

**Government of Manipur  
Directorate of Environment & Climate Change  
Porompat, Imphal – 05**

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**No. 1/82/2020(EIA)/DoE&CC**

**Imphal, the 4<sup>th</sup> November, 2020**

To,

**The Director,  
Rourkela Minerals Company Private Limited (ROMCO)  
Odisha.**

**Sub. : Application seeking approval of suggested 'Terms of Reference' (ToR) for EIA Studies for Shingcha-Gamnom Chromite Deposit of M/s Rourkela Minerals Co. Pvt. Ltd., village Shingcha-Gamnom, District Ukhrul, Manipur.**

Sir,

I have the honour to refer your online application proposal bearing No. ROMCO/SEIAA/19-20/, dated 15<sup>th</sup> January 2020, regarding draft ToR for Chromite mining project having an area of about 85.0 Ha. located at Shingcha-Gamnom village in Ukhrul district of Manipur and to state that the project falls under Schedule 1(a) and in project category B1 as per EIA Notification S.O. (1533) dated 14<sup>th</sup> September 2006.

The State Level Expert Appraisal Committee (SEAC), Manipur in its online meeting held on 10<sup>th</sup> July, 2020, appraised all the documents submitted by the project proponent and endorsed for recommendation to the State Level Environment Impact Assessment Authority (SEIAA), Manipur for its approval. Accordingly, the SEIAA, Manipur in its online meeting held on 14<sup>th</sup> September, 2020, has examined the under mentioned observations and resolved to issue ToR with the stipulated **Terms and Conditions** as specified herewith.

**Observations**

Sl. No.	Particulars	Remark
1.	Project Proponent	Rourkela Minerals Company Private Limited
2.	Location with GPS	Shingcha-Gamnom village, Kamjong-Chassad Tehsil, Ukhrul District, Manipur Latitude 25°01' 0.49" - 25°00'51.75" N Longitude 94°26'28.97" - 94°27'20.09" E
3.	Production Capacity	9100 Metric Tones Per Annum.
4.	Mining Lease Area	85 ha.
5.	Category of the Project	B1
6.	Project Sector	Non-Coal Mining
7.	Duration of the Project	9 Years (5 years planning Period and another 4 years as conceptual period)

8.	Project Cost	Rs. 20.00 Crore.
9.	Central Govt. Approval (Ministry of Environment, Forest and Climate Change)	Letter No. 5/28/2006-MIV, dated 5 <sup>th</sup> September 2007
10.	Manipur State Govt. Approval	Letter No. 43/16/2005-Com.&Ind. Dated 1 <sup>st</sup> October 2007
11.	Mining Lease issued by Trade, Commerce & Industries Govt. of Manipur	Letter No. 60/IND/2005(pt) dated 2 <sup>nd</sup> August 2018
12.	Date of signing the deed for mining lease with Director of Trade, Comm. & Ind., Govt. of Manipur	23 <sup>th</sup> February 2019.

**Terms and Conditions:**

1. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
2. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and also should be in the name of the lessee.
3. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
4. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
5. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
6. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the proposed safeguard measures in each case should also be provided.

7. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
8. 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.
9. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
10. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, Rehabilitation and Resettlement (R&R) issues, if any, should be given.
11. 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 of Environment, Forest & Climate Change, Government of India 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.
12. Status of forest 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 forest clearance should also be furnished.
13. 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.
14. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
15. A study shall be done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and the same is to be submitted.
16. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the

ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy be furnished.

17. A detail 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 Rare Endangered and Threatened (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 along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details to be furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
18. Rehabilitation and Resettlement (R&R) Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
19. Season wise (non-monsoon / Summer Season /post monsoon season / 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 Ambient Air Quality (AAQ) and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
20. 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 modelling 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.
21. 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.


22. Necessary clearance from the Competent Authority for drawal of requisite quantity of water for the Project should be provided.
23. 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.
24. 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.
25. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy be furnished.
26. 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 provided.
27. 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.
28. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
29. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
30. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
31. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.

32. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
33. 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.
34. 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.
35. Detail environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project should be provided.
36. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
37. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
38. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
39. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report.
40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
41. The activities and budget earmarked for Corporate Environmental Responsibility (CER) shall be as per EIA Notification of Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India's O.M No 22-65/2017-IA. III, dated 01.05.2018 and the action plan on the activities proposed under CER shall be submitted at the time of appraisal of the project included in the EIA/EMP Report.
42. The Action Plan on the compliance of the recommendations of the CAG as per EIA Notification of MoEF&CC, Government of India's Circular No. J-11013/71/2016-IA.I (M), dated 25.10.2017 needs to be submitted at the time of appraisal of the project and included in the EIA/EMP Report.

43. Compliance of the EIA Notification of MoEF&CC, Government of India's Office Memorandum No. F: 3-50/2017-IA.III (Pt.), dated 30.05.2018 on the judgment of Hon'ble Supreme Court, dated the 2<sup>nd</sup> August, 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India needs to be submitted and included in the EIA/EMP Report.

The prescribed ToR shall be valid for a period of 4(four) years from the date of issue for submission of the Environment Impact Assessment (EIA)/ Environment Management Plan (EMP) reports, as per EIA Notification of MoEF&CC vide S.O. 751(E), dated 17.02.2020.

Yours faithfully,



**(Dr. Y. Nabachandra Singh)**

Director

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Member Secretary, SEIAA, Manipur

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Copy to:

1. The Additional Chief Secretary, (Forest & Environment) Govt. of Manipur
2. The Chairman, SEIAA Manipur.
3. The Chairman, SEAC, Manipur.
4. Members, SEIAA and SEAC, Manipur.
5. The Director (Trade, Commerce & Industries), Government of Manipur.