawal of groundwater for abstracting 1,36,875 cu.m/ year.
Power requirement & source	Additional power demand for the proposed expansion has been estimated as 7 MW. Source:Uttar Pradesh Rajya Vidyut Utpadhan Nigam (UPRVUN) at Bachrawan.
Manpower requirement	Operation phase : 55 Construction phase : Around 100

6. Raw material details:

Material	Source Category	From	Distance (km)	Mode	Annual Volume for expansion capacity (Million tonnes)	Annual Volume post expansion (Million tonnes)
Clinker	Captive	Maihar	350	Rail	0.98	2.4
		Satna	310	Rail		
		Chanderiya	900	Rail		
Fly ash	Purchase	Rosa TPS	210	Road	0.56	1.40
		NTPC Unchahar	60	Road		
		JP Bara	220	Rail/ Road		
		JP Renusagar	420	Rail		
Gypsum	Purchase	Rajasthan and others	850	Road	0.06	0.20

7. Details of the proposed product mix:

Sr. No	Component	Proportion, % by weight of Cement -PPC	Proportion, % by weight of Cement -OPC
1	Clinker	60	95
2	Gypsum	5	5
3	Fly ash	35	-

8. The project proposal falls under category-3(b) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-14

For the preparation of EIA report, the request was made by the project proponent to consider the baseline data for the period of 01 March, 2019 to 31st May, 2019. The committee discussed the matter and concurred with the request and recommended to issue the terms of reference (TOR) for the preparation of EIA as mentioned in MoEFCC, OM No. J-11013/41/2008-IA-II(I) (Part) dated 29/08/2017:-

- 1) Submit certified copy of the compliance report of the previous EC issued by the SEIAA at the time of EIA presentation.
- 2) Executive Summary
- 3) Introduction
 - i. Details of the EIA Consultant including NABET accreditation
 - ii. Information about the project proponent
 - iii. Importance and benefits of the project
- 4) Project Description
 - i. Cost of project and time of completion.
 - ii. Products with capacities for the proposed project.
 - iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.

- iv. List of raw materials required and their source along with mode of transportation.
 - v. Other chemicals and materials required with quantities and storage capacities
 - vi. Details of Emission, effluents, hazardous waste generation and their management.
 - vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
 - viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
 - ix. Hazard identification and details of proposed safety systems.
 - x. Expansion/modernization proposals:
 - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing existing operation of the project from SPCB shall be attached with the EIA-EMP report.
 - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 06 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.
- 5) Site Details
- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
 - ii. 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)
 - iii. Details w.r.t. option analysis for selection of site
 - iv. Co-ordinates (lat-long) of all four corners of the site.
 - v. Google map-Earth downloaded of the project site.
 - vi. 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.
 - vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
 - viii. 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)
 - ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
 - x. Geological features and Geo-hydrological status of the study area shall be included.
 - xi. 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)
 - xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
 - xiii. R&R details in respect of land in line with state Government policy
- 6) Forest and wildlife related issues (if applicable):
- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)

- ii. 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).
 - iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
 - iv. 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.
 - v. 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
 - vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife
- 7) Environmental Status:
- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
 - ii. 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.
 - iii. 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.
 - iv. 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.
 - v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
 - vi. Ground water monitoring at minimum at 8 locations shall be included.
 - vii. Noise levels monitoring at 8 locations within the study area.
 - viii. Soil Characteristic as per CPCB guidelines.
 - ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
 - x. 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.
 - xi. Socio-economic status of the study area.
- 8) Impact and Environment Management Plan
- i. 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.
 - ii. Water Quality modelling - in case of discharge in water body
 - iii. 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.
 - iv. 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.
- v. Details of stack emission and action plan for control of emissions to meet standards.
 - vi. Measures for fugitive emission control
 - vii. 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.
 - viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
 - ix. 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.
 - x. 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.
 - xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
 - xii. Action plan for post-project environmental monitoring shall be submitted.
 - xiii. 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.
- 9) Occupational health:
- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
 - ii. 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.
 - iii. 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,
 - iv. Annual report of health status of workers with special reference to Occupational Health and Safety.
- 10) Corporate Environment Policy:
- i. 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.
 - ii. 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.
 - iii. 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.
 - iv. 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
- 11) 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.
- 12) Corporate Environmental Responsibility (CER):
 - i. 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.
 - ii. 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.
 - iii. A tabular chart with index for point wise compliance of above TOR.
 - 13) Limestone and coal linkage documents along with the status of environmental clearance of limestone and coal mines
 - 14) Quantum of production of coal and limestone from coal & limestone mines and the projects they cater to;
 - 15) For large Cement Units, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site.
 - 16) Present land use shall be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quick bird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
 - 17) If the raw materials used have trace elements, an environment management plan shall also be included.
 - 18) Plan for the implementation of the recommendations made for the cement plants in the CREP guidelines must be prepared.
 - 19) Energy consumption per ton of clinker and cement grinding
 - 20) Provision of waste heat recovery boiler
 - 21) Arrangement for use of hazardous waste

(Dr. Sarita Sinha)
Member

(Dr. Arvind Mathur)
Member

(Dr. Virendra Misra)
Member

(Dr. Pramod Kumar Mishra)
Member

(Dr. Richhpal Singh Sangu)
Member

(Shri Ramesh Chand Kataria)
Member

(Dr. Ajoy Kumar Mandal)
Member

(Shri Meraj Uddin)
Member

(Shri Rajive Kumar)
Member

(Dr. (Prof.) S. N. Singh)
Chairman

Annexure-1

Terms of Reference for Sand/Moram Mining Project

1. The TOR shall be valid strictly for the annual production/yearly production as given in the approved Mining Plans of the respective proposal.
2. Certificate from Mining Officer that there is no other mining area exit within 500 m periphery.
3. CER cost to be calculated for individual lease.
4. An intimation regarding conducting the monitoring to be sent to concerned District Magistrate and State Pollution Control Board office.
5. All pages of technical documents/EIA/EMP etc. should be signed by the consultant and project proponent both.
6. Copy of all the analysis reports signed by analyst approved by NABL or MoEF&CC shall be annexed with the EIA report and original analysis reports should be presented at the time of presentation.
7. MOU signed between the project proponent and the consultant should be submitted.
8. The lab conducting the analysis should be authenticated and registered.
9. Public hearing to be conducted as per EIA Notification, 2006.
10. A copy of document in support of fact that the proponent is the rightful lessee of the mine should be given.
11. Approved mining plans for all the mining projects.
12. All documents including approved mine plan, EIA and public hearing should be compatible with one another in terms of the mine lease area, production level, waste generation and its management and mining technology and should be in the name of the lessee. The mine plan should take into account the conditions of the mine lease, if any, in terms of distance to be left un-worked from the river flowing nearby.
13. The study area will comprise of 10 km zone around the mine lease from the lease periphery and the data contained in the EIA such as waste generation etc should be for the life of the mine / lease period.
14. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary and national park, migratory route of fauna, water bodies, human settlements and other ecological features should be indicated.
15. Land use plan of mine lease area should be prepared to encompass pre-operational, operational and post-operational phases and submitted.
16. 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.
17. 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 covering both terrestrial and aquatic flora and fauna. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on field survey clearly indicating the Schedule of the fauna present.
18. Impact of change of land use should be given.
19. Impact of mining on the hydrology of the area including water flow in the river adjoining the mine lease. It should also take into account the inundation of mined out area due to flow of water from the river.
20. R & R plan / compensation details for the project affected people should be furnished. While preparing the R & R plan, the 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 Governments.
21. 02 km kachcha haul road to be made motorable. Plan should be submitted.

22. One season (Non Monsoon) primary baseline data on ambient air quality (PM_{2.5}, PM₁₀, SO_x and NO_x), water quality, noise level, soil and flora and fauna shall be collected and the AAQ data so collected presented data-wise in the EIA and EMP report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be justified.
23. 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.
24. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicle 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 rose showing pre-dominant wind direction may also be indicated on the map. The impact of stone crusher nearby should also be taken into account.
25. 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.
26. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
27. Details of water conservation measures proposed to be adopted in the project should be given.
28. Impact of the project on the water quality both surface and groundwater should be assessed and necessary safeguard measures, if any required should be provided.
29. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed hydro geological study should be undertaken and report furnished. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of groundwater should also be obtained and copy furnished.
30. Details of first order stream, if any passing through lease area and modification diversion proposed, if any and the impact of the same on the hydrology should be brought out.
31. Details of rainwater harvesting proposed, if any, in the project should be provided.
32. Information on reduced levels site elevation, working depth, groundwater table etc. below natural surface level should be provided. A schematic diagram may also be provided for the same.
33. Quantity of solid waste generated to be estimated and details for its disposal and management should be provided. The quality, volumes and methodology planned for removal and utilization (preferably concurrently) of top soil should be indicated. Details of backfilling proposed, if any, should be given. It may be clearly indicated that out of the total waste generated during the mine life, how much quantity would be backfilled and how much quantity would be disposed off in the form of external dump (number of dumps, their height, terraces etc. to be brought out).
34. The reclamation plan, post mine land use and progressive green belt development plan shall be prepared in tabular form (prescribed format) and submitted.
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. Conceptual post mining land use and Reclamation and Rehabilitation of mined out area (with plans and with adequate number of sections) should be given in the EIA report.
38. Phase-wise plan of green belt 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.
39. 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. Special attention should be in view of the

- stone crusher nearby.
40. Measures of social-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 should include the impact due to change of land use, due to loss of agricultural land and grazing land, if any, occupational health impacts beside other impacts of the projects. It should also take into account the impacts due to stone crusher nearby and also provide for preventing the silt from going into the river.
 42. Risk assessment and disaster management plan due to inundation of mine as a result of its location close to the river should also be examined and addressed.
 43. Public hearing shall be undertaken as per law. Public hearing points raised and commitment of the project proponent on the same along with the time bound action plan to implement the same should be provided.
 44. Details of litigation pending against the project, if any, with direction / order passed by any Court of Law against the project should be given.
 45. The cost of project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.
 46. Present position of distances of railway lines, National Highway including culverts and bridges, Reservoir, lake, Canal, Road including culverts & bridges, Soil conservation works, nursery plantation, check dams, water supply schemes & irrigation schemes, water sources such as Springs, Infiltration galleries, Percolation wells, Hand pumps, Tube wells and existing flood control / protection work should be included and indicated in location map.
 47. Proponent should submit attested photocopy of the sanction of mining lease by the State Government.
 48. The company will have a well laid down Environment Policy approved by its Board of Directors and it may be detailed in EIA report.
 49. The Environment Policy must prescribe for standard operating process/ procedures to bring into focus any infringement / deviation / violation of the environment or forest norms/conditions and it may be detailed in EIA.
 50. The hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions and details of this system may be given.
 51. The company must have a system of reporting of non-compliance/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 EIA reports.
 52. Consultant should bring raw data at the time of presentation.
 53. In surface water quality aquatic study of phytoplankton and zooplankton.
 54. The baseline data should be signed by NABL/MoEF&CC accredited analyst.
 55. The meteorological data should be site specific.