State Level Environment Impact Assessment Authority,Jharkhand.

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Letter No.- EC/ SEIAA / 2014-15 / 650 / 2015/ 865 Ranchi, Date: 01/05/15

To: **Shri Dipankar Panda,**
Ranchi Industrial Area Developement Authority,
Fifth Floor, Riada Bhawan, Namkoom,
Ranchi,Jharkhand-824010

Sub.: Prescribing of ToR to Common Effluent Treatment Plant of M/S Ranchi Industrial Area Development Authority at Ranchi Municipal Corporation, District- Ranchi, Jharkhand - Regarding.

Ref: Your application & Letter dated:-16-02-2015.

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 proposed CETP has been planned to treat 2.5 MLD of industrial effluent and 1.00 MLD of Sewage. Proposed CETP envisages treatment of effluent in three stages including primary treatment, secondary treatment & tertiary treatment. The primary treatment would facilitate in treating the composite effluent to conform to standards prescribed by MoEF for input to CETP. The secondary treatment will facilitate in achieving the quality of treated effluent conforming to MoEF standard for discharge from CETP. Tertiary treatment will render the treated water suitable for reuse in Industrial Area.

The CETP has been designed on zero liquid discharge principle and will reduce the fresh water demand for the industrial area & also prevent pollution of surface water and ground water.
The estimated cost of project is Rs. 17.03 crores.

SEIAA, Jharkhand has approved the ToRs suggested by SEAC in its meeting held on 02.04.2015.

After detailed deliberations, the SEAC prescribed 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. 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.
5. 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.

6. 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.

7. 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.

8. All corner coordinates of the project area superimposed on toposheet should be provided.

9. All statutory clearances required are to be addressed in the Report.

10. Alternative sites are to be studied and justification for the selected site be provided.

11. Details of the technology and process involved in the project may be furnished.

12. The study area will comprise of 05 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.

13. Land-use based on satellite imagery including location specific sensitivities such as national parks /wildlife sanctuary, Biosphere Reserves, Wildlife corridors, Tiger/Elephant reserves (existing as well as proposed) if any, villages, industries, etc. for the study area within 10 km of the Food Park 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.

14. A detailed biological study for the study area 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.

15. Collection of one season (non-monsoon) primary baseline data on ambient air quality (PM 2.5 & PM 10, SO2 and NOx), 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.

16. 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.

17. Biological as well as health impact of wastes and dust generated due to the project should be studied. The proposed mitigation measures with EMP should also be provided. An action plan to control and monitor secondary fugitive emissions from all the sources is to be included.

18. 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 surface water monitoring shall be carried out on upstream and downstream on River Subarnrekha of the project site.

19. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.

20. Details of rainwater harvesting in the project should be provided.

21. 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. Approach for minimum/zero discharge should be adopted.

22. Ground water monitoring minimum at 4 locations and near the Food Park, Geological features and Geo-hydrological status of the study area are essential as also.

23. Details of the infrastructure facilities to be provided for the workers may be indicated.

24. 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.

25. 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. 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.

26. 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.

27. 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.

28. Location of the project site and nearest habitats with distances from the project site to be demarcated on a toposheet (1: 50000 scale).

29. Justification for selecting the proposed treatment scheme and unit size.

30. Complete process flow diagram describing each stage of treatment, its processes and operations, along with material and energy inputs and outputs (material and energy balance).

31. Details of the industries for which CETP facility is proposed including raw materials used and products manufactured.

32. Expected quantity of wastewater from each industry and justification for selecting the proposed capacity of the treatment plant / modules. Characteristics of effluent and proposed segregation of streams, if any, from individual member industries.

33. Details of mode of effluent collection system either by tankers and/or pipeline, etc., or proposed trouble-shooting mechanism. Monitoring protocol in case of collection of effluent through pipeline and/or tankers should be included.

34. Details on physical, chemical and biological characteristics of the combined effluent and its concentrations and the basis for the same.

35. Details of equalization tank at least for 24 hrs; and guard ponds for holding treated wastewater or continuous monitoring facilities, if any. Details of the proposed treatment schemes supported by the treatability studies including source separation of streams for specific mode of collection and treatment either at individual industry or at CETP (based on economic and operational case considerations).

36. Built-in flexibility provisions to deal with quantitative and qualitative fluctuations.

37. Organizational setup for collection of pretreated effluents, treatment and disposal of the treated effluents, etc. and deployment of qualified/skilled man power.

38. Details of O&M for maximum utilization of the designed capacity of the plant.

39. For any sensitive environmental parameters such as heavy metals, fluorides, etc., details on improved material of construction of tanks and other equipments such as corrosion resistance, allowance, etc.

40. Details of power consumption and stand-by arrangements like the diesel generator (DG) sets, dual fuel (gas and oil) for uninterrupted operation of treatment plant.

41. Details of laboratory, workshop, database, library, waste exchange centers, etc. in CETP.

42. Management plan for solid / hazardous waste generation, storage, utilization and disposal.

43. While identifying the likely impacts, also include the following for analysis of significance and required mitigation measures:

    a. Impacts due to transportation of raw materials and end products on the surrounding environment.
    b. Impacts on surface water, soil and groundwater.
    c. Impacts due to air pollution.
    d. Impacts due to odour pollution.
    e. Impacts due to noise.
    f. Impacts due to fugitive emissions.
    g. Impact on health of workers due to proposed project activities.
    h. Impact on the disposal mode-specific receiving environment.
    i. Proposed odour control measures

44. Details regarding soil and groundwater impacts and regular monitoring protocols suggested for ensuring no significant impacts, besides preventive measures.

45. Details on improved technologies. Monitoring programme for pollution control at source. Monitoring pollutants at receiving environment for the appropriate notified parameters – air quality, groundwater, surface water, gas quality, etc. during operational phase of the project.

46. Specific programme to monitor safety and health protection of workers

47. Details of in-house monitoring capabilities and the recognized agencies if proposed for conducting monitoring.

48. Details on risk assessment and damage control during different phases of the project and proposed safeguard measures.

49. Details on socio-economic development (CSR) activities such as commercial property values, generation of jobs, education, social conflicts, cultural status, accidents, etc. Proposed plan to handle the socio-economic influence on the local community. The plan should include quantitative dimension as far as possible.

50. Public hearing is to be conducted and

51. Public hearing.

The following general points should be noted:

i. Properly indexed, page numbered.

ii. Period/date of data collection should be clearly indicated. (non-monsoon)

iii. Authenticated English translation of all material in Regional languages should be provided.

iv. The letter/application for environmental clearance should quote the SEIAA. Jharkhand file No. and also attach a copy of the letter.

v. Site related monitoring shall be carried out for 3 months in one season (non monsoon).

vi. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report

vii. 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.

viii. The consultants involved in the preparation of EIA / EMP report after accreditation with Quality Council of India (QCI) / National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA /EMP reports prepared by them and data provided by other organization/ Laboratories including their status of approvals etc.

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 SEIAA, Jharkhand 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) part dated 22.08.2014.

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.

Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No. **EC/ SEIAA / 2014-15 / 650 / 2015/** 865 Dated: 01.05.15

Copy to:

1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
2. Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.