

### **Minutes of 616<sup>th</sup> SEAC-2 Meeting Dated 05/01/2022**

The 616<sup>th</sup> meeting of SEAC-2 was held in the Directorate of Environment, U.P. through dual-mode (physically/virtually) at 11:00 AM on 05/01/2022. Following members participated in the meeting:

- |    |                             |                             |
|----|-----------------------------|-----------------------------|
| 1. | Dr. Harikesh Bahadur Singh, | Chairman, SEAC-2            |
| 2. | Dr. Amrit Lal Haldar,       | Member, SEAC-2 (through VC) |
| 3. | Dr. Dineshwar Prasad Singh, | Member, SEAC-2 (through VC) |
| 4. | Shri Tanzar Ullah Khan,     | Member, SEAC-2              |
| 5. | Prof. Jaswant Singh,        | Member, SEAC-2              |
| 6. | Dr. Shiv Om Singh,          | Member, SEAC-2              |

The Chairman welcomed the members to the 616<sup>th</sup> SEAC-2 meeting which was conducted via dual-mode (virtually/physically). Nodal Officer, SEAC-2 informed the committee that the agenda has been approved by the Member Secretary, SEAC-2/Director Environment. Nodal Officer, SEAC-2 placed the agenda items along with the available file and documents before the SEAC-2.

- 1. Morrum Mining from Sone Riverbed at Arazi No. 385 (KhandDha), VillageBarhmori, Tehsil- Obra, District- Sonbhadra, Shri Rajiv Gupta., M/s Vardhman Investment And Company., Area - 12.146 ha. File No. 6234/Proposal No. SIA/UP/MIN/61304/2021**

#### **RESOLUTION AGAINST AGENDA NO-01**

The Secretariat informed the committee that the above project proposal has already been taken in SEAC meeting dated 23/12/2021. Hence, no action is required in the matter.

- 2. Stone (Khanda & Gitti, Boulder) Mining atArazi No./ Gata No.-1 Kha, Khand No.- V/6, at Village- Veerpur, Tehsil- Meja, District- Prayagraj., M/s Akhilesh Kumar Singh, Area- 2.834 ha. File No. 6032/Proposal No. SIA/UP/MIN/58920/2020**

#### **RESOLUTION AGAINST AGENDA NO-02**

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. 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 the following documents/ information:

1. Plan for vehicular movement from lease site to link road with detailed information.
2. Agreement/ Consent between project proponent and competent authority/ landowner for haulage road from lease site to link road.
3. Detailed proposal about the technology to be implemented for mitigating dust at source points in lease area and haulage road during operation activity/vehicular movement.
4. Proposed plantation plan with area specific plant species, number of plants to be planted and place of plantation along with a proper map to be submitted.
5. Water requirement details along with source of water.

6. Original Monitoring report along with site photographs, date, time and place with geo coordinates.
7. EIA report as per procedure laid down in appendix-v & paragraph-7 of EIA Notification, 2006.

The matter shall be discussed after submission of online information on prescribed portal.

**3. Stone-Khanda, Boulder, Ballast (Gitti) Mining at Araj No. 989, Khand No-10, Village-Makarbai, Tehsil-Sadar, Mahoba, Smt. Neerja Singh, M/s CBS Minerals LLP, Area 1.619 Ha. File No. 6775/Proposal No. SIA/UP/MIN/70136/2021**

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the project proponent along with their consultant M/s Ind Tech House Consult. Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. The terms of reference is sought for Building Stone Khanda Boulder Ballast (Gitti) Mining project at Araj no. 989 Khand No-10, Village-Makarbai, Tehsil- Sadar, District- Mahoba, Uttar Pradesh, (Leased Area 1.619 Ha.).
2. Salient features of the project as submitted by the project proponent:

1.	On Line Proposal No.	SIA/UP/MIN/70136/2021		
2.	File No. allotted by SEIAA, UP	6784		
3.	Name of Proponent	C.B.S Minerals LLP Partner Smt Neerja Singh		
4.	Full correspondence address of proponent and mobile no.	M/s CBS Minerals LLP D-1, 287, Vijayant Khand, Gomti Nagar, Lucknow, U.P.226010		
5.	Name of Project	Area 1.619 Ha Building Stone-Khanda, Boulder, Ballast(Gitti) Mining Project At Araj No. 989 Khand No-10, Village-Makarbai, Tehsil-Sadar, District-Mahoba, Uttar Pradesh.		
6.	Project Location(Plot.Khsra/Gata/Araj No.)	Araj No-989 Khand No-10		
7.	Name of Village	Makarbai		
8.	Tehsil	Sadar		
9.	District	Mahoba		
10.	Name of Minor Mineral	Building Stone-Khanda, Boulder, Ballast(Gitti)		
11.	Sanctioned Lease Area (in Ha.)	1.619 Ha		
12.	Max. & Min mRL within lease area	233.0 mRL & 188.0 mRL		
13.	Pillar Coordinates (Verified by DMO)	PILLER NO.	LATITUDE	LONGITUDE
		A	25° 19' 59.614"N	79°59'28.188"E
		B	25° 19' 57.941"N	79°59'30.836"E
		C	25° 19' 51.338"N	79°59'29.648"E
		D	25° 19' 52.740"N	79°59'26.943"E
14.	Total Geological Reserves	859496 m <sup>3</sup> /Annum		
15.	Total Mineable Reserve in LOI	80,000.00 m <sup>3</sup> /Annum		
16.	Total Proposed Production in LOI	80,000.00 m <sup>3</sup> /Annum		
17.	Total Proposed Production in 10 Years	80,000 *10 m <sup>3</sup> =8,00,000		
18.	Sanctioned Period of Mine lease	10 Years		
19.	Production of mine/day	267 m <sup>3</sup>		
20.	Method of Mining	Open cast Manual/ Semi Mechanized Mining		
21.	No. of working days	300 Days		
22.	Working hours/day	8 Hours		
23.	No. of worker	25 Workers		

24.	No. of vehicles movement/day	30 Trucks / Day (Depending on market demand)	
25.	Type of Land	Govt. Land	
26.	Ultimate of Depth of Mining	36 m	
27.	Nearest metalled road from site	1.00 Km	
28.	Water Requirement	PURPOSE	REQUIREMENT (KLD)
		Drinking	0.25 KLD
		Suppression of dust	4.5 KLD
		Plantation	0.32 KLD
		Others (if any)	
		Total	<b>5.07 KLD</b>
29.	Name of QCI Accredited Consultant with QCI No and period of validity.	Ind Tech House Consult QCI No.- 85 Period of Validity- 27-01-2022	
30.	Any litigation pending against the project or land in any court	No	
31.	Details of 500 m Cluster Map & Certificate verified by Mining Officer	Letter No-1753/MMC-30/2021-22 Date-01.10.2021	
32.	Details of Lease Area in approved DSR (Shuddhi Patra )	Page No -4 Sr.No -99 Letter Vide No-154/MMC-30 Khanij/20-21 Dated 12.5.2021	
33.	Proposed CER cost	2% of total project cost i.e. Rs.1.17 Lakhs	
34.	Proposed EMP cost	12.42 Lakhs	
35.	Length and breadth of Haul Road	750 mt Length & 6m width haulage road	
36.	No. of Trees to be Planted	160 Trees/Year	

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

### **RESOLUTION AGAINST AGENDA NO. 03**

**The committee discussed the matter and recommended to issue the standard terms of reference for the preparation of EIA as annexed at Annexure-1 to the minutes. The committee also stipulated following additional TOR Points:**

#### **Additional TOR:**

1. In rocky places the soil below is made up of the impenetrable stone, plant roots have a tough time getting the nutrients they need to survive. Therefore, plantation should be done only after drilling about 2 feet below ground and proper manuring should be done along with plant growth promoters for proper growth of the plants. The proponent/consultant shall submit the plantation plan along with permission of concerned authority/ individuals.
2. The proponent/ consultant should prepare and submit a proposed plan for safe disposal of municipal solid waste and human excreta.
3. The project proponent shall plan and implement collection drain and siltation basins of adequate size to arrest the silt and sediment flows from the quarry area. The surface runoff rain water harvesting and other water conservation measures of long term basis are to be taken in consultation with central/State Ground water Board. The water so collected should be utilized for watering the haulage area, roads and green belt development etc.
4. Plan for vehicular movement from lease site to link road with detailed information.

5. Agreement/ Consent between project proponent and competent authority/ landowner for haulage road from lease site to link road.
6. Proponent/ Consultant should provide the plan/information about the technology to be implemented for mitigating dust at source points in lease area and haulage road during operation activity/vehicular movement.
7. Proposed plantation plan with area specific plant species, number of plants to be planted and place of plantation along with a proper map to be submitted.
8. Water requirement details along with source of water.
9. Monitoring site photographs along with PP/PP authorized person, date, time and place with geo coordinates should be submitted at the time of EIA presentation.

**4. Manufacturing of Formaldehyde 50 TPD, at Plot no E-21 & 22 UPSIDC Industrial Area, Kosi Kalan, Dist.-Mathura State- U.P by M/S ADG Chemicals Pvt. Ltd. File No. 6777/Proposal No. SIA/UP/IND3/70218/2021**

**RESOLUTION AGAINST AGENDA NO-04**

The Secretariat informed the committee that the standard terms of reference for the above project proposal has already been issued through online Parivesh portal. The project proponent/consultant was not present, the committee went through the file and documents in compliance of NGT order dated: 03/06/2021 in OA number 840/219 (I.A. No. 52/2021) and opined that the additional terms of reference (TOR) is required in the matter. Hence, the committee in view of that the project proponent/consultant to present their case before SEAC with complete project details.

**5. Stone-Khanda, Boulder, Ballast (Gitti) Mining at Araj No. 1985 Kha, Village-Makarbai, Tehsil-Sadar, District-Mahoba, Shri Rajniti Sharma., Area 1.619 Ha. File No. 6784/Proposal No. SIA/UP/MIN/70420/2021**

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the project proponent along with their consultant M/s Ind Tech House Consult. Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. The terms of reference is sought for Building Stone Khanda Boulder Bailast (Gitti) Mining at Araj no. 1985 Kha, Village-Makarbai, Tehsil- Sadar, District- Mahoba, Uttar Pradesh. (Leased Area 1.619 Ha.).
2. Salient features of the project as submitted by the project proponent:

1.	On Line Proposal No.	SIA/UP/MIN/70420/2021
2.	File No. allotted by SEIAA, UP	6784
3.	Name of Proponent	Shri Rajniti Sharma (S.R. Trading)
4.	Full correspondence address of proponent and mobile no.	S.R TRADING Prop. Shri Rajniti Sharma S/O Late Janardan Sharma R/O 6-C/1, Beli Road, New Katra Sadar, Prayagraj, U.P.
5.	Name of Project	Area 1.619 Ha Building Stone-Khanda, Boulder, Ballast(Gitti) Mining Project At Araj No-1985 Kha, Village- Makarbai, Tehsil- Sadar , District- Mahoba, Uttar Pradesh.
6.	Project Location (Plot.Khsra/Gata/Araj No.)	Araj No-1985 Kha

7.	Name of Village	Makarbai		
8.	Tehsil	Sadar		
9.	District	Mahoba		
10.	Name of Minor Mineral	Building Stone-Khanda, Boulder, Ballast(Gitti)		
11.	Sanctioned Lease Area (in Ha.)	1.619 Ha		
12.	Max. & Min mRL within lease area	175.5 mRL& 166.1mRL		
13.	Pillar Coordinates (Verified by DMO)	Point.	LATITUDE	LONGITUDE
		A	25° 20' 50.467"N	80°03'26.326"E
		B	25° 20' 49.567"N	80°03'28.282"E
		C	25° 20' 47.584"N	80°03'29.224"E
		D	25° 20' 44.080"N	80°03'27.719"E
		E	25° 20' 45.737"N	80°03'25.027"E
	F	25° 20' 48.199"N	80°03'24.221"E	
14.	Total Geological Reserves	568499 m <sup>3</sup> /Annum		
15.	Total Mineable Reserve in LOI	44523.00 m <sup>3</sup> /Annum		
16.	Total Proposed Production in LOI	44523.00 m <sup>3</sup> /Annum		
17.	Total Proposed Production in 10 Years	44523 *10 m <sup>3</sup> =4,45,230		
18.	Sanctioned Period of Mine lease	10 Years		
19.	Method of Mining	Open cast Manual/ Semi Mechanized Mining		
20.	No. of working days	300 Days		
21.	Working hours/day	8 Hours		
22.	No. of worker	25 Workers		
23.	No. of vehicles movement/day	16 Trucks / Day (Depending on market demand)		
24.	Type of Land	Govt. Land		
25.	Ultimate of Depth of Mining	18 m		
26.	Nearest metalled road from site	1.00 Km		
27.	Water Requirement	PURPOSE	REQUIREMENT (KLD)	
		Drinking	0.25 KLD	
		Suppression of dust	3.0 KLD	
		Plantation	0.32 KLD	
		Others (if any)		
		Total	3.57 KLD	
28.	Name of QCI Accredited Consultant with QCI No and period of validity.	Ind Tech House Consult QCI No.- 85 Period of Validity- 27-01-2022		
29.	Any litigation pending against the project or land in any court	No		
30.	Details of 500 m Cluster Map & Certificate verified by Mining Officer	Letter No-1948/MMC-30/2021-22 Date-12.10.2021		
31.	Details of Lease Area in approved DSR (Shuddhi Patra )	Page No -2 Sr.No -9 Letter Vide No-8471/MMC-30 Khanij/ 20-21 Dated 10.3.2021		
32.	Proposed CER cost	2% of total project cost i.e. Rs.1.27 Lakhs		
33.	Proposed EMP cost	13.06 Lakhs		
34.	Length and breadth of Haul Road	500 mt Length & 6m width haulage road		
35.	No. of Trees to be Planted	160 Trees/Year		

- The mining would be restricted to the unsaturated zone only above the phreatic water table and will not intersect the groundwater table at any point in time.
- The mining operation will not be carried out in the safety zone of any bridge or embankment or eco-fragile zone such as the habitat of any wild fauna.
- There is no litigation pending in any court regarding this project.
- The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

**RESOLUTION AGAINST AGENDA NO. 05**

The committee discussed the matter and recommended to issue the standard terms of reference for the preparation of EIA as annexed at Annexure-1 to the minutes. The committee also stipulated following additional TOR Points:

**Additional TOR:**

1. In rocky places the soil below is made up of the impenetrable stone, plant roots have a tough time getting the nutrients they need to survive. Therefore, plantation should be done only after drilling about 2 feet below ground and proper manuring should be done along with plant growth promoters for proper growth of the plants. The proponent/consultant shall submit the plantation plan along with permission of concerned authority/ individuals.
2. The proponent/ consultant should prepare and submit a proposed plan for safe disposal of municipal solid waste and human excreta.
3. The project proponent shall plan and implement collection drain and siltation basins of adequate size to arrest the silt and sediment flows from the quarry area. The surface runoff rain water harvesting and other water conservation measures of long term basis are to be taken in consultation with central/State Ground water Board. The water so collected should be utilized for watering the haulage area, roads and green belt development etc.
4. Plan for vehicular movement from lease site to link road with detailed information.
5. Agreement/ Consent between project proponent and competent authority/ landowner for haulage road from lease site to link road.
6. Proponent/ Consultant should provide the plan/information about the technology to be implemented for mitigating dust at source points in lease area and haulage road during operation activity/vehicular movement.
7. Proposed plantation plan with area specific plant species, number of plants to be planted and place of plantation along with a proper map to be submitted.
8. Water requirement details along with source of water.
9. Monitoring site photographs along with PP/PP authorized person, date, time and place with geo coordinates should be submitted at the time of EIA presentation.

**6. Sand Stone at Araj No.-01, Village-Ahirupur, Tehsil- Chunar, District-Mirzapur, U.P., Smt. Ruchi Singh. Area -0.809 ha. File No. 5784/Proposal No. SIA/UP/MIN/50340/2020**

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. 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 the following documents/ information:

1. Plan for vehicular movement from lease site to link road with detailed information.
2. Agreement/ Consent between project proponent and competent authority/ landowner for haulage road from lease site to link road.
3. Detailed proposal about the technology to be implemented for mitigating dust at source points in lease area and haulage road during operation activity/vehicular movement.
4. Proposed plantation plan with area specific plant species, number of plants to be planted and place of plantation along with a proper map to be submitted.
5. Water requirement details along with source of water.
6. Original Monitoring report along with site photographs, date, time and place with geo coordinates.
7. EIA report as per procedure laid down in appendix-v & paragraph-7 of EIA Notification, 2006.

The matter shall be discussed after submission of online information on prescribed portal.

**7. Expansion of Production of API/Bulk Drugs/Pharmaceutical Products at Plot No. 105 & 106 Industrial Area Sahibabad, Ghaziabad., Shri Sumit Goel, M/s Meditech Chemicals Pvt. Ltd. File No. 6787/Proposal No. SIA/UP/IND3/246446/2021**

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the consultant M/s Paramarsh Servicing Environment and Development along with their project proponent through VC and informed that the said unit is not in operation since 2012 and the information about the same had been informed with the concerning department. Now they are planning to restart and want to expand their production after renovation of existing plant and machinery.

Related documentation/information was asked by the committee member during the presentation of the matter, as the consultant /project proponent did not have the said details available with them. The committee discussed the matter and directed the project proponent/Consultant to submit the following documents/ information:

1. Notarized Affidavit regarding closure period of the unit since, 2012 with supporting documents and letters sent to the concerning department (UPPCB, Director of factories and labor department etc.).
2. Details of labor which was working in the factory during the time of closure. (Labor movement, deployment to any other location etc.)
3. Details of CNG based generator being used for power backup.
4. MoU documents for the disposal of hazardous waste with TSDF.
5. Revised proposal for waste water treatment followed by Zero Liquid Discharge to be submitted along with the water balance details.
6. Photograph of the existing plan site and developed green belts in the existing unit along with proposal for any other plantations planned.
7. Layout maps indicating existing units as well as proposed expansion in unit indicating storage area, plant area, utilities etc.
8. Detail of existing products with capacity along with expanded capacities and new products planned, with permission letter of concerning authority.
9. Detail of emissions, effluents, hazardous waste generation and their management.
10. Detailed plan of renovation activities planned (machine, product etc.) in existing unit.

The matter shall be discussed after submission of online information on prescribed portal.

**8. “Punar Vikas Yojna” for M/s Shravan Oil & Rice Mills at Plot No. 11 & 11A, Aishbagh Road, Lucknow., Shri Akhilesh Kumar Singh. File No. 6793/Proposal No. SIA/UP/MIS/247032/2021**

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the project consultant M/s ENV DAS (India) Pvt. Ltd., Lucknow along with proponent (authorized person). Related documentation / information were asked by the committee member during the presentation of the matter, as the consultant / project proponent did not have the said details available with them.

The committee discussed the matter and directed the project proponent to submit the following

documents/ information:

1. Latest site photograph along with coordinates dates and time.
2. Revised proposal for wastewater treatment and use of treated water for various purposes.
3. Revised parking plan along with electric charging points for electric vehicles.
4. Revised municipal solid waste disposal according to municipal solid waste rules.
5. Layout plan showing the location of STP, DG sets and municipal solid waste disposal system.
6. Revised green belt plan along with plant species which are environmental friendly.
7. Map approval letter from Lucknow development authority.
8. Gazette notification of land conversion to use the land for residential purpose.
9. Revised water balance diagram along with purpose of reuse in different areas.
10. Revised rain water harvesting and recharging details along with proper calculation.
11. NOC from Airport Authority of India.

The matter shall be discussed after submission of online information on prescribed portal.

**9. Expansion of Common Biomedical Waste Management Treatment Storage and Disposal Facility, G-2,3,4 Growth Centre UPSIDC Bijoli, District-Jhansi, U.P., Dr. Vinay Kumar Verma, M/s Medical Pollution Control Committee. File No. 6801/Proposal No. SIA/UP/MIS/70118/2021**

**RESOLUTION AGAINST AGENDA NO-09**

Proponent officials were present for the meeting but were not able to present the case before the committee and also could not provide the information regarding the project. The Secretariat informed the committee that the standard terms of reference for the above project proposal has already been issued through online Parivesh portal. The committee went through the file and documents and opined that since being an expansion project the additional terms of reference is required in the matter. Hence, the committee directed the project proponent/consultant to present their case before SEAC for additional TOR points for the preparation of EIA report.

**10. Expansion of Common Biomedical Waste Management Treatment Storage and Disposal Facility. Dr. Vinay Kumar Verma, M/s Medical Pollution Control Committee. D-33 UPSIDC Industrial area Khalabad, District- SantKabir Nagar. File No. 6802/Proposal No. SIA/UP/MIS/70546/2021**

**RESOLUTION AGAINST AGENDA NO-10**

Proponent officials were present for the meeting but were not able to present the case before the committee and also could not provide the information regarding the project. The Secretariat informed the committee that the standard terms of reference for the above project proposal has already been issued through online Parivesh portal. The committee went through the file and documents and opined that since being an expansion project the additional terms of reference is required in the matter. Hence, the committee directed the project proponent/consultant to present their case before SEAC for additional TOR points for the preparation of EIA report.

Nodal, SEAC-2

**(Prof. Jaswant Singh)**  
**Member, SEAC-2**

**(Dr. Amrit Lal Haldar)**  
**Member, SEAC-2**

**(Dr. Dineshwar Prasad Singh)**  
**Member, SEAC-2**

**(Tanzar Ullah Khan)**  
**Member, SEAC-2**

**(Dr. Shiv Om Singh)**  
**Member, SEAC-2**

**(Dr. Harikesh Bahadur Singh)**  
**Chairman, SEAC-2**

**Annexure-1**

**Standard Terms of Reference for the Mining Project prescribed by MoEF&CC, GoI**

- 1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 2) A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be given.
- 3) 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, mining technology etc. and should be in the name of the lessee.
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 5) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The 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, may also be detailed in the EIA Report.
- 8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 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, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- 12) 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. In the event of any contrary 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.
- 13) 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) should be indicated. A copy of the forestry clearance should also be furnished.

- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. 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.
- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site 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, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of 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, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such 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 alongwith budgetary provisions 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.
- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
- 21) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. 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.
- 22) 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 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.
- 23) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 24) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 25) Description of water conservation measures proposed to be adopted in the Project should be given.
- 26) Details of rainwater harvesting proposed in the Project, if any, should be provided.

- 27) 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.
- 28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater.
- 29) 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. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- 30) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- 31) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
- 32) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of 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. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- 33) 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 incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
- 34) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 35) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 36) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- 37) Public health implications 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 allocations.
- 38) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 39) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- 40) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 41) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 42) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP

should be clearly spelt out.

- 43) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 44) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 45) Besides the above, the below mentioned general points are also to be followed:-
  - a) Executive Summary of the EIA/EMP Report
  - b) All documents to be properly referenced with index and continuous page numbering.
  - c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
  - d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
  - e) Where the documents provided are in a language other than English, an English translation should be provided.
  - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
  - g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
  - h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
  - i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
  - j) The EIA report should also include: (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.