



सत्यमेव जयते

File No: IA-J-11015/35/2023-IA-II(NCM)  
Government of India  
Ministry of Environment, Forest and Climate Change  
IA Division  
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Dated 11/12/2023



To,

M/s  
Mangalam Cement Ltd  
Plot no.12, Whisper Valley, Behind HS Darga. Serilingampalli, Alizpur, Dargah hussain Shahwali,  
Rangareddi, Hyderabad-500104, HYDERABAD, TELANGANA, 500104  
mangalam2023321@outlook.com

**Subject:** GLimestone mining project of M/s Mangalam Cement Ltd for proposed production capacity of 32,08,690.3 TPA (ROM) Saleable Limestone: 29,69,287.5 TPA, Top Soil: 2,39,402.8 TPA in the mine lease area of 323.332 ha, located near Village- Kathiya - Pachri, Tehsil- Tilda, District- Raipur, Chhattisgarh – Terms of Reference (ToR) -regarding.

Sir/Madam,

This is in reference to your application for Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding in respect of project M/s Mangalam Cement Limited, Limestone Mine Project (Lease Code - PB20), Village - Kathiya - Pachri, Tehsil- Tilda, District- Raipur, State- Chhattisgarh. submitted to Ministry vide proposal number IA/CG/MIN/444676/2023 dated 04/12/2023.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO23A0000CG5851758N
(ii) File No.	IA-J-11015/35/2023-IA-II(NCM)
(iii) Clearance Type	TOR
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vi) Sector	Non-Coal Mining M/s Mangalam Cement Limited, Limestone Mine Project (Lease Code - PB20), Village - Kathiya - Pachri, Tehsil- Tilda, District- Raipur, State- Chhattisgarh.
(vii) Name of Project	MANGALAM CEMENT LIMITED
(viii) Name of Company/Organization	RAIPUR, CHHATTISGARH
(ix) Location of Project (District, State)	MoEF&CC
(x) Issuing Authority	no
(xii) Applicability of General Conditions	

1. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the Ministry for an appraisal by the Expert Appraisal Committee (EAC) in the Ministry under the provision of EIA notification 2006 and its subsequent amendments.
2. The above-mentioned proposal has been considered by Expert Appraisal Committee of EAC in the meeting held on 14/11/2023. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.
3. The brief about configuration of plant/equipment, products and byproducts and salient features of the project along with environment settings, as submitted by the Project proponent in Form-1 (Part A, B and C)/EIA & EMP Reports/presented during EAC are annexed.
4. The EAC, in its meeting held on 14/11/2023, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Terms of Reference under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions as detailed in Annexure (1).
5. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee hereby decided to grant Terms of Reference for instant proposal in favor of of **M/s Mangalam Cement Ltd** under the provisions of EIA Notification, 2006 and as amended thereof.
6. The Ministry reserves the right to stipulate additional conditions, if found necessary.
7. The Terms of Reference to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
8. The details of the project is at Annexure (2).
9. This issues with the approval of the Competent Authority.

**Copy To**

1. **The Secretary**, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi-110 001.
2. **The Secretary**, Department of Environment, Government of Chhattisgarh.
3. **The Secretary**, Department of Mines and Geology, Government of Chhattisgarh, Chhattisgarh.
4. **The Chairman**, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil Lines, Raipur, Chhattisgarh.
5. **The Inspector General of Forests**, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19, Naya Raipur, Atal Nagar, Chhattisgarh - 492002.
6. **The Controller General**, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440 001.
7. **Regional Officer**, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur - 440001.
8. **The Chairman**, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
9. **The Member Secretary**, Chhattisgarh Environment Conservation Board, Paryavas Bhavan, North Block Sector-19, Atal Nagar Dist- Raipur(C.G.)-492002.

10. **The Member Secretary**, Central Ground Water Authority, 18/11, Jam Nagar House, Man Singh Road, New Delhi-110011.
11. **The Chief Wildlife Warden**, Govt. of Chattisgarh, Aranya Bhavan, Jail Road, Fafadih Chowk, Raipur - 492001.
12. **The District Collector, Raipur District**, Govt. of Chhattisgarh.
13. **Guard File.**
14. **PARIVESH Portal.**

## Annexure 1

### Specific Terms of Reference for (Mining Of Minerals)

#### 1. Illegal Mining

S. No	Terms of Reference
1.1	The Project Proponent needs to submit a letter from the Department of Geology and Mining, Government of Chhattisgarh during the appraisal for EC, clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by M/s Mangalam Cement Ltd or not?

#### 2. Greenbelt And Plantation

S. No	Terms of Reference
2.1	The Project Proponent needs to submit the action plan for carrying out plantation along the 7.5m barrier, safety zone and gap plantation. PP should also submit the details of no of saplings planted and to be planted, type of saplings existing and proposed, existing survival rate and the area covered and to be covered under greenbelt/plantation along with the timeline and budget. The Project proponent also needs to submit the successful rate in compliance to the earlier EC.
2.2	The Project Proponent needs to increase the no. of saplings proposed. The Project Proponent also needs to submit the action plan for undertaking the plantation along the 7.5m barrier, safety zone of nallah, village road, electric line etc., PP should also submit the details no of saplings to be planted, type of saplings proposed and the area to be covered under greenbelt/plantation along with the timeline and budget. The greenbelt/plantation plan shall be prepared in such a way that the ecology of the area shall be restored.

#### 3. Survey

S. No	Terms of Reference
3.1	The Project Proponent shall conduct drone survey of the mine lease area and buffer area and submit during the appraisal for EC

#### 4. Groundwater

S. No	Terms of Reference
4.1	The Project Proponent shall explore the possibility of reduction of specific water requirement by optimization / technology up gradation, etc. The efforts shall be delineated in the EIA/EMP.
4.2	The Project Proponent shall carry out the assessment of impact due to the proposed project as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP. The project proponent shall conduct hydrological study for projects involving intersection of ground water table as per the guidelines issued by the Central Ground Water Authority from time to time and submit the same as a part of the EIA/EMP.
4.3	The Project Proponent shall prepare the scheme for mandatory recycle/re-use of water as specified by the Central Ground Water Authority for different category areas seeking NoC for ground water withdrawal and the shall submit as part of EIA/EMP report.

### 5. Socio Economic

S. No	Terms of Reference
5.1	The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. PP should also submit the time bound action plan on concerns of the public through a separate budget with capital expenditure with a timeline of 3 years. The Project proponent shall ensure that the activities proposed under the public hearing shall be different from the CSR activities.

### 6. Water Bodies

S. No	Terms of Reference
6.1	The Project Proponent needs to address the impacts and mitigation measures arising out of the mining activity to nearby water bodies in the vicinity of the mine lease area.
6.2	The Project Proponent shall monitor the water quality in the impact zone such as water reservoir, river water with specific reference to the parameter Langelier Saturation Index which will denote the impact of calcium carbonates on water bodies and these parameters and determine the tendency of water to form calcium carbonate scaling.

### 7. Road Transportation

S. No	Terms of Reference
7.1	The Project Proponent needs to submit the map showing the transport route of the mineral from the mine lease area to the destination, impact of details of habitation at a distance of 100m from the center on both sides of road, details of no. of trips/day to and fro, capacity of the dumper/tipper to be deployed and the dimensions of the road and the carrying capacity of the road.

### 8. Environment Monitoring & Emp

S. No	Terms of Reference
8.1	The Project Proponent needs to monitor the ambient air quality and noise level at the mine lease boundary, nearest village, crusher, predominant downwind direction and at other sensitive receptors. Accordingly, Project Proponent shall propose to install Continuous Ambient Air Quality Monitoring Station within certain timeline.
8.2	The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air pollution, noise level and ground vibration.

### 9. Poultry Farm

S. No	Terms of Reference
9.1	The Project Proponent needs to submit the distance of the Ultimate Pit Limit from the Poultry farm. A detailed note on how the Project Proponent shall ensure that the mining activity will not have impact on the poultry farm inside the mine lease area shall be submitted. The Project Proponent also needs to explore the possibility of shifting the poultry farm along with the timeline and cost.

### 10. Total Excavation

S. No	Terms of Reference
10.1	The Project Proponent needs to provide the exact breakup of total excavation including Production/ROM, Mineral Rejects, Topsoil, OB, Waste per year in first five year plan period.

### 11. Cost Benefit Analysis

S. No	Terms of Reference
11.1	The Project Proponent needs to submit the Cost Benefit analysis comparing the current agricultural production and annual turnover including the cost and the benefits drawn by the local villages vis-a-vis the mineral cost and beneficiaries at the time of submission of EC proposal.

### 12. Grazing Land

S. No	Terms of Reference
12.1	The Project Proponent needs to submit the map and the details regarding alternate land for grazing land and also its protection measures.

### Standard Terms of Reference for (Mining of minerals)

#### 1. Project Details

S. No	Terms of Reference
1.1	Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994. The production details need to submit since inception of mine duly authenticated by Department of Mines & Geology, State Government.
1.2	A copy of the document in support of rightful lessee of the mine should be submitted. In case of new mines copy of LoI granted by State Government to be submitted. PP should ensure that LoI is valid at the time of grant of ToR. PP should submit the copy of lease deed/supplementary lease deed/extension letter/transfer deed, from its initial grant to subsequent renewals/transfer/extension of validity.
1.3	All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
1.4	PP should submit the District Survey Report (DSR) as per S.O. 3611(E) dated 25.07.2018 in case of minor minerals.
1.5	Brief of proposal to be submitted which include total excavation of the material required for the production of certain quantity of the minerals, location of the project, mining lease area, latitude longitude, seismic zone etc. In case of expansion project details of expansion viz. expansion in mining lease area or expansion in production of any particular mineral or expansion in total excavation, latest certified Compliance report (CCR) from IRO of conditions granted in existing EC needs to be submitted.
1.6	The PP should submit the real-time aerial video footage & video of the mining lease area and of the transportation route.
1.7	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).
1.8	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.
1.9	The PP should collect the Baseline data (BLD) in respect of initial level of the mining lease. For this permanent bench marks (BM) needs to be established at prominent location preferably close to mining leases in question and should have precisely known relationship to the level datum of the area, typically mean sea level.
1.10	In case of sand mining, the entire mining lease area should be divided suitably into grids of 25 m x 25 m with the help of sections across the width of river and along the direction of flow of the river. The levels (MSL & RL) of the corner point of each grid needs to be recorded. Each Grid should be suitably numbered for identification. PP should identify grids which will be worked out and grids which will come under no mining zone i.e. safety barriers from the river bank. PP should comply with the sustainable sand mining management guidelines 2016 and enforcement and monitoring guidelines, 2020 etc.

S. No	Terms of Reference
1.11	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.
1.12	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
1.13	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.
1.14	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
1.15	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.
1.16	Compliance of the Ministry'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 2nd 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.

## 2. Forest

S. No	Terms of Reference
2.1	PP shall submit a certificate from Chief Conservator of Forests regarding involvement of Forest Land in the mining lease area if any. In case forest land is involved i) PP should submit the proof of application made for obtaining forest clearance and ii) a map clearly showing the forest & non-forest area.
2.2	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.
2.3	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.
2.4	The vegetation in the RF / PF areas in the study area, with necessary details, should be given.

## 3. Court Matters

S. No	Terms of Reference
3.1	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

#### 4. Land Environment

S. No	Terms of Reference
4.1	PP should submit the details of survey number [viz. survey no, area in hectare, classification of land (government, private, forest, grazing land etc.), villages] duly authenticated by State Government, falling in the mining lease area.
4.2	The study area will comprise of 10km 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.
4.3	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.
4.4	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

#### 5. Wildlife

S. No	Terms of Reference
5.1	A study shall be got 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 submitted.
5.2	A detailed biological study of the study area [core zone and buffer zone] 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. PP shall submit list of Schedule-1 species present in core and buffer zone duly authenticated by CWLW. 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/Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost. Proof of its submission of conservation plan to the CWLW needs to be submitted.
5.3	PP shall submit a certificate from Chief Wildlife Warden regarding distance of mining lease from the protected area falling within 10 KM of the mining lease. In case project requires clearance under Wildlife (Protection) Act, 1972 then copy of application made for the same needs to be submitted.

#### 6. Baseline Environment

S. No	Terms of Reference
6.1	One season (non-monsoon) [i.e. March - May (Summer Season); October - December (post monsoon season); December - February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
6.2	Air quality modelling 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 windrose showing pre-dominant wind direction may also be indicated on the map.
6.3	The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this, PP should submit the original test reports and certificates of the labs from which samples were analyzed.

## 7. Water Environment

S. No	Terms of Reference
7.1	The water requirement for the Project, its availability and source should be furnished. Quantity of surface or ground water to be used for the Project should be indicated. A detailed water balance should also be provided. Submit the year wise target for reduction in consumption of the ground/surface water by developing alternative source of water through rain water harvesting measures. 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. The capital and recurring expenditure to be incurred needs to be submitted.
7.2	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.

## 8. Hydro Geology

S. No	Terms of Reference
8.1	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.
8.2	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.
8.3	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

S. No	Terms of Reference
	working bench will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished. In case of surface water is proposed to be utilized then Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.

## 9. Transportation

S. No	Terms of Reference
9.1	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.

## 10. Land Acquisition And R&r

S. No	Terms of Reference
10.1	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.
10.2	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.

## 11. Socio-economic Environment

S. No	Terms of Reference
11.1	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.
11.2	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.

S. No	Terms of Reference
11.3	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.
11.4	Activity-wise time-bound action plan on the issues raised and commitment made during public hearing to be submitted as part of the final EMP Report in compliance of the Ministry's OM F.No.22-65/2017-IA.III dated 30th September, 2020.

## 12. Environmental Monitoring And Management

S. No	Terms of Reference
12.1	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.
12.2	Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.

## 13. Critically Polluted Areas, Aravali & Crz

S. No	Terms of Reference
13.1	Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered.
13.2	Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).

## 14. Risk Assessment & Disaster Management

S. No	Terms of Reference
14.1	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.

S. No	Terms of Reference
14.2	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.
14.3	A Disaster Management Plan shall be prepared and included in the EIA/EMP Report.

### 15. Miscellaneous

S. No	Terms of Reference
15.1	The 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 mining projects 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 4th August, 2009, which are available on the website of this Ministry, should 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, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. i) 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.

### Additional Terms of Reference

N/A

Annexure 2

### Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Limestone	Limestone	3208690.3	Tons per Annum (TPA)	Road	

**The details of the project**

The details of the project as ascertained from the document submitted by the Project Proponent and revealed from the discussions held during the meeting are given as under:

- i. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 250ha and accordingly, appraised at the Central level.
- ii. The mine lease area is located between Latitude: 21°27'27.50766"N to 21°28'21.22912"N and Longitude: 81°54'57.38042"E to 81°56'52.53573"E. The mine lease area falls under the Survey of India Toposheet No: 64G/15 and falls in Seismic Zone-II.

## iii. Details of Mine Lease:

Sr. No	Prospecting License/ Letter of Intent (LoI)/ Grant of Mine lease and Lr No	Date of the grant	Name of the Mineral&(Major /Minor)	Period of Grant	Granted by	Mine lease area in Ha.
1	LoI No- F 3-04/2021/12, Nava Raipur, Atal Nagar,	04/08/2022	Limestone (Major Mineral)	3 Years	Joint Secretary Chhattisgarh Government Mineral Resources Department New Raipur	323.332

## iv. Land Use/Land Cover of the Mine Lease Area:

Private land	250.647 Ha.
Government land	72.685 Ha.
Forest land	Nil
Total Mining lease area (MLA), ha	323.332 Ha.
Private land for crusher, workshop & other infrastructure outside the MLA	Nil (Not Proposed)

## v. Mining plan details:

Mining Plan including Progressive Mine Closure Plan	Letter No.	RPR/RAIPUR/LIMESTONE/1381/MP/2023-24
	Date	14/07/2023

was approved by Indian Bureau of Mines (IBM)	Mineral & (Major/Minor)	Limestone (Major Mineral)
	Mine Lease Area, Ha.	323.332
	Validity	5 Year from date of agreement
<b>Mining Parameters</b>	<b>Quantitative Description</b>	
Method of Mining	Opencast Mechanized Mining	
Drilling/Blasting	Deep Hole wet Drilling & Blasting Diameter of hole – 110 mm, Depth of hole= 6.0m Explosive required per month = 75,000 kg	
Geological Reserves	21,17,79,706.0Tonnes	
Mineable Reserves	16,54,51,198 Tonnes	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Total Excavation 32,08,690.3 TPA (Limestone: 29,69,287.5 TPA, Top Soil: 2,39,402.8 TPA)	
Life of mine	50 Years from the date of registration.	
Mine Bench Height & Bench Width	Mine Bench Height 6m & Bench Width 15m	
No. of Mine Benches	3 benches (during plan period)	
Existing Depth, m bgl	Highest - 297mRL Lowest- 288mRL	
Ultimate Depth of Mining, m bgl	63 mbgl	
Ground Water Table, m bgl	Water Table 261mRL (27 mbgl Post monsoon) 258mRL(30 mbgl Pre monsoon)	
Details of ground water intersection	Proposed Mining depth is only 18mbgl, so there will no water intersection in next five years.	
Individual bench slope	60°	
Overall pit slope	37°	
Details of existing/ proposed Crusher	Not proposed	
Mineral Beneficiation	Not proposed	
RoM output size	0.5m <sup>3</sup> (max.)	
Transportation details including capacity of dumper/tipper, mode of transport and distance	Mode of transportation = Dumpers Number of Dumpers = 5 Capacity of Dumper =25 Tonner Lead Distance = 2 km	
Generation of Topsoil/OB & its Management during plan period & conceptual period	Top soil generated during plan period = 4,91,892.8tonnes (3,51,352 m <sup>3</sup> ) Top soil generated during conceptual period = 74,16,598tonnes (5,297,570 m <sup>3</sup> ) Top soil shall be Utilized for plantation.	
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	No mineral waste and reject shall be generated during plan period.	

vi. Water requirement:

Total water requirement	71.0 KLD	Fresh water	4.0 KLD
		Treated water	67.0 KLD
Source	Water for Drinking & Domestic shall be taken by Govt. Supply and nearby villages Kathiya. Surface water accumulated in the existing pit shall be used for dust suppression and plantation.		
Permission for withdrawal/ intersection along with details of grant and its validity	Permission of water intersection shall be taken before intersection of ground water table.		

vii. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest:

Particulars	Particular's Name	Distance & Directions
Village	Kathiya - Pachri	Kathiya 0.40 km in North direction. Pachri 0.70 km in SE direction
Town	Tilda	14.85km in NW direction
Highway	NH-130B Tilda Simga Road	7.30 km in South direction 3.827 km in SW direction
Interstate Boundary	Nil	Nil
Railway Station/Railway line	Tilda Railway station	About 15.85 km in NW direction
Water Bodies	Pond, Pachri Pond, Kumhari Tank Keotara Pond, BharuwadihKalan Naiya Talab, Mohra Pond, Pindraon Tank Pond, Jara Pond, Kesla Jamuniya Nala Tangna Nala Khorsi Nala Pond, Parsada Banjari Nala	(About 207.52 meter in SE direction) (About 314 meter km in NW direction) (About 0.51 km in West direction) (About 4.35 km in NE direction) (About 6.013 km in SW direction) (About 6.55 km in NE direction) (About 6.60 km in SE direction) (About 7.00 km in West direction) (About 7.60 km in NE direction) (About 7.75 km in SE direction) (About 8.30 km ion SE direction) (About 8.45 km in North direction)
Forest	Khaulidabri Forest Mohrenga Forest	Protected Protected About 643.40 m in SW direction About 3.827 km in SW direction

viii. Presence of Environmentally Sensitive areas in the study area:

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	-No-	-
National Park	-No-	-
Wildlife Sanctuary	-No-	-
Elephant/Tiger Reserve	-No-	-
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area(ESA)	-No-	-
Coastal Regulation Zone (CRZ)	-No-	-
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Will be submitted with EIA/EMP if Applicable	-
Wildlife Conservation Plan	Will be submitted with EIA/EMP if Applicable	-

ix. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	Proposed area of green belt - 2.67 ha per year. No. of Sapling proposed per year = 2668
Budget for green plant & plantation till the end of life of mine.	INR 26,68,000 per year, INR = 10,67,20,000 at the end of life of mine.
Budget for nursery	Nil
Details of existing plantation and its survival rate	Number of existing trees -950 survival rate 90%
No. of tree cuts in the mine lease area and compensatory afforestation	950 tree cuts at the end of life of mine
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	6.95 hectare statutory barrier &

	20.60 hect. Non mineralized area.
50 m safety zone of nallah, roads, electric lines	Both side of road -79.17 hect.

x. Rehabilitation & Resettlement (R&R): -

R & R details	Rehabilitation and Resettlement (R&R) is not involved in this project.
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xi. Court case details: -

Court Case, No and its present status	The Project Proponent has submitted an affidavit dated 02.11.2023 stating that there is no litigation pending against the project and/or land in which the project is proposed to be set up and that for any such litigation whatsoever, the sole responsibilities will be borne by the Project Proponent.
Undertaking by Project Proponent w.r.t court case	

xii. The Project Proponent has submitted the Affidavit dated 02.11.2023 stating that there is no violation of provisions of EIA Notification dated 14.09.2006 and amendments made thereafter, circulars and OM issued their under.

xiii. Details of project cost and employment:

Particulars	Budget (Rs. in Crores)
Project Cost	Rs. 162.46Crores
Employment	120persons

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