

**MINUTES OF THE 7th MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 16<sup>th</sup>, 17<sup>th</sup> and 18<sup>th</sup> JULY 2013**

The 7th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 16<sup>th</sup>, 17<sup>th</sup> & 18<sup>th</sup> July 2013 under the Chairmanship of Sh. A.K. Saxena in the Conference Room at 170 C, Ashok Nagar, Ranchi. The following members were present:

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|----|-------------------------|-------------|
| 1. | Sh. S.B.S Chauhan       | - Member    |
| 2. | Dr. R.P. Singh Sangu    | - Member    |
| 3. | Prof. (Dr.) M.C. Mahata | - Member    |
| 4. | Er. S.K. Singh          | - Member    |
| 5. | Prof.(Dr.) S.K. Singh   | - Member    |
| 6. | Sh. S.K. Sinha          | - Secretary |

At the outset the members of the committee went through the Minutes of 6th Meeting held on 17<sup>th</sup> & 18<sup>th</sup> June 2013 and confirmed the same.

Various projects which were forwarded by SEIAA to SEAC after the previous SEAC meeting for their technical appraisal came up for discussions. Also those Projects which were appraised in SEAC's 2nd Meeting held on 16<sup>th</sup> & 17<sup>th</sup> May 2013 and 6th Meeting held on 17<sup>th</sup> & 18<sup>th</sup> June 2013 and were also considered for examination / scrutiny where the Project proponents had complied with replies. Accordingly, the Project proponents were asked to make technical presentation for the appraisal of their project before the committee.

The following observations were made during the Presentation (Project Wise).

**A. Projects recommended to SEIAA for consideration of grant of EC.**

1. **Sand Mining Project of Central Coalfields Limited in the River Bed of Bokaro River for Swang Sand Mine Project at Village Hazari, Block Gomia, Dist – Bokaro, Jharkhand (Area 34.83 Ha).**

The proposal is for mining of 0.135 MCM per year Normative Capacity and 0.145 MCM per year Peak Capacity of sand from bed of river Bokaro for stowing in their underground mine. The mine lease area is 34.83 Ha. However the mining area will be limited to 14.60 Ha. Mining will be done to a depth of 3 m. The mineable reserves are 0.44 MCM. The Project proponent was carrying mining through Contractual means after getting temporary sand lifting permission from DMO, Bokaro. In light of the Supreme Court Judgement DMO, Bokaro has asked them to obtain EC for granting lease. The PP has now approached for grant of TOR.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meeting held during 16<sup>th</sup> to 18<sup>th</sup> July, 2013 the Committee prescribed following TORs for undertaking detailed EIA/EEMP study:

- i. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification, 1994 came into force w.r.t. the highest production achieved prior to 1994.

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- ii. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- iii. All documents including approved mine plan, EIA and public hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management and mining technology should be in name of lessee. While preparing the Mine Plans points mentioned in letter no Z-11012/3/2009-IA.II(M) dated 1<sup>st</sup> June 2010 issued by Minister of State (Independent Charge), Environment & Forests, Government of India alongwith SEIAA Guidelines should be given due consideration.
- iv. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topo-sheet 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).
- v. Does the company have 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.
- vi. The terms and conditions imposed, if any, by the Competent Authority in the State Government while granting mining lease should be built into the mine plan as well as the EIA report. It may inter-alia include; area of working, mode of working, working shift, transportation of mineral etc.
- vii. 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 lease/ contract period.
- viii. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary and national park, migratory routes of fauna, water bodies, human settlements and other ecological features. The 'no go areas' in terms of the contract should also be shown.
- ix. Description of available technologies for mining of sand should be included. Reason for choosing the proposed technology should be brought out.
- x. Land use plan of the mine lease area should be prepared to encompass pre-operational, operational and post operational phases. A site plan showing various components of the Project should also be included.
- xi. Status of forestry clearance for the forest land involved, if any. A copy of the proposal submitted for forestry clearance should also be furnished.
- xii. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves (existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated. A location map duly authenticated by Chief Wildlife Warden should be provided in this regard. Necessary clearance, if any, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above should be obtained from the State Wildlife Department/ Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished.

- xiii. A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] including the aquatic fauna in the riverine system shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- xiv. Impact of the project on land use including impact / change of river course, if any.
- xv. Impact on topography, drainage, agricultural fields, cattle fields, wildlife, water logging leading to water borne diseases, if any. It may also be shown whether it will lead to change of watercourse of the river. Modeling exercise should also be carried out through an expert agency to show the change in river flow dynamics, if any.
- xvi. Collection of one season (non-monsoon) primary baseline data on ambient air quality (PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>x</sub>), water quality, noise level, soil and flora and fauna. Site-specific meteorological data should also be collected. The location of the monitoring stations should be justified. Date wise collected baseline AAQ data should form part of EIA and EMP report. The mineralogical composition of PM<sub>10</sub> particularly for free silica should be given. The already collected data during winter of 2009-2010 may be used provided it satisfies the monitoring protocol.
- xvii. Air quality Modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for Modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- xviii. The water requirement for the project, its availability and source to be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should also be indicated.
- xix. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
- xx. Impact of the project on the water quality should be assessed and necessary safeguard measures, if any required should be provided.
- xxi. A detailed Hydrogeological Study to assess on the river water course is to be included. The same shall include information on site elevation, working depth, groundwater table should be provided both in AMSL and below ground level. A schematic diagram may also be provided for the same.
- xxii. Quantity of solid waste generation, if any, to be estimated and details for its disposal and management be provided.
- xxiii. Details of sand handling, loading and transportation arrangement is to be provided. Impact on local transport infrastructure due to the project should be identified. Projected increase in truck traffic as a result of the project in the present road network (including those outside the project area) and whether it is capable of handling the increased load. Arrangement for improving the infrastructure, if contemplated including action to be taken by other agencies such as State Government, if any, should be covered.
- xxiv. Details of the infrastructure facilities to be provided for the mine workers.



- xxv. Phase-wise plan of greenbelt development, plantation and compensatory afforestation clearly indicating the area to be covered under plantation and the species to be planted.
- xxvi. Occupational health impact of the project. Details of pre-placement medical examination and periodical medical examination schedules and medical facilities proposed to be provided should be incorporated in the EMP.
- xxvii. Measures of socio economic influence to the local community proposed to be provided by project proponent. As far as possible, quantitative dimension to be given.
- xxviii. Detailed environmental management plan to mitigate the environmental impacts. Specific safeguard measures to control PM<sub>10</sub> as well as pollution due to transportation should be given.
- xxix. Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same.
- xxx. Any litigation pending against the project and /or any direction /order passed by any Court of Law against the project, if so, details thereof.
- xxxi. The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.

Besides the above, the below mentioned general points will also to be followed:-

- a) All documents to be properly referenced with index, page numbers and continuous page numbering.
- b) Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- c) Where the documents provided in a language other than English, an English translation should be provided.
- d) The Questionnaire for environmental appraisal of mining projects as devised earlier by MOEF shall also be filled and submitted.
- e) Approved mine plan along with copy of the approval letter for the proposed capacity should also be submitted.
- f) 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.
- g) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area and (ii) geological maps and sections.

The prescribed TORs would be valid for a period of two years for submission of the EIA / EMP reports, as per the O.M. No. J-11013/41/2006-IA.II(I) dated 22.3.2010.

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.

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**2. Sand Mining Project of Central Coalfields Limited in the River Bed of Damodar River for Jarangdih Sand Mine Project at Village Kathara, Block Bermo, Dist – Bokaro, Jharkhand (Area 48.75 Ha).**

The proposal is for mining of 0.146 MCM per year Normative Capacity and 0.156 MCM per year Peak Capacity of sand from bed of river Damodar for stowing in their underground mine. The mine lease area is 48.75 Ha. Mining will be done to a depth of 3 m. The mineable reserves are 1.08 MCM. The Project proponent was carrying mining through Contractural means after getting temporary sand lifting permission from DMO, Bokaro. In light of the Supreme Court Judgement DMO, Bokaro has asked them to obtain EC for granting lease. The PP has now approached for grant of TOR.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meeting held during 16<sup>th</sup> to 18<sup>th</sup> July, 2013 the Committee prescribed following TORs for undertaking detailed EIA/EMP study:

- i. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification, 1994 came into force w.r.t. the highest production achieved prior to 1994.
- ii. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- iii. All documents including approved mine plan, EIA and public hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management and mining technology should be in name of lessee. While preparing the Mine Plans points mentioned in letter no Z-11012/3/2009-IA.II(M) dated 1<sup>st</sup> June 2010 issued by Minister of State (Independent Charge), Environment & Forests, Government of India alongwith SEIAA Guidelines should be given due consideration.
- iv. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topo-sheet 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).
- v. Does the company have 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.
- vi. The terms and conditions imposed, if any, by the Competent Authority in the State Government while granting mining lease should be built into the mine plan as well as the EIA report. It may inter-alia include; area of working, mode of working, working shift, transportation of mineral etc.

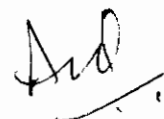
- vii. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc should be for the lease/ contract period.
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- xiii. A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] including the aquatic fauna in the riverine system shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- xiv. Impact of the project on land use including impact / change of river course, if any.
- xv. Impact on topography, drainage, agricultural fields, cattle fields, wildlife, water logging leading to water borne diseases, if any. It may also be shown whether it will lead to change of watercourse of the river. Modeling exercise should also be carried out through an expert agency to show the change in river flow dynamics, if any.
- xvi. Collection of one season (non-monsoon) primary baseline data on ambient air quality (PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>x</sub>), water quality, noise level, soil and flora and fauna. Site-specific meteorological data should also be collected. The location of the monitoring stations should be justified. Date wise collected baseline AAQ data should form part of EIA and EMP report. The mineralogical composition of PM<sub>10</sub> particularly for free silica should be given. The already collected data during winter of 2009-2010 may be used provided it satisfies the monitoring protocol.
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- xviii. The water requirement for the project, its availability and source to be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should also be indicated.
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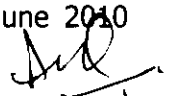
### **3. Sand Mining Project of Central Coalfields Limited in the River Bed of Konar River for Govindpur Sand Mine Project at Village Govindpur, Block Bermo, Dist – Bokaro, Jharkhand (Area 35.58 Ha).**

The proposal is for mining of 0.135 MCM per year Normative Capacity and 0.145 MCM per year Peak Capacity of sand from bed of river Damodar for stowing in their underground mine. The mine lease area is 35.58 Ha. Mining will be done to a depth of 3 m. The mineable reserves are 0.75 MCM. The Project proponent was carrying mining through Contractual means after getting temporary sand lifting permission from DMO, Bokaro. In light of the Supreme Court Judgement DMO, Bokaro has asked them to obtain EC for granting lease. The PP has now approached for grant of TOR.

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- ii. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- iii. All documents including approved mine plan, EIA and public hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management and mining technology should be in name of lessee. While preparing the Mine Plans points mentioned in letter no Z-11012/3/2009-IA.II(M) dated 1<sup>st</sup> June 2010

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issued by Minister of State (Independent Charge), Environment & Forests, Government of India alongwith SEIAA Guidelines should be given due consideration.

- iv. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topo-sheet 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).
- v. Does the company have 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.
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- xiv. Impact of the project on land use including impact / change of river course, if any.

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- xvi. Collection of one season (non-monsoon) primary baseline data on ambient air quality (PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>x</sub>), water quality, noise level, soil and flora and fauna. Site-specific meteorological data should also be collected. The location of the monitoring stations should be justified. Date wise collected baseline AAQ data should form part of EIA and EMP report. The mineralogical composition of PM<sub>10</sub> particularly for free silica should be given. The already collected data during winter of 2009-2010 may be used provided it satisfies the monitoring protocol.
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- f) 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.
- g) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area and (ii) geological maps and sections.

The prescribed TORs would be valid for a period of two years for submission of the EIA / EMP reports, as per the O.M. No. J-11013/41/2006-IA.II(I) dated 22.3.2010.

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.

**4. Proposed Modernization cum Expansion Project of M /s Super Smelters Limited from 96,000 TPA to 0.2 MTPA at Addi Bunglow Road, Jhumri Telaiya, District Koderma, Jharkhand.**

M /s Super Smelters Limited (PP) alongwith their consultant, M/s Globe Experts, Bhubaneshwar gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the proposed TORs for preparation of EIA/EMP report. The PP have proposed for expansion of Induction Furnace & Rolling Mill in the existing plant premises at Addi Bunglow Road, Jhumri Telaiya, District Koderma .

Total project area is 7.43 acres and green belt will be developed in 2.47 acres i.e. 33% (inclusive of existing) of the total plant area. Expansion will be taken up at the existing location. Total cost of the expansion project is Rs. 20.96 Crores.

The sponge iron, pig iron, scrap and Ferro Alloys will be fed to Induction furnace to make ingots / billets which will be rolled to produce TMT bars . Coal which was being used in gasifier to producer gas will be discontinued during expansion. Fume extraction system will be provided to Induction Furnaces.

Total water required for the proposed expansion project is 67 m<sup>3</sup> /d. The water requirement for the proposed expansion project will be drawn from Bore Wells. Slag generated from SMS will be crushed and after iron recovery the inert material will be used in road construction. Mill scale from Rolling mill will be reused in SMS. Power requirement for the proposed plant will be met from DVC.

The existing as well as proposed units along with their capacities and products are as follows:

UNITS	CAPACITY	PRODUCT
<b>EXISTING PLANT SCENARIO</b>		
Induction Furnace, 4X 4 t	63,000 TPA	Billets
Rolling Mill	96,000 TPA	TMT
Producer Gas Plant	6,000 Nm <sup>3</sup> /hr	Producer Gas
<b>PROPOSED PLANT</b>		
<b>Phase I</b>		
Induction Furnace, 2X 12 t	110,000 TPA	Billets
Rolling Mill	100,000 TPA	TMT
<b>Phase II</b>		
Induction Furnace, 2X 12 t	110,000 TPA	Billets
Rolling Mill	100,000 TPA	TMT

After detailed deliberations, the Committee prescribed following TORs for undertaking detailed EIA/EMP study:

- 1 Executive summary of the project.
- 2 Photographs of the existing and proposed plant area.
- 3 A certified report of the status of compliance of the conditions stipulated in the environmental clearance and Consent to Operate for the existing operation of the project from JSPCB.
- 4 Recent monitoring report which shall include data on AAQ, water quality, solid waste etc. shall be submitted.
- 5 A line diagram / flow sheet for the process and EMP
- 6 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, compliance to the notice(s).
- 7 Proposal should be submitted to the Ministry for environment clearance only after acquiring total land. Necessary documents indicating acquisition of land should be included.
- 8 A site location map on Indian map of 1:10, 00,000 scale followed by 1:50,000/1:25,000 scale on an A3/A2 sheet with at least next 10 Kms of terrains i.e. circle of 10 kms and further 10 kms on A3/A2 sheets with proper longitude/latitude/heights with min. 100/200 m. contours should be included. 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site.
- 9 Present land use should be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened

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- etc. for the 10Km radius area from proposed site. The same should be used for land used/land-cover mapping of the area.
- 10 Location of national parks / wildlife sanctuary / reserve forests within 10 km. radius should specifically be mentioned. A map showing landuse/landcover, reserved forests, wildlife sanctuaries, national parks, tiger reserve etc in 10 km of the project site.
  - 11 A list of industries within 10 km radius of the plant area.
  - 12 Details and classification of total land (identified and acquired) should be included.
  - 13 Project site layout plan showing raw materials and other storage plans, bore well or water storage, aquifers (within 1 km.) dumping, waste disposal, green areas, water bodies, rivers/drainage passing through the project site should be included.
  - 14 List of raw material required and source along with mode of transportation should be included. All the trucks for raw material and finished product transportation must be "Environmentally Compliant".
  - 16 Quantification & Characterization of solid /hazardous waste & its action plan for management should be included.
  - 15 Mass balance for the raw material and products should be included.
  - 16 Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall is necessary.
  - 17 Ambient air quality at 8 locations within the study area of 10 km., aerial coverage from project site with one AAQMS in downwind direction should be carried out.
  - 18 The suspended particulate matter present in the ambient air must be analyzed for the presence of poly-aromatic hydrocarbons (PAH), i.e. Benzene soluble fraction. Chemical characterization of RSPM and incorporating of RSPM data.
  - 19 Determination of atmospheric inversion level at the project site and assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features.
  - 20 Ambient air quality as per National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be included.
  - 21 Air Quality Impact Prediction Modelling based on ISCST-3 or the latest models.
  - 22 Impact of the transport of the raw materials and end products on the surrounding environment should be assessed and provided.
  - 23 An action plan to control and monitor secondary fugitive emissions from all the sources as per the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30<sup>th</sup> May, 2008.
  - 24 Presence of aquifer/aquifers within 1 km of the project boundaries and management plan for recharging the aquifer should be included.
  - 25 Source of surface/ground water level, site (GPS), cation, anion (Ion Chromatograph), metal trace element (as above) chemical analysis for water to be used. If surface water is used from river, rainfall, discharge rate, quantity, drainage and distance from project site should also be included.
  - 26 Ground water analysis with bore well data, litho-logs, drawdown and recovery tests to quantify the area and volume of aquifer and its management.
  - 27 'Permission' for the drawl of water should be obtained from concerned authorities. Water balance data must be provided.
  - 28 Action plan for rainwater harvesting measures should be prepared and the same should be got duly approved from Ground Water Directorate, Government of Jharkhand .
  - 29 Surface water quality at eight locations must be ascertained.
  - 30 If the site is within 10 km radius of any major river, Flood Hazard Zonation Mapping is required at 1:5000 to 1:10,000 scale indicating the peak and lean river discharge as well as flood occurrence frequency.
  - 31 Pretreatment of raw water, treatment plant for waste water should be described in detail. Design specifications may be included.

- 32 Ground water monitoring minimum at 8 locations and near solid waste dump zone, Geological features and Geo-hydrological status of the study area are essential as also. Action plan for solid/hazardous waste generation, storage, utilization and disposal particularly slag from all the sources should also be included.
- 33 Identification and details of land to be used for all type of slag disposal in the secured land fill as per CPCB guidelines should be included.
- 34 End use of solid waste and its composition should be covered. Toxic metal content in the waste material and its composition should also be incorporated particularly of slag.
- 35 Provision of Toxic Chemical Leachability Potential (TCLP) test for the slag and its end use should be included.
- 36 Action plan for the green belt development plan in 33 % area should be included.
- 37 Ecological status (Terrestrial and Aquatic) is vital. Detailed description of the flora and fauna (terrestrial and aquatic) should be given with special reference to rare, endemic and endangered species and various issues addressed and included.
- 38 Disaster Management Plan including risk assessment and damage control needs to be addressed.
- 39 Occupational health:
- a) Details of existing Occupational & Safety Hazards. What are the exposure levels of above mentioned 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,
  - b) Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of abovementioned parameters as per age, sex, duration of exposure and department wise.
  - c) Annual report of health status of workers with special reference to Occupational Health and Safety.
  - d) Plan and fund allocation to ensure the occupational health & safety of all contract and sub-contract workers.
- 40 At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on Public Hearing proceedings and item-wise details along with time bound action plan should be included. Socio-economic development activities need to be elaborated upon.
- 41 Total capital cost and recurring cost/annum for environmental pollution control measures should also be included.
- 42 Any litigation pending against the project and / or any direction / order passed by any Court of Law against the project, if so, details thereof.

The TORs prescribed shall be valid for a period of two years for submission of the EIA/EMP Report.

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.

**5. Narma Bauxite Mines of Shri Madan Mohan Prasad Singh at Village Narma , P.S – Bishnupur, Dist – Gumla Jharkhand (Area 21.0 Ha).**

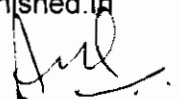
This is a Bauxite Mining Project having a lease area of 21.0 Ha which includes 8.49Ha of Forest Land. In Form I PP has stated that he has applied for surrender of 8.49 Ha of Forest land. The lease was sanctioned on 25th October 1986 and executed on 26<sup>th</sup> March 1990 for a period of 20 years for an area of 21.0 Ha They have applied for extension of Mining Lease on 7th March 2009. As per Form I they have mentioned a production figure of 41,500 tonnes of Bauxite per year. As per Executive Summary the total Mineral resources are 7,77,793 tonnes and mineable reserves are 6,23,936 tonnes. The life of mine has been indicated as 12 years based on current reserves and 295 working days. This project falls under 'B1' Category MOEF forwarded the application to SEIAA, Jharkhand for its consideration for issuance of TORs. The mine is located between 84°16'32.99" to 84°16'9.8" E and 23°23'30.45" to 23°23'53.66"N.

The Proposal is for renewal of lease and 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. For this purpose, the Proponent had submitted information in the prescribed format (Form-1) along with a Pre-feasibility Report. The committee also observed that this is a case of violation. The committee asked the PP to submit an undertaking from its Board / Management that there will be no violation in future.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meeting held during 16<sup>th</sup> to 18<sup>th</sup> July, 2013 the Committee prescribed following TORs for undertaking detailed EIA/EMP study:

1. Year-wise production details since 1994 onwards should be given in the EIA Report duly certified by DMO clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been violation of Environmental Protection Act 1986 and any increase in production after the EIA Notification, 1994 coming into force w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be included in the EIA Report.
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 and mining technology and should be in the name of the lessee.
4. All corner coordinates of the mine lease area superimposed on High Resolution Imagery/toposheet should be provided.
5. 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.
6. 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.
7. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.

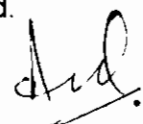
8. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary and national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated.
11. Land use plan of the mine lease area should be prepared to encompass Pre-operational, operational and post operational phases and submitted.
12. Details of the land for OB dump 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.
13. High Resolution Satellite Imagery of the proposed area clearly showing the land use and other ecological features of the study area (core and buffer zone) should be furnished.
14. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any in the project area, or otherwise, based on land use classification (revenue record) as also in terms of the definition of forest as pronounced in the judgment of the Hon'ble Supreme Court of India in the matter of T.N. Godavarman Vs. Union of India. In the event of any claim by the project proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
15. Status of forestry clearance for the broken up area and virgin forestland involved in the project including deposition of net present value (NPV) and compensatory afforestation (CA). A copy of the forestry clearance should also be furnished.
16. Implementation of status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
17. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required should be worked out with cost implications and submitted.
18. The vegetation in the RF / PF area with necessary details should be given.
19. A study shall be got done to ascertain the impact of the mining project on wildlife of the area including on the elephant population and details furnished.
20. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves (existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, if any, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above should be obtained from the State Wildlife Department/Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished.



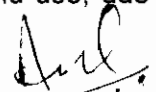


case, there is no such Eco-sensitive area within 10 km, the boundary of the nearest Eco-sensitive area with its distance shall be marked in a drawing and included in EIA / EMP Report.

21. A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on primary field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for Implementing the same should be made as part of the project cost.
22. Impact, if any, of change of land use should be given.
23. R&R plan / compensation details for the project affected people should be furnished. While preparing the R&R plan, the National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs / STs and other weaker sections, need based sample survey, family-wise, should be undertaken to assess their requirement and action programmes prepared accordingly integrating the sectoral programme of line departments of the State Government.
24. Collection of one season (non-monsoon) primary baseline data on ambient air quality, water quality, noise level, soil and flora and fauna. Site-specific meteorological data should also be collected. The location of the monitoring stations should be justified. Date wise collected baseline AAQ data should form part of EIA and EMP report. The mineralogical composition of RSPM/SPM particularly for free silica should be given. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10 particularly for free silica should be given.
25. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
26. The water requirement for the project, its availability and source to be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should be indicated.
27. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
28. Details of water conservation measures proposed to be adopted in the project should be given.
29. 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.
30. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed hydro geological study should be undertaken and report furnished. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.



31. Details of any stream, seasonal or otherwise, passing through lease area and modification / diversion proposed, if any and the impact of the same on the hydrology should be brought out.
32. Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand.
33. 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.
34. Quantity of solid waste generation to be estimated and details for its disposal and management should be provided. The quantity, volumes and methodology planned for removal and utilisation (preferably concurrently) of top soil should be indicated. Details of backfilling proposed, if any, should also be given. It may be clearly indicated that out of the total waste generated during the mine life, how much quantity would be backfilled and how much quantity would be disposed off in the form of external dump (number of dumps, their height, terraces etc. to be brought out).
35. The reclamation plan, mine closure plan, post mine land use and progressive greenbelt development plan shall be prepared in tabular form (prescribed format) and submitted.
36. Impact on local transport infrastructure due to the project should be indicated. Projected increase in truck traffic as a result of the project in the present road network (including those outside the project area) should be worked out, indicating whether it is capable of handling the increased load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.
37. Details of the infrastructure facilities to be provided for the mine workers should be included in the EIA report.
38. Conceptual post mining land use and Reclamation and Rehabilitation of mined out area (with plans and with adequate number of sections) should be given in the EIA report.
39. Phase-wise plan of greenbelt development, plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.
40. Occupational health impact of project should be anticipated and preventive measures initiated. Details in this regard should be provided. Details of preplacement medical examination and periodical medical examination schedules should be incorporated in the EMP.
41. Public health implication of the project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocation.
42. Measures of socio economic significance and influence to the local community proposed to be provided by project proponent should be indicated. As far as possible, quantitative dimensions may be given with time frame for implementation.
43. Detailed environmental management plan to mitigate the environmental impacts which, should inter-alia also include the impact due to change of land use, due to



loss of agricultural land and grazing land, if any, occupational health impacts besides other impacts of the projects.

44. Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
45. Details of litigation pending against the project, if any, with direction / order passed by any Court of Law against the project should be given.
46. The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.

Besides 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 mining projects as prescribed by the Ministry shall also be filled and submitted.
- f) Approved mine plan along with copy of the approval letter for the proposed capacity should also be submitted.
- 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.
- h) 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 MOEF 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 process again with the revised documentation.

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.

The prescribed TORs would be valid for a period of two years for submission of the EIA / EMP reports, as per the O.M. No. J-11013/41/2006-IA.II(I) dated 22.3.2010.

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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.

**6. Bambesa Limestone Mines of M / s Singhbhum Agrochem Industries at Village Bambesa, P.S – Kolhan, Sub Dist Chaibasa, Dist – West Singhbhum, Jharkhand (Area 15.314 Ha).**

This is a Limestone Mining Project having a lease area of 15.314 Ha. The lease was sanctioned on 21<sup>st</sup> June 1979 for a period of 10 years for an area of 15.314 Ha. The PP has applied for extension of Mining Lease for a period of 20 years w.e.f. 21<sup>st</sup> June 2009. As per Form I the PP proposes to mine 27,390 tonnes of Limestone per year. As per Executive Summary the total Geological reserves are 36,24,957 tonnes and mineable reserves are 26,10,853 tonnes. The life of mine has been indicated as 130.5 years based on current reserves and 295 working days. This project falls under 'B1' Category and is for consideration for issuance of TORs. The mine is located between 85°45'25.48" to 85°46'50.74" E and 22°29'18.33" to 22°29'34.87"N.

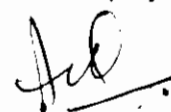
The Proposal is for renewal of lease and was considered by the Committee to determine the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006. For this purpose, the Proponent had submitted information in the prescribed format (Form-1) along with a Pre-feasibility Report. The committee also observed that this is a case of violation. The committee asked the PP to submit an undertaking from its Board / Management that there will be no violation in future.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meeting held during 16<sup>th</sup> to 18<sup>th</sup> July, 2013 the Committee prescribed following TORs for undertaking detailed EIA/EMP study:

1. Year-wise production details since 1994 onwards should be given in the EIA Report duly certified by DMO clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been violation of Environmental Protection Act 1986 and any increase in production after the EIA Notification, 1994 coming into force w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be included in the EIA Report.
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 and mining technology and should be in the name of the lessee.
4. All corner coordinates of the mine lease area superimposed on High Resolution Imagery/toposheet should be provided.

5. 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.
6. 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.
7. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
8. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary and national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated.
11. Land use plan of the mine lease area should be prepared to encompass Pre-operational, operational and post operational phases and submitted.
12. Details of the land for OB dump 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.
13. High Resolution Satellite Imagery of the proposed area clearly showing the land use and other ecological features of the study area (core and buffer zone) should be furnished.
14. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any in the project area, or otherwise, based on land use classification (revenue record) as also in terms of the definition of forest as pronounced in the judgment of the Hon'ble Supreme Court of India in the matter of T.N. Godavarman Vs. Union of India. In the event of any claim by the project proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
15. Status of forestry clearance for the broken up area and virgin forestland involved in the project including deposition of net present value (NPV) and compensatory afforestation (CA). A copy of the forestry clearance should also be furnished.
16. Implementation of status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
17. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required should be worked out with cost implications and submitted.
18. The vegetation in the RF / PF area with necessary details should be given.

19. A study shall be got done to ascertain the impact of the mining project on wildlife of the area including on the elephant population and details furnished.
20. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves (existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, if any, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above should be obtained from the State Wildlife Department/Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished. In case, there is no such Eco-sensitive area within 10 km, the boundary of the nearest Eco-sensitive area with its distance shall be marked in a drawing and included in EIA / EMP Report.
21. A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on primary field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for Implementing the same should be made as part of the project cost.
22. Impact, if any, of change of land use should be given.
23. R&R plan / compensation details for the project affected people should be furnished. While preparing the R&R plan, the National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs / STs and other weaker sections, need based sample survey, family-wise, should be undertaken to assess their requirement and action programmes prepared accordingly integrating the sectoral programme of line departments of the State Government.
24. Collection of one season (non-monsoon) primary baseline data on ambient air quality, water quality, noise level, soil and flora and fauna. Site-specific meteorological data should also be collected. The location of the monitoring stations should be justified. Date wise collected baseline AAQ data should form part of EIA and EMP report. The mineralogical composition of RSPM/SPM particularly for free silica should be given. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10 particularly for free silica should be given.
25. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
26. The water requirement for the project, its availability and source to be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should be indicated.
27. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
28. Details of water conservation measures proposed to be adopted in the project should be given.



29. 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.
30. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed hydro geological study should be undertaken and report furnished. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
31. Details of any stream, seasonal or otherwise, passing through lease area and modification / diversion proposed, if any and the impact of the same on the hydrology should be brought out.
32. Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand.
33. 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.
34. Quantity of solid waste generation to be estimated and details for its disposal and management should be provided. The quantity, volumes and methodology planned for removal and utilisation (preferably concurrently) of top soil should be indicated. Details of backfilling proposed, if any, should also be given. It may be clearly indicated that out of the total waste generated during the mine life, how much quantity would be backfilled and how much quantity would be disposed off in the form of external dump (number of dumps, their height, terraces etc. to be brought out).
35. The reclamation plan, mine closure plan, post mine land use and progressive greenbelt development plan shall be prepared in tabular form (prescribed format) and submitted.
36. Impact on local transport infrastructure due to the project should be indicated. Projected increase in truck traffic as a result of the project in the present road network (including those outside the project area) should be worked out, indicating whether it is capable of handling the increased load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.
37. Details of the infrastructure facilities to be provided for the mine workers should be included in the EIA report.
38. Conceptual post mining land use and Reclamation and Rehabilitation of mined out area (with plans and with adequate number of sections) should be given in the EIA report.
39. Phase-wise plan of greenbelt development, plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.
40. Occupational health impact of project should be anticipated and preventive measures initiated. Details in this regard should be provided. Details of preplacement medical examination and periodical medical examination schedules should be incorporated in the EMP.



41. Public health implication of the project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocation.
42. Measures of socio economic significance and influence to the local community proposed to be provided by project proponent should be indicated. As far as possible, quantitative dimensions may be given with time frame for implementation.
43. Detailed environmental management plan to mitigate the environmental impacts which, should inter-alia also include the impact due to change of land use, due to loss of agricultural land and grazing land, if any, occupational health impacts besides other impacts of the projects.
44. Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
45. Details of litigation pending against the project, if any, with direction / order passed by any Court of Law against the project should be given.
46. The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.

Besides 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 mining projects as prescribed by the Ministry shall also be filled and submitted.
- f) Approved mine plan along with copy of the approval letter for the proposed capacity should also be submitted.
- 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.
- h) 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 MOEF 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 process again with the revised documentation.

The EIA report should also include



1. surface plan of the area indicating Contours of main topographic features, drainage and mining area,
2. geological maps and sections and
3. sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

The prescribed TORs would be valid for a period of two years for submission of the EIA / EMP reports, as per the O.M. No. J-11013/41/2006-IA.II(I) dated 22.3.2010.

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.

## **B. Projects for which SEAC has sought clarifications from PP.**

### **7. M/s. Chanduka Minerals Kumarda, Chheri – Pahari, Rajnagar District Saraikela – Kharsawan, Jharkhand Quartz / quartzite Mine (Area 10.117 Ha).**

This is an open cast Quartz / quartzite mine project having lease area of 10.117 ha. The Committee noted that this project falls under 'B1' Category. During the Meeting held on 17<sup>th</sup> & 18<sup>th</sup> June 2013 the PP was asked to comply with the following:

- i. Certificate from concerned Circle Officer that the distance of project site (Mine) is in excess of 10 km from inter-state boundary (Orissa)
- ii. Certificate from the DMO, regarding the non operation of mines after the sanction of lease.

During the meeting it was found that the PP has submitted the above clarifications. However, during examination of lease documents it was noticed that there is some discrepancy in mention of Plot Numbers. The PP was asked to get the same corrected from Sub – registrar / DMO and provide a letter from them.

**Once the PP provides the the above mentioned letter SEAC will, examine the same in its next meeting and recommend necessary action to SEIAA.**

### **8. Stone Quarry of M/s Suresh Kumar Jhanjhari at Gurha, Dist – Giridh Jharkhand (Area 2.65 acres i.e. 1.072 Ha).**

This is a Stone Mining Project having lease area of 1.072 ha. The Committee noted that this project falls under 'B2' Category. This is a case of transfer and renewal of lease. The original lease was in the name of Sain Minerals. The lease was signed on 15.01.2003 for a period of ten years. The State Government granted permission vide order dated 20<sup>th</sup> June 2009 and the lease was transferred on 4<sup>th</sup> July 2009 for the balance lease period .

The committee noted that the size of the mine, production rate and the mineral mined are such that the operation of the mine will have negligible impact on the surroundings. Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be

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prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

i. Proved Reserve	:	69,122 cu.m. (1,72,805 t)
ii. Probable Reserve	:	51,841 cu.m. (1,29,603 t)
iii. Possible Reserve	:	51,841 cu.m. (1,29,603 t)
iv. Total Reserve	:	1,72,800 cu.m. (4,32,000 t)

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	6460 cu.m. (16,150 t)
2 <sup>nd</sup> Year	:	4180 cu.m. (10,450 t)
3 <sup>rd</sup> Year	:	3800 cu.m. ( 9,500 t)
4 <sup>th</sup> Year	:	4256 cu.m. (10,640 t)
5 <sup>th</sup> Year	:	25498 cu.m. (63,745 t)

The PP in the previous meeting was asked to submit the various details as per Annexure I & Annexure II of SEIAA Guidelines. PP has submitted Certificate from Circle Officer. Certificate from DFO is awaited. The committee asked the PP to get the same and also submit Photographs and the following information:

- i. Compliance Report on conditions stipulated by DMO at the time of granting of lease.
- ii. Compliance Report on conditions stipulated by JSPCB at the time of granting of Consent to establish and Consent to Operate.
- iii. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past

PP has also to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

#### **9. Stone Mining Project of Smt Vidya Devi in respect of Dungra Stone Mines at Village Dungra, P S Khunti, Dist – Khunti, Jharkhand (Area 3.34 Ha).**

This is a Stone Mining Project having proposed renewal of earlier mining lease area of 3.34 Ha over plot Nos. 428, 440, 470, 471, 472, 473, 488, 490, 539 and 540 The Committee noted that this project falls under 'B2' Category. In the meeting held on 16<sup>th</sup>

to 18th July 2013 PP the proponent was asked to submit certain information mentioned as follows

- i. Compliance Report on conditions stipulated by DMO at the time of granting of lease.
- ii. Compliance Report on conditions stipulated by JSPCB at the time of granting of Consent to establish and Consent to Operate.
- iii. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past

PP has to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to be made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine.

The PP was renewed lease on 16<sup>th</sup> July 2003 for a period of 10 years over plot Nos. 428, 440, 470, 471, 472, 473, 488, 490, 539 and 540 (Area 3.34Ha) and the Proposal is for further renewal of lease. PP informed that the current production rate was 40 t / day and after renewal it would go up to 200 t / day. The details of mine capacity as provided in Mining Plan are

v. Mineable Proved Reserve	:	973053 t
vi. Mineable Probable Reserve	:	137147 t
vii. Total Mineable Reserve	:	1110200 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	57707 t
2 <sup>nd</sup> Year	:	59978 t
3 <sup>rd</sup> Year	:	59883 t
4 <sup>th</sup> Year	:	63113 t
5 <sup>th</sup> Year	:	55598 t

Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.

#### **10. Stone Mining Project of M / s Hiralal & Company in respect of Koenjari Stone Quarry at Village Koenjari, P S Khunti, Tehsil Namkum District Ranchi, Jharkhand (Area 2.18 Ha).**

This is a Stone Mining Project for transfer of mining lease area of 2.18 Ha over plot Nos. 586 (P). The Committee noted that this project falls under 'B2' Category. In the meeting held on 16<sup>th</sup> to 18th July 2013 PP the proponent was asked to submit certain information mentioned as follows

- i. Compliance Report on conditions stipulated by DMO at the time of granting of lease.

- II. Compliance Report on conditions stipulated by JSPCB at the time of granting of Consent to establish and Consent to Operate.
- III. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past

PP has to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to be made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine.

D C Ranchi transferred the lease in favour of M / s Hiralal & Company on 14.03.2012. DMO has asked M / s Hiralal & Company to obtain EC prior to carrying out further operation vide his letter no 533 / M dated 13.05.13. The Proposal is for grant of EC for carrying out mining in the balance period of lease. PP informed that they had an earlier approval for mining 1000t /day . At present they have proposed to produce stone @ 40 t / day . The details of mine capacity as provided in Mining Plan are

I.	Mineable Proved Reserve	:	708021 t
II.	Mineable Probable Reserve	:	4644 t
III.	Total Mineable Reserve	:	712665 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	150314 t
2 <sup>nd</sup> Year	:	140270 t
3 <sup>rd</sup> Year	:	139261 t
4 <sup>th</sup> Year	:	157510 t
5 <sup>th</sup> Year	:	121703 t

Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.

#### **11. Stone Mining Project of M / s Ranchi Stone Chips Industries in respect of Balsiring Stone Mines at Village Balsiring, P S Hatia, District Ranchi, Jharkhand (Area 4.45 Ha).**

This is a Stone Mining Project for renewal of mining lease area of 4.45 Ha over plot Nos. 858 (P). The Committee noted that this project falls under 'B2' Category. In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 PP the proponent was asked to submit certain information mentioned as follows

1. Compliance Report on conditions stipulated by DMO at the time of granting of lease.
2. Compliance Report on conditions stipulated by JSPCB at the time of granting of Consent to establish and Consent to Operate.

3. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past

PP has to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to be made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine.

The PP was renewed lease on 8<sup>th</sup> June 2003 for a period of 10 years over plot Nos.858 P (Area 4.45Ha) and the Proposal is for further renewal of lease. PP informed that the current production rate was 75 t / day and after renewal it would go up to 200 t / day. The details of mine capacity as provided in Mining Plan are

I.	Proved Reserve	:	1481615 t
II.	Mineable Probable Reserve	:	644705 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	61760 t
2 <sup>nd</sup> Year	:	61278 t
3 <sup>rd</sup> Year	:	63398 t
4 <sup>th</sup> Year	:	62685 t
5 <sup>th</sup> Year	:	68020 t

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**12. Stone Quarry of Shri Jagdip Agarwala at Village Baghmara, P S Baliapur, Dist – Dhanbad, Jharkhand (Area 0.81 Ha).**

The committee noted that as per Form I it is a proposal for a new Project. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

i.	Mineable Proved Reserve	:	1080000 t
ii.	Mineable Probable Reserve	:	1000000 t
iii.	Mineable Possible Reserve	:	9600000 t
iv.	Total Mineable Reserve	:	11680000 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	120000 t
3 <sup>rd</sup> Year	:	120000 t
4 <sup>th</sup> Year	:	120000 t
5 <sup>th</sup> Year	:	120000 t

During the discussions after the presentation PP informed that he has to obtain Certificate from Circle Officer for which he has submitted an application. Certificate from DFO is pending. PP was also asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to be made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest. Further he was advised to obtain a certificate from DMO that the proposed mine was not operative earlier.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**13. Bakhari Stone Mine of M /s Tiwary Minerals Company at Village Baralota, P.S. Sadar Medninagar, Dist – Palamu, Jharkhand (Area 0.93 Ha).**

The committee noted that as per Form I it is a proposal for a new Project. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

i. Mineable Proved Reserve	:	232750 t
ii. Mineable Probable Reserve	:	95000 t
iii. Mineable Possible Reserve	:	47500 t
iv. Total Mineable Reserve	:	375250 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	45,770 t
2 <sup>nd</sup> Year	:	45,030 t
3 <sup>rd</sup> Year	:	42,492 t
4 <sup>th</sup> Year	:	42,640 t
5 <sup>th</sup> Year	:	40,005 t

During the discussions after the presentation PP informed that he has to obtain Certificate from Circle Officer and DFO for which he has submitted an application. PP also was asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest. Further he was advised to obtain a certificate from DMO that the proposed mine was not operative earlier.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**14. Murumdag Stone Mine of Shri Munir Alam and Shri Ravindra Kumar Singh at Village Murumdag, Thana & Block Chhatarpur, Dist – Palamu, Jharkhand (Area 0.81 Ha).**

The committee noted that as per Form I it is a proposal for a new Project. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

i.	Mineable Proved Reserve	:	394000 t
ii.	Mineable Probable Reserve	:	95000 t
iii.	Mineable Possible Reserve	:	47500 t
iv.	Total Mineable Reserve	:	536500 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	72,500 t
2 <sup>nd</sup> Year	:	72,500 t
3 <sup>rd</sup> Year	:	72,500 t
4 <sup>th</sup> Year	:	72,500 t
5 <sup>th</sup> Year	:	72,500 t

During the discussions after the presentation PP informed that he has to obtain Certificate from Circle Officer and DFO for which he has submitted an application. PP also was asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to made as per relevant provision / criteria for an area more than 5 Ha.

PP has also to provide distance of nearest mine and forest. Further he was advised to obtain a certificate from DMO that the proposed mine was not operative earlier.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**15. Stone Quarry of Shri Golak Mondal at Village Dardaha, Thana Baliapur, Dist Dhanbad, Jharkhand (Area 0.64 Ha).**

The committee noted that as per Form I it is a proposal for a case of renewal. The earlier lease was signed on 17<sup>th</sup> January 2003. The mine is being operated by Sh Vivek Kumar Agrawal based on Power of Attorney given by Shri Golak Mondal. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

i.	Mineable Proved Reserve	:	3,10,000 t
ii.	Mineable Probable Reserve	:	2,80,000 t
iii.	Mineable Possible Reserve	:	2,50,000 t
iv.	Total Mineable Reserve	:	8,40,000 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	60,000 t
3 <sup>rd</sup> Year	:	60,000 t
4 <sup>th</sup> Year	:	60,000 t
5 <sup>th</sup> Year	:	60,000 t

During the discussions after the presentation PP informed that he has yet to obtain Certificate from Circle Officer. In view that the mine was operating earlier the PP was asked to submit certain information mentioned as follows

1. Compliance Report on conditions stipulated by DMO at the time of granting of lease.
2. Compliance Report on conditions stipulated by JSPCB at the time of granting of Consent to establish and Consent to Operate.
3. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past



4. A copy of Power of Attorney under which Sh Vivek Kumar Agrawal is carrying out mining.

PP also was asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to be made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**16. Stone Quarry of Md. Mojammil Ahmed at Village Jangalpur, Tehsil Govindpur, Dist Dhanbad, Jharkhand (Area 2.4281 Ha).**

The committee noted that this is a proposal for renewal of lease. The earlier lease was initiated on 30th July 2002. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EEMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

i.	Indicated Mineral Reserves	:	9,02,894 t
ii.	Feasible Mineral Reserves	:	3,88,743 t
iii.	Inferred Mineral Reserves	:	2,86,213 t
iv.	Total Mineral Resources	:	15,77,850 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	13,797 t
2 <sup>nd</sup> Year	:	21,330 t
3 <sup>rd</sup> Year	:	23,949 t
4 <sup>th</sup> Year	:	27,945 t
5 <sup>th</sup> Year	:	28,188 t

During the discussions after the presentation PP informed that he has yet to obtain Certificate from Circle Officer as per Annexure I and PP was asked to submit Annexure II also as per SEIAA Guidelines In view that the mine was operating earlier the PP was asked to submit certain information mentioned as follows:

1. Compliance Report on conditions stipulated by DMO at the time of granting of lease.

2. Compliance Report on conditions stipulated by JSPCB at the time of granting of Consent to establish and Consent to Operate.
3. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past
4. Confirm that RQP is registered by Mining Department of Government of Jharkhand.

PP also was asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to be made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**17. Stone Quarry of Md. Afjal Ansari at Village Jangalpur, Tehsil Govindpur, Dist Dhanbad, Jharkhand (Area 1.3031 Ha).**

The committee noted that this is a proposal for renewal of lease. The earlier lease was initiated on 30<sup>th</sup> July 2002. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

i.	Indicated Mineral Reserves	:	6,44,679 t
ii.	Feasible Mineral Reserves	:	6,54,961 t
iii.	Inferred Mineral Reserves	:	3,29,845 t
iv.	Total Mineral Resources	:	16,29,485 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	12,857 t
2 <sup>nd</sup> Year	:	15,525 t
3 <sup>rd</sup> Year	:	15,997 t
4 <sup>th</sup> Year	:	16,646 t
5 <sup>th</sup> Year	:	21,397 t

During the discussions after the presentation PP informed that he has yet to obtain Certificate from Circle Officer as per Annexure I and PP was asked to submit Annexure II

also as per SEIAA Guidelines In view that the mine was operating earlier the PP was asked to submit certain information mentioned as follows:

1. Compliance Report on conditions stipulated by DMO at the time of granting of lease.
2. Compliance Report on conditions stipulated by JSPCB at the time of granting of Consent to establish and Consent to Operate.
3. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past
4. Confirm that RQP is registered by Mining Department of Government of Jharkhand.

PP also was asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**18. Stone Quarry of Shri Ramesh Kumar Khandelwal at Village Mandardih, Block Bengabad, Dist Giridih, Jharkhand (Area 0.364 Ha).**

The committee noted that this is a proposal for renewal of lease. The earlier lease was initialed on 24<sup>th</sup> May 2003. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

i.	Indicated Mineral Reserves	:	43,497 t
ii.	Feasible Mineral Reserves	:	2,08,726 t
iii.	Inferred Mineral Reserves	:	86,816 t
iv.	Total Mineral Resources	:	3,39,039 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1<sup>st</sup> Year : 6278 t

2 <sup>nd</sup> Year	:	6413 t
3 <sup>rd</sup> Year	:	6480 t
4 <sup>th</sup> Year	:	4714 t
5 <sup>th</sup> Year	:	6750 t

During the discussions after the presentation PP informed that he has yet to obtain Certificate from Circle Officer and DFO as per Annexure I and was asked to also submit Annexure II as per SEIAA Guidelines. In view that the mine was operating earlier the PP was asked to submit certain information mentioned as follows:

1. Compliance Report on conditions stipulated by DMO at the time of granting of lease.
2. Compliance Report on conditions stipulated by JSPCB at the time of granting of Consent to establish and Consent to Operate.
3. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past
4. Confirm that RQP is registered by Mining Department of Government of Jharkhand.

PP also was asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**19. Utaki Stone Mine of Shri Sanjay Singh at Village Utaki, P.S. Patan, Dist – Palamu, Jharkhand (Area 1.2 Ha (3 Acres)).**

The committee noted that as per Form I it is a proposal for a new Project. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

I.	Mineable Proved Reserve	:	553000 t
II.	Mineable Probable Reserve	:	17000 t
III.	Mineable Possible Reserve	:	477000 t

IV. Total Mineable Reserve : 1,047000 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	30,000 t
2 <sup>nd</sup> Year	:	58,624 t
3 <sup>rd</sup> Year	:	58,624 t
4 <sup>th</sup> Year	:	58,624 t
5 <sup>th</sup> Year	:	58,624 t

During the discussions after the presentation PP informed that he has yet to obtain Certificate from Circle Officer and DFO as per Annexure I and was asked to also submit Annexure II as per SEIAA Guidelines. PP also was asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest. Further he was advised to obtain a certificate from DMO that the proposed mine was not operative earlier.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**20. Stone Quarry of M /s Somvanshy Construction at Village Kurkheta, P.S. Basishtpur (Jori), Dist – Chatra, Jharkhand (Area 1.79 Ha).**

The committee noted that as per Form I it is a proposal for a new Project. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EEMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

i. Proved Reserve	:	1600000 t
ii. Probable Reserve	:	1700000 t
iii. Possible Reserve	:	1800000 t
iv. Total Reserve	:	5100000 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	1,20,000 t
3 <sup>rd</sup> Year	:	1,20,000 t
4 <sup>th</sup> Year	:	1,20,000 t

5<sup>th</sup> Year : 1,20,000 t

During the discussions after the presentation PP informed that he has yet to obtain Certificate from Circle Officer and DFO as per Annexure I and was asked to submit the same as per SEIAA Guidelines. PP also was asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to be made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest. Further he was advised to obtain a certificate from DMO that the proposed mine was not operative earlier.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**21. Stone Quarry of M /s Somvanshy Construction at Village Kurkheta, P.S. Basishtpur (Jori), Dist – Chatra, Jharkhand (Area 1.58 Ha).**

The committee noted that as per Form I it is a proposal for a new Project. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

I.	Proved Reserve	:	1350000 t
II.	Probable Reserve	:	1480000 t
III.	Possible Reserve	:	1600000 t
IV.	Total Reserve	:	4430000 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	2,40,000 t
3 <sup>rd</sup> Year	:	2,40,000 t
4 <sup>th</sup> Year	:	2,40,000 t
5 <sup>th</sup> Year	:	2,40,000 t

During the discussions after the presentation PP informed that he has yet to obtain Certificate from Circle Officer and DFO as per Annexure I and was asked to submit the same as per SEIAA Guidelines. PP also was asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area

of these mining patches are to be considered as one mine and application is to be made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest. Further he was advised to obtain a certificate from DMO that the proposed mine was not operative earlier.

Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.

### **C. Projects not considered / recommended**

#### **22. Stone Mine and Crusher of M / s / Shri Pawan Taneja**

Since the project falls in Critically Polluted area the project was not taken up by the Committee. PP insisted that the Project does not fall in Critically Polluted area. PP was advised to come back with an authentic document in this regard. The case will be taken up in next meeting.

#### **23. Bandana Stone Works of M / s / Shri Rakesh Ranjan**

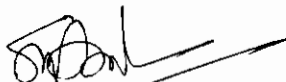
The PP requested for another date. Committee agreed to the request.

#### **24. Upcountry Cement Private Limited**

The PP requested for another date. Committee agreed to the request.

**It was decided that the next meeting of SEAC will be held on 12<sup>th</sup> August 2013 to 14<sup>th</sup> August 2013. The venue will be intimated later.**

**The meeting concluded with thanks to all the members.**

  
**Secretary**  
**SEAC**

  
**Chairman**  
**SEAC**