State Level Expert Appraisal Committee, Uttarakhand "Gauradevi Paryavaran Bhawan, 3rd Floor, 46-B. I.T. Park. Sahastradhara Road, Dehradun"

Letter No: 06 /SEAC Dated: 31, January, 2023

The Second day of the IInd meeting of the Uttarakhand State Level Expert Appraisal Committee (SEAC) was held on 31st January, 2023 at the SEIAA/SEAC office Dehradun. The following were present in the meeting –

1) Shri Shailendra Singh Bist Chairman

2) Dr. Ashwani Kumar Minocha Member (Attendant Online)

3) Dr. Ashutosh Gautam Member
 4) Dr.Basudev Prasad Purohit Member
 5) Shri Nitish Mani Tripathi Secretary

The meeting was presided by Shri S.S. Bist. The meeting proceeded as per the agenda with permission of the chair. It was noted that proposals, for the meeting, being considered for the appraisal includes Construction, Industrial, Mining (R.B.M/Soapstone) etc. The concerned recognized environment consultants of the proponents made the presentations.

Consideration/Reconsideration of Proposals For Environmental Clearance (E.C.)

Proposal - 1

| Online proposal No. | SIA/UK/MIS/272966/2022 | | |
|-------------------------------|--|--|--|
| Name of the Project | Proposed Hotel Project at 189/2, Rajpur Road, Dehradun. | | |
| | M/s The Maitreya | | |
| Whether New/Expansion Project | New | | |
| Total Plot Area | 1070.20 m ² | | |
| Total Covered Area | 1810.86 m ² | | |
| Project Category | "B" & 8(a) enlisted in project /activity as per EIA Notification, 2006 | | |

The project was submitted vide proposal no SIA/UK/MIS/272966/2022 on dated 14th May, 2022 by the project proponent The committee observed that the proponent is seeking Environmental Clearance for Proposed Hotel Project. The above proponent has submitted detailed project related information in Form - 1, Form - 1A, Conceptual Plan, EMP, Sanction Letter from MDDA, Fire NoC & Land Documents. Project was prepared by Accredited consultancy firm Paramarsh Servicing Environment and Development and project was presented by Shri Surendar Vikram Gharvi, EIA Coordinator. The details of the project are given below:-

| S.No | Parameters | Description | | |
|------|-----------------------------|---|----------------------------------|----------------------------------|
| 1 | Name of the Project | Environmental Clearance for proposed Hotel project of "THE MAITREYA". | | |
| 2 | Production Capacity | Proposed Guest rooms- 90 Proposed Kitchen- 01 Proposed Restaurant- 01 Proposed Banquet hall- 01 Proposed Gym- 01 Proposed Bar- 01 | | |
| 3 | Total Plot Area | 1070.20 sq. m. | | |
| 4 | Proposed Site Location | 189/2, Rajpur Road, Dehradun, Uttarakhand. | | |
| 5 | Coordinates of Project site | Pillar | Latitude | Longitude |
| | | B | 30°22'48.58" N 30°22'49.19" N | 78°05'13.55" E 78°05'12.02" E |
| | | C | 30°22'49.91" N | 78°05'12.19" E |
| | | D | 30°22'49.36" N | 78°05'13.96" E |
| 6 | Water Requirement (KLD) | Total - 43.07 KLD Fresh water- 25.82 KLD | | |
| 7 | Source of Water | Municipal water supply through pipeline. | | |

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| 8 | Waste Water Management Waste water generation Mode of Disposal | 26.92 KLD (disposed through STP of 50 KLD) | |
|----|--|---|--|
| 9 | Solid waste Generation & Disposal | Approx. 135.50 Kg/day Disposal – collection, segregation and disposal as per the UKPCB norms. | |
| 10 | Hazardous Waste Generation & Disposal | | |
| 11 | E-Waste | No e-waste generated. | |
| 12 | Green Area Development | 33 % of plot area will be covered under plantation. | |
| 13 | Total Manpower | 40 no's | |
| 14 | Electricity/Power requirement | Sourced from Uttarakhand Electricity Board(UPCL). | |
| 15 | Alternate Power Source | DG Set 1000 KVA (Two DG Sets of 500 KVA capacity) | |
| 16 | Utilities | | |
| 17 | Land form, Land use and land ownership | Private land. | |
| 18 | Project cost | 1900 lakhs | |
| 19 | Corporate Environment Responsibility (CER) | 2% of project cost | |

The Committee examined the original proposal and presentation made by the consultant wherein he informed that they have made violation by doing some construction/excavation work.

- SEAC asked the Project Proponent for submitting actual amount of money incurred so far by the project to estimate the penalty. Since the project proponent has suomoto reported the violation hence, the penalty applicable is 0.5% of the project cost incurred till date. This non-refundable amount is to be deposited in the account of State Pollution Control Board.
- The Project Proponent is expected to submit the total budgetary allocation pertaining to remediation plan and natural and community resource augmentation plan. The Project Proponent shall submit a bank guarantee equivalent to the above amount with the State Pollution Control Board. This bank guarantee is refundable to the Project Proponent after submitting evidences pertaining to implementation of the remediation plan and natural and community resource augmentation plan.
- Thus the committee is of the view that this proposal may be deferred untill the project proponent ensures the compliance of above mentioned directions and submits the revised proposal. After compliance and submission of the revised proposal the project will be considered for accord of Environmental Clearance (E.C.) in the next meeting of SEAC as additional agenda.

Proposal - 2

| Online proposal No. | SIA/UK/NCP/289626/2022 | | | |
|---|--|--|--|--|
| Name of the Project | Proposed Stone Crusher Plant along with 36000 TPA at Khasra no 214, 215 & 216 Village – Mahendrapur, Tehsil - Dhanolti, Distt-Tehri Garhwal. | | | |
| Proponent | M/s Jai Maa Surkanda Stone Crusher by Shri Umesh Singh Rawat (Partner) | | | |
| Whether New/Expansion/ Modernization Project | New | | | |
| Total Plot Area | 0.6110 Ha. | | | |
| Project Category | B2, (Orange Category as per Doon Valley Notification 1989 & 2020) | | | |

The project was submitted vide proposal no SIA/UK/NCP/289626/2022 on dated 22nd August, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for Proposed establishment of Stone Crusher Plant along with 36000 TPH. The committee observed that this project activity is covered under Orange Category as per the Doon Valley Notification 1989 (as amended). The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. Project was prepared by Accredited consultancy firm Paramarsh Servicing Environment and Development and project was presented by Shri Surendar Vikram Gharvi, EIA Coordinator. The details of the project are given below:-

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| S.No | Parameters | | Description | |
|------|--|---|----------------|--|
| 1 | Name of the Project | Environmental Clearance for proposed stone crushe project of "M/s Jai Maa Surkanda Stone Crusher" | | |
| 2 | Production Capacity | 36000 TPA | | |
| 3 | Total Plot Area | 0.611 Hectare | | |
| 4 | Proposed Site Location | At Khasra no. 214,215,216 Village- Mahendrapur, Dhan Tehri Garhwal, Uttarakhand | | |
| 5 | Coordinates of Project site | Latitude | Longitude | |
| 6 | Water Beguirement (KLD) | 30°19'52.26" N | 78°08'47.28" E | |
| 7 | Water Requirement (KLD) Source of Water | Total - 8.85 KLD | | |
| 8 | Waste Water Management Waste water generation Mode of Disposal | Borewell 0.15 KLD (Disposed through eco-friendly mobile toilets) | | |
| 9 | Solid waste Generation & Disposal | Approx. 1.80 kg/day Disposal – Collection, Segregation and disposal as per th UKPCB norms. | | |
| 10 | Hazardous Waste Generation & Disposal | Spent oil- 0.3 MTPA Discarded drums- 12 no's Will be handed over to registered HW recyclers in case of spent oil from DG set. | | |
| 11 | E-Waste | NIL | | |
| 12 | Green Area Development | 33 % of plot area will be covered under plantation. | | |
| 13 | Total Manpower | 30 no's | | |
| 14 | Electricity/Power requirement | 600 KVA | | |
| 15 | Alternate Power Source | Green insulated DG Sets of 900 KVA (500 KVA x 1 No. 8 300 KVA x 01 No.) | | |
| 16 | Utilities | | | |
| 17 | Land form, Land use and land ownership | Private land. | | |
| 18 | Project cost | 320 lakhs | | |
| 19 | Corporate Environment Responsibility (CER) | 2% of project cost(6.4 lakhs) | | |

The Committee after examining the original proposal and after going through the presentation done by the consultant has made the following observations-

- The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials.
- Project Proponent shall install solar lights on the periphery of its premises.
- Regular health checkup of workers by recognized medical practitioners shall be ensured by the Project proponent and shall submit report to SEIAA along with six monthly compliance report.
- The project proponent will submit fortnightly reports pertaining to ambient air quality, and quarterly report pertaining to ground water quality and noise. These reports should be monitored and generated by a NABL approved laboratory having scope of it. The reports pertaining to ambient air quality shall be submitted before 10th day of every month and the reports pertaining to ground water quality and noise shall be submitted before 10th day of every fourth month to SEIAA.
- The Project proponent will install advanced dust suppression system at the project site.
- The Project Proponent shall develop multi layered green belt around the periphery of the plant. The green belt thus developed should be on more than 10 percent of the project area. The project proponent will develop additional green belt in the surrounding areas to complete the requirement of 33% green belt of the project area. The project proponent shall plant fast growing species such as bamboo in the premises.
- The Project proponent shall plant fast growing species on both the sides of road connecting from the project premises to main road.
- The project proponent shall submit the NoC from CGWB for utilization of ground water.
- The project proponent shall undertake rain water harvesting activities in the surrounding villages preferably in the schools, primary health centers in consultation with local authorities.
- Barricading (boundary) of at least 20 feet height around the project site shall be constructed by the project proponent.
- The Proponent shall ensure installation of water sprinklers within the premises to prevent dust hazards.

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- Adequate drinking water and sanitation facility shall be provided on site for the workforce.
 Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- All the vehicles being used for transportation from the stone crushing plant should have a valid pollution under control certificate.
- The Project proponent shall submit dust emission dispersion modeling to SEIAA on yearly basis from Government recognized institution/NABET approved consultant.
- The project proponent shall ensure maintenance of the approach road.
- The project proponent is allowed to run the plant only during day time. The plant running hour shall not be more than 10 hours in a day.
- The Project Proponent shall obtain CTE/CTO from UKPCB prior to operation of the plant.
- This Environmental Clearance (E.C.) is subject to obtaining clearace under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.
- The Project Proponent shall follow guidelines issued for stone crushing plant by MoEF&CC, CPCB and UKPCB as amended from time to time.
- The Project Proponent shall follow directions/orders issued by Hon'ble High Court/NGT/ Supreme Court with respect to establishment of stone crushing plant or on issues pertaining to pollution by stone crushing plant.
- The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.

Based on above observations and subject to conditions (Annexure-1), the committee recommended the above project for grant of Environmental Clearance.

Consideration/Reconsideration of Proposals ForTerms of Reference (ToR)

Proposal - 3

| Online proposal No. | SIA/UK/MIN/78375/2022 |
|--------------------------------|--|
| Site Details | Proposed Extraction of Soapstone at Vill- Bintoli, Teh & Dist- Bageshwar. |
| Name & Address of Proponent | Shri Shankar Singh Dafouti S/o Shri Kuashal Singh Dafouti, Village-Shimtoli, Tehsil & District- Bageshwar. |
| Coordinates | Latitude- 29°48'52.08"N to 29°48'53.82"N Longitude- 79°50'51.01"E to 79°50'41.65"E |
| Mining Lease Area | 8.885 Ha. |
| Category | B1 & 1(a) enlisted in project /activity as per EIA Notification, 2006 |

The project was submitted vide proposal no SIA/UK/MIN/78375/2022 on dated 16th June, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. Project was prepared by Accredited consultancy firm Eco Laboratories & Consultants Pvt. Ltd. and project was presented by Shri Bhuwan Joshi, EIA Coordinator.

Hence, committee agreed to recommend **ToR (Annexure-2)** to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.

Proposal - 4

| Online proposal No. | SIA/UK/MIN/406331/2022 |
|--------------------------------|--|
| Site Details | Proposed Extraction of Soapstone at Village- Maithara, Tehsil & District- Bageshwar. |
| Name & Address of Proponent | M/s Sidhbali Mines & Minerals by Pankaj Dhapoula S/o Shri Bahadur Singh Dhapoula, Village- Dhapouli, Post & Tehsil- Kanda, Dist-Bageshwar. |
| Coordinates | Latitude- 29°51′59.31″N to 29°51′57.96″N Longitude- 79°52′3.84″E to 79°51′59.15″E |
| Mining Lease Area | 2.991 Ha. |
| Category | B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006 But as per notification O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12- |

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12-2018, the project has been screened in to category B1 (cluster formation of >5 Ha with in 500 meter periphery of concerned mine).

The project was submitted vide proposal no SIA/UK/MIN/406331/2022 on dated 13th November, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). As per the MoEF&CC No- 3181 dated- 14-08-2018 the project fall in B2. But according to latest O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B1 category because there are other mine leases which are within the aerial distance of 500 meter of the above mining site. The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. Project was prepared by Accredited consultancy firm Eco Laboratories & Consultants Pvt. Ltd. and project was presented by Shri Bhuwan Joshi, EIA Coordinator.

Hence, committee agreed to recommend **ToR** (Annexure-2) to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.

Proposal - 5

| Online proposal No. | SIA/UK/MIN/406408/2022 | | |
|--------------------------------|--|--|--|
| Site Details | Proposed Extraction of Soapstone at Vill- Kumaldev (Bheru Chaubatta), Tehsil & District- Bageshwar. | | |
| Name & Address of Proponent | M/s Agari Minerals Syunebad by Shri Bhanu Pratap, Vill- Bheru Chaubatta, Tehsil & District- Bageshwar. | | |
| Coordinates | Latitude- 29°51'48.20"N to 29°51'45.45"N Longitude- 79°50'53.50"E to 79°50'53.84"E | | |
| Mining Lease Area | 2.469 Ha. | | |
| Category | B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006 But as per notification O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018, the project has been screened in to category B1 (cluster formation of >5 Ha with in 500 meter periphery of concerned mine). | | |

The project was submitted vide proposal no SIA/UK/MIN/406408/2022 on dated 14th November, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). As per the MoEF&CC No- 3181 dated- 14-08-2018 the project fall in B2. But according to latest O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B1 category because there are other mine leases which are within the aerial distance of 500 meter of the above mining site. The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. Project was prepared by Accredited consultancy firm Eco Laboratories & Consultants Pvt. Ltd. and project was presented by Shri Bhuwan Joshi, EIA Coordinator.

Hence, committee agreed to recommend **ToR (Annexure-2)** to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.

Proposal - 6

| Online proposal No. | SIA/UK/MIN/404734/2022 | | |
|--------------------------------|--|--|--|
| Site Details | Proposed Extraction of Soapstone at Vill- Kwerali, Teh & Dist- Bageshwar. | | |
| Name & Address of Proponent | Smt Seema Devi W/o Shri Gaurav Kumar & Shri Akshay Singh S/o Shr Aan Singh, R/o Vill- Kwerali, Teh & Dist- Bageshwar. | | |
| Coordinates | Latitude- 29°47'38.36"N to 29°47'36.22"N Longitude- 79°51'36.59"E to 79°51'36.74"E | | |
| Mining Lease Area | 4.773 Ha. | | |
| Category | B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006 But as per notification O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018, the project has been screened in to category B1 (cluster formation of >5 Ha with in 500 meter periphery of concerned mine). | | |
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The project was submitted vide proposal no SIA/UK/MIN/404734/2022 on dated 3rd November, 2022 by the project proponent. The committee observed that the proponent is seeking Environmental Clearance for extraction of Soapstone in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). As per the MoEF&CC No- 3181 dated- 14-08-2018 the project fall in B2. But according to latest O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B1 category because there are other mine leases which are within the aerial distance of 500 meter of the above mining site. The proponent has submitted detailed project related information in Form 1, Pre Feasibility Report and EMP. Project was prepared by Accredited consultancy firm Cognizance Research India Pvt. Ltd. and project was presented by Shri Ankur Sharma, Managing Director & EIA Coordinator.

Hence, committee agreed to recommend **ToR (Annexure-2)** to the proponent for preparation of EIA report. The Project Proponent shall obtain clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.

(Shri S.S. Bist) Chairman, SEAC Attendam Online (Dr. A.K. Minocha) Member, SEAC (Dr. Ashutosh Gautam) Member,SEAC

(Dr. B.P. Purohit) Member,SEAC

(Shri Nitish Mani Tripathi) Secretary, SEAC

- 1) Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- 2) The building plan and structural design of the unit shall comply with requirements of Seismic Zone IV as outlined in National Building Code.
- 3) No further expansion or modifications in the plan shall be carried out without the prior approval of competent authority.
- 4) The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989 & 2020
- 5) During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.
- 6) The groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- 7) All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water
- 8) The manufacturing process shall be carried out in closed atmosphere without having any air emissions. However air emissions from DG set should comply with CPCB norms by designing stack of adequate height
- 9) No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- 10) All the hazardous residue and wastes arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.
- 11) The gaseous emissions (SO_x, NO_x, CO, VOC and HC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- 12) Fugitive emissions in the work zone environment, product, raw materials and storage areas shall be regularly monitored. The emissions shall conform to the limits imposed by the UKPCB/Central Pollution Control Board. Dust / Powder from the formulation process shall be collected by dust extractor.
- 13) The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storages and Import of Hazardous Chemicals Rules, 1989, as amended from time to time. Authorization from the UKPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.
- 14) The DG sets shall use Low Sulphur Diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.
- 15) The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels as per CPCB standards.
- 16) All liquid raw materials shall be stored in storage tanks and drums. Closed handling systems for chemicals and solvents shall be provided. Magnetic seals shall be provided for pumps/agitators for reactors for reductions of fugitive emissions.
- 17) The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours.

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- **18)** All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time
- 19) Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- 20) Training shall be imparted to all employees on safety and health aspects of handling of chemicals. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.
- 21) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- 22) The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.
- 23) Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles.
- 24) Energy consumption measures like installation of LED/TFL for the external lighting area shall be ensured. The used LED/TFL shall be properly collected and disposed off as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- 25) One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material shall be used during plantation in consultation with State Forest Department. The species should include criterion of fruit bearing and fast growth.
- 26) Solar panel/energy should be encouraged/installed in the premises.
- 27) The project proponent shall undertake in eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- 28) The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.
- 29) The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data to this Authority and Integrated regional office of MoEF&CC, Govt of India at Dehradun.

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Terms of Reference (ToR)

Terms of Reference (TOR) for preparation of Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) for "Mining of Minerals" as per the EIA Notification, 2006 has been devised to improve the quality of the reports and facilitate decision-making transparent and easy. TOR will help the project proponents to prepare report with relevant project specific data and easily interpretable information. TOR for mining of minerals is expected to cover all environmental related features.

Mining of minerals plays a positive role in the process of country's economic development. In addition to the contribution towards economic growth, mining can also be a major source of degradation of physical as well as social environment, unless it is properly managed. Environmental impacts can arise during all activities of the mining process. Minimizing the damage due to mining operations depends on sound environmental practices in a framework of balanced environmental legislation. The potential adverse effects of mining activities include air pollution, surface and groundwater pollution, noise and vibration, damage to local ecology, natural topography and drainage, depletion of water resources etc. All these environmental components are required to be considered while selecting a proper methodology of mining, mitigation measures to reduce pollution load, conservation of natural resources etc.

The projects of mining of minerals as stated in the schedule require prior environment clearance under the EIA notification, 2006. Category 'A' Projects are handled in the MoEF&CC and Category 'B' projects are being handled by the respective State Environment Impact Assessment Authorities (SEIAAs) notified by MoEF&CC and following the procedure prescribed under the EIA Notification, 2006. As per this Notification, as amended, the projects of mining of minerals with mining lease area equal to or greater than 50 hectare are to be handled at the level of the MoEF&CC for grant of EC. Such projects with mining lease area less than 50 hectare are to be handled by the respective State Environment Impact Assessment Authority (SEIAA).

1(a): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR NON-COAL MINING PROJECTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

- 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.
- 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. The above reports should also match with the latest District Survey Report (DSR) notification dated 25th July, 2018. Data obtained from this DSR should be incorporated in the EIA Report for Impact Identification, Interpretation, Prediction, Carrying Capacity and Mitigation.
- 4) 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).
- 5) 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.
- 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.

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- 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) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 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 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).
- 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

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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 predominant 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.

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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.

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.

Note: 1) The study area shall comprise of radial distance of 10 KM from the project site and the study period is three months. The impact on each of the above parameter as a result of mining shall be assessed through appropriate modeling and prediction methods considering base line data.

District Survey Report should be submitted as per the latest notification issued by MoEF&CC.