

Minutes of 527th SEAC Meeting Dated 24/02/2021

The 527th meeting of SEAC was held in Directorate of Environment, U.P. on 19/02/2021. Following members were present in the SEAC meeting:

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| 1. | Dr. S.N. Singh, | Chairman |
| 2. | Dr. Sarita Sinha, | Member |
| 3. | Dr. Virendra Misra, | Member |
| 4. | Dr. Pramod Kumar Mishra, | Member |
| 5. | Dr. Ranjeet Kumar Dalela, | Member |
| 6. | Dr. Ajoy Kumar Mandal, | Member |
| 7. | Shri Rajive Kumar, | Member |
| 8. | Shri Meraj Uddin, | Member |

The Chairman welcomed the members to the 525th SEAC meeting which was conducted online. The SEAC unanimously took following decisions on the agenda points discussed:

1. **Khanda-Boulder/ Bailast- Gitti)Mine at Gata No.-3096, Khand No.-12, at Village- Bijauli, Sadar,Jhansi, Shri Anoop Parecha, Area-0.8090 ha. File No. 6107/Proposal No. SIA/UP/MIN/191122/2021**

RESOLUTION AGAINST AGENDA NO-01

The committee observed that the Mining Department of Jhansi District are not taking due care in preparation of mining plan for in-situ rock mining. This is creating a lot of unnecessary trouble for the committee as well as project proponent. In this case the total proved reserve is more than the saleable quantity. Director, Geology and Mining is requested to examine all such cases after taking all technical parameters in consideration. This particular case will be heard only after rectification in approved mining plan and copy of final approved DSR.

2. **Sand Mining from Yamuna River bed at Gata No.138, Village-Bichhawali Kanchhar, Sikandara, Kanpur Dehat., Shri Satya Prakash Gupta., M/s Vaishno Agro Industries, Area-24.24 Ha. File No. 6124/Proposal No. SIA/UP/MIN/59852/2021**

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 Mining from Yamuna River bed at Gata No.138, Village-Bichhawali Kanchhar, Sikandara, Kanpur Dehat, U.P., (Leased Area-24.24 Ha.), M/s Maa Vaishno Agro Industries.
2. Salient features of the project as submitted by the project proponent:

1.	On-line proposal No.	SIA/UP/MIN/59852/2021
2.	File No. allotted by SEIAA, UP	6124
3.	Name of Proponent	Shri Satya Prakash Gupta
4.	Full correspondence address of proponent	R/o- 128/346, H Block, Kidwai Nagar,

	and mobile no.	District – Kanpur nagar U. P. – 208011.		
		Mobile no. – 7388121111		
		E mail ID - spgknpsand@gmail.com		
5.	Name of Project	Environmental Clearance of proposed River bed sand mining having lease area 24.24 ha along river Yamuna in Gata No. 138 at Village – Bichhawali Kachhar, Tehsil- Sikandara, District- Kanpur Dehat, U. P. of M/s Maa Vaishno Agro Industries		
6.	Project Location (Plot. Khasra/Gata No.)	River Yamuna in Gata No. 138		
7.	Name of River	Yamuna River		
8.	Name of Village	Bichhawali Kachhar, Tehsil- Sikandara, District- Kanpur Dehat, U. P.		
9.	Tehsil	Sikandara		
10.	District	Kanpur Dehat		
11.	Name of Minor Mineral	River bed sand mining		
12.	Sanctioned Lease Area (in Ha.)	24.24 ha		
13.	Max. & Min mRL within lease area	The highest level is 108.02mRL The lowest level is 103.4 mRL		
14.	Pillar Coordinates (Verified by DMO)	Pillar	Latitude	Longitude
		A	26°19'15.95"N	79°32'09.27"E
		B	26°18'51.29"N	79°31'52.64"E
		C	26°18'56.67"N	79°31'42.75"E
		D	26°19'19.13"N	79°32'01.57"E
15.	Total Geological Reserves	5,26,827 m ³		
16.	Total Mineable Reserve	2,67,433 m ³		
17.	Total Proposed Production	13,33,200 m ³ (5 Year)		
18.	Proposed Production /year (as per LoI)	2,66,640 m ³		
19.	Sanctioned Period of Mine lease	05 years		
20.	Production of mine/day	1066 m ³ /day		
21.	Method of Mining	Opencast Semi-mechanized		
22.	No. of working days	250		
23.	Working hours/day	12		
24.	No. of worker	70		
25.	No. of vehicles movement/day	88		
26.	Type of Land	Govt./Non Forest Land		
27.	Ultimate of Depth of Mining	3.0 m (For Mining Plan Period)		
28.	Nearest metalled road from site	0.50 km		
29.	Water Requirement	PURPOSE		
		Drinking	- 0.70 KLD	
		Suppression of dust	- 6.0 KLD	
		Plantation	- 0.325 KLD	
		Others (if any)	- 0.00 KLD	
		Total	- 7.0 KLD	
30.	Name of QCI Accredited Consultant with QCI No and period of validity.	Paramarsh Servicing Environment and development NABET/EIA/1821 RA 0120 Valid till – 01/05/2021		
31.	Any litigation pending against the project or land in any court	No		
32.	Details of 500 m Cluster Certificate verified by Mining Officer	Letter No-85/Kha.li.-ka.de.-Cluster/2021 dated 09/02/2021		
33.	Details of Lease Area in approved DSR	Serial no. 09, Page no. 11		
34.	Project Cost	1.10 Crore/annum		
35.	Proposed CER cost	2.20 lacs/annum		

36.	Proposed EMP cost	Apply for ToR
37.	Length and breadth of Haul Road	Length – 0.50 km Breadth – 6.00 m
38.	No. of Trees to be Planted	325

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. 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.
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-02

The committee discussed the matter and recommended to issue the terms of reference (TOR) for the preparation of EIA as annexed at annexure-1. The committee also stipulated following additional TOR point:

Additional TOR:

1. Consultant will do baseline monitoring again after selecting the proper monitoring station. It has been observed that the monitoring station for the baseline is not in accordance with guidelines of MoEF&CC. Therefore, consultant while preparing EIA will ensure to do all monitoring again (from the month March to May, 2021).
3. **Building Stone (Sand Stone) Mine at Araj No.-01, at Village- Ahirupur, Tehsil- Chunar, District- Mirzapur, U.P., Shri Govind Singh, M/s Dipali Traders, Leased Area -1.01 ha. File No. 6108/5131/Proposal No. SIA/UP/MIN/191194/2021**

RESOLUTION AGAINST AGENDA NO-03

The project proponent requested to defer the matter in upcoming SEAC meeting proposed on 03/03/2021. The committee agreed with the request made by the project proponent.

4. **Sand Stone Mine at Araj No.-997mi, at Village- Sindhora, Tehsil- Sadar, Mirzapur. Shri Rajesh Kumar Singh, M/s Rudrabali Traders, Area-1.21 ha. File No. 5130/Proposal No. SIA/UP/MIN/44056/2019**

RESOLUTION AGAINST AGENDA NO-04

The project proponent requested to defer the matter in upcoming SEAC meeting proposed on 03/03/2021. The committee agreed with the request made by the project proponent.

5. **Building Stone (Sand Stone) Mining at Araj No.- 428, at Village-Dhuriva, Tehsil- Chunar, Mirzapur, Shri Rasbihari Singh, Area-1.862 ha. File No. 5092 /Proposal No. SIA/UP/MIN/42529/2019**

RESOLUTION AGAINST AGENDA NO-05

The project proponent requested to defer the matter in upcoming SEAC meeting proposed on 03/03/2021. The committee agreed with the request made by the project proponent.

6. Khanda, Gitti & Boulder Mine at Gata No.-339, Khand No.-09, at Village- Daharra, Mahoba. Shri Ramkishore Singh, M/s Shivam Granite, Area-0.809 ha. File No. 6116/5132 /Proposal No. SIA/UP/MIN/59752/2019

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 decided that a site visit/spot verification shall be undertaken by Dr. Ranjeet Kumar Dalela and Dr. Virendra Misra, Members, SEAC at the earliest. The case will be appraised after getting the inspection report.

7. Building Stone (Khanda, Boulder & Gitti Bailast) Mining at Gata No.-19, Khand No.-03, Village- Dunara, Mahoba., Shri Arun Singh, Area-2.226 ha. File No. 6117/5794 /Proposal No. SIA/UP/MIN/59754/2020

RESOLUTION AGAINST AGENDA NO-07

The committee noted that the power point presentation made by the consultant is not up to the mark and data mentioned in the slide is also not readable. Hence, the committee directed the project proponent/consultant to revise the whole presentation and present again before SEAC for consideration.

8. River Bed Sand Mining at Gata No.-523, Village- Khakuora, Tehsil-Mauranipur, Jhansi., Smt. Ratna Jadaun Area: 20.0 ha. File No. 6131/5673 /Proposal No. SIA/UP/MIN/59879/2020

RESOLUTION AGAINST AGENDA NO-08

The SEAC gone through the EIA report presented by the project proponent/consultant and observed that the baseline data (March to May, 2018) used for the preparation of draft EIA report is taken from nearby mining project site which is approximately 7.5 km from the project site, which is not acceptable. The public hearing of the project is also conducted on the same baseline data. The committee also noted that the project proponent informed that they have again collected the baseline monitoring data for the period of October to December, 2020.

In view of above, the committee directed the project proponent to prepare draft EIA report as per baseline monitoring data collected for the period of October to December, 2020 and re-conduct the public hearing regarding the project.

9. Stone (Khanda, Gitti & Boulder) & Red Morrum Mining at Gata No.-585, Khand No.-01, at Village- Bhandra, Tehsil-Mauranipur, Jhansi. Area-2.0 ha., Shri Chaudhary Ubaid Ahmad. File No. 5904 /Proposal No. SIA/UP/MIN/ 176811/2020

The committee noted that the matter was discussed in 521st SEAC meeting dated 12/01/2021 and directed the project proponent to submit approved DSR from the competent authority. District Magistrate, Jhansi vide letter no. 1807/30MMC/2020-21, dated 26/12/2020 provided the amended DSR of District, Jhansi.

RESOLUTION AGAINST AGENDA NO-09

The committee noted that the amended DSR of District, Jhansi provided by the District Magistrate, Jhansi is not approved by the competent authority. Hence, the query raised by SEAC is not resolved.

10. Building Stone (Khanda, Gitti & Boulder) Mining at Gata No.-326, Khand No.-01 at Village-Todi, Tehsil-Moth, Jhansi, U.P. Area-0.809 ha. File No. 5906/Proposal No. SIA/UP/MIN/176836/2020

The committee noted that the matter was discussed in 521st SEAC meeting dated 12/01/2021 and directed the project proponent to submit approved DSR from the competent authority. District Magistrate, Jhansi vide letter no. 1807/30MMC/2020-21, dated 26/12/2020 provided the amended DSR of District, Jhansi.

RESOLUTION AGAINST AGENDA NO-10

The committee noted that the amended DSR of District, Jhansi provided by the District Magistrate, Jhansi is not approved by the competent authority. Hence, the query raised by SEAC is not resolved.

11. Sand/ Morrum / Bajari Mining from Ganga Riverbed at Gata No.-19, Village- Ganeshpur Gang, Tehsil- Atarooli, Aligarh, Shri Manjeet Chawla., Area- 16.0 ha. File No. 4144 /Proposal No. SIA/UP/MIN/193846/2021

RESOLUTION AGAINST AGENDA NO-11

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.

12. Sand/ Morrum Mining from Betwa Riverbed located at Khand No. 24/13 , Village-Chikasi, Tehsil- Sarila, Hamirpur., M/s Shri Kant Gupta, Area - 36.437 ha. File No. 4713/4464 /Proposal No. SIA/UP/MIN/194902/2021

RESOLUTION AGAINST AGENDA NO-12

The project proponent requested to defer the matter in upcoming SEAC meeting. The committee agreed with the request made by the project proponent and directed to defer the matter in coming SEAC meeting. The matter will be discussed only after online request received from the project proponent.

13. Building Stone(Sand Stone)Mine at Gata No./Araji No.-38Mi, at Village-Kudaran, Tehsil-Chunar, Mirzapur, U.P., Area -1.616 ha. File No. 5981 /Proposal No. SIA/UP/MIN/181843/2020

RESOLUTION AGAINST AGENDA NO-13

The committee noted that the matter was earlier discussed in 523rd SEAC meeting dated 09/02/2021 and directed the project proponent to submit CEPI affidavit along with relevant documents for further consideration of the matter.

The project proponent submitted the CEPI affidavit along with relevant documents which shows that the project does not comes under the CEPI area. The committee again recommended to grant the environmental clearance for the project proposal along with general and specific conditions earlier stipulated in 506th SEAC meeting dated 01/12/2020.

14. (A) Discussion on Apco Infratech Pvt. Ltd. regarding excavation of ordinary soil mining project at gata no. 1039, Village-Prannathpur Bachediya, Tehsil-Kadipur, District-Sultanpur, U.P. (Leased area : 1.384 ha).

The Secretariat informed the committee that M/s Apco Infratech Pvt. Ltd. sent a letter dated 22/02/2021 through which they have informed that upgrading of MDR no. 66E Haliyapur-Kubebhar (Section from km 0.000 to km 49.272) & (Section from km 56.00 to km 102.356) (Package no. P04A/UPMDRIP/2015-16 & P04B/UPMDRIP/2015-16 in District-Sultanpur is proposed. The project proponent also informed that for the filling up the above site the soil mining work will be required and they have proposed to excavate the soil from gata no. 1039, Village-Prannathpur Bachediya, Tehsil-Kadipur, District-Sultanpur, U.P. (Leased area : 1.384 ha) and the depth of mining is less than 02 m. The project proponent requested to provide the information whether the environmental clearance for the above project is required or not.

The committee discussed the matter and noted that the ultimate depth of mining is less than 02 m. Hence, the environmental clearance for the above project proposal is not required as per MoEF&CC, GoI notification S.O. 1224(E) dated 28/03/2020 and Environment, Forest & Climate Change, Section -7, Government of UP G.O. No. 446/81-7-2020-39(parya)/2014 TC-1 dated 01/05/2020.

14. (B) Discussion on PNC Infrateh Limited regarding excavation of ordinary soil mining project at gata no. 315/1, 316/1, 317/1, 318/1, 296/3, 319, 260/9, 269/3, 270 mi, 85, 485, Village-Khesra, Tehsil-Atraulim District-Aligarh, U.P. (Leased area : 2.189 ha).

The Secretariat informed the committee that M/s PNC Infrateh Limited. sent a letter dated 22/02/2021 through which they have informed that up-gradation of MDR no. 82W Nanau-Dadon (Section from km 0.000 to km 30.000) in District-Aligarh (Package no. P02/UPMDRIP/2015-16) is proposed. The project proponent also informed that for the filling up the above site the soil mining work will be required and they have proposed to excavate the soil from gata no. 315/1, 316/1, 317/1, 318/1, 296/3, 319, 260/9, 269/3, 270 mi, 85, 485, Village-Khesra, Tehsil-Atraulim District-Aligarh, U.P. (Leased area : 2.189 ha) and the depth of mining is less than 02 m. The project proponent requested to provide the information whether the environmental clearance for the above project is required or not.

The committee discussed the matter and noted that the ultimate depth of mining is less than 02 m. Hence, the environmental clearance for the above project proposal is not required as per MoEF&CC, GoI notification S.O. 1224(E) dated 28/03/2020 and Environment, Forest & Climate Change, Section -7, Government of UP G.O. No. 446/81-7-2020-39(parya)/2014 TC-1 dated 01/05/2020.

14. (C) Discussion on Gawar-Jagdish Saran Construction Company (JV) regarding excavation of ordinary soil mining project at gata no. 1970, 2025, 2674, 865, 852, 864, 901, 924, 928, 943 & 950, Village & Post-Sultanpur Ghosh, Khaga, District-Fatehpur, U.P. (Leased area : 3.5498 ha).

The Secretariat informed the committee that M/s Gawar-Jagdish Saran Construction Company (JV) sent a letter dated 22/02/2021 through which they have informed that upgrading of MDR no. 81C Hussainganj-Hathgaon-Alipur (Section from km 13.000 to km 48.676) in District-Fatehpur (Package no. P01/UPMDRIP/2015-16) is proposed. The project proponent also informed that for the filling up the above site the soil mining work will be required and they have proposed to excavate the soil from gata no.

1970, 2025, 2674, 865, 852, 864, 901, 924, 928, 943 & 950, Village & Post-Sultanpur Ghosh, Khaga, District-Fatehpur, U.P. (Leased area: 3.5498 ha) and the depth of mining is less than 02 m. The project proponent requested to provide the information whether the environmental clearance for the above project is required or not.

The committee discussed the matter and noted that the ultimate depth of mining is less than 02 m. Hence, the environmental clearance for the above project proposal is not required as per MoEF&CC, GoI notification S.O. 1224(E) dated 28/03/2020 and Environment, Forest & Climate Change, Section -7, Government of UP G.O. No. 446/81-7-2020-39(parya)/2014 TC-1 dated 01/05/2020.

**(Dr. Virendra Misra)
Member**

**(Dr. Pramod Kumar Mishra)
Member**

**(Dr. Ranjeet Kumar Dalela)
Member**

**(Shri Meraj Uddin)
Member**

**(Dr. Ajoy Mandal)
Member**

**(Shri Rajive Kumar)
Member**

**(Dr. Sarita Sinha)
Member/Chairperson**

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

Annexure-1

Terms of Reference for the Mining Project

- 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) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 21) 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.
- 22) 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.
- 23) 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.
 - 24) 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.
 - 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
 - 26) Description of water conservation measures proposed to be adopted in the Project should be given.
 - 27) Details of rainwater harvesting proposed in the Project, if any, should be provided.
 - 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.
 - 30) 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.
 - 31) 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.
 - 32) 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.
 - 33) 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.
 - 34) 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.
 - 35) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
 - 36) 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.
 - 37) 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.
 - 38) 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.

- 39) 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.
- 40) 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.
- 41) 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.
- 42) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 43) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 44) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 45) 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.
- 46) 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.