

Proceeding of 43rd SEAC meeting held on 22nd and 23rd May, 2017 under the Chairmanship of Chairman, SEAC in Conference Hall of SEAC premise.

Venue – Conference Hall of the SEAC Office

Presence & record taking

Presence of the members, as mentioned below, was recorded.

1. Shri K.P. Bhawsinka - Chairman
2. Dr. B.K. Tewary - Member
3. Shri R. N. Singh - Member
4. Shri S.P. Shrivatav - Member (Present on 22.05.17)
5. Dr. V.P. Sinha - Member
6. Dr. R.V. Singh - Member
7. Shri U.P. Singh - Member
8. Shri M.S. Bhagwat - Member
9. Shri Om Prakash, - Member Secretary

Absent:

1. Shri Y.K. Singh, Member

Quorum of the meeting

Quorum for the meeting was adequate.

Opening Remarks of the Chairman

Presentation of the proceedings of 41st SEAC meeting held

In absence of the minutes of the proceedings of 41st SEAC meeting, documents were placed before SEAC in 43rd meeting for post facto approval. SEAC discussed the proceeding before approval and approved the minutes placed with observations to document the proceeding of the meeting on same day of the meeting and gate the factual observations in future.

Also proceeding of 42nd SEAC meeting which included discussion of session I & II also arising out of 46th SEIAA proceeding. The minutes placed before SEAC was discussed and approved.

Action Points for compliance:

ATR needs to be incorporating in proceedings and agenda points to be circulated to permit review of the progress made. Member Secretary, SEAC informed the committee regarding all the issues and discussed with the concerned higher authorities of the Government as well as Member Secretary, SEIAA.

Discussions Points:

Various projects projects were discussed by SEAC as per the agenda circulated.

The following are the salient points/observations of the presentations made.

A. Matter referred by SEIAA

The following projects were reexamined, in view of minutes of the 46th SEIAA meeting dated-10.03.2017, in which following were discussed.

1. Sirango stone deposit of M/s Eco Tech Coal Industries Pvt Ltd. (Shri Kavach Kumar Nirmal) at Village- Sirango, Block- Kanke, Dist.- Ranchi, Jharkhand (16.39 Ha).

Q. Sirango - Kanke - Sirango

SEIAA desired to examine the recommendations again in view of the observations made. SEAC decided to inform PP to make fresh presentation of Environmental Management Plan incorporating the observations of SEIAA.

2. **Heben Sand Mining Project on Sanka River of Sri Binay Kumar Agarwal at Mouza- Heben, Thana-Simagunda, Dist.- Saraikela-Kharsawan, Jharkhand (6.24 Ha).**

SEIAA desired to examine the recommendations again in view of the observations made. SEAC decided to inform PP to make fresh presentation of Environmental Management Plan incorporating the observations of SEIAA.

3. **Modernization cum Expansion of Straight Bar & Wire Mill of M/S Usha Martin Limited, Adityapur Industrial Area, Plot No.- 42 & 38, Village- Gamgaria, P.o- Jamshedpur, Dist- Saraikela Kharsawan, Jharkhand.**

The recommendations of SEAC was send back by SEIAA on the ground of various certificates fulfilling the general conditions like

" Distance from protected areas under the Wild Life (Protection) Act, 1972 within 10 KM and Eco Sensitive Areas notified under 2 of the Environment (Protection) Act, 1986 within 10 KM were not applicable."

PP has submitted certificates issued by the Chief Conservator of Forests cum Chief Wild Life Warden, Jharkhand Ranchi vide letter no 1221 dated 26.07.04 wherein it has been mentioned that following distances from Dalgaon - the north west corner of the sanctuary lies at 15.75 Km, Machahera - the south east corner of the sanctuary 33.75 Km and Dimna Jhor - the mid point of the sanctuary 15.50 Km respectively.

However the letter has been issued in the year 2004 and as such a latest certificate may kindly be obtained from DFO concerned, regarding proximity of proposed site from Dalma Sanctuary.

B. Discuss on matter related to MoEF & CC, Govt. of India Notification S.O. 804(E), dated 14.03.2017 for violation cases --- SEAC decided to forward the following cases to SEIAA as per MoEF & CC circular.

1. Kedro Quartzite Mine Project of M/s Bharat Mining Company, Village-Khar, Dist-East Singhbhum, (5.879 ha)
2. M/S Bihar Hard Coke Mfg. Co. Pvt. Ltd, Sri Jog Narayan Singh, Village- Udaipur, Tehsil-Kalayanpur ISM, Dist.- Dhanbad.
3. Maharajganj Pyroxenite Mine of M/s Jaganath Cement Works Pvt. Ltd, at Village- Maharajganj, Thana- Rajnagar, Dist.- Saraikela, Kharsawan, (13.644 Ha)
4. Khaprajola Stone Mine of M's Otan Das & Co. at Village- Khaprajola, P.O. & P.S.- Pakur, Dist.- Pakur, (9.18 Ha).
5. Luti Murup Fireclay Mine of M's Ram Avatar Singh Village - Luti & Murup, P.S. - Balumath District Latehar, (47.61 Ha).
6. Bagru Bauxite Mines of Shri Madan Mohan Prasad Singh at Village Bagru, Taluka - Kisko, Dist. Lohardaga, (10.117 Ha).
7. Purnadih-Sehra Graphite Mine & Beneficiation Unit of M/s Singhania Commercial Company at Village- Purnadih-Sehra, Tehsil- Satbarwa, Dist.- Palamu, (47.4834 Ha).
8. Jyoti Pahari Kyanite Opencast Mine Project of M/s Jharkhand State Mineral Development Corporation Ltd at Village- Jyoti Pahari, Block- Bahragora, Dist.- East Singhbhum, (20.33 Ha).

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9. Angara Graphite Mine of M/s Arunjay Narayan Sinha at Village- Angara, P.S. - Panki, Dist.- Palamu. (6.28 Ha).

C. Projects considered for recommendation to SEIAA for consideration of grant of EC.

1. Siddhpahari Stone Mine of Sri Lutfal Haque at Villlage- Siddhpahari, Block - Pakur, Dist.- Pakur, Jharkhand (5.46 Ha).

This is a Stone Mining Project for having an area of 5.46 Ha [Plot No.- 703 (P), 704, 705, 706 (P), 708 (P), 712, 714 (P), 1717 (P), 824 to 831, 836 to 845, 847 to 857, 860, 863 to 898, 911 to 915]. The committee noted that as per Form I it is a proposal for new lease for which PP is seeking EC. It is B2 Category of Project - as per MoEF & CC Notification dated 15.01.2016.

The project was reviewed with respect to proposed Mining Plan. Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining. The indicated project cost is Rs 81.9 Lakh and a provision of Rs 2.73 Lakhs will be kept for Environment management.

The details of mine capacity as per Approved Mining Plan are

Mineable Proved Reserve : 50,07,368 t

Year-wise Production as per Approved Mining Plan Report for five years is as follows

1 st Year	:	2,75,400 t
2 nd Year	:	2,66,220 t
3 rd Year	:	2,47,860 t
4 th Year	:	2,33,172 t
5 th Year	:	2,14,812 t

The daily production as per Form I is 918 tonnes.

PP has submitted certificates from DMO (Letter No.- 2554, Dated- 26.11.16), DEO (Letter No. 1194, Dated- 01.08.16) and CO (Letter No.- 383, Dated- 11.07.16). The informations was examined and found to be satisfactory.

Based on the presentation made and information provided the Committee decided that the proposal for Siddhpahari Stone Mine of Sri Lutfal Haque at Villlage- Siddhpahari, Block - Pakur, Dist.- Pakur, Jharkhand (5.46 Ha) be recommended for consideration of SEIAA subject to above mentioned observations for grant of EC. The various conditions for grant of EC are given in Annexure - I.

D. Projects considered for recommendation to SEIAA for consideration of grant of ToR.

1. Proposed Capacity increase of the existing Cement Grinding / Blending unit from 2.1 MTPA to 3.0 MTPA of M/s Dalmia Cement East Limited at Villlage- Kanari, Bokaro Industrial Park, Tehsil- Chas, District- Bokaro, Jharkhand.

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The proposal was considered by the committee to determine the "Terms of Reference (TOR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the project proponent has submitted the prescribed Form - I & PFR the proposed activity is listed at S. No. 3 (A) of the (B) Schedule of Project Activity (B) Cement Plant & Scheduled as Category 'B' of EIA Notification 2006 & appraised at State Expert Appraisal Committee, Jharkhand.

Dalmia Cement East Limited is located at Plot No. IVA-7 (P), Bokaro Industrial Area, Near IOCL Bottling Plant, P.O.: Balidih, District Bokaro in Jharkhand. Its geographical co-ordinates are Latitude 23°42'1.24"N and Longitude 86° 3'46.69"E with mean sea level (MSL) of 231.6 m (760 ft). The area falls under the belt of several industrial units. The road is hard and at a higher level suitable for heavy vehicular traffic. Transport is available for easy movement of personnel, raw material, machinery and finished goods in the area. There is no difficulty in getting the required power and water at the proposed location. The project site is flanked by Purulia in the east & South of West Bengal and Hazaribag in the West and Giridih in the North of Jharkhand.

Bokaro district is one of the most industrialized zones in India. It is one of the twenty-four districts of Jharkhand state in India. It was established in 1991 by carving out one subdivision consisting of two blocks from Dhanbad District and six blocks from Giridih District. Bokaro Steel City is the district headquarters.

The project site is located in the industrial area of the Bokaro city under the district of Bokaro. The most important river in the area is River Damodar which is at a distance of around 5.0 km northern side with respect to the project site. Garga Dam is situated at a nearest distance of 7.0 Km towards the south from the project site. Bokaro Steel city is located about 9.0 Km distance in the south-east direction from the project site.

The site is well connected by road and railway network of the South-Eastern Railways. Tupkadih Railway station is located about 1.5 km north from the project site. Bokaro Railway junction is located about 5.0 Km distance towards south-east direction w.r.t. the project site. NH-23 is passing around 4 km from the project site in southern side. The nearest important Airport is Birsa Munda Airport, Ranchi, which is situated at about 87 km distance in South-west direction from the project site. The project site has good connectivity with sea port of Kolkata, Haldia and Paradip.

Latitude & Longitude of four corner of Project Site	A - 23°41'59"N; 86°03'43"E
	B - 23°42'05"N; 86°03'59"E
	C - 23°41'43"N; 86°04'06"E
	D - 23°41'39"N; 86°03'53"E

Raw Materials

The details relating to major raw materials presently being used and that would be used after capacity expansion from 2.1 MTPA to 3.0 MTPA for this Cement Grinding Plant are presented.

Material	Source	Quantity for 2.1 MTPA (in TPA)	Quantity for 3.0 MTPA (in TPA)	Quantity Stored at Site (Tonnes)	Type of Storage
Clinker	OCL Rajganjpur/ Dala Cement Factory	7.66.500	10.95.000	24.000	RCC Silo
Slag	Adjoining Bokaro Steel Plant/ Usha Martin / Electro steel Giridih	12.60.000	18.00.000	100.000	Covered Shade
Gypsum	Gypsum Mine in Rajasthan	73.500	1.05.000	3000	

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	Paradeep			
Coal	Eastern coal field coal mines	22,000	60,000	2000

Project Cost

Total cost of the proposed project is Rs. 11.15 crore. The company proposes to invest 27.91 lakhs on the CSR activities, which is 2.5% of the total project cost (11.15 Crores). This fund shall be utilized over a period of 5 years

Salient Features of the Cement Grinding Plant

Required quantity of clinker is being transported by rail OCL Rajganjpur (Orissa) & Dala Shonbhadra (Uttar Pradesh) & unloaded at site through wagon tippler & transported to Clinker silo through closed conveyor belt. The existing buffer hopper and wagon loading facility shall be utilized for clinker storage and loading for transport to the proposed cement grinding plant. Slag requirement is being met from Bokaro Steel Plant by road. Gypsum is being purchased from the mines of Paradeep / Rajasthan through railway wagon / Trucks which has been also unloaded at site through wagon tippler & transported to gypsum storage shed.

Water Requirement

In the existing plant daily make up water requirement for production of 2.1 MTPA cement is 250 cu.m/day. As per an initial estimate, water to the tune of 315 cu.m/day will be required for total production of 3.0 MTPA Cement in the proposed expansion project. Thus, additional 45 kld water will be required for the proposed capacity expansion project from 2.1 MTPA to 3.0 MTPA. Water will be sourced from Garga Dam as presently available

Power Requirement

The requirement of power for existing plant (2.1 MTPA) is 21 MVA. It will be same for proposed Plant (3.0 MTPA). The power requirement will be met by Damodar Valley Corporation (DVC).

The Committee after detailed discussions and deliberation recommended the project for Terms of Reference and also considered the baseline study started in line with the Notification.

Since this is a running plant and the environmental data presented by the proponent shows the levels in higher side but below TLV permitted in NAAQS.

Though this plant lies in Industrial Area but for expanses needs public views, which can be ignored & as such Public Hearing necessary.

The project authorities along with their consultant M/s Envirotech East Pvt Ltd, Kolkata gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the draft Terms of Reference for preparation of EIA / EMP report.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meetings held during 22nd to 23rd May, 2017 the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study Annexure II.

- Proposed Cement Grinding Unit of 3.0 MTPA of M/s Ultratech Cement Limited (Unit - Bokaro Cement Works) at Village- Gorabail, Tehsil- Balidih, Dist. - Bokaro, Jharkhand.

The proposal was considered by the committee to determine the "Terms of Reference (TOR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance

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with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the project proponent has submitted the prescribed Form - I & PFR the proposed activity is listed at S. No. 3 (Material Production). Project Activity '3 (b)' Cement Plant & Scheduled as Category - 'B' of EIA Notification 2006 & appraised at State Expert Appraisal Committee, Jharkhand.

M/s. Ultratech Cement Limited proposed to install a new standalone Grinding unit with Cement Production Capacity of 3.0 MTPA at Village: Gorabali, Tehsil: Balidih, District: Bokaro (Jharkhand). The proposed project site's Latitude & Longitude are 23°40'8.04"N- 23°41'8.54"N & 86°03'58.52"E - 86°04'44.40"E. No National Park, Wild life Sanctuary, Biosphere Reserve, Protected Forest falls within 10 km radius of the project site. The site is about 6 km away from Bokaro Town. Nearest Railway Station is 2.5 km in South East direction from the proposed project site. Nearest Air Port is Ranchi at about 86 km away from the proposed project site. Total Plant Area: 68.3 acres.

Total Cost of the Proposed Project is Rs. 550 Crores. Cost for Environment Management Plan. Capital Cost is Rs. 10.0 Crores. Recurring Cost is Rs. 25 Laacs /annum.

The project proponent proposed to manufacture Portland Slag Cement (PSC), Portland Pozzolana Cement (PPC) and Ordinary Portland Cement (OPC) of capacity 3.0 MTPA with a combination of clinker, slag, fly ash & gypsum.

Main raw materials for the proposed Clinker Grinding Unit will be Clinker (1500 TPD) which will be sourced from existing Integrated Cement Plant of M/s UltraTech Cement Ltd., Gypsum (400 TPD) will be sourced from Paradeep Phosphate Limited, Haldia and Mineral Gypsum from Oman. Fly ash (200 TPD) will be sourced from SAIL, Bokaro, Electro Steel and Nearby plants. Slag (4500 TPD) will be sourced from Jharkhandpur Steel Plant & Bokaro Steel Plant & Nearby Plants.

Total water required for the project is 500 KLD. Source is from BIADA Ground water. Power Requirement (MW) is 20 MW. Source is Jharkhand State Electricity Board (JSEB) Grid and DG Set for backup. Total manpower requirement for the proposed project will be 60-100 persons.

State of art technology will be used to ensure that all the emissions are well within the standards. Greenfield Plantation Area (ha): above 33% of the total project area (i.e. 23.9 acres) will be developed under greenfield plantation.

The consultant M/s. Hubert Enviro Care Systems Pvt. Ltd., Chennai & Project Proponent made a detailed presentation on the project. During presentation the proponent has intimated that they have already started collecting data since March, 2017 and it will continue up to May 2017 and the same has been intimated along with the application as per MoEF & CC Notification dated 10.04.2015.

The Committee after detailed discussions and deliberation recommended the project for Terms of Reference and also considered the baseline study started in line with the Notification. As the project is falling under the BIADA Industrial Area, therefore Public Consultation may be exempted.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meetings held during 22nd to 23rd May, 2017 the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study Annexure III.

3. Bicha Limestone Mine of Sri Karma Oraon at Village- Bicha, Thana- Patratu, Dist.- Ramgarh, Jharkhand (4.11 Ha)

This is a Limestone Mine Project having a lease area of 4.11 Ha. The Mining lease has been executed in favour of Sri Karma Oraon on 16.03.2001 for the period of 20 Years 16.03.2001 to 15.03.2021. PP

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had not obtained EC. PP has now applied for obtaining TORs. As per Form I they have mentioned a proposed production figure of 12,030 tonnes of Limestone Mine per year. The expected life of mine has been indicated as 13 years. The mine lease area located at latitude 23° 34' 16.384" to 23° 54' 25.084" N and longitude 85° 20' 2.459" to 85° 20' 14.313" E. The indicated project cost is Rs 80 Lakhs.

The project authorities along with their consultant M/s Cognizance Research India Pvt Ltd, Noida gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the draft Terms of Reference for preparation of EIA / EMP report.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meetings held during 22nd to 23rd May, 2017 the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study Annexure IV.

E. Projects for which SEAC has sought clarifications from PP.

1. **Gangupara Bedo Stone Mine of Mainul Ansari at Village- Gangupara Bedo, Tehsil- Pathna, Dist.- Sahibganj, Jharkhand (2.025 Ha).**

This project was appraised in earlier meeting and the proponent was advised to submit the correct land status document from the concerned CO. The proponent submitted the required documents, but on scrutiny it was observed that the submitted document is not correct. The issue of land status is unresolved and fresh document needs to be submitted.

Once the PP provides the information, SEAC will examine the case.

2. **Rajhara Opencast Project of M/s CCL at Village- Rajhara & Pandwa, Tehsil- Pandawa & Birsampur, District- Palamu, Jharkhand (149.38 Ha).**

Rajhara Op. Cast is an existing old coal mining project of Central Coal Fields Ltd. The mine was started in pre independence era and was nationalised in 1973.

The mine is located in Palamu district of Jharkhand and forms the north western part of Dablonganj coal fields. The latitude and longitude of the project site is 24° 09' 3" N & 24° 10' 11" N and 84° 02' 27" E & 84° 03' 8" N respectively. The drainage of mine is controlled by North Koel river flowing in the south of project. The project area is dissected by Sadabah river tributary of North Koel. The other near by tributary of North Koel along project is Labii. There are no forest patches in Core Zone. However buffer zone has several patches of Forest like Aparar Khas, Murma, Kokansu, etc.

The nearest railway station is Rajhara station at a distance of 3 km on Gomoh-Dehri On Sone line. Daltonganj town is situated at a distance of 16 km from project. The project has an adjacent railway siding for coal transport.

The normative capacity of project is 0.3 MTPA & peak capacity is 0.5 MTPA over a project area of 149.38 Ha. Coal production is proposal from two quarries on either side of Sadabah river. Embankments have been constructed to protect the quarries from inundation and will be further strengthened / constructed particularly on eastern flank of Sadabah.

The balance geological reserve is 4.925 MT of G 9 grade and proposed mine life is 18 years. Mining will be undertaken by opencast method using shovel dumper combination.

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The project involves R&R of two villages - Rajhara (part) & Pandwa (part). The R&R policy of C.U. will be used for compensation, employment and resettlement of PAPs. The project cost is Rs 11.88 Crores.

The project authorities along with their consultant M/s Central Mine Planning & Design Institute Ltd. Ranchi gave a detailed presentation on the EIA - EMP Report.

Proponent has not submitted the certificate of concerned CO regarding class of all the proposed plots of land (whether Jangal Jhari or not). Hence, DC, Palamu has been requested vide letter no -154, dated - 15.06.17 for verification of all the plots of proposed site.

Approved Mine Plan too has not been submitted till date.

Based on the presentation made and information provided the Committee decided that the proposal for the Rajhara Opencast Project of M/s CCL at Village- Rajhara & Pandwa, Tehsil- Pandawa & Bistrampur, District- Palamu, Jharkhand (149.38 Ha), be recommended for consideration of SEIAA for grant of EC, subject to verification report of DC, Palamu regarding class of proposed land and submission of Approved Mine Plan.

3. Idpe (Gadai Bhatta) Stone Mine of Sri Ramesh Kumar Dokania at Village- Idpe (Gadai Bhatta), P.S.- Ranga, Dist.- Sahibganj, Jharkhand (2.90385 Ha / 7.17 Acre).

The proponent submitted the required documents, but on scrutiny it was observed the submitted document is not correct. The issue of land status is unresolved and fresh document needs to be submitted.

Once the PP provides the information, SEAC will examine the case.

4. Marku Quartzite Deposit of M/s Alliance Infotech Pvt Ltd at Village- Marku, Thana- Ghatsila, Dist.- East Singhbhum, Jharkhand (18.00 Acres / 7.28 Ha).

The mine plan with drawings needs correction. The geological report with criteria of resource evaluation and UNFCCC classification needs proper evaluation. The mine closure plan to be made as per the mine plan. The cost estimates for environmental management be re-casted with capital and recurring expenses shown separately. The CSR plan and cost estimates be drawn realistically and timeline be shown for each activity for proper implementation and compliance.

Once the PP provides the information, SEAC will examine the case.

5. City Centre Project of M/s Forum Infrastructure Pvt Ltd at Village- Asangi, Thana- Saraikela, Dist.- Saraikela Kharsawan, Adityapur, Jharkhand.

PP was not present.

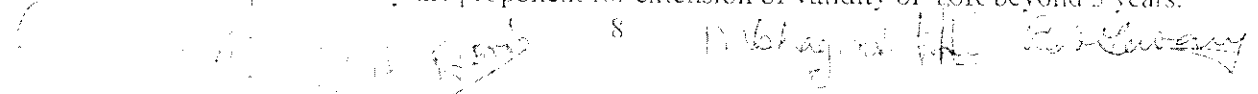
6. Nildaha Stone Mine Project of M/s Jamtara Traders [Sri Sudheshwar Kumar (Partner)] at Village- Nildaha, P.O.- Chandradeepa, P.S.- Mihijam, Dist.- Jamtara, Jharkhand (5.87 Ha).

PP has submitted certificates from CO, DFO and DMO. CO stamp was not available. PP was asked to submit duly stamp by CO.

Once the PP provides the information, SEAC will examine the case.

7. Proposed Expansion of Mosabani Copper Ore Concentration Plant from 0.612 MTPA to 0.9 MTPA of M/s Hindustan Copper Limited at Village- Badia, Block- Mosabani, District- East Singhbhum, Jharkhand.

M/s HCL case was presented by the proponent for extension of validity of ToR beyond 3 years.

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The case was presented in SEAC. Later, on scrutinizing the file, it is clear that this is a case of violation for production without EC.

SEAC seeks following documents:-

1. Letter from JSPCB regarding any violation case lying pending against this concentration plant.
 2. The proponent to submit an affidavit through Executive Magistrate reconfirming that no issue is subjudice in any court of law.
8. **Proposed 25,200 TPA Crude Coal Tar Distillation unit of M/s Vedang Hydrocarbon Pvt Ltd at Bokaro Industrial Area Development Authority (BIADA), Village- Gorabail, Tehsil- Chas, Dist.- Bokaro, Jharkhand.**

PP was not present.

9. **Tirildih – Turi Stone Deposit of M/s Kiran Construction & Infrastructure Pvt Ltd at Village- Tirildih & Turi, Thana- Ghatsila, Dist.- East Singhbhum, Jharkhand (8.90 Ha)**

PP & Consultants presented the case. SEAC made further clarification geological report of resource evaluation needs a re look, the UNFCC classification to be re eased. The material looks to be granite and not dolomite as submitted. Further the consultant was suggested to submit the field study report along with chemical and petrological study of the rock samples from an accredited laboratory. Data on 3rd dimension resource estimation methodology to be revisited. As per the report of DFO, Jamshedpur vide letter no 209, dated 19.01.16 proximity of the forest area on the western side the certificate of DFO, Saraikela should be sought. Traffic density in view of addition of the transport of large number of vehicles be properly evaluated. The foundation system of crusher and vibration isolation consideration for reduction of its impact needs to be elaborated. The mine closure plan to be properly drawn and submitted. The whole project needs to be revisited and accordingly reconst for both mine plan and environmental plan.

10. **Kusbediya Sand Mine Project on Ajay River of M/s Dhanbad Wine [Sri Shunkar Singh (Partner)] at Village- Kusbediya, P.O. & P.S.- Mihijam, Dist.- Jamtara, Jharkhand (22.27 Ha).**

The submitted documents to be corrected for khata number in Form – 1 and other papers like DMO, DFO & CO letter submitted. Once corrected documents submitted.

Once the PP provides the information, SEAC will examine the case.

11. **Gopalpur Sand Mine Project on Ajay River of M/s Swastik Traders [Sri Sudip Kumar Dey (Partner)] at Village- Gopalpur, P.O. & P.S.- Jamtara, Dist.- Jamtara, Jharkhand (24.25 Ha)**

The submitted documents to be corrected for matching of khata number in Form – 1 and other papers like DMO, DFO & CO letter submitted. Once corrected documents submitted.

Once the PP provides the information, SEAC will examine the case.

12. **Mahesh Munda Sand Mine Project on Ajay River of M/s Mehar Developers (Sri Anil Kumar Singh) at Village- Maheshmunda, P.O.- Sagjuriya, P.S.- Nala, Dist.- Jamtara, Jharkhand (16.19 Ha)**


The submitted documents needs correction for the mining plan along with section and environmental issues like environmental management plan cost estimates and CSR plan.


Once the PP provides the information, SEAC will examine the case.

E. Mine Plan of-


M. No. E (XI) was prepared by Sri R.N. Singh before November, 2016 and he did not participate in the appraisal of this project.


The meeting concluded with thanks to all present.


(Dr. B.K. Tewary)
Member



(S.P. Srivastav)
Member



(Dr. R. N. Singh)
Member


(Dr. V.P. Sinha)
Member


(Dr. R. V. Singh)
Member


(M.S. Bhagwat)
Member


(U.P. Singh)
Member


Om Prakash
Member Secretary

K.P. Bhawsinkar
Chairman

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(M.S. SBAR)

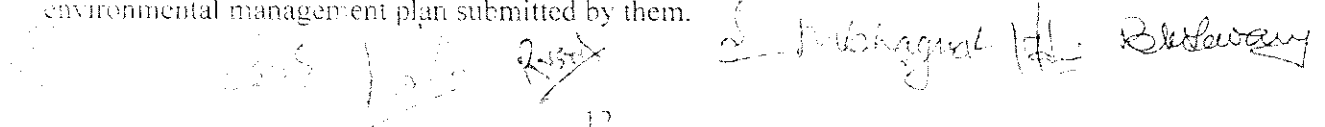
A. Specific Conditions

1. The environmental clearance is subject to grant of mining lease by the Department of Mines, Government of Jharkhand to PP and all other Statutory Conditions as imposed by various agencies. District Authorities are complied with.
2. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance.
3. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India National Green Tribunal / MOEF Guidelines applicable to Minor Minerals.
4. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any fauna occurs is found in the Project area). No damage is to be done to fauna if found in ML area (as mentioned in various schedules). In case found they should be given protection, collected alive with the help of the expert and transferred them or handing over them to the concerned authorities. Conservation Plan, if applicable has to be adhered to.
5. The mining operations shall be restricted to ground above water table and it should not intersect the ground water table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board shall be obtained. Benches height and slope shall be maintained as per approved Mining Plan. The Mining Plan has to be got approved by concerned authorities as per SFLAA guidelines. Safety measures shall be adopted in line with DGMS Guidelines.
6. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
7. The project proponent shall ensure that no natural watercourse and / or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating / passing through the mine lease area during the course of mining operation.
8. The top soil, if any shall temporarily be stored at earmarked sites) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
9. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on a monthly basis.
10. Catch drains and siltation ponds of approved size to contain silt & water its location shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, and other water bodies. The water so collected should be utilized for watering the mine area, haul roads, green belt development etc. For which a periodical report shall be sent. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
11. Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
12. Greenbelt of approved width shall be developed all along the length of mine lease area and haul roads. The Project proponent shall do adequate no. 50 bamboo gabion plantation each year and maintain it for the life of the mine along the transport road and vacant space, preferably along the periphery of mining lease. Fast growing and local species will be planted.
13. Effective safeguard measures such as regular water sprinkling shall be carried out in the identified critical areas prone to air pollution and having high levels of particulate matter such as

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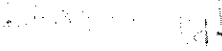
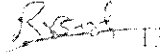
- loading and unloading boin and transfer points. Extensive water sprinkling as per approved plan shall be carried out on rail roads which should be made pucca as per approved specification of Govt. of Jharkhand and with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
14. The project proponent shall implement approved conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
 15. The project proponent shall if required, obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required from the source for the project.
 16. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
 17. Vehicular emissions shall be kept under control by regular repairing of transport road and regular air quality monitoring. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.
 18. No blasting shall be carried out after sunset. Blasting operation shall be carried out only during daylight. Controlled blasting shall be practiced. The mitigative measures for control of ground vibration and to minimise rocks and boulders should be implemented.
 19. Drills shall either be operated with the dust extractors or equipped with water injection system.
 20. Effective safeguard measures shall be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
 21. Pre-placement medical examination and periodical medical examination of the workers engaged in the project conducted by a Registered Medical Officer shall be carried out and records maintained.
 22. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
 23. Provision shall be made for the housing of construction labour at a suitable place away form the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
 24. Proper Safety measures as per statutory requirement shall be implemented around the mined out Pit prior to closure of site.
 25. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
 26. The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein.
 27. The Project Proponent shall submit six monthly report on the expenditure incurred on environmental management plan submitted by them.

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28. Since blasting and mining on Hillock - Rock out crop may also be carried out, suitable scheme for access / ramp to the highest elevation with gradient shall be submitted for approval.
29. Approved devices for dust suppression shall be installed.

B. General conditions

1. No change in mining technology and scope of working should be made without prior approval of the Statutory authorities - Department of Mines, Government of Jharkhand - Jharkhand State Pollution Control Board, Ranchi during the EC period.
2. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
3. The Project proponent shall make all internal roads pucca as per approved specification of Govt. of Jharkhand and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
4. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
5. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
6. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear muffs.
7. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards. Oil and grease trap should be installed before discharge of workshop effluents.
8. Personnel working in dusty areas should be provided with protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Detailed report shall be sent to Pollution Control Board periodically.
9. Dispensary facilities for First Aid shall be provided at site.
10. A separate environmental management / monitoring cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
11. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or at least Rs. 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA / JSPCB and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It

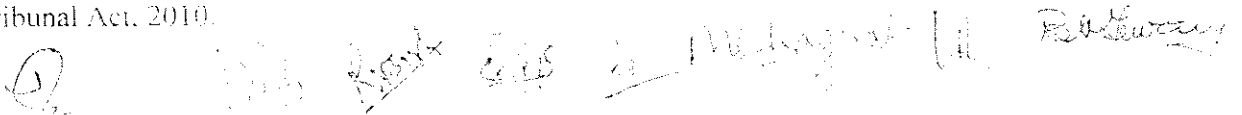


All conditions to be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely : SPM, RSPM, SO₂, NO_x (ambient levels) or critical sectoral parameters indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at convenient location near the main gate of the company or the company in the public domain.

15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently shall also be put on the website of the company along the status of compliance of EC conditions and shall also be submitted to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

C. Other points

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded will be valid for the period of grant of lease for the mine. The PP will not increase production rate and alter lease area during the validity of Environmental Clearance.
3. In case of any expansion or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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The TORs prescribed for undertaking detailed EIA study are as follows:

A. Standard Terms of Reference

1. Executive Summary of the project.
2. Introduction
 - i. Details of the EIA Consultant including NABET accreditation.
 - ii. Information about the project proponent.
 - iii. Importance and benefits of the project
3. **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 (quantitative) 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-EEMP 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 2006 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, CIL and CIO 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.

4. 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. Coordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.

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- 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. Land use break-up of total land of the project site (identified and acquired). government owned, semi-cultural, 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. DMR details in respect of land in line with state Government policy

(c) 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. Land use 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-a-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.

6. 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 NAAQM Notification of Nov. 2009 along with - min., max., average and 98% values for

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- 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.

7. Impact and Environmental 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.

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Action plan for recovery/ 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.

8. 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) I.C.G. 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) or less or not within PEL. What measures the company has adopted to keep them within PEL so the health of the workers can be preserved.
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9. 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 any focus on 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.

10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Enterprise Social Commitment (ESC)

- 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.



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12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project. If so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/A/R to the notice(s) and present status of the case.
13. A tabular chart with index for point wise compliance of above TOR.
14. Beside the above, the below mentioned general points should also be followed:
 - a) A note confirming compliance of the ToR, with cross referencing of the relevant sections/pages of the EIA report should be provided.
 - b) All documents may 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) Where the documents provided are in a language other than English, an English translation should be provided.
 - e) The questionnaire for environmental appraisal of Cement Grinding projects as prescribed by the Ministry shall also be filled and submitted.
 - f) All statutory clearances obtained for the project shall be included in the EIA report.
 - g) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M No. J-11013/41/2006-IA,II(I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.

B. Specific Terms of Reference

1. Limestone and coal linkage documents along with the status of environmental clearance of limestone and coal mines
2. Quantity of production of coal and limestone from coal & limestone mines and the projects they cater to.
3. 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.
4. Present land use shall be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land use/land-cover mapping of the area.
5. If the raw materials used have trace elements, an environment management plan shall also be included.
6. Plan for the implementation of the recommendations made for the cement plants in the CREP guidelines must be prepared.
7. Energy consumption per ton of clinker and cement grinding
8. Provision of waste heat recovery boiler
9. Arrangement for use of hazardous waste
10. Though public hearing for industrial area is not required, but since the plant is running and level of pollution observed to be as higher side as per the data presented by proponent and as such

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committee recommends for a public hearing. 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/EEMP Report of the Project.

C. Other

15. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.
16. The prescribed TORs would be valid for a period of three years for submission of the EIA, EMP reports, as per the O.M. No. J-11015/109:2013-IA.II(M), dated 12.01.2017.

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The TORs prescribed for undertaking detailed EIA study are as follows:

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2. Introduction

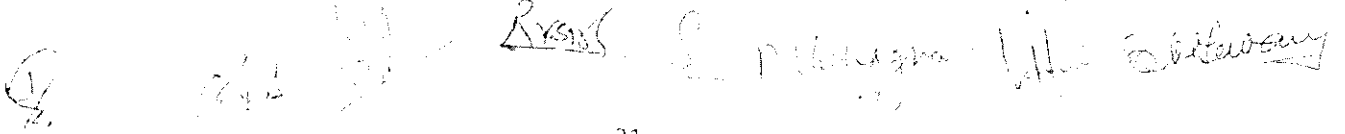
- i. Details of the EIA Consultant including NABET accreditation.
- ii. Information about the project proponent.
- iii. Importance and benefits of the project

3. 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 2006 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.

4. 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.

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- ii. A toposheet of the study area of radius of 10km (i.e. circle of 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. Land use 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 (ecological features and Geomorphological status of the study area shall be included.
- x. Details of Drainage of the project upto 5km radius of study area. Flow charts 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

2. Forest and wildlife related issues (if applicable):

- i. Form for forest approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
- ii. Land use 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.

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6. 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 guideline.
- 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.

7. Impact and Environmental 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.

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- iv. A note on treatment of wastewater from different plant operations, water 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, 1987. 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, planting 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 this 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.
- iv. 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.

9. 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.
10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Enterprise Social Commitment (ESC)

- 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.
12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance A/R to the notice(s) and present status of the case.

13. A tabular chart with index for point wise compliance of above TOR.

14. Beside the above, the below mentioned general points should also be followed:

- a) A note confirming compliance of the ToR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
- b) All documents may 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) Where the documents provided are in a language other than English, an English translation should be provided.
- e) The questionnaire for environmental appraisal of Cement Grinding projects as prescribed by the Ministry shall also be filled and submitted.
- f) All statutory clearances obtained for the project shall be included in the EIA report.
- g) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M No. J-11013/41/2006-IA.II(J) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.



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B. Specific Terms of Reference

1. Limestone and coal linkage documents along with the status of environmental clearances of limestone and coal mines.
2. Quantum of production of coal and limestone from coal & limestone mines and the projects they cater to;
3. 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.
4. Present land use shall be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, 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.
5. If the raw materials used have trace elements, an environment management plan shall also be included.
6. Plan for the implementation of the recommendations made for the cement plants in the EIA/EMP guidelines must be prepared.
7. Energy consumption per ton of clinker and cement grinding.
8. Provision of waste heat recovery boiler.
9. Arrangement for use of hazardous waste.

C. Other

13. Changes, if any made in the basic scope and project parameters (as submitted in Form-1 and the E.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.

The prescribed TORs would be valid for a period of three years for submission of the EIA & EMP reports, as per the O.M. No. J-11015/109/2013-LA.II(M) , dated 12.01.2017.

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The TORs prescribed for undertaking detailed EIA study are as follows:

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, with 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.

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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 representatives 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 RITP farms in the study area, with necessary details should be given.
16. A study shall be undertaken to ascertain the impact of the Mining Project on wildlife of the study area. The details of the study, including the impact on the wildlife in the surrounding and any other measures to be adopted 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 sites, 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 geographically 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 RIT 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).

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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, particulate 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 vehicle, the 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. 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. 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.
29. 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.

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30. 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.
31. 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.
32. 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.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. 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.
35. Occupational health aspects of the project shall be articulated in detail with pre-employment 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.

42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
43. Benefits of the Project if the Project is implemented should be spell out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
44. 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 / NABI, 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(D) 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(D) 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.

After preparing the draft EIA (as per the generic structure prescribed in Appendix- III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.

The prescribed TORs would be valid for a period of three years for submission of the EIA /EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M), dated 12.01.2017.