



सत्यमेव जयते

File No.: 10241
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA),
TAMIL NADU)



Dated 12/07/2024



To,

MASANAM GANDHI
MASANAM GANDHI
Karattupatti Village, Andipatti Taluk, Theni District, Tamilnadu, Karattupatti , THENI, TAMIL
NADU, 625562
vinayaka6250@gmail.com

Subject: Amendment in prior Terms of Reference (ToR) with Public Hearing granted to the project under the provision of the EIA Notification 2006 and as amended thereof regarding.

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/TN/MIN/481951/2024 dated 25/05/2023 for grant of an amendment in prior Terms of Reference (ToR) with Public Hearing to the project Existing Naganur Multi Color Granite Quarry over an extent of 2.93.0 Ha S.F.No. 135/1A, 136/1A, and 136/2, of Naganur Village, Kullithalai Taluk, Karur District, Tamil Nadu by **Thiru. M. Gandhi** under the provision of the EIA Notification 2006-and as amended thereof.

Ref:

1. Online proposal No. SIA/TN/MIN/481951/2024, dt: 18/06/2024.
2. Your application submitted for Terms of Reference dated:20.06.2024.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO24B0108TN5627909A
(ii) File No.	10241
(iii) Clearance Type	Amendment in TOR
(iv) Category	B1
(v) Schedule No./ Project Activity	1(a) Mining of minerals Naganur Multi-Coloured Granite Quarry Belongs to M. Gandhi Extent:2.93.0 Ha S.F.Nos. 135/1A, 136/1A & 136/2 Naganur Village, Kulithalai Taluk, Karur District
(vii) Name of Project	KARUR, TAMIL NADU
(ix) Location of Project (District, State)	SEIAA
(x) Issuing Authority	No
(xii) Applicability of General Conditions	

3. 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 State Expert Appraisal Committee (SEIAA) in the Ministry under the provision of EIA notification 2006 and its subsequent amendments.

4. Discussion by SEAC and the Remarks:-

Existing Naganur Multi Color Granite Quarry over an extent of 2.93.0 Ha S.F.No. 135/1A, 136/1A, and 136/2, of Naganur Village, Kullithalai Taluk, Karur District, Tamil Nadu by Thiru. M. Gandhi - Terms of Reference issued under violation category- Representation from the Project Proponent.

The representation received from the Project Proponent seeking amendment to ToR issued under violation category vide T.O. Lr.No.SEIAA-TN/F.No.10241/SEAC/ToR-1548/2023 dated 27.09.2023 was placed in this 477th meeting of SEAC held on 22.06.2024. The Project Proponent made a detailed presentation on the proposed project.

The SEAC noted that in this case the SEIAA has issued ToR under violation category vide T.O. Lr.No.SEIAA-TN/F.No.10241/SEAC/ToR-1548/2023 dated 27.09.2023 as the Project Proponent has obtained Environmental Clearance dated 09.10.2018 from DEIAA.

And it is pertinent to observe that MoEFCC Office memorandum F.No. IA3-22/11/2023-IA (E-208230), dated. 28.04.2023 and relevant part of the OM reads as under:

- *“...it has been decided that all valid ECs issued by DEIAA shall be reappraised through SEAC/SEIAA in compliance to the order of the Hon’ble NGT in O.A.142 of 2022. In view of above, t is hereby directed that all concerned SEACs shall re-appraise the ECs issued between 15.01.2016 and 13.09.2018 (including both dates) and all fresh ECs shall be granted only by SEIAAs based on such appraisal. The exercise shall be completed within a time period of one year from the date of issue of this OM. DEIAAs shall transfer all such files where ECs have been granted to concerned SEIAA within a time period of one month from issue of this OM.....”*
- *“...Environmental clearance was granted by DEIAA need to be brought in consonance with the directions given by the Hon’ble Supreme Court in Deepak Kumar (supra) and order dated. 13.09.2018 by this Tribunal in Satendra Pandey (supra) by re-appraisal by SEIAA and only such mining leases may be continued which have been on re-appraisal granted environmental clearance by SEIAA and after taking appropriate remedial action on the basis of such re-appraisal...”*

Further, in order to have a uniform approach across the country for such appraisal, SEIAA shall scrutiny and appraise the proposals based on the checklist provided below:

xi. Compliance of Hon’ble Supreme Court Judgement dated 02.08.2017 passed in Common Cause vs Union of India Writ Petition (C) 114 of 2014.....”

During re-appraisal of the project, the SEAC noticed that the PP has continued the mining activity without re-appraisal even after the issuance of the aforesaid O.M and hence recommended for the issue of ToR under violation category. However, the MoEF& CC in the subsequent O.M F.No. IA3-22/11/2023-IA-III(E-208230) dated 03.11.2023 has clarified that, the EC granted by DEIAA which are valid as on date shall continue to be valid for 1 year from the date of issue of O.M dated 28.04.2023.

In view of the above O.M, the PP has made a representation to reconsider the ToR issued under violation category and further requested during appraisal to consider the amendment application submitted by the proponent vide online number SIA/TN/MIN/481951/2024 Dated: 18.06.2024 to amend the earlier issued Terms of Reference under violation category to normal category.

After the deliberations, based on the OM F. No. IA3-22/11/2023-IA.III (E 208230) dated. 07.05.2024, the SEAC, in order to examine the request of the PP, directed the PP to submit a letter from AD/Mines on details about the mining operations carried out after 07.05.2024.

Accordingly, the PP has furnished the letter obtained from the AD (Geology & Mining) – Rc. No. 1361/Mines/2017, dated. 21.06.2024 which states that

Approved Quantity as per EC : 40, 072 Cbm

Details of Permits issued for the Quantity as on date: 7425.605 Cbm

Balance Quantity : 32646.395 Cbm

Date of Last Permit issued : 06.11.2023.

Hence, the SEAC have decided to cancel the ToR issued already issued under ‘Violation’ category T.O. Lr.No.SEIAA-TN/F.No.10241/SEAC/ToR-1548/2023 dated 27.09.2023 under the provisions of MoEF & CC OM, dated 03.11.2023 and to treat this proposal under ‘Normal’ application as no mining operations were carried out after 07.05.2024 under the provisions of MoEF & CC OM, dated. 07.05.2024 both were exclusively applicable for the

reappraisal of ECs granted by the DEIAAs.

Further, based on the presentation and details furnished by the project proponent, **SEAC decided to recommend the amendment as requested by PP, for the application submitted in portal vide SIA/TN/MIN/481951/2024, for the earlier issued Terms of Reference (ToR) with Public Hearing** subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The project proponent shall submit a Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai as per the MoEF&CC O.M dated.08.06.2022 for the previous EC and appropriate mitigating measures for the non-compliance items, if any.

2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:

i. Original pit dimension of the existing quarry

ii. Quantity achieved Vs EC Approved Quantity

iii. Balance Quantity as per Mineable Reserve calculated.

iv. Mined out Depth as on date Vs EC Permitted depth

v. Details of illegal/illicit mining carried out, if any

vi. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.

vii. Existing condition of Safety zone/benches

3. The structures within the radius of (i) 50 m, and (ii) 100 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.

4. The Proponent shall develop **thick greenbelt for not less than two rows** and garland drain around the boundary of the proposed quarry and the photographs indicating the same shall be shown during the EIA appraisal.

5. The study on impact of the proposed type of quarrying operation involves controlled blasting or diamond wire saw cutting, etc on the surrounding environment.

6. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.

7. **A Cluster Management Committee (CMC) shall be constituted including all the mines in the cluster as Committee Members for the effective management of the mining operation in the cluster through systematic & scientific approach with appointment of statutory personnel, appropriate environmental monitoring, good maintenance of haul roads and village/panchayat roads, authorized blasting operation etc. The PP shall submit the following details in the form of an Affidavit during the EIA appraisal:**

I. Copy of the agreement forming CMC.

II. The Organisation chart of the Committee with defining the role of the members

The 'Standard Operating Procedures' (SoP) executing the planned activities.

5. Discussion by SEIAA and the Remarks:-

Existing Naganur Multi Color Granite Quarry over an extent of 2.93.0 Ha S.F.No. 135/1A, 136/1A, and 136/2, of Naganur Village, Kullithalai Taluk, Karur District, Tamil Nadu by Thiru.M. Gandhi - Terms of Reference issued under violation category - Representation from the Project Proponent.

The subject was placed in this 737th meeting of Authority held on 09.07.2024. The Authority noted that the subject was appraised in the 477th meeting of SEAC held on 20.06.2024 and the SEAC has furnished its recommendations for the **Terms of Reference (ToR) with Public Hearing** to the project subject to the conditions stated therein.

After detailed discussions, the Authority accepted the recommendation of SEAC and decided to grant **Terms of Reference (ToR) with Public Hearing** based on studies, assessments and records to be produced as sought by the SEAC and SEIAA, for undertaking the Environment Impact Assessment Study and preparation of Environment Management Plan for the quantity of **159427m³ of RoM and 39858m³ of Multi colour Granite @ 25% recovery** upto the **proposed depth of 18m BGL** and the **annual peak RoM production of 32199 m³ and 8050 m³ of Multi colour Granite @ 25% recovery** as per the approved mining plan. subject to the conditions as recommended by SEAC & normal conditions

6. This issues with the approval of the Competent Authority

7. The TORs with public hearing prescribed shall be **valid for a period of three years** from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.

Copy
To

1. The Principal Chief Secretary to Government, Environment, Climate Change and Forests Department, Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
3. The Chair Person, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai - 600 032.
4. The APCCF (C), Regional Office, MoEF & CC (SZ), 34, HEPC Building, 1st & 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai - 34.
5. Monitoring Cell, IA Division, Ministry of Environment, Forests & CC, Paryavaran Bhavan, CGO Complex, New Delhi - 110 003.
6. The District Collector, Karur District.
7. Stock File.

Annexure 1

Specific Terms of Reference for (Mining Of Minerals)

1. Seac Conditions - Site Specific

S. No	Terms of Reference
1.1	<ol style="list-style-type: none">1. The project proponent shall submit a Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai as per the MoEF&CC O.M dated.08.06.2022 for the previous EC and appropriate mitigating measures for the non-compliance items, if any.2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:<ol style="list-style-type: none">i. Original pit dimension of the existing quarryii. Quantity achieved Vs EC Approved Quantityiii. Balance Quantity as per Mineable Reserve calculated.iv. Mined out Depth as on date Vs EC Permitted depthv. Details of illegal/illicit mining carried out, if anyvi. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.vii. Existing condition of Safety zone/benches3. The structures within the radius of (i) 50 m, and (ii) 100 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.4. The Proponent shall develop thick greenbelt for not less than two rows and garland drain around the boundary of the proposed quarry and the photographs indicating the same shall be shown during the EIA appraisal.5. The study on impact of the proposed type of quarrying operation involves controlled blasting or diamond wire saw cutting, etc on the surrounding environment.6. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.7. A Cluster Management Committee (CMC) shall be constituted including all the mines in the cluster as Committee Members for the effective management of the mining operation in the cluster through systematic & scientific approach with appointment of statutory personnel, appropriate environmental monitoring, good maintenance of haul roads and village/panchayat roads, authorized blasting operation etc. The PP shall submit the following

S. No	Terms of Reference
	<p>details in the form of an Affidavit during the EIA appraisal:</p> <p>I. Copy of the agreement forming CMC.</p> <p>II. The Organisation chart of the Committee with defining the role of the members</p> <p>III. The ‘Standard Operating Procedures’ (SoP) executing the planned activities.</p>

2. Seiaa Specific Condition:

S. No	Terms of Reference
2.1	<p>After detailed discussions, the Authority accepted the recommendation of SEAC and decided to grant Terms of Reference (ToR) with Public Hearing based on studies, assessments and records to be produced as sought by the SEAC and SEIAA, for undertaking the Environment Impact Assessment Study and preparation of Environment Management Plan for the quantity of 159427m³ of RoM and 39858m³ of Multi colour Granite @ 25% recovery upto the proposed depth of 18m BGL and the annual peak RoM production of 32199 m³ and 8050 m³ of Multi colour Granite @ 25% recovery as per the approved mining plan. subject to the conditions as recommended by SEAC & normal conditions and with the specific and standard conditions.</p>

3. Seiaa Standard Condition:

S. No	Terms of Reference
3.1	<p><u>Cluster Management Committee</u></p> <ol style="list-style-type: none"> Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc., The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network. The committee shall deliberate on risk & emergency management plan, fire safety & evacuation plan and sustainable development goals pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail in the EIA Report. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public in the vicinity. <p><u>Agriculture & Agro-Biodiversity</u></p> <ol style="list-style-type: none"> Impact on surrounding agricultural fields around the proposed mining Area. Impact on soil flora & vegetation around the project site. Details of type of vegetation including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetation all along the boundary of the proposed mining area shall committed mentioned in EMP.

S. No	Terms of Reference
	<p>12. The Environmental Impact Assessment should study the agro-biodiversity, agro-forestry, horticultural plantations, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.</p> <p>13. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.</p> <p>14. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.</p> <p><u>Forests</u></p> <p>15. The project proponent shall detailed study on impact of mining on Reserve forests and free ranging wildlife.</p> <p>16. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.</p> <p>17. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.</p> <p>18. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.</p> <p><u>Water Environment</u></p> <p>19. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. 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, covering the entire mine lease period.</p> <p>20. Erosion Control measures.</p> <p>21. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.</p> <p>22. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.</p> <p>23. The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.</p> <p>24. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.</p> <p>25. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.</p> <p>26. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.</p> <p>27. The EIA shall include the impact of mining activity on the following:</p> <ol style="list-style-type: none"> Hydrothermal/Geothermal effect due to destruction in the Environment. Bio-geochemical processes and its foot prints including environmental stress. Sediment geochemistry in the surface streams. <p><u>Energy</u></p> <p><u>Climate Change</u></p> <p>29. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities.</p> <p>30. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock, soil health and physical, chemical & biological soil features.</p> <p>31. Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood.</p> <p><u>Mine Closure Plan</u></p>

S. No	Terms of Reference
	<p><u>EMP</u> 33. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued and the scope for achieving SDGs.</p> <p>34. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.</p> <p><u>Risk Assessment</u></p> <p><u>Disaster Management Plan</u></p> <p><u>Others</u></p> <p>37. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.</p> <p>38. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.</p> <p>The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impacts of plastic & microplastics on aquatic environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.</p>



A. STANDARD TERMS OF REFERENCE

- 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.
- 2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- 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.
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topo sheet, 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).
- 5) Information should be provided in Survey of India Topo sheet 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.
- 6) 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.
- 7) 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 EIA Report.
- 8) 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.

- 9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, 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.
- 11) 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.
- 12) 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.
- 13) 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.
- 14) 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.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 16) 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.
- 17) 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 furnished.

- 18) 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 along with 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.
- 19) 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 Department should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) 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 with respect to 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).
- 21) 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.
- 22) 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.

- 23) 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.
- 24) 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.
- 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 26) 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.
- 27) 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.
- 28) 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 furnished.
- 29) 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.

- 30) 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.
- 31) 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.
- 32) 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.
- 33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 34) 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.
- 35) 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.
- 36) 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.
- 37) 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.

- 38) 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.
- 39) 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.
- 40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 43) 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.
- 44) Besides the above, the below mentioned general points are also to be followed:-
 - a) Executive Summary of the EIA/EMP Report
 - b) All documents to 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) 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.
 - e) Where the documents provided are in a language other than English, an English translation should be provided.
 - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC 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.

- h) 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.
- i) 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.
- j) 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.

