

**GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IMPACT ASSESSMENT DIVISION)
NON-COAL MINING SECTOR**

SUMMARY RECORD OF 5th MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The **Fifth meeting** of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during **April 25-26, 2016**. The list of participants is annexed.

After welcoming the Committee Members, discussion on each of the Agenda Items was taken up ad-seriatim.

Item No. 1:

(1.1). Circulation of the Minutes of the 1st EAC Meeting

The Minutes of the 4th Meeting of EAC held during March 21-22, 2016 were circulated.

Item No. 2:

Day 1: 25TH APRIL, 2016 (MONDAY)

(2.1). J-11015/392/2012-IA.II(M) Limestone Mine with production capacity 4.0 MTPA of M/s UltraTech Cement Ltd at Villages Moharenga, Math, Murra and Kharora, Tehsil Tilda, District Raipur, Chhattisgarh (689.048 ha)

M/s. UltraTech Cement Ltd. (UTCL) has proposed a new Limestone Mine (M.L. Area: 689.048 ha) with Production Capacity of 4.0 MTPA Limestone at Villages: Moharenga, Math, Murra and Kharora, Tehsil- Tilda, District - Raipur (Chhattisgarh). The Latitude and Longitude of the site falls between - 21°23'44.299" N to 21°25' 57.367" N and 81°52' 09.521" E to 81°54' 05.610" E respectively. Study area falls within the Survey of India Toposheet No. 64 G/14 & 64 G/15. UTCL has proposed limestone production of 4.0 MTPA and waste of 1.63 MTPA with total ROM of 5.63 MTPA.

The total lease area is 689.048 ha. Out of which 658.452 ha area is private land and 30.596 ha is Government land. Letter of Intent (LOI) was granted over an area of 689.048 ha by Mineral Resources Department, Govt. of Chhattisgarh in favor of M/s. UltraTech Cement Ltd. (Unit: Hirni Cement Works) vide letter No. F 2-59/2009/12 dated 19th April 2012 over an area of 724.588 ha which was revised to 689.08 ha vide letter dated 10.11.2014.

Application for Environmental Clearance was submitted to MoEF&CC on 5th October, 2012. Project was considered in 4th meeting held during 20th-22nd February, 2013 for ToR. The ToR letter was issued by MoEF&CC, New Delhi vide letter no.-J-11015/ 392/ 2012-IA.II (M) dated 28th March, 2013. Letter for extension of validity of ToR has also been obtained from MoEF&CC vide even no. letter dated 28th May, 2015.

Mining Plan with Progressive Mine Closure Plan for the proposed limestone mine has been approved by IBM vide letter no.- 314(3)/2012-MCCM(CZ)/MP-33 dated 20th April, 2015. Mining will be carried out by Fully Mechanized Opencast method, utilizing Heavy Earth Moving Equipment's (HEME) in conjunction with deep hole blasting and with the use of millisecond delay detonators. At the conceptual stage, about 484.124 ha of area will be excavated of which an area of about 265.023 ha will be reclaimed by backfilling and remaining 219.101 ha area will be converted to water reservoir. Sub-grade mineral is proposed to be stock at an area of 33.516 ha of dump in view of the conservation of mineral in future. Total plantation / green belt will be carried out on 94.563 ha (16.149 ha un-worked and 78.414 ha backfilled) area. Blasted material will be loaded by excavator in rear dumper of 55 tonnes capacities (12 Nos.) for transportation upto crusher present in the lease area. The crushed material will be transported via covered conveyor belt from crusher to plant site which is at a distance of 15.5 km.

It was reported by the PP that no National Parks/ Wildlife Sanctuaries/ Biosphere Reserves/ Wildlife Corridors/ Tiger/ Elephant Reserves/ Reserved forest are located within the 10 km study area of the mine lease. Authenticated location map has been received from the Forest Department. Moharenga and Khaulidabri Protected Forests are present within 10 km radius. No Schedule- I fauna was recorded in the study area. Authenticated list of Flora and Fauna has been obtained from Forest Department vide letter no. V.T.A./ S/ 3164 dated 19.08.2013.

Baseline data was collected for the Summer Season (March to May, 2013). Analytical results of the study are found within permissible limits. Public Hearing was conducted on 18st September, 2015 near Village: Murra,

Tehsil: Tilda, District: Raipur, Chhattisgarh. The Public Hearing was presided over by Shri D. Singh (ADM, District Raipur). The issues raised during Public Hearing includes that of employment, water conservation measures, protection measures for Pindraon tank, CSR and control measures for air, water and noise pollution in Final EIA/ EMP report. The Action Plan with Budgetary provisions for the same has been prepared and incorporated in Final EIA/ EMP report.

Total Capital cost of the Project is Rs. 106.0 Crores/- Capital Cost for implementing EMP is Rs. 4 Crores/- & Recurring cost for EMP is Rs 30 Lakhs/ annum. No litigation is pending against the project.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance. The Committee **recommended additional specific conditions** viz.

- (i) The Project Authority shall adopt Best Mining Practice for the given mining conditions. In the mining area, adequate number of check dams, retaining walls/structures, garland drains and settling ponds should be provided to arrest the wash-off with rain water in catchment area.
- (ii) The natural water bodies and or streams which are flowing in and around the village should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Authorities have to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug well located in village should be incorporated to ascertain the impact of mining over ground water table.
- (iii) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. The Project Proponents (PPs) must ensure that the biological clock of the villagers is not disturbed by orienting the floodlights/ masks away from the villages and keeping the noise levels well within the prescribed limits for day/night hours.
- (iv) The Project Authority shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing. In this context, Project Authority should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun should be

scrupulously guarded against felling, lest the cattle abandon the grazing ground or return home by noon.

- (v) Where ever blasting is undertaken as part of mining activity, the Project Authority shall carry out vibration studies well before approaching any such habitats or other buildings to evaluate the zone of influence and impact of blasting on the neighbourhood. Within 500 meters of such sites vulnerable to blasting vibrations, avoidance of use of explosives and adoption of alternative means of mineral extraction, such as ripper/dozer combination/rock breakers/ surface miners etc. should be seriously considered and practiced wherever practicable. A provision for monitoring of each blast should be made so that the impact of blasting on nearby habitation and dwelling units could be ascertained. The covenant of lease deed under Rule 31 of MCR 1960 provides that no mining operations shall be carried out within 50 meters of public works such as public roads and buildings or inhabited sites except with the prior permission from the Competent Authority.
- (vi) Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. Crusher and material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust.
- (vii) The Project Authority shall ensure that the productivity of agricultural crops is not affected due to mining operations. Crop Liability Insurance Policy has to be taken by the PP as a precaution to compensate for any crop loss. The impact zone shall be 5km from the boundary of mine lease area for such insurance policy. In case, several mines are located in a cluster, the Associations of owners of the cluster mines, formed inter-alia, to sub-serve such an objective, shall take responsibility for securing such Crop Liability Policy.
- (viii) In case any village is located within the mining leasehold which is not likely to be affected due to mining activities during the life of mine, the Expert Appraisal Committee (EAC) should consider the proposal of Environmental Clearance (EC) for reduced mining area. The Mining lease may be executed for the area for which EC is accorded. The mining plan may also be accordingly revised and required stipulations under the MMDR Act, 1957 and MCR, 1960 met.
- (ix) Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The PP shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road

network without appropriately increasing the carrying capacity of such roads.

- (x) Likewise, alteration or re-routing of foot paths, pagdandies, cart roads, and village infrastructure/public utilities or roads (for purposes of land acquisition for mining) shall be avoided to the extent possible and in case such acquisition is inevitable, alternative arrangements shall be made first and then only the area acquired. In these types of cases, Inspection Reports by site visit by experts may be insisted upon which should be done through reputed Institutes.
- (xi) As per the Company Act, the CSR cost should be 2% of average net profit of last three years. The CSR expenses should be as per the company Act/Rule for the Socio Economic Development of the neighborhood Habitats could also be planned and executed by the PPs more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers.
- (xii) "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.

(2.2). J-11011/18/2015-IA II (I) Mining of Sand (Minor Mineral) from Mines/Quarries of 'Asadpur Sand Unit' with Production Capacity of 18,00,000 TPA (ROM) of Sand by M/s Zelkova Buildcon Private Limited, located at Village –Asadpur, Tehsil –Sonipat, Distt.– Sonipat, Haryana (56.01ha)

The Proposal was **deferred** as the Project Proponent did not attend the meeting.

(2.3). J-11015/04/2015-IA-II(M) Mining of Sand (Minor Mineral) from Mines/Quarries of 'Barauli - 4 Sand Unit' with Production Capacity of 18,00,000 TPA (ROM) of Sand by M/s Charites, Real Estate Pvt. Ltd., located at Village –Barauli, Tehsil –Sonipat, Distt. –Sonipat, Haryana (52.50ha)

The Proposal was **deferred** as the Project Proponent did not attend the meeting.

(2.4). J-11015/494/2014-IA.II(M) Meghare Bauxite Mine of M/s. Manohar V. Daryanani located at Village Meghare, Taluka Shrivardhan, District Rigad Maharashtra (55.06ha)(0.075 MTPA to 0.130MTPA)

The proposal is of M/s Manohar V. Daryanani (M.L. Area – 55.06 ha) with Expansion in Bauxite Production Capacity from 0.075 MTPA to 0.130 MTPA. The Latitude and Longitude of the site falls between 18° 06' 03.3" N to 18° 06' 55.8" N and 73° 01' 30.7" E to 73° 01' 52.8" E respectively. Study area falls within the Survey of India Toposheet No. 47 E/14, 47 B/16 (restricted).

Application for Environmental Clearance was submitted to MoEF&CC on 25th November, 2014. The presentation (for TOR) was held before EAC (Non-Coal Mining) on 16th Jan, 2015 and TOR letter has been issued vide letter no. J-11015/494/2014-IA. II (M) dated 13th February, 2015. EIA/EMP Report was submitted online on 17th Feb, 2016.

The MoEF&CC earlier accorded the Environmental Clearance for this mine for production capacity 0.075 MTPA vide letter no. J-11015/156/2007-IA.II (M) dated 24th July, 2007.

This is an existing Bauxite mining project. Mining Scheme with Progressive Mine Closure Plan has been approved by IBM vide letter no. RGH/BX/MPLN-866/NGP dated 19.12.2013. Mining will be carried out by semi-mechanized opencast method, by use of Heavy Earth Moving Machinery (HEMM) and deep hole drilling & blasting with large dia holes. Topography does not allow for water reservoir. At the conceptual stage, out of the total mining lease area (i.e. 55.06 ha), total mined-out area will be 9.18 ha which will be reclaimed by afforestation. The Bauxite produced from the mine is being/ will be transported by dumpers to the nearby port and will be used in Aluminum Industry.

Total mining lease area is 55.06 ha which was granted in favor of Manohar V.Daryanani by Industries, Energy & Labour Department, Mantralaya, Mumbai, Government of Maharashtra. Mining Lease agreement & registration was done vide letter no- MO/KAT-1/B.M. LEASE/DEED/08 dated 11.03.2008 for a period of 30 years.

No National Parks/Wildlife Sanctuaries/Biosphere Reserves/ Wildlife Corridors/ Tiger/ Elephant Reserves are located within the 10 km study area of the mining lease. No forest land is involved in the mining lease area. Two schedule-I species namely Monitor Lizard & Python are found in the study area. The conservation plan for the same was submitted with final EIA/EMP Report.

Baseline data was collected for the Summer Season (March to May, 2015). The analytical results of samples collected for all parameters were found within permissible limits. Public Hearing was conducted on 27th October, 2015 at Project Site of Meghare Bauxite Mine at Meghare Vibagh Kunbi Samaj 16 Goan Committee Samaj Mandir, Deepak Wadi, Meghare Village, Taluka Shriwardhan, District Raigad. The Public Hearing was presided over by Shri Satish Bagal, Additional District Magistrate and Resident Deputy Collector, Raigad (Maharashtra). The issues raised during Public Hearing were also considered and discussed during the meeting, which inter-alia, included issues regarding road, health, drinking water and basic needs of village. Reply has been given for points raised in Public hearing.

Total cost of the Project is Rs. 1.5 Crore/-, Capital Cost for Environmental Protection Measures is Rs.10 Lakhs/- & Recurring cost is Rs.13 Lakhs/ annum.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance. The Committee **recommended additional specific conditions** viz.

- (i) Mining operations will be carried out with the help of ripper dozer and rock breaker to loosen the strata. Drilling and blasting will not be done at the mine site, however, if blasting will have to be done in future, the controlled blasting will be done and Blast Vibration Study be carried & submitted to MoEF &CC.
- (ii) Afforestation will be done in accordance with the EIA/EMP report. Native species of Mango, Jack fruit, Koham, Emblica and Kaju will be planted at the mine site. Apart from that tall growing species like Cajurina, Acacia, Ponjamia, Kokam will be planted which will act as wind barrier & arrest dust particles to be carried to nearby areas.
- (iii) Monitoring of particulate matter i.e. PM_{10} & $PM_{2.5}$ will be carried out near the schools in the villages on transport route on regular basis (Season wise) and report will be submitted to regulatory agencies like MoEF&CC, MPCB etc.
- (iv) The frequency of sprinkling water shall be increased (4 times a day) on the transportation route in order to suppress dust emission.
- (v) The seasonal water monitoring for any chemical pollution due to mining operations in nearby areas shall be done and report shall be submitted to MoEF&CC & MPCB.
- (vi) Regular repair and maintenance of Tar road shall be undertaken and potholes repair shall be regularly done.

- (vii) The speed limit of ore carrying trucks shall be limited to 30 km/hr during transportation of material passing through the villages and the same shall be supervised by management.
- (viii) The action plan and the commitments made in the Public Hearing shall be strictly complied with.

(2.5). J-11015/33/2013-IA.II(M) Gold Mining of M/s Hutti Gold Mines Company Limited with production capacity of 250 TPD Company Limited at Guddada Rangavvana Halli located at Survey No. 93.94 & 371 of Gudda Rangavana halli Village, Chitradurga District, Karnataka (62.72 ha.)

M/s. Hutti Gold Mines Company Limited (HGML) is a Government of Karnataka Undertaking. HGML has applied for mining lease over an extent of 62.72 Ha. (155 Acres) at Sy No. 93, 94 and 371 in Guddada RangavanaHalli Village in Chitradurga Taluk& District, Karnataka for mining of Gold, Silver and Copper. The Latitude and Longitude of the site falls between 14° 16' 50"N to 14° 17' 26"N and 76° 24' 10"E to 76° 24' 56"E. Study area falls within the Survey of India Toposheet No. D43K7, D43K8, D43K11& D43K12.

The proposal was considered by the Expert Appraisal Committee in its 6th EAC Meeting held during April 16-18, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF&CC vide letter No. J-11015/33/2013-IA-II (M) dated 04.09.2014. The proponent submitted Final EIA/EMP to the Ministry on 04th March, 2016 for seeking environmental Clearance.

The Department of Mines & Geology, Government of Karnataka has given LOI vide letter No: DMG: RPS: 197AML 1994, 2012-13 dated, 19th April 2012. The mine lease area is 62.72 ha no forest area is involved. Mine site area is connected with NH 13 with a cart road which is at a distance of around 2 Km (W), Chitradurga Railway station is at a distance of around 10 Km (SSW) and Chitradurga town is at around 8 Km (S). The capacity of the proposed project is to produce 250 TPD of gold ore by underground mining and the total cost of the project is Rs. 9.46 Crores.

The total mine area consists of mainly two reefs east reef and west reef. The total mineable reserves in this area are 3,44,001 tonnes. It is proposed to produce 97,009 tonnes of gold (Au) ore during the first five-year plan period and later to that balance 2,46,992 tonnes shall be mined in remaining nine years. The life of the mine is 14 years. The entire mining lease area falls in revenue - agriculture land. As a part of open scrub there are trees and bushes are found in the north eastern side of the lease area.

The blasted ore in the underground mine is transported to main underground bin by means of granby cars. The material dumped in the ore bins are hoisted up by the means of skips. Lorry transport is employed for transporting of ore from the main surface bin to the crusher plant at Ingaldhal Copper Mines, Chitradurga, which is about 18km away from the mine area.

Total water requirement for the mine will be about 26KLD for drilling and blasting, domestic usage and firefighting and for green belt is around 7KLD, which will be met through the bore well during initial stage of mining and later the mine seepage water will be used after appropriate treatment. Wastewater generated from the machines and workshops will be treated in O&G trap and domestic effluents will be treated in STP/Soak pit. Power required for mining activities is expected to be 500 kW. The power will be supplied from Karnataka Electricity Board. Diesel generator of 185 kVA capacity will be provided as a backup during power failure.

During the course of mining, around 4440 tonnes of waste rock shall be generated during the five years of the mining plan period. Out of which 80% will be utilized for construction of roads and 20% of quantity shall be backfilled in the stopes and the rest will be hoisted to the surface and will be used as road ballasts.

Baseline data was collected for the winter season (December 2014 to February, 2015). The analytical results of samples collected for all parameters were found within permissible limits. The public hearing for the Proposed Project was conducted on 16.11.2015 at 11:00 am at Samudayabhavana, Guddada Rangavvanahalli, Chitradurga Tq & District. The Public hearing was presided over by Sh. Shri P.N. Ravindra, Additional Deputy Commissioner District-Chitradurga. The issues raised during the Public Hearing were discussed during the EAC meeting which inter alia included issues regarding road, health, drinking water and blasting activity. The fund provision made towards direct cost and revenue costs for implementation and monitoring of Environment Management Plan in the proposed mine is Rs.35.4 Lakhs. An amount of Rs.9 lakhs which is around 1% of capital cost of the project (Rs.9.46 Crores) will be allocated towards CSR activities.

The Committee deliberated at length the information submitted by PP and **deferred** the Proposal and sought the following information/clarifications for further consideration:-

- (i) The NOC from the forest department the no forest land is involved

- in the mine lease.
- (ii) The approved mine plan of the lease area with a letter from IBM clearly indicating the changes in draft and approved mine plan.
 - (iii) The time bound action plan with budgetary provisions on issues raised during public hearing.
 - (iv) A report on cyanide toxicity with particular reference to the occupational health.
 - (v) The conservation plan of the wildlife species reported in the study area.
 - (vi) The list of species proposed to be planted as the green belt shall be revised, the list shall include the indigenous and fruit bearing trees.

RECONSIDERATION OF ENVIRONMENT CLEARANCE

(2.6). J-11015/245/2012-IA.II (M) Kanvara Sand/Moram Mining Project of M/s Sri Somesh Bharadwaj for renewal of mining lease of Sand/Moram extraction of 7 lacs TPA (122.81 ha) at village Kanvara, Bhuredi & Chilehata, District Banda, Uttar Pradesh.

The proposal of M/s Somesh Bharadwaj, is for mining of Sand (Minor Mineral) with proposed production capacity of 6, 00,000 TPA (ROM). The mine lease area is located at Village- Kanvara, Bhuredi & Chilehata, District: Banda, Uttar Pradesh in the mine lease area of 122.81 ha. The mine lease area lies on river bed of River Ken. The lease area lies on River Ken. The co-ordinates of Mine Lease area are- Latitude: 25° 29'11.48" N to 25° 30'30.90" N, Longitude: 80° 18'40.03" E to 80°17'30.31" E on Survey of India toposheet numbers 63C06, 63C07 (site), 63C02 & 63C03. The Project is located in Seismic zone-II.

The proposal was considered by the Expert Appraisal Committee in its meeting held on 21st- 23rd November, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by EAC vide letter no. J-11015/245/2012-IA.II (M) dated 19th August, 2014. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance on 22nd January 2016.

The mine lease area is 122.81 ha which is on River Ken. The Lease is granted for a period of 3 Years from 24-12-2009 to 23-12-2012 over an area of 122.81 ha. The Proponent has also applied for Renewal of Mine Lease on 15-05-2012. The Mining Plan is approved by Director, Geology and Mining, Uttar Pradesh with vide letter no.1578/MP/15 dated 22-12-2015.

Method of Mining is manual opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and

not less than two meter from the ground water level of the River Chanel whichever is reached earlier. Proponent informed that 80.42 ha area will be used for excavation. The site elevation is 104m AMSL. The Ground water depth is 5.75 -26.95 m bgl in pre-monsoon season and 4.4 - 22.5 m bgl in post-monsoon season. The total water requirement is 5.91 KLD including water demand for domestic purpose and dust suppression which shall be met by tanker supply, No Objection Certificate from Gram Panchayat has been obtained in this regard. The working is proposed on higher elevations; no ground water interception during the mining operations is envisaged.

Project Proponent reported that Mining will be done up to a maximum depth of 3 m in layers of 1 m each which will avoid ponding effect. Mining will be confined within central 3/4th width of the river. It will be done leaving a safety zone of total of 10% of the width of the river from the banks for bank protection. Excavated area will be replenished naturally due to sediment inflow from the catchment area.

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that no. of trucks will be deployed 140 per day (20 tonnes capacity each) which increase 1260 PCUs per day (Considering both loaded and empty trucks) and the level of service (LOS) is "A" which is 'Excellent' in all the cases. Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). The baseline data was generated for the period during October 2014 to November 2014. All the parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the dry part of the River bed and there is no establishment on the site.

The Public Hearing for the proposed Project was conducted on 01.08.2015 at 3:00 pm at Village- Chيلهata, District –Banda, Uttar Pradesh. The Public hearing was chaired by Shri D.S Pandey, ADM, Banda, Uttar Pradesh. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia included that priority to local people in employment, effective implementation of measures to control dust pollution, treatment responsibilities in case of injury. Project Proponent has made the Action Plan with budgetary provisions.

The cost of the Project is Rs. 60,00,000. The Proponent has earmarked Rs. 26.50 Lakhs (Rs. 10Lakhs as Capital Cost & Rs. 16.5 Lakhs as Recurring Cost) towards Environmental Protection Measures. Proponent informed that Rs. 3 lakhs per annum have been earmarked towards CSR activities for next 3 years of mining operation. There is no litigation pending against the case.

The proposal was considered by the EAC in its meeting held during February 23-25, 2016 the Committee deliberated at length the information submitted by PP and deferred the proposal seeking the following information/clarifications for further consideration:-

- (i) The revised EIA report along with mine plan shall be uploaded on the MoEFCC website.
- (ii) A detailed replenishment study shall be submitted.
- (iii) The feasibility of manual mining in achieving the production of 7 lakh TPA and its environmental implications.

On submission of information proposal was considered in the present meeting. It was informed that revised EIA report and mine plan has been uploaded on the website. Project Proponent submitted a Replenishment Study analysis based on Dandy Bolton's Replenishment Model and also mentioned that a proposal of replenishment study is under consideration which is to be carried out by FRI Dehradun & will be submitted in 6 monthly compliances. According to approved mine plan, the Total Reserve is 66, 34,348.2 tonnes for 3 years and mineable reserve is 56, 33,935.2 tonnes for 3 years. The detailed analysis on the feasibility of manual mining in achieving the production of 7 lakh TPA was submitted.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for **Mining of Mineral Sand/Morum extraction of 7 lacs TPA (ROM) over the mine lease area of 122.81 ha at village Kanwara, Bhuredi & Chilehata, District Banda, Uttar Pradesh.**

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall implement the Disaster Management Plan. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels; (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months

and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (v) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vii) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.7). J-11015/338/2013-IA.II (M) Nandini Khundini Limestone Mine of M/s ACC Limited located at Village Nandini Kundini, Tehsil Dhamdha, District – Durg, Chhattisgarh (53.57 ha).

The Jamul Cement Works of M/s ACC Limited proposed to increase the Jamul Cement Plant production Clinker to 3.0 MTPA and Cement to 3.0 MTPA. To meet the additional requirement of limestone, Nandini Khundini limestone mines, lease area 53.57 ha is proposed for commencement of mining operation by increasing the production capacity from 0.15 MTPA to 1.03 MTPA.

The proposal was considered by the Expert Appraisal Committee in its EAC Meeting held during 12th November, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF&CC vide letter No. J-11015/338/2013-IA.II (M) dated 09th January, 2014. Earlier EC was issued for production capacity of 0.15 million TPA vide

letter No. J-11015/237/2009-IA.II (M) dated 10.03.2011. The compliance report was submitted by regional office, Nagpur vide letter no. 3-10/2011(Env)/1176 dated 05.10.2015 stating that mining operations have not yet started.

The terrain of the area is flat, the Durg railway station is located about 21 km from Nandini Khundini mine. The mine is well connected to NH-6, which passes through Bhilai town at about 20 km away. Nearest airport is at Raipur which is about 70 km from mine site.

The mine plan has been approved by Indian Bureau of Mines, Nagpur under MCDR, 1988 vide Letter No. 314(3)/2012-MCCM (CZ)/MP-45 Dated 04.10.2013 in the form of approved Mining plan & Mine Closure plan. The Mining lease of 53.57 ha area was granted on 5th February 2008 known as Nandini Khundini Limestone Mine. The area was partly mined out by SAIL during 21.7.1971 to 20.7.1991 period and then abandoned.

The mining will be carried out by open cast method of mining by Shovel Tipper combination and is mechanized. Drilling is done by deep hole track type drilling machine. Blasting is done by NONEL. Blasted material is loaded with hydraulic shovel and front end loaders into tippers and transported by 16 tons capacity tippers. General ground level in mining lease area, ultimate bottom level and ground water level is 280 m, 221 m and 254 m msl. The scheme of mining along with PMCP is approved by IBM for production enhancement. Overburden shall be stacked along the lease boundary. No explosive storage magazine, workshop, material storage shed, administrative building and diesel filling station will be established in Nandini-Khundini Mine. Facilities available at Patheriya-Iimestone mine will be used in Nandini Khundini mine also.

It was reported by the PP that there are no ecologically sensitive area and archaeologically important places within 10 km radius of the mine site. There is no protected or reserve forest present within the 10 km radius of the mine site. Sheonath River and Amner river area the main surface water bodies present in the study area. Sheonath River is located about 3.5 km west of the mine site. Amner River is located about 6.5 km in southwest direction. About 20 kl/day water will be required for the project. This water requirement would be met from existing rainwater harvesting pits located within the lease area.

Baseline data was generated during the period 1st March 2014 to 31st May 2014. 10 km area around the mines boundary was considered as study area. All the parameters for water and air quality were reported to be within

permissible limits. The public hearing for the Proposed Project was conducted on 19.03.2015 at 11:00 am at mine site in Village Nandini Khundini, Tehsil Dhamdha, District Durg, Chhattisgarh. The Public hearing was presided over by Shri. Sunil Jain, Additional District Magistrate, Durg District, Chhattisgarh. The issues raised during the public hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, village development activities and social development of village. The major concern of the villagers was that Drainage and Canals passing through mine lease may get affected, Mine lease area land is being used for Grazing, Funeral and the repairing of main road from Nandini Khundini, School will get affected by Blasting for the mines.

The estimated cost of the project is Rs. 15 crores. Project will create the direct employment for 32 people. It would also generate indirect employment.

The proposal of EC was considered by the Expert Appraisal Committee in its Meeting held during **February 23-25, 2016** wherein the Committee deliberated at length the information submitted by PP and decided to **defer** the Proposal and sought the following information/clarifications for further consideration:-

- (i) The complete EIA report along with mine plan shall be uploaded on the MoEFCC website.
- (ii) The Questionnaire needs to be submitted and uploaded on the website.
- (iii) The Action Plan along with budgetary provision on the issues raised during the Public Hearing shall be submitted.
- (iv) The major concern of the villagers was that Drainage and Canals passing through mine lease may get affected, Mine lease area land is being used for Grazing, Funeral and the repairing of Main Road from Nandini Khundini and a school will get affected by Blasting. A detailed report with measures to be adopted in this regard shall be submitted.
- (v) The list of species selected for plantation in green belt includes the invasive alien species. A revised list of fruit bearing/medicinal native species beneficial to the locals shall be submitted. The list shall also clearly mention the benefits of each species to the locals.
- (vi) The copy of approved mine plan/scheme shall be submitted.

On submission of information proposal was considered in the present meeting. It was informed that the revised EIA report, questionnaire along with approved Mining Plan has been uploaded on the website. The action plan was also submitted, regarding the grazing land it was informed by Proponent that if village panchayat provides barren/waste land ACC will provide support to village panchayat in development of grazing land. The revised list of species selected for green belt was also submitted.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance. The Committee **recommended additional specific conditions** viz.

- (i) As PP had informed that if village panchayat provides barren/waste land ACC will provide support to village panchayat in development of grazing land is not agreeable. The Project Authority shall make necessary alternative arrangements in consultation with the State Government to provide sufficient alternate areas for livestock grazing. In this context, Project Authority should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun should be scrupulously guarded against felling, lest the cattle abandon the grazing ground or return home by noon.
- (ii) The Project Authority shall make necessary alternative arrangements for providing the funeral ground etc. as demanded during public hearing.
- (iii) The Project Authority shall adopt Best Mining Practice for the given mining conditions. In the mining area, adequate number of check dams, retaining walls/structures, garland drains and settling ponds should be provided to arrest the wash-off with rain water in catchment area.
- (iv) The natural water bodies and or streams which are flowing in and around the village should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Authorities have to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug well located in village should be incorporated to ascertain the impact of mining over ground water table.
- (v) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. The Project Proponents (PPs) must ensure that the biological clock of the villagers is not disturbed by orienting the floodlights/masks away from the villages and keeping the noise levels well within the prescribed limits for day/night hours.

- (vi) The Project Authority shall make necessary alternative arrangements, where required, in consultation with the State Government to provide sufficient alternate areas for livestock grazing. In this context, Project Authority should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun should be scrupulously guarded against felling, lest the cattle abandon the grazing ground or return home by noon.
- (vii) Where ever blasting is undertaken as part of mining activity, the Project Authority shall carry out vibration studies well before approaching any such habitats or other buildings to evaluate the zone of influence and impact of blasting on the neighbourhood. Within 500 meters of such sites vulnerable to blasting vibrations, avoidance of use of explosives and adoption of alternative means of mineral extraction, such as ripper/dozer combination/rock breakers/ surface miners etc. should be seriously considered and practiced wherever practicable. A provision for monitoring of each blast should be made so that the impact of blasting on nearby habitation and dwelling units could be ascertained. The covenant of lease deed under Rule 31 of MCR 1960 provides that no mining operations shall be carried out within 50 meters of public works such as public roads and buildings or inhabited sites except with the prior permission from the Competent Authority.
- (viii) Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. Crusher and material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust.
- (ix) The Project Authority shall ensure that the productivity of agricultural crops is not affected due to mining operations. Crop Liability Insurance Policy has to be taken by the PP as a precaution to compensate for any crop loss. The impact zone shall be 5km from the boundary of mine lease area for such insurance policy. In case, several mines are located in a cluster, the Associations of owners of the cluster mines, formed inter-alia, to sub-serve such an objective, shall take responsibility for securing such Crop Liability Policy.
- (x) In case any village is located within the mining leasehold which is not likely to be affected due to mining activities during the life of mine, the Expert Appraisal Committee (EAC) should consider the proposal of Environmental Clearance (EC) for reduced mining area. The Mining lease may be executed for the area for which EC is accorded. The mining plan may also be accordingly revised and required stipulations under the MMDR Act, 1957 and MCR, 1960 met.

- (xi) Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The PP shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.
- (xii) Likewise, alteration or re-routing of foot paths, pagdandies, cart roads, and village infrastructure/public utilities or roads (for purposes of land acquisition for mining) shall be avoided to the extent possible and in case such acquisition is inevitable, alternative arrangements shall be made first and then only the area acquired. In these types of cases, Inspection Reports by site visit by experts may be insisted upon which should be done through reputed Institutes.
- (xiii) As per the Company Act, the CSR cost should be 2% of average net profit of last three years. The CSR expenses should be as per the company Act/Rule for the Socio Economic Development of the neighborhood Habitats could also be planned and executed by the PPs more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers.
- (xiv) "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.

(2.8). J-11015/156/2013-IA.II (M) Kalwar-Nagur Iron Ore Mine of M/s Steel Authority of India Ltd. over an area of 938.059ha with capacity 1.0 MTPA located at village Kalwar&Nagur, Taluk Bhanupratappur, Kanker District of Chhattisgarh State

The Proposal is for Opening of a new mines i.e. Kalwar-Nagur Iron Ore Mine of Bhilai Steel Plant (BSP) of M/s Steel Authority of India Ltd (SAIL) over an area of 938.059 ha with capacity 1.0 MTPA located at village Kalwar & Nagur, Taluk-Bhanupratappur, Kanker District of Chhattisgarh State. The entire Mining Lease area is in Reserve Forest. The mining lease was granted to Bhilai Steel Plant on 01.04.1975 for 30 year over an area of 938.059 ha. SAIL has applied for Renewal of mining lease on 17.03.2004 i.e one year before the expiry of lease period as per rule. Presently as per Mines and

Minerals (Development and Regulation) Amendment Act, 2015, the 12th January, 2015 for Government Companies the lease period is extended for 50 years from original grant of lease i.e up to 31.03.2025, letter from state authority obtained on 14.03.2016. The deposit is located on the Toposheet Nos. 64 D/15 and 64 H/3 between longitude 80°56'44 E 81°00'48" E and between latitude 20°25'00" N to 20°27'31" N.

The TORs was issued by MoEF&CC on 13.04.2007 and after conducting EIA/EMP study & Public Hearing on 24.02.2012. The EIA report was submitted to MOEF&CC on 16.07.2012. The proposal was put in the 8th meeting of EAC on 28th June 2013, while considering the proposal the Committee suggested applying to Ministry for reconsideration of the validity of TORs as it was 4 years old & asked to generate one month base line data. On application for validity of TORs & submission of revised report, the proposal was put before 10th EAC meeting held during August 21st -23rd, 2013. The EAC considered to granting fresh TOR which was issued vide No. J-11015/156/2013-IA.II (M) Dated 30.12.2013& it was requested to re-conduct Public Hearing.

The proposal is for opening of new mine with a capacity of 1 MTPA. The entire Mining Lease area of 938.059 ha is in Reserve forest at Kalwar and Nagur villages, Bhanuprathappur taluk, Kanker district, Chhattisgarh. It is at a distance of 111 km from Durg railway station. The site is accessible through road and Howrah-Bombay broad gauge line of S-E Central Railway passing through Bhilai. Rail network is also available within about 25 m from the proposed plant site. Out of 938.059 ha of mining lease area only 17 ha land is proposed to carry out the mining activities. The Forestry Clearance is granted by Ministry over an area of 17 ha vide No. F No. 8-3/1990-FC (Vol-1) New Delhi Dated: 07.01.2008. The breakup of land uses are (1) Area to be excavated- 10.570 Ha, (2) Storage for top soil- 0.200 Ha, (3) Overburden / Dumps-0.530 Ha, (4) Infrastructure (Workshop, Administrative Building & CSP)-0.500 Ha, (5) Roads- 0.200 Ha, (6) Green Belt-5.00 Ha, (7) Undisturbed natural forest land-921.059 Ha.

The Mining Plan of Kalwar - Nagur Iron Ore Mining Lease has been approved by IBM, Nagpur vide letter No. 314(3)/2005-MCCM (CZ)/MP-36 Nagpur, dated 22.03.2007. The mining lease area is 938.059 ha. The highest RL of the block area is 720 mRL and that of lowest is 630. The mine will be worked by mechanized method with shovel tipper/dumper combination, with deep hole drilling. The drilling in overburden and ore will be carried out by drills capable of drilling 150 mm, in order to reduce the oversize boulders generated during the primary blasting, secondary blasting will be practiced. No reject sub-grade ore will be generated at the mine as

the entire ROM ore will be sent for processing. The overburden will also be loaded by 3.0-3.5 m³ bucket capacity shovel in to the 25-30 T tippers and will be stacked at the non-mineralized ground earmarked for waste dump at the northern part of the mining block. The top soil will be used in afforestation area i.e. development of green belt and waste will be used for back filling of mined out benches.

Water will be required for domestic, sprinkling & afforestation purpose only. The consumption of water will be 50 KLD. The requirement of water will be fulfilled from captive "Boridih Dam". The proposed mining activities will be conducted at the hill top; hence there will be no ground water intersection.

It was reported by the PP that there is no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves/Protected area/ Critically Polluted Areas (existing as well as proposed) exist within 10 KM Radius. As per base line data & field study four schedule -I species found in the buffer zone for which the wildlife conservation plan approved by CWLW, Chhattisgarh vide letter: क्रमांक/ब.प्रा/प्रबंध-326/16/844 , रायपुर, दिनांक 21/03/2016. The financial provision for Wildlife conservation plan (10years) of Kalwar-Nagur mining lease as approved by Chief Wildlife Warden, Chhattisgarh is Rs. 514.00 Lakhs.

The baseline data were collected by consultant M/s ABC Techno Labs India Private Limited, Chennai during summer season (March-May'2014) & the Public Hearing was conducted on 20.06.2015. The final EIA/EMP report was submitted to MoEF vide letter no. BSP/MHQ/GM (Mines-Rowghat)/2015/1601, dated 23rd December, 2015. All the parameters for water and air quality were reported to be within permissible limits.

The Public Hearing for the proposed project was conducted at "Durgu-Kondol" on 20.06.2015. The Public Hearing was presided over by Shri M.L. Sirdary, ADM-Kanker district of Chhattisgarh state. The issue raised during public hearing were considered and discussed in details during the meeting, which inter-alia included that there will not be any type of discharge of effluent from the proposed project area, preventing the slit flowing into the agricultural land, air pollution control measures to be adopted, raising of trees through development of green belt in & around proposed area and sprinkling of water etc. As per villager's requirement, it was informed by the competent authority of M/s SAIL that the local employment, health service, education and assistance in vocational training etc will be taken care of as far as possible. These have been incorporated in the EIA/EMP report with budgetary provisions of Rs. 230 lakhs is also envisaged. The estimated cost

of the project is 30.00Cr. It was reported that no court case relating to the proposed project is pending.

The proposal was considered in the EAC meeting held during February 23-25, 2016 wherein the Committee deliberated at length the information submitted by PP and sought the valid mine lease/ LOI of the project from state government. On submission of the letter from state authority issued vide no. 1114/khanij/M.L./2016 dated 14.03.2016 the proposal was considered in the present meeting.

The Committee deliberated at length the information submitted by PP and **recommended the Proposal for Environmental Clearance for Kalwar-Nagur Iron Ore Mine of M/s Steel Authority of India Ltd. over an area of 17 ha (forest land for which FC is available) with capacity 1.0 MTPA located at village Kalwar & Nagur, Taluk Bhanupratappur, Kanker District of Chhattisgarh State.**

AMENDMENT OF TOR

- (2.9). **J-11015/434/2012.IA.II(M) Mining of Pyrophyllite with proposed production capacity of 50,000 Tons/Annum of M/s Srinivasa Minerals located at Village Surabhu, Chakrayapet Mandal, District- YSR, Andhra Pradesh (60.705 ha)**

The mine lease area of 150.00 acres (or) 60.705 ha is located at survey no. 1095, Surabhi Village, Chakrayapet Mandal, YSR District, Andhra Pradesh. The mine lease area is located at survey no. 1095, Surabhi Village, Chakrayapet Mandal, YSR District, Andhra Pradesh. The mine lease area falls in survey of India Topo sheet no. 57 J/12 at the intersection 78° 32' 21.9" - 78° 33' 45.2" E longitude and 14° 13' 27.1 - 14° 13' 53.5" N latitude.

The TOR to the proposal was issued vide letter no. J-11015/434/2012-IA.II(M) dated 22.04.2013. The proposal is for extension of validity of TOR. Extension of validity of TOR was requested as the public hearing for the project has been delayed. The PP requested for extension of validity of TOR for outer limit of two years.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for outer limit of Two years i.e. from **22.04.2015 to 21.04.2017.**

(2.10).J-11015/405/2015-IA.II(M) Ramachandrapuram – Jirapalem Mineral Sands of M/s Andhra Pradesh Mineral Development Corporation Limited located at ramachandrapuram, tekkli, Narayana Gajapati Raju Puram, Kollibhimavaram, Kothchcheral, Mentada, Kotapalem and Jirupalem Villages Ranastalam – Mandal, Srikakulam –District, Andhra Pradesh – State (1284 ha)

The proposed Mining Lease area is located in the jurisdiction of villages Ramachandrapuram, Tekkali, Narayana Gajapati Raju puram, Kollibhimavaram, Kothchcheral, mentada, Kotapalem and Jirupalem villages in Ranastalam Mandal of Srikakulam district, Andhra Pradesh. The Project involves Production of Heavy Mineral Sand Mine, ROM of 8.0 MTPA and production of Heavy mineral concentrate. The lease area is 1284.0 ha approachable from Srikakulam and at a distance of 17 Km. Latitude: 18°05'22.071" to 18°05'27.789", 18°09'34.583 to 18°09'24.236" Longitude:83°40'.51.686 to 83°39'41.53" 83°49'58.817 to 83°48'16.634".

The Project involves mining of beach sand and separation of heavy minerals (Garnet, Sillimanite, Ilmenite, Leucoxene, and minor amount of Rutile Zircon and Monazite) and set-up an export-oriented and value added mining unit. The lease area is 1284.0 ha. The mining lease area forms part of a barren sandy stretch with an elevation of 1-20 m above the mean sea level. The proposed AML area involves forest land of 410.55 ha. The Mining operations shall exclude the human habitation in the village area by providing safe zone around the villages and roads.

The TOR to the project was issued on 12.01.2016. The proposal is for amendment of TOR, the PP had requested to exclude the forest area of 410.55 ha involved in the mine lease. The PP had made request as the Forest Clearance for the proposal would take time. The Committee deliberated at length the information submitted by PP and **deferred** the Proposal and sought the following information/clarifications for further consideration:-

- (i) The revised mine lease/ LOI of the project excluding the forest area from state government in this regard shall be furnished.

(2.11).J-11015/407/2015-IA.II(M) Kuppli-Koyyam-Dharmaram Mineral Stands Deposit of M/s Andhra Pradesh Mineral Development Corporation Limited located at Kuppilli, Koyyam, Dharmavaram, Bonthalakoduru Villages, Etcherla – Mandal, Srikakulam – District, Andhra Pradesh – State (1000 ha)

The Applied Mining Lease area is located in the jurisdiction of villages Kuppilli, Koyyam, Dharmavaram, Bonthalakoduru, Etcherla Mandal of Srikakulam district, Andhra Pradesh. The lease area is approachable from Srikakulam and at a distance of 20 Km. Latitude 18°09'43.51" to 18°10'02.49" & 18° 13'03.26" to 18°13'22.19 Longitude, 83°48'04.20" to 83°48'03.06" & 83°55'43.04" to 83°56'00.89". The Project involves production of Heavy Mineral Sand Mine, ROM of 2.0 MTPA and production of Heavy mineral concentrate is about 333TPH. The mining lease area forms part of a barren sandy stretch with an elevation of 1-20 m above the mean sea level.

The Project involved mining of beach sand and separation of heavy minerals (Garnet, Sillimanite, Ilmenite, Leucoxene, and minor amount of Rutile Zircon and Monazite) and set-up an export-oriented and value added mining unit. The mining will be carried out by dredging/open cast mechanized mining method & refilling will be done concurrently, wherein Run-of-Mine is mined with advanced environmental friendly technology. It was informed by the PP that 742.12 ha of the forest area is involved.

The TOR to the project was issued on 12.01.2016. The proposal is for amendment of TOR, the PP had requested to exclude the forest area of 742.12 ha involved in the mine lease. The PP had made request as the Forest Clearance for the proposal would take time. The Committee deliberated at length the information submitted by PP and **deferred** the Proposal and sought the following information/clarifications for further consideration:-

- (ii) The revised mine lease/ LOI of the project excluding the forest area from state government in this regard shall be furnished.

(2.12).J-11015/389/2013-IA.II(M) Stone Mine of M/s New Laxmi Granites located at Village Parsurampur, District – Gajapati of Odisha (49.922 ha).

The Parsurampur mining lease area over 49.922 hectares in village Parsurampur of Gajapati district in Odisha state was executed on 24.03.2005 for mining of decorative stone and registered on 30.03.2005 for a period of twenty (20) years in favour of M/s New Laxmi Granites. The Mining Lease Area can also be located in Survey of India Toposheet No. 74 B/1 (old) and E45G1 (New). It is bounded by the Latitude 18° 47'48" to 18° 48' 05" N and Longitude 84° 06' 07" to 84° 06' 32" E. As per the size as well as project activity of the proposed project, it comes under screening category 'B'. But it is treated as Category 'A' due to presence of Inter State Boundary of Odisha & Andhra Pradesh in Buffer Zone at 4.0 Kms distance from the Lease Area.

The TOR to the proposal was issued vide letter no. J-11015/389/2013-

IA.II(M) dated 22.01.2014. The proposal is for extension of validity of TOR. Extension of validity of TOR was requested as the EIA consultant has left the job and PP is in the process of hiring another consultant for completing the project. The PP requested for extension of validity of TOR for one year.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for one year i.e. from **22.01.2016 to 21.01.2017**.

(2.13). J-11015/316/2015-IA.II(M) Sand, Bajri and Stone of M/s Shri Gurcharan Singh located at Near Village – Mauza Kishnpura, Tehsil – Nalagarh (T), District – Solan, Himachal Pradesh –(25.3664 ha)

River bed mining project of sand, bajri & stone (minor minerals) with production Enhancement from 48922 Tons/ Annum to 113400 Tons/ Annum of Shri Gurcharan Singh Village- Haripur Sandholi, Tehsil Nalagarh, Distt.Solan, Himachal Pradesh. The Proposal of M/s Shri Gurcharan Singh is for mining of Sand, Bajri & Stone (Minor Minerals) Mining with production enhancement from 48922 Tons/ Annum to 1,13,400 Tons/ Annum (ROM) in the MLA of 25.3664 ha. The mine is located at village - Haripur Sandholi, Tehsil Nalagarh, Distt. Solan, Himachal Pradesh. The Latitude and longitude of the mine lease area are N 30°57'41" to N 30°58'09" and E 76°44'41" to E 76°45' 04" respectively on topo sheet no. 53B/13 & 53A/1. Mine lease area is 25.3664ha. Government of Himachal Pradesh has granted lease area vide registration No. 384/2007 dated 2-3-2007. The method of mining will be opencast manual. Extraction of minerals/ working shall be started from the centre towards the bank periphery in ½ m slice so that the river course could not get affected. The net mineable reserve is 567000 tons. Water requirement is 6.0 KL/day. The project cost is Rs.53.0 Lac.

It was a violation case & violation proceeding has been completed. The prosecution report has been filed in the Court of the Chief Judicial Magistrate, at Nalagarh District Solan, HP on 8.01.2015 vide Case No.PCB/148/M/s. Rama Ston Crusher/14- 23746.

The project was considered in 38th meeting of EAC, held during 22-24th September 2015 for prescribing the TOR for the production capacity of 1,13,400 TPA (ROM) of Sand, Bajri & Stone, after that MOEF prescribed the TOR for the project vide letter no. J-11015/316/2015-IA.II (M) dated 3rd Nov. 2015.

However in the TOR letter production capacity was mentioned as **11,400** TPA (ROM) instead of **1,13,400** TPA. The Committee **recommended**

the Corrigendum and also agreed for transferring the case to SEIAA, Himachal Pradesh as it is a category B project.

(2.14).J-11015/190/2015-IA.II(M) Banour limestone mine of M/s Shri Rakesh Choudhary with production capacity of 63,160 TPA (ROM) located near Village – Bannaur, Tehsil – Ponta Sahib, District – Sirmour Himachal Pradesh (4.75 ha).

The proposed lease area of 4.75 ha is located Near Village –Banaur, Tehsil –Paonta sahib, Distt –Sirmour, H.P. The mine lease area falls in the Survey of India topo sheet no. 53 F/10 between the co-ordinates of North Latitude 30°35'17"N to 30°35'28"N and East Longitude 77°43'18"E to 77°43'32"E. The lease area is located at a distance of 3.0 Km from village Banaur in SE direction and Tehsil headquarter Paonta Sahib is about 37 Km in SW direction & is connected by tar SH-1The nearest railway station is Dehradun at 87 km in SE direction. There are 13 RF exist within the study area, Nigali RF-1.8 Km towards SW, Salag RF- 4.8 Km towards-SW, Janju RF-7.0 km towards SW, Satun RF- 7.5 km towards SW, Rajban RF – 9.2 Km towards SW, Kandela RF-6.7 Km towards-SW, Mehruwala RF-7.6 Km SE, Gojar RF- 9.2 Km SE, N/v-Choyla RF- 8.4 km NE, Balikoli RF-9.3 km towards N, Khajuri RF-5.9 Km NW N/v- Kandi Raj-8.7 Km NE, Sheilli RF- RF 7.8 Km NW, Nera Nadi- 7.2 Km towards-NW, Tons River -1.7 Km towards-NE, Giri River-7.6 Km –SW. Himachal Pradesh and UK interstate boundary is at 1.7 km from the proposed lease boundary in NE direction. There are no national parks, wildlife sanctuaries and critically polluted areas observed in 10km radius of the proposed mine lease area.

There is no court case/litigation pending against the project. Total cost estimated for the proposed project is Rs. 23.0 Lac and Cost estimated for EMP is Rs. 1 Lac.

The total mine lease area is of 4.75 ha. This is classified as Project area is mostly private and partly Govt. land. The mining shall be done opencast mechanized and small drilling and blasting method of mining with the use of drill machines, excavators and dumpers for drilling, loading and transportation of overburden and limestone. The total water requirement will be 3.5KLD (1.0 KLD for drinking, 1.5 KLD for suppression and 1.0 KLD for Plantation). Water will be available from nearby villages. The loaded Dumper/truck would carry the material to the mine site, About 333 tons of limestone would be required to be moved daily. Truck/dumpers will be able to move this material. There will not be much increase in traffic at any particular place. The area is capable of handling the incremental load. A supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

The above mentioned project was considered in 35th meeting of EAC held during 24-26 June 2015 and TOR letter was issued on 29th July 2015 for the production of 63,160 TPA (ROM) of limestone.

The mining plan for the said project has been approved for the production of 1, 00,000 TPA of limestone. So the application for amendment in TOR for production capacity from 63,160 TPA to 1,00,000 TPA (ROM) of limestone was submitted to MoEFCC.

Based on the information furnished by the Project Proponent during the presentation and discussions held, the Committee noted that it appears to be a violation case as mine enhanced its production after 07.10.2014. Thus at present the amendment of TOR is **not agreed** and the fact of excess production has to be ascertained first before amending the TOR.

CONSIDERATION OF TOR PROPOSALS

(2.15). Silica Sand Mine lease of M/s K. Seshagiri Rao and Co. located at Sy. No. 628/A Kothapatnam Village, Kota Mandal, SPS Nellore District, Andhra Pradesh (50.60 ha.)IA/AP/MIN/37262/2015.

The informed that the proposal is already under consideration on file no. J-11015/130/2014-IA. II (M). The PP has requested for the withdrawal of the present proposal. The Committee **agreed to** the request made by the PP.

(2.16). Quartzite Mine of M/s. Shri Shirdi Sai Minerals Private Limited located at Sy.no -137, V.R Gudem Village, Ponduru Tehsil, Srikakulam District, Andhra Pradesh (60.704 ha; 36547.20 TPA) IA/AP/MIN/51459/2016

M/s. Shri Shirdi Sai Minerals Private Limited has proposed to undertake Opencast Mining of Quartzite at Sy.no - 137, V.R Gudem, Ponduru Mandal, Srikakulam, Andhra Pradesh. The lessee M/s Sri Shiridi Sai Minerals is a private ownership firm. The proposed project is Open cast manual mining of Quartzite minerals. The entire MLA including 10km buffer area falls in Survey of India (SOI) Topo sheet No65N15(E44L15), 65N11 (E44L11), 65N12 (E44L12)and 65N16 (E44L16).The area is drained by Nagvali river flowing about 11 km W of the area and by the area. The mine lease area is located between the 18°19'06.3" to 83°46'34.2" and 18°19'29.1" to 83°46'40.9" coordinates. The total mining lease area of 60.704 hectares comprises of Government waste land, hence the project falls in schedule 1(a) of category 'A' with capacity of 30941 MT per annum. Capital cost of project is Rs. 6.5 crores.

The proposed project is open cast manual mining by cutting multiple benches of 1.5 to 2 m height. Mining operation is proposed by utilizing crow-bars, pick-axe, pavidas and gammelas and blasting if required. The waste such as soil mixed with stony material will be generated by development work and production. At the end of the year total quantity of 2030.4 m³ waste will be generated. Water requirement of the project is 53 KLD. The mining would provide direct or indirect employment opportunities to about 68 persons in various posts such as Officers, Supervisors, Ministerial staff, Technical workers and Skilled workers. No National Park and Wildlife Sanctuary falls within the 10 km radius of the project site. Project Proponent reported that no Court case is pending against the Project. The estimated cost of the project is 6.5 crores.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed the Standard TOR** for undertaking detailed EIA study as per **Annexure-I**.

(2.17). Dolomite & Limestone Mine of M/s T. K. Chandrappa located at Kanubenahalli (Village), Hosadurga (Tehsil), Chitradurga (District), Karnataka- State (174.02 Ha.) IA/KA/MIN/51650/2016

Sri. T. K. Chandrappa, has been granted prospecting license (P.L.No.- 3366) for Limestone & Dolomite in Sy. No. 37 & 43 of Kanubenahalli Village, Hosadurga Taluk, Chitradurga district, Karnataka for a period of 2 years w.e.f Dated: 13-12-2006. The Latitudes and Longitudes of the mine lease area lies between Latitude- 13°43'53.3"N to 13°45'30.2"N Longitude- 76°30'21.0"E to 76°29'26.0" E on Survey of India toposheet number D43Q5, D43Q6, D43Q9, D43Q10 (New).

Lease has been renewed for the period of 20 years. The proposed project involves the mining of limestone and dolomite in an extent of 430 acres (174.02ha) and it falls in schedule 1(a)(i) Mining of Minerals of Category 'A'.

The estimated reserves of Limestone and Dolomite from this applied area are 87.69 lakh tons (Mineable reserves). The estimated reserves 87.69 lakh tons of includes sum of Limestone – 62.68 lakh tons and Dolomite – 25.01 lakh tons and hence estimated life of the mine is 63 years. Conceptual mining plan is prepared for 20 years, out of total mineable reserves 87.69 lakh tons only 19.20 lakh tons of Limestone and 9.20 lakh tons of Dolomite will be utilized in this Conceptual mining plan period and rest reserves are considered after the renewal.

Total water requirement in the mine will be about 112.2 KLD for drinking, spraying (dust suppression) and plantation. Water will be sourced from nearby village through water tankers. No National Park and Wildlife Sanctuary falls within the 10 km radius of the project site. Project Proponent reported that no Court case is pending against the Project. The estimated cost of the project is 60 crores.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed the Standard TOR** for undertaking detailed EIA study as per **Annexure-I**.

(2.18). Ismailpur of River Bed Block Sand Mining Project of M/s Shri Som Prakash Sethi having an area of 50.50 ha with the production of 9,60,000 TPA at Village Ismailpur Tehsil Chhachhrauli District Yamunanagar Haryana. IA/HR/MIN/52037/2016.

The proposal of Shri Som Prakash Sethi is for mining of Boulder, Gravel and Sand Minor Mineral (Minor Mineral) with production capacity of 9,60,000 TPA in the mine lease area of 50.50 Ha. LOI was issued by Director General, Mines and Geology Department, Govt. of Haryana vide letter no. DMG/HY/Cont./Ismailpur Block/ YNR B-32/2016/1479 dated 03.03.2016 for the period of 08 years.

The mine lease area is located between the following coordinates:

latitudes	Longitudes
30° 13' 17" N	77° 25' 33.5" E
30° 13' 17" N	77° 26' 01" E
30° 13' 01" N	77° 26' 46" E
30° 13' 01" N	77° 25' 38.5" E
30° 12' 55" N	77° 25' 38.5" E
30° 12' 47" N	77° 25' 31" E
30° 12' 46.5" N	77° 25' 28.5" E
30° 12' 59" N	77° 25' 16" E
30° 13' 03" N	77° 25' 28.5" E
30° 13' 09" N	77° 25' 28.5" E

Toposheet (OSM) No. -53 F/08. No National Park falls within the 10 km radius of the project site. Total mine lease area is 50.50 ha is outside Riverbed. Method of mining will be opencast semi-mechanized method. Loading of minerals into trucks / tippers will be done by using excavators and transported to market. The depth of mining will be 9 m or 2 m above ground water level. Total water requirement for the proposed project will be 12.875.

Water for dust suppression, domestic and plantation will be supplied from existing Dug well / Tube well situated in the nearby areas. It was informed by the PP that no National Park/Wildlife Sanctuary/Biosphere Reserve etc is located with 10 km radius of the mine lease area. The cost of the project is Rs. 1.00 Crores. The cost for EMP is 6.00 Lakhs.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee was of the view that the mining operations in agricultural land are in isolated patches and would result in deterioration of agricultural land and top fertile soil of the field, drainage pattern of the area resulting into the ponding effect. Therefore, Committee decided to **defer** the proposal and sought following information from Mines and Geology department of State Government of Haryana:

- (i) Whether, the lease area in the subject is part of Comprehensive mine plan prepared on direction of NGT dated 18.02.2016 in the matter of 184/2013 in Gurpreet Singh Bagga Vs. Union of India and ors.
- (ii) Considering the environmental implications of the sand mining in isolated patches of agriculture land a policy for granting such leases and mitigation of impact of mining in these areas shall be submitted.

(2.19). Chuaharpur off River Bed Block Sand Mining Project of M/s Shri Aman Sethi having an area of 50.40 ha with 9,30,000 TPA at Village Chuaharpur Tehsil Chhachhrauli District Yamunanagar State Haryana. IA/HR/MIN/52002/2016

The proposal of Shri Aman Sethi is for mining of **Boulder, Gravel and Sand Minor Mineral** (Minor Mineral) with production capacity of **9, 30,000TPA** in the mine lease area of 50.40 Ha. LOI was issued by Director General, Mines and Geology Department, Govt. of Haryana vide letter no. DMG/HY/Cont./Chuaharpur Block/YNR B26 & 27/2016/1475 dated 03.03.2016 for the period of 08 years.

The mine lease area is located between the following coordinates:

latitudes	longitudes
N 30° 16' 54"	E77° 28' 14.5"
N 30° 16' 44"	E77° 28' 37"
N 30° 16' 38"	E77° 28' 37"
N 30° 16' 32"	E77° 28' 29.5"
N 30° 16' 30"	E77° 28' 24.5"
N 30° 16' 30"	E77° 28' 19.5"
N 30° 16' 44"	E77° 28' 19.5"

N 30° 16' 44"	E77° 28' 14.5"
N 30° 16' 22"	E77° 28' 27"
N 30° 16' 22"	E77° 29' 14"
N 30° 16' 16"	E77° 29' 9.5"
N 30° 16' 12"	E77° 28' 52.6"
N 30° 16' 12"	E77° 28' 39.5"
N 30° 16' 20"	E77° 28' 27"

Toposheet (OSM) No. -53 F/07. The lease falls at mean distance of approx. 6.00 km from the boundary of ecosensitive zone of the Kalesar Wildlife Sanctuary, Hence NBWL clearance is not required for the project. Total mine lease area is 50.40 ha is outside Riverbed. The Method of mining will be opencast semi-mechanized method. Loading of minerals into trucks / tippers will be done by using excavators and transported to market. The depth of mining will be 9 m or 2 m above ground water level. Total water requirement for the proposed project will be 13.15. Water for dust suppression, domestic and plantation will be supplied from existing Dug well / Tube well situated in the nearby areas.

The cost of the project is Rs. 1.00 Crores. The cost for EMP is 6.00 Lakhs. Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee was of the view that the mining operations in agricultural land are in isolated patches and would result in deterioration of agricultural land and top fertile soil of the field, drainage pattern of the area resulting into the ponding effect. Therefore, Committee decided to **defer** the proposal and sought following information from Mines and Geology department of State Government of Haryana:

- (i) Whether, the lease area in the subject is part of Comprehensive mine plan prepared on direction of NGT dated 18.02.2016 in the matter of 184/2013 in Gurpreet Singh Bagga Vs. Union of India and ors.
- (ii) Considering the environmental implications of the sand mining in isolated patches of agriculture land a policy for granting such leases and mitigation of impact of mining in these areas shall be submitted.

(2.20).Proposed Limestone Mining of M/s. Shreesha Enterprises Pvt. Ltd. with an extent of area 1603 Acres located at Hosahalli and Udgi (Village), Sedam (Tahsil), Gulbarga (District), Karnataka. IA/KA/MIN/52044/2016

M/s. Shreesha Enterprises Pvt Ltd., Bangalore has been granted LOI for limestone mining in Udgi and Hosahalli Villages, Sedam Taluk, Gulbarga

District from the office of Director, Dept. Of Mines and Geology, Government of Karnataka vide letter No. DMG: 885 AML 06:10-11/12627 dated: 04-12-2010. The proposed project involves the mining of limestone in an extent of 1603 Acres (648.7 Ha). The Latitudes and Longitudes of the mine lease area lies between Latitude 17° 07' 14.7" N to 17° 09' 40.3" N Longitude 77° 12' 27.1" E to 77° 14' 39.6" E. The entire mining area including 10km buffer area falls in Survey of India (SOI) Toposheet No. E43R3, E43R4, E43R8 E43R7.

Total water requirement in the mine will be about 34 KLD for drinking, spraying (dust suppression) and plantation. Water will be sourced from nearby village through water tankers. The mining would provide direct employment opportunities to about 112 persons. The total mineral resource from this applied area is 67,84,46,976 Tonnes, out of which 11,51,70,775 Tonnes (Mineral Reserves) of Limestone will be utilized in this Conceptual mining plan period and 56,32,74,201 Tonnes of mineral will be left over as remaining resource. The estimated life of the mine is 15 years. No National Park and Wildlife Sanctuary falls within the 10 km radius of the project site. Project Proponent reported that no Court case is pending against the Project. The estimated cost of the project is 600 crores.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed the Standard TOR** for undertaking detailed EIA study as per **Annexure-I**.

(2.21). Zer & Vanar Dolomite & Limestone mining project of M/s. Sampatmal S. Iodha located at Near village- Zer & Vanar, Tehsil & Distt.- Chotta Udaipur, State Gujarat (99.75 Hect). IA/GJ/MIN/52085/2016

The Proposal was **deferred** as the Project Proponent did not attend the meeting.

(2.22). Haldari Gujjar off River Bed Block Sand Mining project of M/s S M Contractors & Suppliers having an area of 46.80 ha with the proposed production of 8,80,000 TPA at Village Haldari Gujjar District Yamunanagar State Haryana IA/JH/MIN/49994/2016

The proposal of **M/S S M CONTRACTORS & SUPPLIERS** is for mining of **Boulder, Gravel and Sand Minor Mineral** (Minor Mineral) with production capacity of **8,80,000 TPA** in the mine lease area of 46.80 Ha. The project is categorized as category as the Interstate Boundary of Haryana and Uttar Pradesh is at a distance of 3.00 km from the project site.

LOI was issued by Director General, Mines and Geology Department, Govt. of Haryana vide letter no. DMG/HY/Cont./Haldari Gujjar Block/ YNR B-35/2016/1477 dated 03.03.2016 for the period of 08 years.

The mine lease area is located between the following coordinates:

Latitudes	Longitudes
N 30° 11' 00"	E77° 25' 34"
N 30° 11' 00"	E77° 25' 46.5"
N 30° 10' 40"	E77° 25' 46.5"
N 30° 10' 40"	E77° 25' 56.5"
N 30° 10' 30"	E77° 25' 56.5"
N 30° 10' 30"	E77° 25' 21.5"
N 30° 10' 39.5"	E77° 25' 21.5"
N 30° 10' 40"	E77° 25' 34"

Toposheet (OSM) No. -53 F/08. No National Park falls within the 10 km radius of the project site Total mine lease area is 46.80 ha is outside Riverbed. The Method of mining will be opencast semi-mechanized method. Loading of minerals into trucks / tippers will be done by using excavators and transported to market. The depth of mining will be 9 m or 2 m above ground water level. Total water requirement for the proposed project will be 12.51KLD . Water for dust suppression, domestic and plantation will be supplied from existing Dug well / Tube well situated in the nearby areas.

The cost of the project is Rs. 1.00 Crores. The cost for EMP is 6.00 Lakhs. Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee was of the view that the mining operations in agricultural land are in isolated patches and would result in deterioration of agricultural land and top fertile soil of the field, drainage pattern of the area resulting into the ponding effect. Therefore, Committee decided to **defer** the proposal and sought following information from Mines and Geology department of State Government of Haryana:

- (i) Whether, the lease area in the subject is part of Comprehensive mine plan prepared on direction of NGT dated 18.02.2016 in the matter of 184/2013 in Gurpreet Singh Bagga Vs. Union of India and ors.
- (ii) Considering the environmental implications of the sand mining in isolated ptches of agriculture land a policy for granting such leases and mitigation of impact of mining in these areas shall be submitted.

Day 2: 26th APRIL, 2016 (TUESDAY)

(2.23). Mining of Bajri (Minor Mineral) with production capacity of 1,50,000 TPA (ROM) by Lessee Shri Rajendra Singh Ranawat, located near Village-Lasani, Tehsil – Deogarh, District –Rajsamand, Rajasthan (MLA:339.62Ha) (Consultant: M/s Udaipur Min Tech Pvt. Ltd.)- Consideration of EC

The proposal of Lessee Shri Rajendra Singh Ranawat is for mining of Bajri (Minor Mineral) with production capacity of 1,50,000 TPA (ROM). The mine lease area is river bed Khari passing through villages Lasani, Kalalon ki Anti, Sopari, Isharmand, Malklaliya, Malkot, Kakrod, Pushalo ka Khera, under Deogarh Tehsil in Rajsamand District of Rajasthan. The coordinates of mine lease area are latitude: 25°33'2.76"N to 25°36'27.18"N Longitude 73°56'08"E to 74°07'16.56"E on Survey of India Toposheet numbers 45 G/14, 45 G/15 & 45 K/2, 45 K/3. The project is located in seismic zone –II

The proposal of TOR was considered by Expert Appraisal Committee in its 16th meeting held during January, 27-28, 2014 to determine TOR for undertaking detail EIA study. The TOR was issued by MoEF vide letter no. J-11015/441/2013-II(M), dated 14th March 2014. The EIA/EMP Report was submitted online to Ministry for seeking environment clearance.

The mine area is 339.62 ha (Non forest) which is on Khari river which is Government land. The letter of Intent has been issued by the Joint Secretary, Mines Department, Government of Rajasthan, vide letter No F.10 (13) Khan/Group-2/13, Jaipur, dated 13.06.2013 for a period of five years. Mining Plan along with Progressive Mine Closure Plan has been approved by State Govt. of Rajasthan, vide letter no SME/ RAJ-CIR/Minor/Bajri/RAJ-Amet/F-12/13/3304, dated 21.5.2014.

The Method of mining will be opencast semi-mechanized mining. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. About 51.2 ha area will be used for excavation. The site elevation is 560mRL to 620mRL. The ground water depth is 7-8 m bgl in pre monsoon & 5-6m bgl in post monsoon. Ground water table will be not intersecting during mining operation. The total water requirement is 17KLD including water demand for domestic purpose dust suppression and plantation which shall be met available from water tanker & tube wells from nearby villages.

Mining will be done leaving safety barrier No benches will be made, Up to 70% width of riverbed will be utilized for mining. No mining within 45m on either side of existing culverts. About 45% of excavated area will be replenished naturally due to sediment inflow from catchment area. Mineral will be transported through road. Traffic Survey Analysis reported that 1251 PCU will be increase per day and the level of service (LOS) is "B" which is very good as per classification. Road will be repaired regularly and maintained in good condition. A supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

The Project Proponent reported that there is no ecological sensitive area such as National park, Wild life Sanctuaries, and Tiger Reserve falls within the study area (10 Km radius of the mine boundary). State Government of Rajasthan, vide letter dated 21.04.2016 has confirmed that the lease does not fall in Aravali Hills range. The base line data was generated for the period during March 2014 to May 2014. The project proponent reported that parameters for water and air quality were within permissible limit. The Committee deliberated the baseline data collected by Project Proponent. Project proponent reported that there is no R&R Plan is applicable for this project as the mine lease area lies entirely on the river bed and there is no establishment on the site.

The Public Hearing was conducted on 27.04.2015 at 3.00 pm at panchayat samite office Deograh, District-Rajsamand, State Rajasthan. The Public hearing was presided over by Shri Govind Singh Ranawat, Additional Collector, Rajsamand. The representatives from the Regional officer of Rajasthan State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting.

Project Proponent has conducted the replenishment study of Sand and using various method and reported that the annual deposition rate will be about 45% of the annual abstraction rate. The Committee noted that the replenishment rate is less than the excavation of mineral accordingly; the Committee is of the view that Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.

The Capital cost of project is Rs 180 Lakhs. The Project Proponent has earmarked Rs 5.0 lakhs per annum towards Environment Protection Measures; Rs 5.0 lakhs per annum has earmarked for CSR activities.

Project Proponent reported that there is no court case pending against the Project.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for Mining of **Mining of Bajri (Minor Mineral) with production capacity of 1.5 Lakh TPA (ROM)**.

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall decrease/ stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed. (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (v) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vii) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields, if any; and (x)Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.24). Mining of Bajri (Minor Mineral) with Production Capacity 0.538 million TPA (ROM) by Lessee Shri Manoj Kumar Jain, located at Villages– Kunjed, Mayta, Bichhals, Manyagan, Patna, Kawai Lolahedi, Atru, Piplod, Degni Jagir, Aaton, & Mothpur, Tehsil- Atru; District: Baran, Rajasthan (MLA: 159.27 ha) (Consultant: J.M. EnviroNet Pvt. Ltd.)-Consideration of Environmental Clearance

The proposal of Lessee Shri Manoj Kumar Jain is for Mining of Bajri (Minor Mineral) with Production Capacity 0.538 million TPA (ROM). The mine lease area is located at village (s)- Kunjed, Mayta, Bichhals, Manyagan, Patna, Kawai Lolahedi, Atru, Piplod, Degni Jagir, Aaton, & Mothpur, Tehsil- Atru; District: Baran (Rajasthan) in the area of 159.27 ha. The mine lease area lies on the Parwati, Parwan, Lhasi River bed & nallah. The Latitude and longitude of the mine lease area are 24°45'5.37"N to 24°59'33.24"N and 76°29'45.47"E to 76°44'56.13"E respectively. Study area lies on Survey of India toposheet numbers 54 C/12, 54 C/16, 54 D/5, 54 D/6, 54 D/9, 54 D/10, 54 D/13 & 54 D/14. The Project is located in Seismic zone-II.

The proposal for ToR was considered by the Expert Appraisal Committee in its 14th Meeting held on 22nd November, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The ToR was issued by MoEFCC vide letter No. J-11015/428/2013-IA.II (M) dated 29th January, 2014 & amendment in ToR dated 30th July, 2015. The Proponent submitted the EIA/EMP Report online to the Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 159.27 ha which is as per khasra numbers issued by DMG, Rajasthan in Parwati, Parwan, Lhasi River bed & nallah. The Letter of Intent (LOI) over an area of 159.27 ha was granted by the Govt. of Rajasthan, vide letter No Anikha/ Jai/3(5)/ Bajri/P-2/2013/61 dated 24.01.2013. The Mining Plan has been approved by Director, Mines and Geology, Govt. of Rajasthan; vide letter no.SME/Kota/CC/MP/15/1912 dated 23.04.2015.

Mining will be by Opencast Manual cum Semi-Mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and not less than one meter above the water level of the River Channel whichever is reached earlier. The site elevation is 269 m – 285 m AMSL. Mining will be done leaving a safety distance from the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45 m on either side of the structure/bridge. There will be construction of ramps,

temporary rest shelters during operational phase and these will be removed at the time of mine closure. The total water requirement is 30 KLD including water demand for domestic purpose, dust suppression and plantation development which will be met by purchasing from local villagers.

Mining will be done leaving safety barrier No benches will be made, Up to 70% width of riverbed will be utilized for mining. No mining within 45m on either side of existing culverts. About 42% of excavated area will be replenished naturally due to sediment inflow from catchment area. Mineral will be transported through road. Traffic Survey Analysis reported that 224 trucks trips will be used for transportation of minerals and LOS value will be 'A' as per IRC Standard. Road will be repaired regularly and maintained in good condition. A supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that there is no National Parks/Wildlife Sanctuaries/Biosphere Reserves/Wildlife Corridors/Tiger/Elephant Reserves located within the 10 km study area of the mine lease. No forest land is involved in Mining lease area. State Forest Department, vide letter no F.C.A/U.V.S/2015-16/13546, dated 30.11.2015 has confirmed that there is no forest land along with authenticated list of Flora & fauna. One schedule-I species namely *Pavo cristatus* (Peafowl) recorded in study area. Conservation Plan has been prepared which is under approval with CWLW. State Government of Rajasthan vide letter no. SME/Baran/CC/ML No 37/2012/2015/3562 dated 11.09.2015 has confirmed that the lease area does not fall in Aravali range.

The baseline data was generated for the period during December 2014 to February 2015. The analytical results of samples of air and water collected were within permissible limits. The Committee deliberated the baseline data collected by Project Proponent. Project proponent reported that there is no R&R Plan is applicable for this project as the mine lease area lies entirely on the river bed and there is no establishment on the site.

Public hearing for project was held on 11.12.2015 at 3:30 PM at Atal Sewa Kendra, Village- Kunjed, Tehsil Atru, District Baran (Rajasthan). Public hearing was presided by Shri Naresh Malav, RAS, Additional District Collector Baran. The representative of Regional Officer, Rajasthan State Pollution Control Board, Kotawas also present. The issues raised during the Public Hearing were also considered and discussed during the meeting.

which inter-alia about Village development, Green Belt Development and transportation. Action plan with budgetary allocation has been given against Points raised in Public hearing.

Project Proponent has conducted the replenishment study of Sand and using various methods and reported that the annual deposition rate will be about 42% of the annual abstraction rate. The Committee noted that the replenishment rate is less than the excavation of mineral accordingly; the Committee is of the view that Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.

The Capital cost of the Project is Rs 25 Lakhs. An amount of Rs. 3.0 Lakhs has been earmarked towards Environmental Protection Measures and Rs. 1.5 Lakhs per annum towards recurring expenses. Rs. 6.0 Lakhs have been earmarked towards CSR activities. In accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (in civil Appeal no. 9703-9706 of 2013) production of 1,50,000 Tonnes of Bajri has been made during October, 2015 to March, 2016.

The Committee deliberated at length the information submitted by Project Proponent and **recommended the Proposal for Environmental Clearance for Mining of Mining of Bajri (Minor Mineral) with production capacity of 0.538 million TPA (ROM).**

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall decrease/ stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed. (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (v) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) Project Proponent shall ensure that the road may not be damaged due

to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vii) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields, if any; and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.25). River Bed Mining Project of Bajri with production capacity of 0.749 million TPA by M/s Shri Naresh Gautam S/o Shri Purashottam Gautam, located at revenue Villages of Tehsil – Keshoraypatan, District–Bundi, Rajasthan (141.45 ha)

The Proposal of EC was already appraised by the EAC in an earlier meeting held during March 21-22, 2016.

(2.26). Banera Iron Ore Mine, Crushing & Beneficiation and Palletization Plant by M/s Rashtriya Ispat Nigam Limited (RINL), located at Village–Baran, Sultangarh, Banera, Nanodia, Kajlodia, Kishanpuriya & Lapia, Tehsil-Banera, District-Bhilwara, Rajasthan (MLA: 945.8575ha) (Consultant: MECON Limited)- Consideration of EC

The proposal of M/s Rashtriya Ispat Nigam Limited (RINL) is for opening of a opening of new mine @ 2 million TPA (ROM) along with Crushing & Beneficiation @ 2 million TPA and Palletization Plant @ 0.6 Million TPA in the MLA of 945.8575ha. The mine lease area is located at Village–Baran, Sultangarh, Banera, Nanodia, Kajlodia, Kishanpuriya & Lapia, Tehsil-Banera, District-Bhilwara, Rajasthan. The proposed ML area falls under Survey of India Toposheet Nos. 45 K/11 & 45 K/10 and bounded between 25°28'20.3982" N to 25°31'33.2292" N Latitude and 74° 37' 34.6188" E to 74° 41' 22.9812" E Longitude.

The proposal of TOR was considered by the Reconstituted Expert Appraisal Committee in its 22nd meeting held during August 26-27, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter no. J-11015/208/2014-IA.II (M), dated 23.09.2014. The Proponent submitted the EIA/EMP Report online to Ministry for seeking Environmental Clearance after conducting Public Hearing.

The Mines and Geology Department, State Govt. of Rajasthan, vide letter dated 31.05.2013 has issued Letter of Intent for mining of Iron Ore in favour of M/s RINL for an area of 945.8575 ha. The Mining Plan along with Progressive Mine Closure Plan has been approved by IBM, Ajmer vide letter dated 03.11.2015. The approximate total mineable reserve is 39,393 tonnes under UNFC 122 category and remaining resources of 8,36,947 tonnes under UNFC 334 category respectively. Apart from the above, around 303.0473 Million tonnes of un-classified resources have also been established by RINL through geo-physical method of exploration. However, for the initial 5 years of the plan period w.e.f. date of execution of ML, the production capacity of the mine will be limited to 39,393 TPA (ROM). This ROM quantity will be excavated and stacked in front of the proposed crushing plant. **The Committee deliberated the issues w.r.t. Mining Plan and is of the view that since the Mining Plan is approved for 39,393 TPA (ROM) by IBM and not for 2.0 Million TPA (ROM) and according the EAC may only considered the proposal for mining of Iron Ore with proposed production capacity of 39,393 TPA (ROM).**

Total mine lease area 945.8575ha. Out of which 452.4335ha is for Agricultural land, 229.6821ha is for Waste land, 132.7365ha is for Grazing land, 26.5322ha is for Settlements and 104.4732ha is for Others (Water reservoir etc.). Method of mining is open cast mechanized. Conventional shovel dumper combination of opencast mining will be deployed. The wastes generated in the form of overburden, inter-burden, coarse tails will be disposed of as external dumps within the ML area. Multilevel crushing, screening, grinding and magnetic separation will be carried out to produce the concentrate from the ROM ore. The make-up water for the project comes to around 320 m³/hr or 7.6 MLD. The sewerage water from Bhilwara town will be the source of water for Industrial use. An 8 MLD STP will be set up near the Bhilwara town for the above purpose and the treated water will be brought to the Mining Lease (ML) area through pipeline. However, the potable water requirement at mine site is only 25 KLD. The Project Proponent vide letter dated

21.02.2014 has requested the Commissioner Municipality of Bhilwara to reserve the available sewage of 8 MLD for treatment and uses.

Project Proponent reported that there is no National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). The State Govt. of Rajasthan, vide letter dated 30.04.2015 has confirmed that mine lease area does not fall under Aravali Hills. There is one Schedules-I species namely Peafowl reported in the buffer zone. Accordingly, the conservation plan has been prepared and the Chief Wildlife Warden, Jaipur has forwarded the authenticated Map and Conservation Plan for Schedule – I species. The Proponent has proposed a sum of about Rs. 18.5 Lakhs for conservation of Schedule -I species. The DFO Bhilwara vide letter dated 17.10.2014 has confirmed the lease area does not involved the forest land and there is no Wildlife Sanctuary in the applied area. The NOC from the Gram Panchayat has been obtained by the project proponent for mining in Grazing land.

The baseline data was generated for the period during winter season i.e. December 2014 to February 2015. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that the project involves R&R. Compensation details for 323 households. The total R&R cost will be about Rs. 38.12 Crores. Basic amenities will be provided in the resettlement site like electricity, road, drinking water, schools, health care facilities and other public utilities. The Committee deliberated the issues on R&R and is of the view that the Project Proponent shall constitute a Committee to monitor the R&R related issues for implementation and shall submit the report to Regional Office of the MoEFCC six monthly.

The Public Hearing for the proposed project was conducted on 05.11.2015 at 11:00 AM at Panchayat Samiti Karyalay, Banera, Tehsil – Banera, District - Bhilwara. The Public Hearing was presided over by Shri Anandi Lal Vaishnav, ADM (City) Bhilwara. The representatives from the Rajasthan State Pollution Control Board were also present. The issues raised during the Public Hearing, commitment made by the project proponent and action plan with budgetary provisions has been discussed during the meeting. Project proponent has made the action plan alongwith budgetary provisions. The Committee deliberated and is of the view that project proponent needs to implement the Action Plan and the implementation report has to be submitted to the regional office if the MoEF & CC every six month.

The capital cost estimated of the proposed mines/ beneficiation/ pallet plant complex as Rs. 749.32 Crores. The Project Proponent has earmarked Rs. 2.9 Crores towards EMP as a capital cost and Rs. 90.0 lakhs per annum as a recurring cost. The Project Proponent has earmarked Rs. 30.0 lakhs per annum towards Socio-Economic Welfare measures for the nearby villages; Rs. 3812 lakhs towards R&R cost; and Rs. 12500 lakhs towards mine closure plan. The Project Proponent reported that there is not court case / litigation is pending against the project.

The Committee deliberated at length the information submitted by PP w.r.t. **Mining Plan and is of the view that since the Mining Plan is approved for 39,393 TPA (ROM) and recommended the Proposal for Environmental Clearance for mining of Iron Ore with proposed production capacity of 39,393 TPA (ROM).**

The Committee also **recommended additional specific conditions** viz. (i) Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area"; (ii) Project Proponent shall carry out vibration studies well before approaching any such habitats or other buildings to evaluate the zone of influence and impact of blasting on the neighborhood. Within 500 meters of such sites vulnerable to blasting vibrations, avoidance of use of explosives and adoption of alternative means of mineral extraction, such as ripper/dozer combination/rock breakers/surface miners etc. should be seriously considered and practiced wherever practicable. A provision for monitoring of each blast should be made so that the impact of blasting on nearby habitation and dwelling units could be ascertained. The covenant of lease deed under Rule 31 of MCR 1960 provides that no mining operations shall be carried out within 50 meters of public works such as public roads and buildings or inhabited sites except with the prior permission from the Competent Authority. (iii) Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; (iv) The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (v)

There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (vi) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical check-up once in six months and necessary medical care/preventive measures undertaken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers should also be adopted; (vii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing; and (viii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry.

(2.27). Mining of Bajri (Minor Mineral) with proposed production capacity of 2.475 Lakh TPA (ROM) by Shri Sanjay Kumar Garg located at Revenue village(s) of Tehsil Dudu (Mozamabad) District Jaipur, Rajasthan-(Consultant: Enviro Concept (I) Pvt. Ltd., Jaipur)-Consideration of EC

The proposal of Shri Sanjay Kumar Garg is for Mining of Bajri (Minor Mineral) with proposed production capacity of 2.475 Lakh TPA (ROM). The mine is located at revenue villages - Keriya Khurd, Nagari, Kachnariya, Sewa, Rasili, Bherana, Naurangpura, Kapdiyawaskalan, Kapdiyawas, Khurd, Kila, Kotjawar, Ursewa, Keriya, Burj' Itakhoi, Boraj, Keriya, Khudiyatala, Khajpura, Ugariwas, Udaipuriya, Adrawa, Ghega, Gangati, Khurd, Gudhabersal, Gaiji, Gagardu, Gopipura, Charsara, Chaparwada, Jaikampura, Jadawata, Jasupura, Jhakolad, Dudu, Dayalpura, Dantari, Dantara, Dhandholi, Naya Gaon, Nachnipura, Nanan, Nasnota, Neemli, Parasoli, Panwaliya, Patudi, Bijolav, Bhojpur, Bordawad, Mungithala, Mahantgaon, Mahla, Rahlana, Baneriya, Lapodiya & Hatupura (total 56) of Tehsil Dudu (Mozmabad) District: Jaipur, State: Rajasthan. The mine lease area lies on the Dantra, Manshi, & Bandi river bed and nallas. The Latitudes and Longitudes of the mine lease area lies between 26° 29'00" to 26° 53'04" N & Longitudes:- 74°56'07" to 75°30'00"E on the Survey of India toposheet No : 45 N/1, 45 N/2, 45 N/3, 45 N/5, 45 N/6, 45 N/7, 45 N/9, 45 J/13 & 45 J/14 (9 No's) The Project is located in seismic zone-II.

The Proposal of TOR was considered by the Expert Appraisal Committee in its 13th meeting held on 12th November, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by MoEF&CC vide letter no.J-11015/351/2013-IA.II (M), dated 9th December, 2013. Project Proponent has submitted the EIA/EMP Report online to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

The mine lease area is 954.15075ha. No forest land is involved. Letter of Intent (LOI) has been issued by Department of Mines and Geology, vide letter no P.7 (17) Mine/Group-2/2013 Dated 20.03.2013. Mining Plan was approved by SME, Department of Mine & Geology, Jaipur Circle, Rajasthan vide letter no. SME/Jai/Mining Plan/ Bajri/P-591/ 13/53, dated 02.01.2014.

The mining operation will be opencast semi-mechanized method. Excavation will be carried out up to a maximum depth 3 meter from surface of deposit and 1.0 meter above the ground water level whichever is reached earlier. The ground water level varies from 8.45 to 18.50 m bgl. The elevation of lease area 319AMSL to 385 AMSL. The total water requirement is 6.0 KLD including water demand for domestic purpose, dust suppression & green belt development which shall be met by purchasing from local villagers.

Project proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5 m of the width of the river from both the banks and no mining will be done in the zone of 45.0 m on either side of the structure/ bridge and also reported that the mining will be done on three block A, B and C for smooth and minimizing the impacts on surrounding area. Project proponent reported that there will be construction of temporary rest shelters during operational phase. Mineral will be transported through existing road network. The traffic analysis survey has been made & it reveals that 90 no. of trucks (considering both loaded & unloaded trucks) will be deployed per day (20 tones capacity each) which increases about 570 PCUs per day and max. Cumulative traffic volume anticipated at connected road are 5139, 2436 and 771 PCUs per day, the level of service (LOS) remains up to "A" & "B". Transportation route map also prepared and submitted to insure that the transportation vehicle should not be allowed to pass through the inside of villages. Repair and maintenance of the nearby road will be done regularly. A supervisor will be deployed to regulate the traffic movement near mining site to proper traffic management. Speed breakers and signage will be

maintained at all the sensitive places in consultation of concern authority and local villagers.

Project Proponent reported that there is no National Park, Tiger/Elephant corridors, migratory route for birds etc. are found within 10 km of the mine lease area except about ten no's of small RF/PF and nearest P.F located at the distance of 3.5 KM in SW direction from the lease. The State Government of Rajasthan, vide letter No. ME/Jai/Bajri/Dudu/M.P-1/2013/106, dated 06.02.2015 has confirmed that the lease does not fall in "Aravali Range". No rare endemic, endangered species & threatened species of flora within the study area. Only one Schedule-I fauna species i.e. Indian Peafowl (*Pavo cristatus*) found in the study area. Conservation Plan has been prepared and submitted to PCCF & Chief Wild Life Warden which is under approval. Project Proponent has earmarked a budgetary provision for the conservation of Schedule species of Rs 17.50 Lakhs for five years. 5000 no's of plantation proposed of native species with some fruits bearing and medicinal trees on about 12.50 ha area during the five year as per schedule of greenbelt development program proposed.

Baseline data was generated for the period during December 2013 to February 2014. The analytical results of samples of Air, Noise and Water collected within permissible limits. The Committee deliberated the baseline data submitted by the Project Proponent. Project proponent reported that there is no R&R Plan is applicable for this project as the mine lease area lies entirely on the river bed and there is no establishment on the site.

Public Hearing was conducted at 11.00 AM on 15.01.2016, near SDM office, Dudu, District-Jaipur. Public hearing was presided by Shri Kailash Yadav, ADM, Jaipur. The representative from the Rajasthan State Pollution Control Board was also present. The issues raised during the Public Hearing were about social development & employment. Project proponent has made the action plan along with budgetary provisions. The Committee deliberated and is of the view that project proponent needs to implement the Action Plan and the implementation report has to be submitted to the regional office if the MoEF & CC every six month.

The Capital cost of the project is Rs. 90.0 Lacs. An amount of Rs. 25.0 Lacs has been earmarked towards Environmental Protection Measures with Rs. 17.50 Lacs separately for conservation of scheduled species and Rs. 30.0 has been earmarked towards social development in the nearby area. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014

and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of 29743 Tonnes of Bajri has been achieved during January 2014 to March 2014, 152572 Tonnes of Bajri has been made during April 2014- March 2015 and 102434 Tonnes of Bajri has been achieved during April 2015 to February 2016

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for **Mining of Bajri (Minor Mineral) with proposed production capacity of 2.475 Lakh TPA (ROM).**

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall decrease/ stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed. (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (v) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vii) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields, if any; and (x)Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from

the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.28). Mining of Mineral Sand *Bajri* and Boulder (Minor Mineral) from River Yamuna Lot No-21/3 with proposed production capacity of 6,00,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam Ltd., located at villages: Dhakrani & Gangbhewa Tehsil: Vikasnagar & District: Dehradun, Uttarakhand (MLA:68.364 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)-Consideration of EC

The proposal of M/s Garhwal Mandal Vikas Nigam Ltd. is for mining of Sand, *Bajri* and Boulder (Minor Mineral) with proposed production capacity of 6,00,000 TPA (ROM) of Sand, *Bajri* and Boulder in the mine lease area of 68.364 ha. The mine is located at villages: Dhakrani & Gangbhewa, Tehsil: Vikasnagar, Dehradun, Uttarakhand. The Latitudes and Longitudes of the mine lease area lies in Yamuna River bed 30°27'14.17"N to 30°26'43.02"N and 77°42'1.06"E to 77°40'57.88"E on Survey of India toposheet numbers 53F11. The Project is located in Seismic zone-IV.

The proposal of Terms of Reference (ToR) was considered by the EAC in its 8th Meeting held during 26th-28th June, 2013 to determine the ToR for undertaking detailed EIA study. The ToR was issued by MoEF&CC vide letter No. J-11015/140/2013-IA.II (M), dated 27th August, 2013. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 68.364 ha which is on Yamuna River. No forest land is involved. Letter of Intent (LoI) for grant of mining lease for minor mineral Sand, *Bajri* and Boulder over an area of 68.364 ha has been granted by the Department of Geology and Mining, Directorate of Industry Dehradun, vide letter no. 40/ Bhu.Khani/2012-13, dated 18th April, 2013 for the period of 5 year. The Mining Plan has been approved by the Department of Geology and Mining, Directorate of Industry Dehradun, vide letter no. 2218, dated 03.03.2015.

Method of Mining will be opencast manual. Excavation will be carried out up to a maximum depth of 1.5 meters from surface of deposit and not less than one meter from the ground water level of the River Channel whichever is reached earlier. The site elevation is 408 m AMSL. The Ground water depth is 2.52 m bgl in pre monsoon season and 2.29 m bgl in post-monsoon season. The total water requirement is 6.5 KLD including water demand for domestic purpose, dust suppression and plantation

development which shall be met by tanker supply, NOC from Gram Panchayat has been obtained in this regard. Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 15% of the width of the River from both the banks. Mining will be done only during day time and completely stop in monsoon season. No mining will be done in the zone of 100m on either side of the structure/bridge. Project Proponent reported that there will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure.

Mineral will be transported by road. Project Proponent has made the Traffic Analysis Survey and reported that 267 numbers of trucks will be deployed per day (10 tones capacity each). The total PCUs estimated is 1602 PCUs per day. The level of service (LOS) will change from "A to B". Project Proponent reported that roads will be repaired regularly and maintained in good condition. A Supervisor will be appointed to regulate the traffic movement near site.

Proponent reported that the project lies in Doon Valley, Aasan Conservation Reserve lies at 2 km from the Mine lease area and Simbalbara Wildlife Sanctuary lies at a distance of 9 km from the Mine lease area. Project Proponent has informed that the application for NBWL Clearance has been submitted which is under approval. Further, the Project Proponent reported that there are three Schedule I and three Schedule II species has been found, accordingly, the species specific conservation plan has been prepared which is under the process of approval by the Chief Wildlife Warden, Uttarakhand.

The baseline data was generated for the period during October, 2013 to December 2013. All the parameters for water and air quality were within permissible limits. Project Proponent reported that no R&R is applicable for this Project as the mine lease area lies entirely on the River bed and there is no establishment on the site. The Public Hearing for the proposed project was conducted on 8th July, 2014 at 2.00 pm at Rajkiya High School, Dhakrani, Vikasnagar, Dehradun, Uttarakhand. The Public Hearing was presided over by Shri Pratap Singh Shah, ADM, Dehradun, Uttarakhand. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields.

The total cost of the project is Rs. 26.0 Lakhs. Project Proponent has earmarked the EMP cost @ Rs. 6.0 lakhs towards capital cost and Rs. 12.15 lakhs per annum towards recurring cost. Project Proponent reported that there is no litigation pending against the project. Project Proponent has made Replenishment Study analysis based on Dendy Bolton's Replenishment Model and also mentioned that a proposal of replenishment study is under consideration which is to be carried out by FRI Dehradun. According to approved mine plan, the Total Reserve is 6057113.38 tonnes for 5 years and mineable reserve is 18,00,000 tonnes as mentioned in the EIA/EMP Report. The Committee deliberated the issues on Replenishment rate and is of the view that Project Proponent shall decrease/stop the mining of Mineral Sand *Bajri* and Boulder in case the replenishment of minerals is lower than the approved rate of production, till the replenishment is completed.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Mineral Sand, *Bajri* and Boulder (Minor Mineral) with proposed production capacity of **6,00,000 TPA (ROM)**.

The Committee also **recommended** additional specific conditions viz. (i) **Project Proponent shall decrease / stop the mining of Sand, Bajri and Boulder, in case the replenishment is lower than the approved rate of production, till the replenishment is completed;** (ii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iii) Excavation will be carried out up to a maximum depth of **1.5 meter from surface of sand deposit and 1 meter above** from the water level of the River channel whichever is reached earlier; (iv) Project Proponent shall implement the Disaster Management Plan as the mine lease area is located in Seismic Zone-IV. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels; (v) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities; (vi) The number of trips of the trucks shall not exceed the

estimated quantity of **267 trucks (10 tonnes capacity) trips per day**. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages. The Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vii) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) Washing of all transport vehicle should be done inside the mining lease; and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.29). Mining of Mineral Sand Bajri and Boulder (Minor Mineral) from River Khoh with proposed production capacity of 4,00,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam Ltd., located at Villages: Gadhsthan gunj, Gadighat, Ratnapur, Kashirampur & Kotdwar Tehsil: Kotdwar & District: Pauri Garhwal, Uttarakhand (MLA: 66.255 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)-Consideration of EC

The proposal of M/s Garhwal Mandal Vikas Nigam Ltd. is for mining of Sand, *Bajri* and Boulder (Minor Mineral) with proposed production capacity of 4,00,000 TPA (ROM) of Sand, Bajri and Boulder in the mine lease area of 66.255 ha. The mine is located at Villages: Gadhsthan gunj, Gadighat, Ratnapur, Kashirampur & Kotdwar, Tehsil: Kotdwar, Pauri Garhwal, Uttarakhand. The co-ordinates of Mine Lease area are- Latitude: 29°45'20.84"N to 29°43'29.19"N, Longitude: 78°32'30.81"E to 78°31'10.60"E on Survey of India toposheet number 53 K10 (Site) & 53K9 (Site). The Project is located in Seismic zone-IV.

The proposal of Terms of Reference (ToR) was considered by the EAC in its 8th Meeting held during 26th-28th June, 2013 to determine the ToR for undertaking detailed EIA study. The ToR was issued by MoEF&CC vide letter No. J-11015/135/2013-IA.II (M) dated 22nd August, 2013. The

Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 66.255 ha which is on River Khoh. No forest land is involved. Letter of Intent (LoI) for grant of mining lease for minor mineral Sand, Bajri and Boulder over an area of 66.255 ha has been granted by Department of Geology and Mining, Directorate of Industry Dehradun, vide letter no. 589/ Bhu.Khani/2012-13 dated 23rd January, 2013 for the period of 5 year. The Mining Plan has been approved by the Department of Geology and Mining, Directorate of Industry Dehradun, vide letter no. 128/Mine Plan/Bhu. Khani/Pauri, dated 30-05-2015.

Method of Mining will be opencast manual. Excavation will be carried out up to a maximum depth of 1.5 meters from surface of deposit and not less than one meter from the ground water level of the River Channel whichever is reached earlier. The site elevation is 352-415 m AMSL. The Ground water depth is 6.0 m bgl in pre monsoon season and 3.5 m bgl in post-monsoon season. The total water requirement is 2.6 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply, NOC from Gram Panchayat has been obtained in this regard. Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 15% of the width of the River from both the banks. Mining will be done only during day time and completely stop in monsoon season. No mining will be done in the zone of 100m on either side of the structure/bridge. Project Proponent reported that there will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure.

Mineral will be transported by road. Project Proponent has made the Traffic Analysis survey and reported that 356 numbers of trucks will be deployed per day (5 tones capacity each). The total PCUs estimated is 1424 PCUs per day. The level of service (LOS) will change from "A to B". Project Proponent reported that roads will be repaired regularly and maintained in good condition. A Supervisor will be appointed to regulate the traffic movement near site.

Proponent reported that the Jim Corbett National Park is present at a distance of 9 km in SE direction and Sonanadi Elephant Corridor is lies within 10 km radius of the lease area. Project Proponent has informed that the application for NBWL Clearance has been submitted which is under approval. Further, the Project Proponent reported that there is three Schedule I and seven schedule II species has been found, accordingly, the

species specific conservation plan has been prepared which is under the process of approval by the Chief Wildlife Warden, Uttarakhand. The baseline data was generated for the period during October, 2013 to December 2013. All the parameters for water and air quality were within permissible limits. Project Proponent reported that no R&R is applicable for this Project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearing for the proposed project was conducted on 14-10-2014 at Rajkiya Inter College Kumbhichaud, Kotdwar, Pauri Garhwal, Uttarakhand. The Public Hearing was presided over by Shri B.S. Chalaal, ADM, Dehradun, Uttarakhand. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields.

The total cost of the project is Rs. 20.45 Lakhs. Project Proponent has earmarked the EMP cost Rs. 5.0 Lakhs towards capital cost and Rs. 10.69 lakhs per annum towards recurring cost. Project Proponent reported that there is no litigation pending against the project. Project Proponent has made Replenishment Study analysis based on Dendy Bolton's Replenishment Model and also mentioned that a proposal of replenishment study is under consideration which is to be carried out by FRI Dehradun. According to approved mine plan, the Total Reserve is 41,64,341.76 tonnes for 5 years and mineable reserve is 14,50,000 tonnes as mentioned in the EIA/EMP report. The Committee deliberated the issues on Replenishment rate and is of the view that Project Proponent shall decrease/stop the mining of Mineral Sand Bajri and Boulder in case the replenishment of minerals is lower than the approved rate of production, till the replenishment is completed.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) with proposed production capacity of **4,00,000 TPA (ROM)**.

The Committee also **recommended** additional specific conditions viz. (i) **Project Proponent shall decrease / stop the mining of Sand, Bajri and Boulder, in case the replenishment is lower than the approved rate of production, till the replenishment is completed;** (ii) Project Proponent shall appoint a Monitoring Committee to monitor the

replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iii) Excavation will be carried out up to a maximum depth of **1.5 meter from surface of sand deposit and 1 meter above** from the water level of the River channel whichever is reached earlier; (iv) Project Proponent shall implement the Disaster Management Plan as the mine lease area is located in Seismic Zone-IV. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels; (v) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities; (vi) The number of trips of the trucks shall not exceed the estimated quantity of **356 trucks (5 tonnes capacity) trips per day**. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages. The Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vii) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) Washing of all transport vehicle should be done inside the mining lease; and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.30). Mining of Mineral Sand Bajriand Boulder (Minor Mineral) from River Rao, Anneki Hetampur with proposed production capacity of 8,30,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam Ltd., located at Village: Anneki Hetampur Tehsil: & District: Haridwar, Uttarakhand (MLA:64.892 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)-Consideration of EC

The proposal of M/s Garhwal Mandal Vikas Nigam Ltd. is for mining of Sand, Bajriand Boulder (Minor Mineral) with proposed production capacity of 8,30,000 TPA (ROM) of Sand, *Bajri* and Boulder in the mine lease area of 64.892ha. The mine is located at Village: Anneki Hetampur Tehsil: & District: Haridwar, Uttarakhand. Project is located in Block. The Latitudes and Longitudes of the mine lease area lies in Rao River bed 29°58'10.57"N to 29°57'30.78"N and 78°1'45.43"E to 78°0'53.51"E on Survey of India toposheet numbers 53F15 (Site). The Project is located in Seismic zone-IV.

The proposal of Terms of Reference (ToR) was considered by the EAC in its 12th Meeting held during 31st October – 1st November, 2013 to determine the ToR for undertaking detailed EIA study. The ToR was issued by MoEF&CC vide letter No. J-11015/329/2013-IA.II (M), dated 06th December, 2013. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 64.892 ha which is on River Rao. No forest land is involved. Letter of Intent (LoI) for grant of mining lease for minor mineral Sand, Bajri and Boulder over an area of 64.892 ha has been granted by Department of Geology and Mining, Directorate of Industry Dehradun, vide letter no. 589/ Bhu.Khani.E/2012-13 dated 23rd January, 2013 for the period of 5 year. The Mining Plan has been approved by the Department of Geology and Mining, Directorate of Industry Dehradun, vide letter no. 99/Mine Plan/Bhu Khani/Haridwar dated 25.05.2015.

Method of Mining will be opencast manual. Excavation will be carried out up to a maximum depth of 1.5 meters from surface of deposit and not less than one meter from the ground water level of the River Channel whichever is reached earlier. The site elevation is 288-295 m AMSL. The Ground water depth is 4-50.20m bgl in pre monsoon season and 4-48.50 m bgl in post-monsoon season. The total water requirement is 8.0 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply, NOC from Gram Panchayat has been obtained in this regard. Project Proponent

reported that mining will be done leaving a safety distance from the banks i.e. 15% of the width of the River from both the banks. Mining will be done only during day time and completely stop in monsoon season. No mining will be done in the zone of 100m on either side of the structure/bridge. Project Proponent reported that there will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure.

Mineral will be transported by road. Project Proponent has made the Traffic Analysis Survey and reported that 369 numbers of trucks will be deployed per day (10 tonnes capacity each). The total PCUs estimated is 2214 PCUs per day. The level of service (LOS) will change from "A to B". Project Proponent reported that roads will be repaired regularly and maintained in good condition. A Supervisor will be appointed to regulate the traffic movement near site.

Proponent reported that the project lies in Doon Valley approximate at a distance of 8 km in NE direction and Rajaji National Park lies approximate at a distance of 3 km in NE direction. Project Proponent has informed that the application for NBWL Clearance has been submitted which is under approval. Further, the Project Proponent reported that there are three Schedule I and two schedule II species has been found, accordingly, the species specific conservation plan has been prepared which is under the process of approval by the Chief Wildlife Warden, Uttarakhand.

The baseline data was generated for the period during December, 2013 to February 2014. All the parameters for water and air quality were within permissible limits. Project Proponent reported that no R&R is applicable for this Project as the mine lease area lies entirely on the River bed and there is no establishment on the site. The Public Hearing for the proposed project was conducted on 11th August, 2014 at 11.00 a.m. at Gram Panchayat Bhawan, Anneki, Uttarakhand. The Public Hearing was presided over by Smt. Ravneet Cheema, ADM, Haridwar, Uttarakhand. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields.

The total cost of the project is Rs. 31.40 Lakhs. Project Proponent has earmarked the EMP cost Rs. 7.0 lakhs towards capital cost and Rs. 16.12 lakhs per annum towards recurring cost. Project Proponent reported that

there is no litigation pending against the project. Project Proponent has made Replenishment Study analysis based on Dandy Bolton's Replenishment Model and also mentioned that a proposal of replenishment study is under consideration which is to be carried out by FRI Dehradun. According to approved mine plan, the Total Reserve is 89, 32,262.06 Tonnes for 5 years and Mineable reserve is 15, 30,000 Tonnes as mentioned in EIA/EMP report. The Committee deliberated the issues on Replenishment rate and is of the view that Project Proponent shall decrease/stop the mining of Mineral Sand *Bajri* and Boulder in case the replenishment of minerals is lower than the approved rate of production, till the replenishment is completed.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Mineral Sand, *Bajri* and Boulder (Minor Mineral) with proposed production capacity of **8,30,000 TPA (ROM)**.

The Committee also **recommended** additional specific conditions viz. (i) **Project Proponent shall decrease / stop the mining of Sand, Bajri and Boulder, in case the replenishment is lower than the approved rate of production, till the replenishment is completed;** (ii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iii) Excavation will be carried out up to a maximum depth of **1.5 meter from surface of sand deposit and 1 meter above** from the water level of the River channel whichever is reached earlier; (iv) Project Proponent shall implement the Disaster Management Plan as the mine lease area is located in Seismic Zone-IV. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels; (v) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities; (vi) The number of trips of the trucks shall not exceed the estimated quantity of **369 trucks (10 tonnes capacity) trips per day**. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying

the mineral should not be allowed to pass through the villages. The Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vii) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) Washing of all transport vehicle should be done inside the mining lease; and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.31). Mining of Mineral Sand (Major Mineral) Sohgara Graphite Mining with proposed production capacity of 3,300 TPA (ROM) of Graphite by M/s Vinira Minerals (Mr Binod Kumar Mintri) ,Village- Sohgara, District- Palamu, Jharkhand (MLA 12.885 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)-Consideration of EC

The proposal of M/s Vinira Minerals is for mining of Graphite (Major Mineral) with proposed production capacity of 3,300 TPA (ROM) of Graphite. The mine lease area is located at Village- Sohgara, District: Palamu, Jharkhand in the mine lease area of 12.885 ha. The co-ordinates of Mine Lease area are- Latitude: 23°59.408" N to 23°59.603" N, Longitude: 84°15.429" E to 84°15.521" E on Survey of India toposheet number 73 A/5. The Project is located in Seismic Zone-III. It is a Category "B" as the mine lease area is located 9.5 Km from the Betla National Park. This proposal is being considered by the Ministry as the tenure of SEIAA Jharkhand has been expired.

The proposal was considered by the Expert Appraisal Committee in its 11th meeting held during 25th- 27th September, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by the Ministry, vide letter no. J-11015/250/2013-IA.II (M), dated 8th January, 2015. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance.

The mine lease area is 12.885 ha. The Lease has been granted by the State Government of Jharkhand for a period of 20 Years w.e.f. 08-10-2010 to 07-10-2030 over an area of 12.885 ha. The Mining Plan is approved by Indian Bureau of Mines, Bhubaneshwar vide letter dated 20-02-2009. The Project Proponent has submitted the application to IBM for approval of scheme of Mining for the period 2016-2017 to 2021-2022 which is under approval with IBM. Method of Mining is manual opencast method. Excavation will be carried out up to a maximum depth of 9 meters from surface of deposit and not less than two meter from the ground water level of the River Chanel whichever is reached earlier. Proponent informed that 12.885ha area will be used for excavation. The site elevation is 296 MSL. The Ground water depth is 30-35 bgl in pre-monsoon season and post-monsoon season. The total water requirement is 7.0 KLD including water demand for domestic purpose and dust suppression which shall be met by tanker supply, No Objection Certificate from Gram Panchayat has been obtained in this regard. The working is proposed on higher elevations; no ground water interception during the mining operations is envisaged. Project Proponent reported that Mining will be done upto a maximum depth of 9 m in layers of 3 m each.

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that no. of trucks will be deployed 4 per day (10 tonnes capacity each) which increase 164 PCUs per day (Considering both loaded and empty trucks) and the level of service (LOS) is "A" which is 'Excellent' in all the cases. Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that Betla National Park is at a distance of 9.5 km from the mine site for which the application for NBWL Clearance has been submitted and the same is under approval. There are four Scheduled I Species reported in the study area for which the conservation plan has been prepared and the same is under approval. The baseline data was generated for the period during March 2015 to May 2015. All the parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that there is no R&R plan is applicable for this project.

The Public Hearing for the proposed Project was conducted on 03.10.2015 at 11:00 A.M at Village- Sohgara, District – Palamu, Jharkhand. The Public Hearing was presided by Shri L.C Dadel, ADM,

Palamu, Jharkhand. The representative of Jharkhand State Pollution Control Board was also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia included that priority to local people in employment, effective implementation of measures to control dust pollution, treatment responsibilities in case of injury. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that PP needs to implement the Action Plan and the Implementation Report has to be submit to the Regional Office of the MoEF & CC every six month.

The Committee noted that this was a violation case and the actions on violation have been submitted by the Jharkhand State Pollution Control Board, vide letter dated 11.08.2014. The Jharkhand SPCB, vide letter no. B-3977, dated 11.12.2014, has informed that case No. CG-10/2014 has been instituted against M/s Vinira Minerals in the Court of Chief Judicial Magistrate, Medninagar, District-Palamu to take cognizance of offence by the court under section 15 of the Environment (Protection) Act, 1986 which has been committed by the offending project. It is also submitted by the JSPCB that as per the inspection report of Regional Officer, Ranchi, mine was not in operation. The Project Proponent has also submitted a copy of the Board Resolution vide letter dated 18.11.2014

The cost of the Project is Rs. 70 Lakhs. The Proponent has earmarked Rs. 8.15 Lakhs (Rs. 3.75 Lakhs as Capital Cost & Rs. 4.40 Lakhs as Recurring Cost) towards Environmental Protection Measures. Proponent informed that Rs. 3.5 lakhs per annum have been earmarked towards CSR activities for next 5 years of mining operation. There is no litigation pending against the case.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Mineral Graphite (Major Mineral) with proposed production capacity of 3,300 TPA (ROM) of Graphite **subject to submission of (i) Approved Scheme of Mining (SoM) for 2016-2017 to 2021-2022 from the IBM; (ii) Updated status of court case on the violation which was filed by the Jharkhand SPCB.**

The Committee also **recommended** additional **specific conditions** viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking,

etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; (ii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The PP shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing; (iii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table; (iv) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (v) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (vi) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and (vii) Native plant species as suggested by villagers/specialist may be planted.

(2.32). Mining of Kanda – Sunargaon Soapstone (Minor Mineral) with proposed production capacity of 52,332 TPA (ROM) by Lessee Mrs. Nandita Tiwari, located at village Kanda Sunargaon, Tehsil – Kanda, District Bageshwar, Uttarakhand (MLA: 220.14ha) (Consultant: Environmental Consultant CEMC Pvt. Ltd.)- Re-Consideration of TOR

The proposed of Lessee Mrs. Nandita Tiwari is for Mining of Kanda – Sunargaon Soapstone (Minor Mineral) with proposed production capacity of 52,332 TPA (ROM) in the mine lease area 220.14ha. The mine is located at village Kanda Sunargaon, Tehsil – Kanda, District Bageshwar, Uttarakhand. The Geographically location of mine lease area is between Latitude 29°49'41.80" N to 29°49'24.10" N and Longitude 79°53'23.00" E to 79°53'53.27" E, covered under SOI Toposheet No. 53 O/13. The mine lease area falls in Village - Kanda Sunargaon, Tehsil - Kanda, District - Bageshwar, Uttarakhand.

Project Proponent has informed that Lease was first executed for a period of 20 years from 16-05-1972 which was expired on 15.05.1992. Second renewal for 10 years from 16.05.1992 was expired on 15.05.2002.

Third renewal was applied 07.06.2001 for a period of 20 years and the same is under consideration with the State Government. Mining Plan was approved vide letter no. 614(2)MS-B-13/96-DDN date 13-09-2012 for 5 years period. Total mine lease area is 220.14ha which is agriculture land. Method of Mining is open cast manual method in agricultural land. The mineral are exploited with the help of spade, crowbar, chisel etc. The inter-burden of low grade magnesite boulders intermixed with in soapstone body will be removed with the help of chisel, crowbar, Hammer etc. Water requirement for human consumption, plantation and dust suppression is 4 KLD, which shall be met from the Pipeline of Uttaranchal Jal Sansthan. The capital cost of the project is 17 lakhs.

The proposal of TOR was earlier considered by the EAC in its meeting held during January 20-22, 2016 wherein the Committee noted that the mine is operating without Environmental Clearance. The Committee deliberated at length and **deferred** the proposal and is of the view that first PP shall submit the details of production year wise authenticated by State Government to verify the type of violation.

The proposal was again placed in this meeting and **Project Proponent could not explain the quarries raised by the EAC in its previous meeting and therefore, the Committee again deferred the proposal for submitting the necessary information as sought by the EAC in its earlier meeting.**

(2.33). Sivalarpatti Limestone mine Lease - II with proposed production capacity of 0.21 Million TPA of limestone (0.24 Million TPA of ROM) by M/s The Ramco Cements Limited (TRCL), located at Kullakattankurichi, Pudur, Muthusampuram, Sivalarpatti and Vannipatti villages, Vilathikulam Taluk, Thoothukudi District, Tamil Nadu (MLA: 129.72ha)- (Consultant: Creative Engineers & Consultants)- Consideration of TOR

The proposal of M/s The Ramco Cements Limited (TRCL) is for Sivalarpatti Limestone mine Lease - II with proposed production capacity of 0.21 Million TPA of limestone (0.24 Million TPA of ROM). The mine is located at Kullakattankurichi, Pudur, Muthusampuram, Sivalarpatti and Vannipatti villages, Vilathikulam Taluk, Thoothukudi District, Tamil Nadu. The area lies in Survey of India Toposheet No.58 K / 3 between coordinates Latitude 9°17'47" to 9°19'59" N and Longitude 78°08'33" to 78°09'54" E. The project site is flat with an elevation ranging from 61 to 67 meters above MSL.

The total mine lease area of 129.72ha, consists of 0.975ha of Government Poramboke land and 128.745ha of private patta land. The Project Proponent reported that they had applied for fresh lease over an area of 129.72ha and State Government of Tamil Nadu vide letter dated 29.04.2013 has issued LOI to prepare to Mine Plan and take necessary clearances. Subsequently Department of Mines and Geology has carried out exploration work under Rule No. 75 of Mineral Concession Rule, 1960 to confirm the mineral reserves of limestone. The Committee Noted that the LOI issued in the Name of Madras Cements Limited. Further, Ministry of Corporate of Affairs vide letter dated 05.08.2013 has changed the name of company to the M/s Ramco Cement Limited in place Madras Cements Limited. Project Proponent reported that entire extent of the private patta lands applied for Mining Lease has been purchased and is under the possession of The Ramco Cements Limited (TRCL). The lease area does not include any forest lands. Mining operation will be carried out by open cast fully mechanized method. The life of mine will be about 11 years. The total water requirement would be 50 m³/day. No ecologically sensitive features like national parks, biospheres, sanctuaries, elephant corridors, Tiger reserves, flight paths of migrating fauna, etc. are located within the study area. The total project cost is about Rs. 307.28 Lakhs.

The Project Proponent mentioned that they had started collection of base line data since March 2016 and requested to monitor the baseline data on pre-monsoon season i.e. March-May 2016. The Committee accepted the request of the Project Proponent w.r.t. baseline data.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the **Committee recommended the proposal and prescribed the Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Impact of all existing mining on the present land use in the study area; and (iv) Details of excavation schedule & sequential mining plan.

(2.34). Alampara Iron Ore Mine with production capacity of 5.0 million TPA (ROM) of Iron Ore; 1.8 million TPA (ROM) Beneficiation Plant and 1.8 million TPA (ROM) Pelletization Plant by M/s MSPL Ltd., located at Village-Chakkittapara, Tehsil –Quilandy, District – Kozhikode, Kerala (406.45ha)- Re- Consideration of TOR

The Proposal of M/s MSPL Ltd. is for Alampara Iron Ore Mine with production capacity of 5.0 million TPA (ROM) of Iron Ore; 1.8 million TPA (ROM) Beneficiation Plant and 1.8 million TPA (ROM) Pelletization Plant in the mine lease area of 406.45ha. The site is located at Village-Chakkittapara, Tehsil –Quilandy, District – Kozhikode, Kerala. The mine lease area is 406.45ha which is Forests land. Method of Mining is opencast mechanized.

The proposal of TOR was earlier appraise in its meeting held during December 22-23, 2014 wherein the Committee prescribed the TOR subject to submission of revised Form-I and PFR. The Ministry received a complaint dated 18.01.2015 w.r.t. conciliation of NOC issued by State Government of Kerala. Accordingly the matter was examined in the Ministry and the Ministry vide letter dated 05.03.2015 requested the **State Government to provide the latest status of LOI / NOC on the said mining project for taking necessary action.**

The Project Proponent has submitted the online application and accordingly the proposal is placed in this meeting. The Project Proponent has informed that they had filed a **court case (WP (C) No. 11931 of 2015) in the Hon'ble High Court of Kerala against State Government of Kerala w.r.t. cancelation of NOC. The Hon'ble High Court,** vide its order dated 15.02.2016 inter-alia has made the directions,"The State Government is free to take a decision after advertng to the objection and hearing the petitioner within one month thereafter. The writ petition is disposed of as above".

The Project Proponent informed that the State Government has not provided the decision yet. **The Committee deliberated the issues and deferred the proposal and the same may be considered after the decision of State Government on the LOI /NOC on the said mining project.**

(2.35). Expansion of Gaura Graphite mine from 12,178 TPA – 24,049 TPA (ROM) by Lessee Shri Shishir Kumar Poddar, located at Plot No. 82 & 187 (Part), Village Gaura, P.S. Satbarwa, District-Palamau, Jharkhand (MLA: 4.664 Ha.) (Consultant: Perfact Enviro Solutions (P) Ltd. New Delhi)- Consideration of TOR

The proposal of Lessee Shri Shishir Kumar Poddar is for Expansion of Gaura Graphite mine from 12,178 TPA – 24,049 TPA (ROM) in the mining lease of 4.664 ha. The mine lease is located at Plot No. 82 & 187 (Part), Village Gaura, P.S. Satbarwa, District Palamau, Jharkhand. The latitude 23°55'41.099"N to 23°55'51.397" N and longitude 84°13'42.413" E to 84°13'49.508" E with maximum contour of 300 mRL and minimum contour of 280 mRL marks the lease area. The area falls in the Survey of India Topo-sheet no.73 A/1.

Project Proponent reported that the lease area of 4.664 ha comprises of 4.547 ha Government barren land and 0.117 ha private land. Originally, the lease of 16.33 acre (6.607 ha.) was sanctioned to Sri Shishir Kumar Poddar on 18.03.2002 but no mining was done in the area due to adverse marketing conditions till the area was reduced to 4.664 ha by surrendering the non-mineralized portion of the lease. The project proponent commenced mining operation in later part of 2012-13. Project Proponent reported that the Ministry, vide S.O. 2601 (E) dated 7th October, 2014 had made prior environmental clearance for all major mineral even for less than 5 ha area. Now, the Project Proponent has planned to expand the production capacity from this mine. Therefore, it has become essential to obtain environmental clearance for the enhanced production capacity.

The Scheme of mining for 5 years for the enhanced production from 12,178 TPA to 24,049 TPA has been submitted to IBM for approval. The topography of the area is moderately undulating comprising of small mounds in the North West portion. The nearest town from the lease area is Satbarwa at about 2.5 km SE, nearest railway station Kechki is situated at about 8.30km W. The Palamau Wildlife Sanctuary, Betla National Park and Mahuaadanr Wolf sanctuary are situated at about 4 kilometer south of lease area. Nearest rivers are Auranga River (2.12 km W), Maila Nadi (1.8 km E). The run off mine will be dispatched to the beneficiation plant of M/s Tirupati Carbon & Chemicals Limited. About 10 KLD water will be required per day at peak demand for sprinkling, plantation and domestic purpose. The estimated project cost is Rs 300 Lakhs. It is reported by the project proponent that there is no court case/litigation is pending against the project.

The Project Proponent mentioned that they had started collection of base line data since March 2016 and requested to monitor the baseline data on pre-monsoon season i.e. March-May 2016. The Committee accepted the request of the Project Proponent w.r.t. baseline data.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the **Committee prescribed the Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; and (iii) Impact of all existing mining on the present land use in the study area.

(2.36). Madhpura Limestone Mine of M/s Apex Cement and Mineral located at Village – Madpur, Tehsil – Khinvsar& District Nagaur , State - Rajasthan (998.65 ha)-Consideration of TOR

The Proposal was **deferred** as the Project Proponent did not attend the meeting.

(2.37). Quartz and quartzite mining project of M/s Flex Minerals, located at village Bhivdoni Tahsil Sausar; District –Chhindwara, State- Madhya Pradesh (MLA: 90.067 ha) - Consideration of TOR

The Proposal was **deferred** as the Project Proponent did not attend the meeting.

(2.38). Mining of Stone (Minor Mineral) with proposed production capacity of 16,48,401 TPA (ROM) by M/s Eco Coal Industries Pvt. Ltd., located in Plot no. 1469, Khata no.- 83 in village: Sirango, Block: Kanke of District: Ranchi, Jharkhand (MLA: 16.39 ha) (Consultant: Shivalik Solid Waste Management Ltd.)- Consideration of EC as Category "B2" Project

The proposal of M/s Eco Coal Industries Pvt. Ltd is for Mining of Stone (Minor Mineral) with proposed production capacity of 16,48,401 TPA (ROM) in MLA of 16.39 ha. The mine lease area is located at village – Sirango, District –Ranchi, State - Jharkhand. The mining lease area is located between the longitude 85° 14' 15.75" to 85° 14' 33.98" East & Latitudes 23° 28' 02.98" to 23° 28'14.68" North on the Survey of India

Toposheet number is 73A/12 & 73 B/9. **The Project Proponent has applied for the production of stone with capacity of 16,48,401 TPA (ROM) and requested before EAC that the capacity may be reduced by 50% and accordingly the Committee accepted the request of Project Proponent and now the proposal is for mining of 8.24 lakhs TPA (ROM) of Stone.**

The Project Proponent has informed that as per EIA Notification, 2006 and its amendments dated 15.01.2016, projects falls in category B2 as the lease area of the project is 16.39 ha, but due to absence of Jharkhand SEIAA the proposal has been submitted online to the portal of the MoEF&CC website. The Committee was informed by Project Proponent that they have submitted Form-1, Pre-feasibility Report, approved Mine Plan & EMP according to amended EIA notification, 2006 dated 15.01.2016 and requested for consideration of EC as per the provisions of the EIA Notification, 2006 dated 15.01.2016 without going for Environmental Impact Assessment and Public Consultation.

The Assistant Mining Officer, Ranchi, State Govt. of Jharkhand, vide letter no. 3011 dated 15.03.2016 has mentioned that there is no sanctioned mining within 500 meter radius of the lease area. The Committee felt that it is categorized as a Category 'B2' Project, TOR is not required and no formal EIA & public hearing is required in the instant case as per the provisions of the EIA Notification, 2006 as amended from time to time.

Total mine lease area is 16.39 ha. No forest land is involved. Existing land use pattern of the mining lease area is Govt. waste land. The mine lease area is generally a hill track with characteristics flat topped like topography. The maximum elevation is 725 m and the minimum elevation is 701 m AMSL. The Lessee applied for mining lease on 15.09.2015 for period of ten years w.e.f. from 15.09.2015 to 14.09.2025 over an area of 16.39 ha. Mine Plan was approved by Assistant Mining Officer, Ranchi, Jharkhand, vide letter dated 27.11.2015. Total 4.23 ha area will be developed as green belt with 10575 number of trees in the barrier zone of the lease area. Total geological reserves are 65218244 tonnes and Total Mineable reserves are 20483374.5.00 tonnes. Life of Mine is 12.43 years. Total water requirement is about 6.77 KLD. Drinking water will be brought from the nearby well and water for dust suppression and plantation will be collected from nearby villages and stored rainwater during monsoon season.

Method of mining is Opencast Mechanized. The operations like drilling of shot holes, sorting of stone and breaking at size will be done manually. Muffle blasting will be adopted as a precautionary measure. Loading and unloading on trucks will be done by manual method. The overburden removal may be done at times by excavator cum loader. Loading of the stone to destination will be done by truck. Haulage road will be developed at gradient of 1:16. During the life of mine of 12.43 years, the area will be worked out except 7.5 meter safety barrier. Manpower requirement is 46.

Project Proponent reported that there is no National Parks, Wildlife Sanctuaries, Tiger Reserves, eco sensitive zones falls within study area (10 Km radius of the mine boundary). It is reported by the Project Proponent that there is no court case/litigation pending against the Project. The total cost of Project would be around Rs.1.0 crore. Project Proponent has earmarked Rs. 6.0 Lakhs for Environment Protection measures such as pollution control dust suppression, Air & noise monitoring, green belt development and reclamation of mined out area.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for **Mining of Stone (Minor Mineral) with 50 % of the proposed production capacity i.e. 8.24 lakhs TPA (ROM) of Stone.**

The Committee also **recommended** additional **specific conditions** viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; (ii) An independent study be organised during peak activity, to understand how the actuals compare with the carrying capacities and further decisions taken to maintain sustainability of this essential stone extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of stone; (iii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table; (iv) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from

authorized pollution testing centres; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; Project Proponent shall appoint a Monitoring Committee to monitor the traffic management, levels of production and maintenance of Road etc.; (vi) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (vii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and (viii) Native plant species as suggested by villagers/specialist may be planted.

(2.39). Mining of Stone (Minor Mineral) with proposed production capacity of 8,55,911 TPA (ROM) by M/s Agrima Infra engineering Pvt. Ltd., located at village – Laharjori, District – Deoghar, Jharkhand (MLA: 7.24 ha) (Consultant: Shivalik Solid Waste Management Ltd.)- Consideration of EC as Category “B2” Project

The proposal of M/s Agrima Infraengineering Pvt. Ltd is for Laharjori Stone Mine with proposed production capacity of 8,55,911.00 TPA (ROM) of Stone in MLA of 7.24 ha. The mine lease area is located at village – Laharjori, District – Deoghar, Jharkhand. The mine lease area is generally a hill track with characteristics flat topped like topography. The maximum elevation is 296 m and the minimum elevation is 281 m AMSL. The mining lease area is located between the longitude 86°36'47.01" to 86°36'58.8" East & Latitudes 24°08'53.04" to 24°53'56.06" North on the Survey of India Toposheet number is G 45U/12. **The Project Proponent has applied for the production of stone with capacity of 8,55,911 TPA (ROM) and requested before EAC that the capacity may be reduced by 50% and accordingly the Committee accepted the request of Project Proponent and now the proposal is for mining of 4.28 lakhs TPA (ROM) of Stone.**

The Project Proponent has informed that as per EIA Notification, 2006 and its amendments dated 15.01.2016, projects falls in category B2 as the lease area of the project is 7.24ha, but due to absence of Jharkhand SEIAA the proposal has been submitted online to the portal of the MoEF&CC website. The Committee was informed by Project Proponent that

they have submitted Form-1, Pre-feasibility Report, approved Mine Plan & EMP according to amended EIA notification, 2006 dated 15.01.2016 and requested for consideration of EC as per the provisions of the EIA Notification, 2006 dated 15.01.2016 without going for Environmental Impact Assessment and Public Consultation.

The Assistant Mining officer, Ranchi, State Government of Jharkhand, vide letter no. 1963 dated 07.11.2015, has reported that there is no lease sanctioned or awaited within 500 meter of this lease area. The Committee felt that it is categorized as a Category 'B2' Project, TOR is not required and no formal EIA & public hearing is required in the instant case as per the provisions of the EIA Notification, 2006 as amended from time to time.

Total mine lease area is 7.24ha. No forest land is involved. Existing land use pattern of the mining lease area is Govt. waste land. The Lessee applied for mining lease on 23.01.2015 for period of ten years w.e.f. from 23.01.2015 to 22.01.2025 over an area of 7.24ha. Mine Plan was approved by Assistant Mining Officer, Deoghar, State Government of Jharkhand, vide letter dated 07.01.2015. Total 0.74ha area will be developed as green belt with 1850 number of trees in the barrier zone of the lease area. Total geological reserves are 21810438 tonnes and Total Mineable reserves are 8559702 tonnes. Life of Mine is 10 years. Total water requirement is about 4.06 KLD. Drinking water will be brought from the nearby well and water for dust suppression and plantation will be collected from nearby villages and stored rainwater during monsoon season.

Method of mining is Opencast Semi-mechanized. The operations like drilling of shot holes, sorting of stone and breaking at size will be done manually. Muffle blasting will be adopted as a precautionary measure. Loading and unloading on trucks will be done by manual method. The overburden removal may be done at times by excavator cum loader. Loading of the stone to destination will be done by truck. Haulage road will be developed at gradient of 1:16. During the life of mine of 10 years, the area will be worked out except 7.5 meter safety barrier.

Project Proponent reported that there is no National Parks, Wildlife Sanctuaries, Tiger Reserves, eco sensitive zones falls within study area (10 Km radius of the mine boundary). DFO, Deoghar, vide letter No 3036 dated 21.12.2015 has reported that the said site is not a part of forest land/ Jungle /Jhari and also no National Park /Sanctuaries/ eco sensitive zones is located within 10 Km.

The total cost of Project would be around Rs. 80.0 lakhs. Project Proponent has earmarked Rs. 5.5 Lakhs for Environment Protection measures towards capital cost and Rs. 3.5 lakhs as recurring cost such as pollution control dust suppression, Air & noise monitoring, green belt development and reclamation of mined out area. It is reported by the Project Proponent that there is no court case/litigation pending against the Project.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for **Mining of Stone (Minor Mineral) with 50 % of the proposed production capacity i.e. 4.28 lakhs TPA (ROM) of Stone.**

The Committee also **recommended** additional **specific conditions** viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; (ii) An independent study be organised during peak activity, to understand how the actuals compare with the carrying capacities and further decisions taken to maintain sustainability of this essential stone extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of stone; (iii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table; (iv) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; Project Proponent shall appoint a Monitoring Committee to monitor the traffic management, levels of production and maintenance of Road etc.; (vi) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater

Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (vii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and (viii) Native plant species as suggested by villagers/specialist may be planted.

(2.40). Malpahari (Plot No.: 226; Khata no. 74) Stone Mining Project of M/s Madhucon Projects Ltd., located near village Malpahari Police Station Pakur, District Pakur, State Jharkhand (5.93ha)- Consideration of TOR

The Proposal was **deferred** as the Project Proponent did not attend the meeting.

(2.41). Expansion of Limestone (Minor Mineral) Mining Project (M.L. No. 37/89) of M/s Divya Gehlot, located in Village Pundloo, Tehsil Merta, District Nagaur, Rajasthan (MLA: 76.12ha)- Amendments in EC No. J-11015/983/2007-IA. II (M) dated 26.08.2009 w.r.t. reduction of mine lease area from "76.14 ha to 76.12ha".

The proposal of Lessee Ms. Divya Gehlot is for amendments in EC No. J-11015/983/2007-IA.II(M) dated 26.08.2009 w.r.t. reduction of mine lease area from "76.14 ha to 76.12ha". The mine is located at village-Pundloo, Tehsil Merta, District Nagaur, Rajasthan. The lease area lies between Latitudes: 26°33'03.50" to 26°33'51.20" and Longitudes of 73°47'04.30" to 73°48'02.50" respectively on the Survey of India Topo sheet no. 45F/14.

The Committee noted that the Environmental Clearance was granted by the Ministry, vide letter no. J-11015/983/2007-IA.II. (M) dated 26.08.2009 for enhancement of production of Limestone (Minor Mineral) from 30,000 TPA to 1.5 Lakhs TPA in mine lease area of 76.14 ha.

Project Proponent has reported that due to overlapping of a part of area with the adjacent mining leases, the Department of Mines and Geology, Bikaner had carried out the DGPS Survey and it was found that the actual area for the mine is 76.12ha. Therefore, the lessee has reapplied for the renewal of M.L. for new area i.e. 76.12ha and the same has been approved by Department of Mines & Geology, Govt. of Rajasthan, vide letter dated 25.11.2010. The Department of Mines & Geology, Govt. of Rajasthan vide letter 19.10.2012 has extended the validity of Lease upto 24.04.2014. Project Proponent mentioned that with

this marginal reduction in area, no noticeable change in land use is anticipated.

Project Proponent has reported that Mining Plan with Progressive mine closure plan for the reduced area of 76.12ha was approved by State Mines and Geology Department, Government of Rajasthan, Bikaner, vide letter dated 03.09.2013. Project Proponent informed that they are regularly submitting six monthly compliance report of EC conditions to the Regional Office of the Ministry, Lucknow. The Project Proponent has reported that there is no litigation/ court case pending against the project.

The Committee deliberated the information submitted by PP and **recommended the proposal for Amendments in EC No. J-11015/983/2007-IA. II (M) dated 26.08.2009 w.r.t. reduction of mine lease area from "76.14 ha to 76.12ha".**

The Committee also **recommended additional specific conditions** viz. (i) Monitoring of Ambient Air Quality to be carried out based on the 2009 Notification, as amended from time to time by the Central Pollution Control Board; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (iv) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; and (v) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease.

(2.42). Mahalaxmi Soapstone & Dolomite Mining Project (Oden) of M/s Khetan Business Corporation Pvt. Ltd. located in Village (s) Oden and Rabcha, Tehsil nathdwara, District Rajsamand, Rajasthan- Consideration of Amendment of EC.

The Proposal was **deferred** as the Project Proponent did not attend the meeting.

(2.43). Bhadanpur Limestone Mining Project with production capacity of 2.3 million TPA by Maihar Cement, located in villages- Bhadanpur North Patti, Bhadanpur South Patti, Umrou, Piprahat & Srinagar, Tehsil- Maihar, District- Satna, Madhya Pradesh (ML Area: 663 ha) (Consultant: J.M. EnviroNet Pvt. Ltd.)-Amendment in EC no. J-11015/620/2007-IA.II (M), dated 20.08.2008 w.r.t. mining below ultimate working depth and inclusion of laterite within same capacity

The proposal of Maihar Cement is for amendments in Environmental Clearance no. J-11015/620/2007-IA.II (M), dated 20.08.2008 w.r.t. mining below ultimate working depth and inclusion of laterite within granted capacity of 2.30 million TPA in the mine lease area of 663ha. The mine lease area is located at villages- Bhadanpur North Patti, Bhadanpur South Patti, Umrou, Piprahat & Srinagar, Tehsil- Maihar, District- Satna, Madhya Pradesh. The Ministry had earlier accorded the environmental clearance for this project vide letter no. J-11015/620/2007-IA II (M), dated 20.08.2008 for 2.3 million TPA of limestone by opencast mechanized method involving lease area of 663ha.

The Proposal of amendments in EC was earlier considered by the EAC in its meeting held during May 28-30, 2014 wherein the Committee **deferred** the proposal and sought the information for further consideration viz. (i) Copy of approved mining plan for proposed depth; (ii) Hydrogeological study report; and (iii) Certified Compliance Report of Regional Office of the MoEF&CC for earlier EC.

Based on the information submitted by the Project Proponent online, the proposal is placed in this present meeting. Project Proponent reported that M/s Maihar Cement had carried out reassessment of the mineral deposit and found that the limestone reserves have increased along with existence of pockets of laterite available in the mining lease area as overburden in between reddish soil. As a result of which the Project Proponent mentioned that (a) the depth of the deposit has increased along with; and (b) increase in life of mine to mine 2.2 million TPA of Limestone

and 0.1 million TPA of Laterite for the first 7 years (till exhaustion of Laterite) and 2.30 million TPA of limestone for the remaining life of mine.

The Modified Scheme of Mining for mining lease of Limestone and Laterite has been approved by the IBM, vide letter MP/Satna/Limestone/M.sch/Modi-01/13-14/2270Jabalpur, dated 24.04.2014 and supplementary agreement with State Government for inclusion of laterite in the mining lease has been executed on 05.07.2014. The Certified report of compliance of EC conditions has been issued by Regional Office MoEF&CC, Bhopal, vide letter dated 12.01.2016. The mine working will intersect ground water table. The Hydrogeological study for the project has been conducted and submitted and NOC from CGWA regarding the same is under process. In light of the above proposal, Project Proponent requested the following amendments in the EC dated 20.08.2008:

Sl. No.	Para/ Conditions	As per existing EC dated 20.08.2008	Amendments sought in EC dated 20.08.2008
1	Subject Matter, Line 1	Expansion of Bhadanpur Limestone Mining Project (663 ha)	Bhadanpur Limestone and Laterite Mining Project (663 ha)
2	Para 1, Line 24, page 1&2	"The Ultimate working depth of mine will be 386m AMSL for western block pit (W1, W2 & W3) and Eastern Block (Pit E1) and 379 m AMSL for Central Block (Pit C-1 & C-2)	"The Ultimate working depth of mine will be 329m RL for western block pit (W1, W2 & W3), 340m RL Eastern Block (Pit E1) and 357 m RL for Central Block (Pit C-1 & C-2)
3	Para 1, Line 20, page 1	"The targeted production capacity of the mine is 2.3 million TPA of limestone and life of mine is 21 years."	"The targeted production capacity of the mine is 2.3 Million TPA and life of mine is ~62 years."
4	Para 1, Line 28, page 2	"The mine working will not intersect ground water table."	"The mine working will intersect ground water table".

5	Para 2, Line 5 & 6, page 2	"Bhadanpur Limestone Mining Project of M/s Maihar Cement for an annual production capacity of 2.3 million Tonnes of Limestone"	Bhadanpur Limestone and Laterite Mining Project of M/s Maihar Cement for an annual production capacity of 2.2 million TPA of Limestone and 0.1 million TPA of Laterite for the first 7 years (till exhaustion of Laterite) and 2.30 million TPA of limestone for the remaining life of mine"
6	A. Specific conditions (IV)	"The mining working shall be restricted to at least 3m above the ground water table and it shall not intersect ground water table at any point of time. In case of working below ground water table, prior approval of MoEF and CGWA shall be obtained for which a details hydrological study shall be carried out. The mine working shall be restricted to at least 3m above the groundwater table."	The Hydrogeological study for the project has been conducted and NOC from the CGWA regarding the same is under approval. The Mine working will now intersect the ground water table. Therefore this condition may be removed. The Committee deliberated the issues.

The Committee deliberated at length the information submitted by Project Proponent and noted that Project Proponent has conducted the Hydrogeological study and NOC from the Central Ground Water Authority is under approval. The Mine working will now intersect the ground water table. The Committee also noted that Laterite which was an overburden earlier and now the Project Proponent will mined out @ 0.1 million TPA of laterite within the granted capacity. The Committee accepted the request of Project Proponent w.r.t. mining project for an annual production capacity of 2.2 million TPA of Limestone and 0.1 million TPA of Laterite for the first 7 years (till exhaustion of Laterite) and 2.30 million TPA of

limestone for the remaining life of mine” and also the intersecting the ground water table.

The Committee deliberated at length the Scheme of mining; compliance report of earlier EC conditions and hydrogeological study report at length and **recommended** the Proposal for amendments in Environmental Clearance dated 20.08.2008 **subject to submission of CGWA approval for intersecting the ground water table** w.r.t. the following:-

Sl. No.	Para/ Conditions	As per existing EC dated 20.08.2008	Amendments sought in EC dated 20.08.2008	Recommendations of EAC
1	Subject Matter, Line 1	Expansion of Bhadanpur Limestone Mining Project (663 ha)	Bhadanpur Limestone and Laterite Mining Project (663 ha)	The request of PP may be accepted.
2	Para 1, Line 24, page 1&2	“The Ultimate working depth of mine will be 386m AMSL for western block pit (W1, W2 & W3) and Eastern Block (Pit E1) and 379 m AMSL for Central Block (Pit C-1 & C-2)	“The Ultimate working depth of mine will be 329m RL for western block pit (W1, W2 & W3), 340m RL Eastern Block (Pit E1) and 357 m RL for Central Block (Pit C-1 & C-2)	The request of PP may be accepted.
3	Para 1, Line 20, page 1	“The targeted production	“The targeted production capacity of the	The request of PP may be accepted.

		capacity of the mine is 2.3 million TPA of limestone and life of mine is 21 years."	mine is 2.3 Million TPA and life of mine is ~62 years."	
4	Para 1, Line 28, page 2	"The mine working will not intersect ground water table."	"The mine working will intersect ground water table".	The request of PP may be accepted subject to submission of CGWA approval for intersection the ground water table.
5	Para 2, Line 5 & 6, page 2	"Bhadanpur Limestone Mining Project of M/s Maihar Cement for an annual production capacity of 2.3 million Tonnes of Limestone"	Bhadanpur Limestone and Laterite Mining Project of M/s Maihar Cement for an annual production capacity of 2.2 million TPA of Limestone and 0.1 million TPA of Laterite for the first 7 years (till exhaustion of Laterite) and 2.30 million TPA of limestone for the remaining life of mine"	The request of PP may be accepted subject to submission of CGWA approval for intersection the ground water table.
6	A. Specific conditions (IV)	"The mining working shall be restricted to at least 3m above the	The Hydrogeological study for the project has been conducted and NOC from the	The request of PP may be accepted subject to submission of CGWA approval for intersection the

		<p>ground water table and it shall not intersect ground water table at any point of time. In case of working below ground water table, prior approval of MoEF and CGWA shall be obtained for which a details hydrological study shall be carried out. The mine working shall be restricted to at least 3m above the groundwater table."</p>	<p>CGWA regarding the same is under approval. The Mine working will now intersect the ground water table. Therefore this condition may be removed.</p>	<p>ground water table.</p>
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(2.44). Bhadanpur Limestone Mine with Production Capacity 1.297365 million TPA by M/s Maihar Cement, located at Villages- Bhadanpur North Patti, Bhadanpur South Patti and Mohrwa, Tehsil- Maihar, District- Satna, Madhya Pradesh (MLA: 296.956ha) (Consultant: J.M. EnviroNet Pvt. Ltd.)-Amendment in EC no. J-11015/622/2007-IA.II (M), dated 26.08.2008 w.r.t. ultimate working depth

The proposal of M/s Maihar Cement is for amendments in Environmental Clearance for Amendment in Environmental Clearance of Bhadanpur Limestone Mining Project with Production Capacity 1.297 million TPA in the mine lease area of 296.956ha the mine is located at Villages- Bhadanpur North Patti, Bhadanpur South Patti & Mohrwa, Tehsil- Maihar, District- Satna, Madhya Pradesh. The Ministry had earlier accorded the environmental clearance for this project vide letter no. J-11015/622/2007-IA.II (M) dated 26th August, 2008 for limestone production capacity of 1.297365 million TPA of limestone by opencast mechanized method involving mining lease area of 296.956 ha.

The Proposal of amendments in EC was earlier considered by the EAC in its meeting held during May 28-30, 2014 wherein the Committee **deferred** the proposal and sought the information for further consideration viz. (i) Copy of approved mining plan for proposed depth; (ii) Hydrogeological study report; and (iii) Certified Compliance Report of Regional Office of the MoEF&CC for earlier EC.

Based on the information submitted by the Project Proponent online, the proposal is placed in this present meeting. Project Proponent reported that M/s Maihar Cement has carried out reassessment of the mineral deposit and found that the limestone reserves have increased to 54.289 million tonnes resulting in increase in depth of the deposit and life of mine to 16 years. The details are given below:

Sl. No.	Name of pit & blocks	Ultimate working depth (in AMSL)	
		As per existing EC	Proposed
1.	North Block	358 m	340 m
2.	Pit A	370 m	360 m
3.	Pit B	358 m	358 m

The Certified report of compliance of EC conditions has been issued by Regional Office MoEF&CC, Bhopal, vide letter dated 12.01.2016. The Scheme of Mining for reassessed reserves and revised working depth has

been approved by IBM, vide letter MP/Satna/Limestone/MPLN/R-20/2014-15 Jabalpur, dated 22.04.2015. The renewal of NOC dated 29.06.2009 for ground water withdrawal (mining pit seepage) has been obtained from CGWA, vide letter no. 21-4(58)/NCR/CGWA/2009-627, dated 22.04.2016. PP requested to amend the EC with respect to increase in ultimate working depth. The mine working will intersect ground water table. The Hydrogeological study for the project has been conducted. In light of the above proposal, Project Proponent requested the following amendments in the EC dated 24.08.2008:

Sl. No.	Para/ Conditions	As per existing EC dated 24.08.2008	Amendments sought in EC dated 24.08.2008
1	Para 1, Line 23-25, page 1	There are three working pits. The ultimate working depth of mine will be 358m AMSL for North Block Pit and Pit-B and 370m AMSL for Pit-A.	There are three working pits. The ultimate working depth of mine will be 340m AMSL for North Block Pit; 360m AMSL for Pit A and 358m AMSL for Pit B.

The Committee deliberated the Scheme of mining and compliance report of earlier EC conditions at length and **recommended** the Proposal for amendments in **Environmental Clearance dated 24.08.2008 w.r.t.** the following:-

Sl. No.	Para/ Conditions	As per existing EC dated 24.08.2008	Amendments sought in EC dated 24.08.2008	Recommendations of EAC
1	Para 1, Line 23-25, page 1	There are three working pits. The ultimate working depth of mine will be 358m AMSL for North Block Pit and Pit-B and 370m AMSL for Pit-A.	There are three working pits. The ultimate working depth of mine will be 340m AMSL for North Block Pit; 360m AMSL for Pit A and 358m AMSL for Pit B.	The Committee deliberated the Scheme of mining and compliance report of earlier EC conditions at length and accepted the request of PP.

Additional items with the permission of the Chair

(3.1) Mining of Masonary Stone (Minor Mineral) with production capacity of 65,46,800 TPA (ROM) by Lessee Shri Samun Khan, located at Villages Nangal, Buapur Garhi and Begpahari, Tehsil-Nagar, District-Bharatpur, Rajasthan (ML No. 49/2001; ML Area 71.2391ha)- (Consultant: Vardan EnviroNet)-Consideration of EC.

The proposal of Lessee Shri Samun Khan is for Mining of Masonary Stone (Minor Mineral) with production capacity of 65,46,800 TPA (ROM) in ML No. 49/2001, Area 71.2391ha. The mine lease area is located at villages Nangal, Buapur Garhi and Begpahari, Tehsil-Nagar, District-Bharatpur, Rajasthan. The Latitudes and Longitudes are North 27°32'56.3"N; 27°33'07.2"N; 27°33'26.3"N; 27°33'23.9"N; 27°33'23.9"N, 27°33'23.9"N; 27°33'10.6"N; 27°32'58.6"N; 27°32'56.6"N; 27°32'54.8"N and East 77°9'31.9"E; 77°9'35.1"E; 77°9'37.6"E; 77°9'44.7"E; 77°9'44.7"E; 77°9'55.3"E; 77°10'05.4"E; 77°10'07.8"E; 77°10'11.4"E; 77°9'59.2"E; 77°9'57.3"E on Survey of India toposheet (OSM) numbers 54E2 54E3, 54E6 and 54E7. The Project is located in Seismic zone-III.

The proposal of TOR was considered by the EAC in its meeting held during December 21-22, 2015. The Ministry has issued the TOR vide letter No. J-11015/396/2015-IA.II (M), dated 13th January 2016. The EIA/EMP Report was submitted online to Ministry for seeking environment clearance.

The mine lease area 71.2391ha. The land use of the lease area is Govt. waste Land (Gair Mumkin Pahar). No forest land is involved. The mine lease was transferred in favour of Shri Samun Khan S/o Shri Bannu Khan R/o Village-Nangal, Tehsil-Nagar, District-Bharatpur, Rajasthan, vide order No. 1346 dated 29.07.1995. In view of Hon'ble Rajasthan High Court, Jaipur bench order dated 21.09.2011 and 31.12.2012, the Mining Engineer Bharatpur, State Mines and Geology Department, Government of Rajasthan granted fourth renewal vide the order dated 02.03.2015 for 20 Years with effect from 06.05.2001 to 05.05.2021. The Department of Mines and Geology, State Govt. of Rajasthan, vide dated 29.02.2016, has reported that the mining activities were carried out during 1991 – 2003 and also mentioned that based on the request of Project Proponent the lease area of 78.7609ha were surrendered from 150ha. Now the reduced lease area is 71.2391ha.

The method of mining is open cast fully-mechanized with drilling and blasting. Mining Plan along with Progressive Mine Closure Plan has been

approved by State Govt. of Rajasthan, vide dated 04.03.2016. Project Proponent reported that the land use plan of the mine lease for the end of 5th year will be as 46.8632ha for Pits and quarries; 6.3642ha for Dumps/over burden; 0.0614ha for Mineral Stack Yard; 0.0285ha for Infrastructure; 0.1313ha for Roads; 0.8911ha for Green Belt; and 16.8994ha for undisturbed area. The mining depth will be 66.0 m. Project Proponent reported that mining will be done leaving a safety distance of 7.5 m around the periphery of the mine. Mining will be done in two shifts. The site elevation from 212 mRL to 278 mRL. The total water requirement is 85.00 KLD including water demand for domestic purpose, dust suppression and plantation which shall be met by hired tanker. The Project Proponent has informed that an application for NOC has been submitted to CGWA on 21.02.2016 for abstraction of ground water which is awaited.

Mineral will be transported through road by trucks to nearby stone crusher. Project Proponent has made the Traffic Analysis survey and reported that frequency of trucks will be deployed 2160 per day (20 tons capacity each) which increase 405 PCUs per hour for three highways SH-45, SH-22, MDR 50. The LOS value from the proposed mining will be changed for SH-45 and SH-22 from "Very Good" to "Good", but LOS value for MDR 50 will remain the same. Project Proponent reported that haul roads will be repaired regularly and maintained in good conditions. Also proponent proposed to plant 2500 Nos. of trees (local species) every year to mitigate the fugitive emission.

Project Proponent reported that no National Parks, Wildlife Sanctuaries, Tiger Reserves, eco sensitive zones falls within study area (10 Km radius of the mine boundary). Two schedule-I species namely *Pavo cristatus* (Indian Peafowl) and *Varanus bengalensis* (Common Indian monitor) and four schedule – II species namely *Canis aureus* (Jackal); *Herpestes edwardsi* (Common Mongoose); *Macaca mulatta* (Rhesus macaque); and *Naja Naja* (Indian Cobra) recorded in study area. The Conservation Plan was prepared which is under approval. The Government of Rajasthan, Mines and Geology Department, Bharatpur, vide letter dated 15.10.2013, has confirmed the mine lease no. 49/2001 does not fall in the Aravali Hills. Baseline data has been collected during Post-Monsoon season i.e. December 2015 to February 2016) within 10 Km radius of the study area. All the parameters for water, soil, noise and air quality were within permissible limits.

The Public Hearing for the proposed project was conducted on 05.04.2016 at 11:30 AM at Atal Sewa Kendra, Gram Panchayat-Dabak, Bharatpur, Rajasthan. The Public Hearing was presided by Mr. O.P. Jain,

ADM, Bharatpur. The issues raised during the public hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, village development activities and do not harm nearby fields and social development of village. The Committee deliberated and is of the view that Project Proponent needs to implement the Action Plan and the Implementation Report has to be submitted to the regional office of the MoEFCC every six month.

The capital cost of the project is Rs. 10.00 Crores. Project Proponent has reported that they have earmarked Rs. 30.50 Lakhs towards Environmental Protection measures as capital cost and Rs. 19.50 Lakhs per annum as recurring cost; Rs. 30.00 Lakhs for Occupational Health and Safety; Rs. 34.75 Lakhs per annum for CSR related activities and Rs. 18.00 Lakhs towards implementation of Conservation Plan.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for Mining of **Mining of Masonary Stone (Minor Mineral) with production capacity of 65,46,800 TPA (ROM)**.

The Committee also **recommended** additional **specific conditions** viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; (ii) An independent study be organised during peak activity, to understand how the actuals compare with the carrying capacities and further decisions taken to maintain sustainability of this essential stone extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of stone; (iii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The PP shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing; (iv) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table; (v) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the

vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (vi) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; Project Proponent shall appoint a Monitoring Committee to monitor the traffic management, levels of production and maintenance of Road etc.; (vii) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (viii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; (ix) A comprehensive study for slope stabilization of mine benches and OB dumps shall be undertaken within one year; (x) Washing of all transport vehicle should be done inside the mining lease; and (xi) Native plant species as suggested by villagers/specialist may be planted.

(3.2) Mining of Balu/Sand on Sakri, Panchanay, Khuri, Nati, Dhanarjay, Tilaiya and Dhadhar riverbed with Production Capacity of 41,47,000 TPA by M/s Jai Mata Dee Enterprises located at District-Nawada, Bihar (Area 402.98 ha.)- (Consultant: Vardan EnviroNet Gurgaon)- Consideration of EC.

The proposal of M/s Jai Mata Dee Enterprises is for Balu/Sand Mining with annual production capacity 41,47,000 Tons/annum over an Area 402.98 ha on Sakri, Panchanay, Khuri, Nati, Dhanarjay, Tilaiya and Dhadhar riverbed District-Nawada, Bihar.

The Latitudes of Balu/Sand Mine on Sakri River (North End N25°01'42"; South End N24°46'52"), Panchane River (North End N25°00'54"; South End N24°55'55"), Nati River (North End N24°55'00"; South End N24°48'22"), Tilaya River (North End N24°55'44"; South End N24°34'45") Dhadhar River (North End N24°55'55"; South End N24°34'45"), Dhanarjay River (North End N24°57'00"; South End N24°35'10"), Khuri River (North End N24°59'40" South End N24°38'57") and the longitudes of Balu/Sand Mine on Sakri River (North End E85°34'06"; South End E85°44'25"), Panchane River (North End E85°31'18"; South End E85°25'00"), Nati River (North End E85°50'30" South End E85°57'23"), Tilaya River (North End E85°24'43"; South End E85°19'48"), Dhadhar River (North End E85°25'00"; South End E85°19'48"),

Dhanarjay River (North End E85°29'16" South End E85°34'06"), Khuri River (North End E85°29'25"; South End E85°32'48") with toposheet (Survey of India) numbers 72H1, 72H2, 72H5, 72H6, 72H9, 72H10, 72H13, 72L1, 72L2, G45N12, G45T7 and 72G16. Project Proponent reported that no National Parks, Wildlife Sanctuaries, Tiger Reserves, eco sensitive Zones falls within study area (10 Km radius of the mine boundary). However, there are 2 reserve forests and some protected forest are present in 10 Km radius of lease area. The conservation plan has been prepared to protect the wildlife and accordingly a budget of Rs. 18.00 Lakhs has been allocated to conserve the wildlife in the study area. The Project is located in Seismic zone-III. As per EIA Notification dated 14th September, 2006 this project falls under Category "A", 1 (a), as the lease area is more than 50 Ha.

The TORs were issued by MoEF&CC vide letter No. J-11015/37/2015-IA.II (M) dated 27.04.2015. The proponent submitted Final EIA/EMP to the Ministry on 15.03.2016 for seeking environmental clearance after conducting public hearing.

The mine lease area 402.98 Ha. The land use of the lease area is Gair Mumkin Nadi Nala. No forest land is involved. M/s Jai Mata Dee Enterprises, R/o Hanuman Complex, Main Road, Nawada, Bihar has been granted the Letter of Intent (LOI) for mining of Balu/Sand (Minor Mineral) under Bihar Minor Mineral Concession Rules, 1972 by District Mining Officer, Nawada (Bihar) vide Memo No.860 dated 01.11.2014.

The proposed project is for mining of Balu/Sand (Minor Mineral) by open cast semi-mechanized and No drilling/blasting are required as the material is loose in nature at District-Nawada, Bihar. The total water requirement is 36 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by hired tanker. The mining during said period would restrict to depth which would not be more than 3 m. Mineral Balu/Sand will be transported by trucks.

Project Proponent reported that mining will be done leaving a safety distance from the banks as per mineral concession rule of Bihar State. Mining will be done during day time only. The site elevation from 70-84 m AMSL in North to 120-265 m AMSL in South.

Mineral will be transported through roads. Project Proponent has made the Traffic Analysis survey and reported that frequency of trucks will be deployed 1104 per day (25 tons capacity each) which increase 414 PCUs per hour for highways NH-31, NH-82, SH-8, SH-70, SH-71, SH-82, SH-83. The LOS value from the proposed mine will be the same as before i.e. "C" or

“Good” for the National and State highways falling in the study area. Project Proponent reported that haul roads will be repaired regularly and maintained in good conditions.

Baseline data has been collected from Pre-Monsoon (1st March 2015 to 31st May, 2015) within 10 Km radius of the study area as directed by committee members. All the parameters for water, soil, noise and air quality were within permissible limits.

The public hearing for the proposed project was conducted on 12.03.2016 at 12:30 PM at Nagar Bhawan, Nawada. The public hearing was presided over by District Magistrate, Nawada. The issues raised during the public hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, village development activities and do not harm nearby fields and social development of village.

The capital cost of the project is Rs. 81.90 Crores; the cost for Environmental Protection is Rs. 28.00 Lakhs; Budget for Occupational Health and Safety is Rs. 15.00 Lakhs. For CSR Rs. 11.25 Lakhs/annum will be allocated in this proposed Balu/sand mining activity.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Mineral Sand (Minor Mineral) on Sakri, Panchanay, Khuri, Nati, Dhanarjay, Tilaiya and Dhadhar riverbed with Production Capacity of 41,47,000 TPA by M/s Jai Mata Dee Enterprises located at District-Nawada, Bihar over mine lease area of 402.98 ha.

The Committee also **recommended** additional specific conditions viz. (i) Project Proponent shall implement the Disaster Management Plan as the mine lease area is located in Seismic Zone-IV. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the

surrounding villages may be provided medical facilities; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) The number of trips of the trucks shall not exceed the estimated quantity of 400 trucks trips per day. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) Washing of all transport vehicle should be done inside the mining lease; and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(3.3). J-11015/1003/2007-IA.II (M)(pt.) Clarification regarding utilization of road for transportation of mineral from Daitari Mining lease as stipulated in the environmental clearance order pertaining to Daitari Iron Ore Mining Project of Odisha mining Corporation Ltd located in village Talapada, Tahasil Harichandanpur of Keonjhar District and Sukinda Tahasil of Jajpur District.

The Proposal of Odisha mining Corporation Ltd is located at village Talapada, Tehsil Harichandanpur of Keonjhar District and Sukinda Tehsil of Jajpur District is for mining of Iron Ore with production capacity of 3.0 million TPA. The Environmental Clearance to the project was granted in 2010 vide no. J-11015/1003/2007-IA .II (M) dated 22nd September 2010.

As per the proposal of M/s OMC Ltd and EC granted by MoEFC the total mine lease area of the project is 1812.99ha, out of which 10.687ha is an agricultural land, 1619.937 ha is forestland and 182.366ha is wasteland. Area proposed for

mining is 61.63ha, an area of 5.5ha is kept for dumping of sub-grade, 14ha for mineral storage, 5.5ha for infrastructure, 8.97ha for roads, 94.6ha for green belt and 1622.79ha is others (untouched area). The proposal was for opencast mining by mechanized method involving drilling and blasting. The targeted production capacity of the mine is 3,000,000TPA(3million TPA) of iron ore and the life of mine is 23years. Approximately 10,000TPD of iron ore will be transported through 3.8km long downhill closed conveyor belt upto the stock pile at Ballparbat and the sized ore from Baliparbat will be dispatched by the rail.

However, instead of transporting iron ore through closed conveyor, the ore produced from the said mine was observed to have been transported through Ghat Road (surface Road) up to the Baliparbat stock pile located at a distance of about 10 km, in contravention to the aforesaid EC. In this regard The M/s OMC Ltd. sought the amendment in the above mentioned EC.

The M/s OMC submitted that amendment is required for sustained iron ore demand from NINL, TISCO, MESCO etc. the production capacity of 3 MTPA from Daitari is essential to meet contract agreement by Odisha Govt. The LDBC was installed in 1967. Maintenance problem increases substantially while transporting more than 2 MTPA. Frequent power failures and stoppages of LDBC causes disruption of transportation, necessitating use of road. Due to association of limonitic material in ore the ore becomes sticky and the LDBC system stop requiring clearing of chutes. Livelihood of local people subsequently depends on truck transportation (including loading and unloading)

The Committee noted that EIA study on the impact of road transportation has not been done therefore till the amendment of environmental clearance is done the transportation shall be done by conveyor belt as mentioned in the environment clearance letter.

The Committee deliberated at length the information submitted by Project Proponent and **deferred** the Proposal and sought the following information/clarifications and as soon as they submit the report, this proposal will be taken up in the EAC for appraisal.

- (i) A detail report on environmental implication of road transportation along with proposed mitigation measures

Standard Terms of Reference (TOR)

- 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/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.
- 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 alongwith 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 Dept. 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 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.

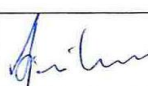
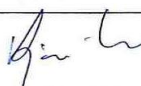
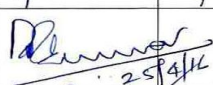

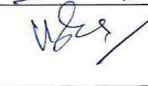
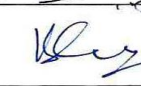



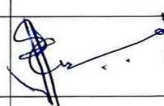
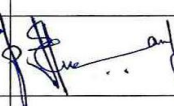






- 24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water 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) 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.

Annexure II

LIST OF EXPERT APPRAISAL COMMITTEE (MINING - Non Coal Mining Sector)

Sl. No.	Name	Designation	25.04.2016	26.04.2016
1.	Dr. Ajai Kumar	Chairman		
2.	Shri B Ramesh Kumar	Member	 25/4/16	 26/4/16
3.	Prof. Dr. K.S. Rana	Member		
4.	Prof. A. K. Bhatnagar,	Member		
5.	Dr. N. C. Karmakar	Member		
6.	Dr. Hemant S. Sahasrabuddhe	Member		
7.	Prof. S. Ramakrishna Rao	Member	 S. Ramakrishna Rao	 S. Ramakrishna Rao
8.	Dr. Himanshu Pathak,	Member		
9.	Dr AL. Ramanathan	Member		
10.	Dr. Tushar Kant Joshi,	Member		
11.	Shri Santosh Gupta,	Member		
12.	Shri. K.S. Yadav, Representative of Ministry of Mines	Member		
13.	Mr. V.K. Soni, Representative of Indian Meteorological	Member		
14.	Dr. (Ms.) Asha Rajvanshi, Representative of Wildlife Institute of India,	Member		
15.	Dr. U. Sridharan Director IA-Division (Non Coal Mining)	Member Secretary		

List of Representatives of the Project Proponents

1. Representative of **M/s UltraTech Cement Ltd**
2. Representative of **M/s Zelkova Buildcon Private Limited**
3. Representative of **M/s M/s Charites, Real Estate Pvt. Ltd.**
4. Representative of **M/s M/s. Manohar V. Daryanani**
5. Representative of **M/s M/s Hutti Gold Mines Company Limited**
6. Representative of **M/s M/s Sri Somesh Bharadwaj**
7. Representative of **M/s M/s ACC**
8. Representative of **M/s M/s Steel Authority of India Ltd**
9. Representative of **M/s Srinivasa Minerals**
10. Representative of **M/s Andhra Pradesh Mineral Development Corporation Limited**
11. Representative of **M/s New Laxmi Granites**
12. Representative of **M/s Shri Gurcharan Singh**
13. Representative of **M/s Shri Rakesh Choudhary**
14. Representative of **M/s K. Seshagiri Rao and Co.**
15. Representative of **M/s. Shri Shirdi Sai Minerals Private Limited**
16. Representative of **M/s T. K. Chandrappa**
17. Representative of **M/s Shri Som Prakash Sethi**
18. Representative of **M/s Shri Aman Sethi**
19. Representative of **M/s. Shreesha Enterprises Pvt. Ltd.**
20. Representative of **M/s Sampatmal S. Iodha**
21. Representative of **M/s S M Contractors & Suppliers**
22. Representative of **M/s Rajendra Singh Ranawat**
23. Representative of **M/s Manoj Kumar Jain**
24. Representative of **M/s Shri Naresh Gautam**
25. Representative of **M/s Rashtriya Ispat Nigam Limited (RINL)**
26. Representative of **M/s. Sanjay Kumar Garg**
27. Representative of **M/s Garhwal Mandal Vikas Nigam Ltd.**
28. Representative of **M/s Vinira Minerals**
29. Representative of **Lessee Mrs. Nandita Tiwari**
30. Representative of **M/s The Ramco Cement Limited (TRCL)**
31. Representative of **M/s MSPL Limited**
32. Representative of **M/s Shri Shishir Kumar Poddar**
33. Representative of **M/s Apex Cement and Mineral**
34. Representative of **M/s Flex Minerals**
35. Representative of **M/s Eco Coal Industries Pvt. Ltd.**
36. Representative of **M/s Agrima Infra engineering Pvt. Ltd.**
37. Representative of **M/s Madhucon Projects Ltd.**
38. Representative of **M/s Divya Gehlot**
39. Representative of **M/s Khetan Business Corporation Pvt. Ltd.**
40. Representative **M/s Maihar Cement**

- 41. Representative of **M/s Jai Mata Di Enterprises**
- 42. Representative of **M/s Samun Khan**
- 43. Representative of **M/s OMCL**
