

**PART- A MINUTES OF THE 30<sup>th</sup> MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD FROM 20<sup>th</sup> to 23<sup>th</sup> July, 2015**

The 30<sup>th</sup> meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held from 20<sup>th</sup> to 23<sup>th</sup> July, 2015 under the Chairmanship of Sh. A.K. Saxena in the Conference Room at 170 C, Ashok Nagar, Ranchi. The following members were present:

1. Sh. A.K. Saxena - Chairman
2. Sh. S.B.S Chauhan - Member
3. Er. S.K. Singh - Member
4. Dr. R.P. Singh Sangu - Member
5. Prof. (Dr.) M.C. Mahata - Member
6. Prof (Dr) Shatrunjay Kumar Singh - Member
7. Shri S.K. Suman - Secretary

Various projects which were received by SEIAA after the previous SEAC meeting held from 29<sup>th</sup> to 30<sup>th</sup> June, 2015 and 01<sup>th</sup> to 02<sup>nd</sup> July, 2015 and forwarded to SEAC for their technical appraisal came up for discussions. Also those Projects which were appraised in SEAC's earlier meetings in which PP's were asked to provide additional informations / clarifications were also considered for examination / scrutiny where the Project proponents had submitted replies. Accordingly, the Project proponents were asked to make technical presentation for the appraisal of their project before the committee.

The following salient observations made during the Presentation (Project Wise) in brief deserve serious consideration.

**1. Mosabani Copper Concentrator Plant of M/S Hindustan Copper Limited at Village-Badia, Block- Mosabani, District- East Singhbhum, Jharkhand.**

In the respect Mosabani Copper Concentrator Plant expansion from 0.612 MTPA to 0.90 MTPA. ToR's were prescribed by SEIAA vide letter no.- 297, dated- 05.03.2014. In the ToR's issued point no.- 14 specifies "Land use plan of the project area should be provided. This should encompass pre-operational, operational and post operational phases. Present land use should be prepared based on satellite imagery. High-resolution satellite image data having 1 m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 km radius area from proposed site. The same should be used for land used/land-cover mapping of the area. "

HCL has requested to SEIAA to kindly permit them to use IRS LISS III data instead of the high resolution data as specified. They have also mentioned that even for category 'A' mining projects Ministry of Environmental and Forests permits use of LISS III satellite data.

SEIAA has forwarded the file to SEAC for examination on letter no.- 980, dated 18/05/15. SEAC went through the request and also visited the standard ToR's prescribed by MoEF&CC for Mineral Beneficiation Projects in which point 20 reads as follows.

***Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies human settlements and other ecological features should be indicated. Land plan of the lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, change of land fuse should be given.***



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SEAC deliberated on the matter and agreed to recommend to SEIAA to replace the point no.- 14 with the point no. 20 of standard ToR's prescribed by MoEF & CC. SEIAA may take further necessary action.

Copies of ToR's issued by SEIAA, Jharkhand and standard ToR's prescribed by MoEF are attached for perusal.

## 2. Matter related to Balu Ghat

The proposals related to Balughat are being forwarded to SEAC till last moment. Members are not receiving copies of proposal intime. Due to urgency of requirement of sand for infrastructure projects in the State and as per discussion held in the Chief Secretary on 26<sup>th</sup> June 2015 and letter from Director, Mines Memo- 1388/M, dated-07/07/15, the SEAC is making all efforts to expedite the EC process. On going through the various proposals related to Balu Ghat it has come to the notice of SEAC that the Balu Ghats have been allotted in proximity to Bridges. These cases are not being recommended. Members of SEAC felt that there is a need to look in to the guidelines issued by SEIAA in May 2013. The distance criteria specifically related to bridge and intake well may be re-examined. In this regard copy of letter written by Principal Secretary, Road Construction Department, Govt. of Jharkhand to Additional Chief Secretary, Department of Mines & Geology, Govt. of Jharkhand dated 17/01/12 is enclosed. Decision in this regard may be communicated to SEAC immediately so as to take a final view.

Further the committee felt that in several cases the information being provided by PP's / Consultant's/ RQP's in respect of replenishment is not adequate. In this regard it is being recommended that Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc and submit report to DMO, JSPCB and SEIAA after every monsoon that is by November of each year.

## 3. Matter related to Approved Mine Plan

SEAC had earlier recommended to SEIAA for issue of EC for projects in which Approved Mine Plans were not submitted. A condition was indicated in EC stating that approved mine plans were to be submitted in 3 months. Some PP's have submitted the approved mine plans to SEIAA. SEIAA has forwarded the same to SEAC. RQP's / PP's have submitted undertaking that earlier with Form-I and PFR is same as of content in the approved mining plan & Progressive Mine Closure plan. Figures related to mineable reserves and productions have been examined and are found to be in order. SEIAA may consider issuing of EC in such cases. Which are listed below.

- I. Purtidighiya Stone Mines of M/S Trustline Dealer Pvt Ltd at Mouza- Purtidighiya, P.S- Noamundi, District- West Singhbhum, Jharkhand (1.36 Ha)
- II. Patmahuliya Stone Mines of M/S Barin Kumar Manjhi at Mouza- Patmahuliya, P.S- Mahuliya, District- East Singhbhum, Jharkhand. (2.25 Ha).
- III. Stone Mine M/S Jai Maa Gauri Stone Works at Village- Lataki, Tehsil- Jamua, District- Giridih, Jharkhand (1.173 Ha).
- IV. Banspahar Stone Mine of M/S Bhai Bhai Stone Works at Village- Banspahar, P.S- Barhait, District- Sahebganj, Jharkhand (2.995 Ha).

X Dees

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End

[Signature]

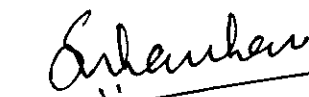
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- V. Gadhikala Stone Deposit of Shri Sudhir Prasad Singh & Shri Sambhu Singh at Village- Gadhikala, Thana- Dewari, District- Giridih, Jharkhand. (0.44 Ha)
- VI. Srirampur Stone Mine of M/S Otan Das & Co. at Village- Srirampur, Thana- Pakur, District- Pakur, Jharkhand (1.619 Ha)
- VII. Jonkmari Stone Mine of M/S CTS Industries Ltd at Village- Jonkmari, P.S- Borio, District- Sahebganj, Jharkhand (4.452 Ha)
- VIII. Birbir Stone & Morrum Mine of Sri Junaid Anwar at Village- Birbir, Thana- Balumath, District- Latehar, Jharkhand (0.75 Ha)
- IX. Paharpur Stone Mine of Sri Pankaj Kumar at Village- Paharpur, P.S- Sarath, District- Deoghar, Jharkhand (2.17 Ha)
- X. Roro Stone Mine of M/S Swastik Mineral Agency at Village- Roro, P.O & P.S- Taljhari, District- Sahibganj, Jharkhand (4.86 Ha).
- XI. Kanglatanr Stone Deposit of Sri Charu Chand Kisku at Village- Kanglatanr, P.S- Chandil, District- Saraikela Kharsawan, Jharkhand (2.42 Ha)
- XII. Chacharya Stone & Morrum Deposit of M/S Maa Mundeshwari Enterprises at Village- Chacharya, P.S- Ketar, District- Garhawa, Jharkhand (0.91 Ha)
- XIII. Kashila Stone Mine of M/S Ishaque Sheikh at Village- Kashila, P.S & District- Pakur, Jharkhand (2.02 Ha)
- XIV. Pahardih Stone Mine of Sri Dilip Kumar Thakur at Village- Pahardih, P.S- Sarwan, Dist.- Giridih, Jharkhand (2.02 Ha)
- XV. Kharkhar Stone Mine of M/S Amitabh Kumar at Village- Kharkhar, P.S- Markacho, Dist.- Koderma, Jharkhand (2.56 Ha)

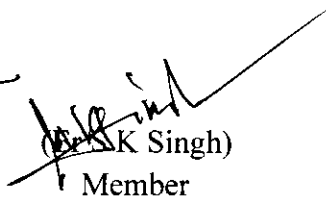
4. In view of urgency of examining and recommending EC's it is essential that manpower associated with SEAC be enhanced and at least 2 more (One technical and One Computer Operator) be provided.

5. It was decided that the next meeting of SEAC will be held from 3<sup>rd</sup> to 6<sup>th</sup> August, 2015.

The meeting concluded with thanks to all present.



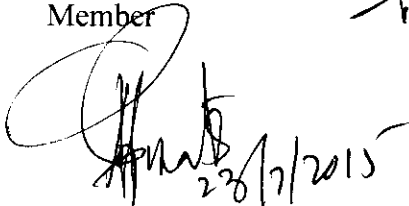
(S.B.S Chauhan)  
Member



(B.S.K Singh)  
Member



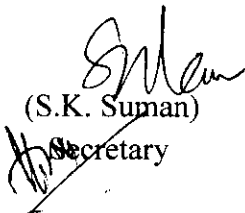
(Dr. R.P. Singh Sangu)  
Member



(Prof. (Dr.) M.C. Mahata)  
Member



( Prof (Dr) Shatrunjay Singh)  
Member



(S.K. Suman)  
Secretary



(A K Saxena)  
Chairman

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.

### **Standard Terms of Reference for Mineral Beneficiation Projects**

- 1) The alternate sites considered, the relative merits and demerits and the reasons for selecting the proposed site for the Beneficiation Plant should be indicated.
- 2) Details of the technology and process involved for beneficiation should be given. .
- 3) Location of the proposed Plant w.r.t. the source of raw material and mode of transportations of the ore from mines to the beneficiation plant should be justified.
- 4) Treatment of run of mine (ROM) and or of the fines/waste dump should be spelt out.
- 5) Estimation of the fines going into the washings should be made and its management described.
- 6) Details of the equipment, settling pond etc. should be furnished.
- 7) Detailed material balance should be provided.
- 8) Sources of raw material and its transportation should be indicated. Steps proposed to be taken to protect the ore from getting air borne should be brought out.
- 9) Management and disposal of tailings and closure plan of the tailing pond, if any after the project is over, should be detailed in a quantified manner.
- 10) The water requirement for the project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should also be indicated.
- 11) A copy of the document in support of the fact that the Proponent is the rightful lessee of the unit should be given.
- 12) All documents including EIA and public hearing should be compatible with one another in terms of the production levels, waste generation and its management and technology and should be in the name of the lessee.
- 13) All corner coordinates of the Unit, superimposed on a High Resolution Imagery/Toposheet should be provided. Such an Imagery of the proposed Unit should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 14) It should be clearly indicated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the

Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.

- 15) Issues relating to Safety should be detailed. The proposed safeguard measures in each case should also be provided. Disaster management plan shall be prepared and included in the EIA/EMP Report.
- 16) The study area will comprise of 10 km zone around the Plant.
- 17) Cumulative impact study of both Beneficiation Plant with suggested mitigation measures as per the study should be described.
- 18) Location of Railway siding with its handling capacity and safety measures should be indicated.
- 19) Option to provide only silo for storage of minerals instead of open stacking to avoid fugitive dust should be explored and arrangements finalized justified.
- 20) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 21) Details of the land for any Over Burden Dumps outside the lease, such as extent of land area, distance from lease, its land use, R&R issues, if any, should be given.
- 22) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the Project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 23) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 24) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 25) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 26) A study shall be got done to ascertain the impact of the Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required, should be worked out with cost implications and submitted.
- 27) 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, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.

- 28) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 29) Proximity to Areas declared as 'Critically Polluted' shall also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB/CPCB shall be secured and furnished to the effect that the proposed activities could be considered.
- 30) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the unit w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 31) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects, should be discussed in the report.
- 32) One season (non-monsoon) [i.e. March - May (Summer Season); October - December (post monsoon season) ; December - February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the unit in the pre-dominant downwind direction. The mineralogical composition of PM<sub>10</sub>, particularly for free silica, should be given.

- 33) 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.
- 34) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 35) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be secured and copy furnished. .
- 36) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- 37) 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.
- 38) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- 39) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the project. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to the pollution.
- 40) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.
- 41) Details of the onsite shelter and facilities to be provided to the workers should be included in the EIA report.
- 42) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area should be be detailed.
- 43) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.



- 44) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 45) 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.
- 46) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.
- 47) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 48) A brief background of the Project, its financial position, Group Companies and legal issues etc should be provided with past and current important litigations if any.
- 49) Benefits of the Project, if the project is implemented should be outlined. The benefits of the projects shall clearly indicate environmental, social, economic, employment potential, etc.
- 50) Besides the above, the below mentioned general points are also to be followed:-
  - a) All documents to be properly referenced with index 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) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the project.
  - 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 project as devised earlier by the Ministry shall also be filled and 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 4<sup>th</sup> August, 2009, which are available on the website of this Ministry, should also be followed.
  - g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
  - h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified Report of the status of compliance of the conditions stipulated in

the environment clearance for the existing operations of the project by the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.

The meeting ended with a vote of thanks to the Chair.

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**State Level Environment Impact Assessment Authority,  
Jharkhand.**

C - 170, Road No. 4, Ashok Nagar, Ranchi, Jharkhand, 834 002.

Tel #: 0651-2243488; Fax #: 0651-2243487.

E-mail: [info@jseiaa.com](mailto:info@jseiaa.com); website: [www.jseiaa.org](http://www.jseiaa.org)

Letter No. 297

Ranchi, Date: 5/3/2014

To: Mr. Avijit Ghosh,  
Director (Mining),  
M/s Hindustan Copper Ltd.  
Tamara Bhavan, 1, Ashutosh Choudhury Avenue,  
Kolkata, West Bengal, Pin -700019.

Sub.: Proposed Expansion of Mosabani Copper Ore Concentration Plant from 0.612 MTPA to 0.9 MTPA of M/s Hindustan Copper Limited at Village - Badia, Block - Mosabani District, East Singhbhum, Jharkhand. - Prescribing of TOR- Regarding. (File No.EC/SEIAA / 2013-14/25/2013)

Ref: Your application & Letter dated: 01-10-2013.

Sir,

Reference is invited to your letter along with the application in the prescribed format (Form-I) and a copy of the pre-feasibility report to prescribe the TORs for undertaking detailed EIA study for the purpose of obtaining environmental clearance under the provisions of the EIA Notification, 2006 in respect of the above mentioned project.

The Project is for expansion of Mosabani Copper Ore Concentration Plant from 0.612 MTPA to 0.9 MTPA which is spread over an area of 38.45 Ha. The original application was submitted to EAC of Mining Projects vide letter no HCL/HO/EIA/EMP/MSB CONC/ MoEF/2012 dated 3rd October 2012 which has been forwarded to SEIAA for consideration at State Level. The salient details of the Project are as follows:

1. Plant started operations in 1978
2. Plant Processing Capacity of Copper Ore

Prior to 1994 (Maximum)	8.88,255 TPA (1988 - 89)
After 1994 (Maximum)	7.78,306 TPA (1996 - 97)
Present (Existing)	6.12,000 TPA
Proposed	9.00,000 TPA
3. Production of Concentrate

Existing	23,000 TPA
Proposed	33,800 TPA
4. Method of work / process Crushing, Grinding followed by Froth Floatation
5. Waste Generation (Tailings) 8.66,200 TPA

SEIAA, Jharkhand has approved the TORs suggested by SEAC in its meeting held on 22.02.2013.

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

1. Executive summary of the project.
2. Photographs of the proposed plant area.
3. A line diagram/flow sheet for the process and EMP

4. Outcome of Environmental Audit and the suggested remedial measures are to be included in the Report.
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. All corner coordinates of the project area superimposed on toposheet should be provided.
10. Details of the technology and process involved in the project may be furnished.
11. The study area will comprise of 10 km zone around the project area and the data contained in the EIA such as waste generation etc. should be for the life of the project.
12. Land use of the study area delineating forest area, agricultural land, grazing land, waste land, built up area should be provided.
13. The land requirement should be optimized and furnished.
- 14. Land use plan of the project area should be provided. This should encompass pre-operational, operational and post operational phases. 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 etc. for the 10Km radius area from proposed site. The same should be used for land use/land-cover mapping of the area.
15. Detailed material balance to be provided
16. Location of the proposed plant w.r.t. the source of raw material and mode of transportations of the ore from mines to the beneficiation plant, and outbound movement of the products should be provided. Steps proposed to be taken to protect the ore from getting air borne to be given.
17. A list of industries within 10 km radius of the plant area should be included in the EIA / EMP Report.
18. Action plan for solid / hazardous waste generation, storage, utilization and disposal from all the sources should also be included.
19. Details of the solid waste to be generated and its management. Adequacy of the tailing pond for the life of the beneficiation plant should be provided with supporting data and documentation. Design and capacity of tailing pond should be such as to guard against overflow from the tailing pond during heavy rainfall. Estimation of the tailings and Management and disposal of tailings and closure plan of the tailing pond after the project is over, should be provided.
20. Proposed treatment of runoff from the tailings pond should be provided. The pit where water is collected has to be made pucca. The water collected has to be analysed and reused in the plant.
21. Scheme for lining of existing tailings pond (4 in number) should be included in the Report.

22. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant reserves (existing as well as proposed), if any, within 10 km of the project should be clearly indicated. 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.
23. A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the project) 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.
24. Collection of one season (non-monsoon) primary baseline data on ambient air quality (PM 2.5 & PM 10, 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. There should be at least one monitoring station within 500 m of the plant in the pre-dominant downwind direction.
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. Biological as well as health impact of fines and other dust generated in the plant should be studied. The proposed mitigation measures with EMP should also be provided.
27. 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.
28. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
29. Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand / Central Ground water Board.
30. Pretreatment of raw water, treatment plant for waste water should be described in detail.
31. Details of water conservation measures proposed to be adopted in the project should be furnished. Details of water management including diversion ditches, settling pond etc. should be provided.
32. Ground water monitoring minimum at 8 locations and near solid waste dump / tailings pond, Geological features and Geo-hydrological status of the study area are essential as also.
33. 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.
34. Impact on local transport infrastructure due to the project should be evaluated. 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 should be

estimated. Arrangement for improving the infrastructure, if contemplated including action to be taken by other agencies such as State Government, if any, should be covered.

35. 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.
36. Details of the infrastructure facilities to be provided for the workers may be indicated.
37. Details regarding expected Occupational & Safety Hazards. Protective measures for Occupational Safety & Health hazards so that such exposure can be kept within permissible exposure level so as to protect health of workers. Health of the workers with special reference to Occupational Health. Plan of exposure specific health status evaluation of workers; pre placement and periodical health status of workers; plan of evaluation of health of workers by pre designed format, chest x ray, Audiometry, Spirometry Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations and plan of monthly and yearly report of the health status of workers with special reference to Occupational Health and Safety.
38. Action plan for the green belt development plan in 33 % area should be included. The species selected should be able to thrive on low nutrient soil. They should be able to adapt to local conditions and should be resistant to drought and extreme temperatures. PP should take up this activity immediately (since land has already been procured) and the details of plantation done should be given in EIA Report. The details of plantation already done should be given.
39. 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.
40. Measures of socio economic influence to the local community proposed to be provided by project proponent. As far as possible, quantitative dimension should be given.
41. R&R plan / compensation details for the project affected people, if any, be provided.
42. Detailed environmental management plan to mitigate the environmental impacts due to the project should be prepared and furnished.
43. Risk assessment and disaster management plan should inter-alia include breach of tailing pond, if any, pipeline failure and over flow from the tailing pond etc., if any, proposed in the project.
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. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage clearly showing the land features of the adjoining area.
46. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be included. Socio-economic development activities need to be elaborated upon.
47. Total capital cost and recurring cost/annum for environmental pollution control measures should also be included.
48. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.


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 public hearing will be conducted

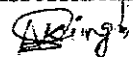
and necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006 will be taken.

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) All statutory clearances / approvals / NOC shall be obtained for the project and included in the EIA Report.
- 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 the Ministry should also be followed.
- g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.

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.

  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.



झारखंड सरकार  
पथ निर्माण विभाग, राँची

पत्रांक :- 5/विद्य-05-19/2011 पथ 362(S)

राँची, दिनांक :- 17-01-12

प्रेषक,

एन0 एन0 सिन्हा,  
सरकार के प्रधान सचिव,  
पथ निर्माण विभाग, झारखंड, राँची।

सेवा में,

अपर मुख्य सचिव,  
खान एवं भूतत्व विभाग,  
झारखण्ड, राँची।

विषय:- नदी/जलधारा पर विद्यमान संरचना (जन कार्य) से बालू उत्खनन (River bed mining) की न्यूनतम दूरी निर्धारित करने के संबंध में।

प्रसंग :- विभागीय पत्रांक-388/स0को0, दिनांक: 24.11.11

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के क्रम में कहना है कि झारखण्ड लघु खनिज समनुदान नियमावली-2004 में प्रावधानित है कि जन कार्य के 50 मीटर के अन्दर कोई खनन कार्य नहीं किया जायगा अर्थात् Public works जैसे कि पुल-पुलिया इत्यादि के upstream एवं downstream में 50 मीटर के अन्दर उत्खनन प्रतिबंधित है। राज्य में बनी ऐसी संरचनाएँ निकट से बालू उत्खनन के कारण प्रभावित हुए हैं अथवा हो रहे हैं। राष्ट्रीय उच्च पथ-33 के कि0मी0-172 पर कांची नदी पर अवस्थित पुल के काफी निकट बालू उत्खनन से पुल के अव्ययों तथा फलस्वरूप पुल के अस्तित्व पर खतरा उत्पन्न होने के संबंध में प्रासंगिक पत्र द्वारा सूचना दी गई। देवघर-जसीडीह पथ पर उड़वा नदी पर बने पुल के क्षतिग्रस्त होने का एक मुख्य कारण संरचना के काफी निकट उत्खनन का होना था।

वर्तमान में जो प्रावधान किए गए हैं वह यथेष्ट नहीं पाए जा रहे हैं। आवश्यक है कि नदी/जलधारा पर विद्यमान सभी जन कार्य से बालू उत्खनन (river bed mining) की न्यूनतम दूरी इतनी हो कि बालू उत्खनन से संरचना प्रभावित न हो तथा साथ ही साथ उत्खनन योग्य क्षेत्र का अभाव भी नहीं हो। पूरे राज्य में एकरूप व्यवस्था लागू किया जाना आवश्यक है ताकि आम जनों द्वारा इसके उल्लंघन किए जाने पर इसे सहजतापूर्वक विहित किया जा सके।

उपर्युक्त संदर्भ में कतिपय राज्यों द्वारा अपनाए गए प्रावधानों के विश्लेषण एवं समीक्षा के उपरान्त खान एवं भूतत्व विभाग को झारखण्ड लघु खनिज समनुदान नियमावली 2004 में उपर्युक्त विषयक निम्न प्रावधान द्वारा करने निमित्त परामर्श देने का निदेश माननीय मुख्यमंत्री द्वारा दिया गया है:-



"राष्ट्रीय उच्च पथ, राजकीय उच्च पथ, मेजर-डिस्ट्रिक्ट पथ पर सभी संरचनाएँ एवं अन्य पथों पर बने major तथा minor संरचनाओं के upstream एवं downstream छोरों से क्रमशः 250 मी० एवं 500 मी० तक उत्खनन प्रतिबंधित की जाए"

तदनुसूचक झारखण्ड लघु खनिज समनुदान नियमावली में आवश्यक संशोधन तथा बालू उत्खनन क्षेत्र चिह्नित करने का अनुरोध है।

विश्वासभाजन,

Neha  
12/1/2012

(एन० एन० सिन्हा)

सरकार के प्रधान सचिव,

पथ निर्माण विभाग,

झारखण्ड, राँची।  
०८

ज्ञापांक:- 360(S)

दिनांक:- 17.01.12

प्रतिलिपि: अध्यक्ष, झारखण्ड राज्य प्रदूषण पर्वद को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

Neha  
12/1/2012

सरकार के प्रधान सचिव,

पथ निर्माण विभाग,

झारखण्ड, राँची।  
०८

ज्ञापांक:- 362(S)

दिनांक:- 17.01.12

प्रतिलिपि: मुख्य अभियंता, रा०उ०पथ, उपभाग झारखण्ड, राँची/मुख्य अभियंता (या०), पथ निर्माण विभाग, झारखण्ड, राँची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

Neha  
12/1/2012

सरकार के प्रधान सचिव,

पथ निर्माण विभाग,

झारखण्ड, राँची।  
०८