

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

SUMMARY RECORD OF 35th MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The 35th 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 **June 24-26, 2015**. 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). Circulation of the Minutes of the 34th EAC Meeting

The Minutes of the 34th Meeting of EAC held during **May 27-29, 2015** were circulated.

Day 1: 24th June, 2015 (Wednesday)

Item No. 2:

Consideration of Environmental Clearance Proposals

(2.1). Enhancement of production of Dharampur-Kajawadri Limestone Mine with proposed capacity of from 40,000 TPA to 0.20 Million TPA of M/s Saurashtra Chemical Ltd. near village Dharampur, District Porbandar of Gujarat (40.47 ha) (Mantech Consultants Pvt. Ltd.)-EC

The Committee noted that it is a category 'B' Project and may be transferred to SEIAA, Gujarat.

(2.2). Mining of limestone with proposed production capacity of 0.06 million TPA (ROM) in Kuteshwar Limestone Mine (Left Bank Lease) by M/s Steel Authority of India Limited, located at village-Kuteshwar, Tehsil-Vijayraghavgarh, District-Katni, Madhya Pradesh (91.14 ha) (Consultant-Bhagavathi Ana Labs Pvt. Ltd.)-EC

The proposal is for Mining of limestone with proposed production capacity of 0.06 million TPA (ROM) in Kuteshwar Limestone Mine (Left Bank Lease). The mine lease area is located at Kuteshwar Village in Vijayraghavgarh Tehsil Katni District, Madhya Pradesh. The Latitudes and Longitudes of the mine lease area are 23°58'28" N & 23°59'22" N and 80°48'55" E & 80°49'43" E respectively on Topo sheet no. No 63 D/16 & 64A/13.

The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during March 13-15th, 2013 to determine the Terms of Reference

(ToR) for undertaking detailed EIA study. The ToR were issued by the Ministry vide letter No. J-11015/450/2012-IA.II (M) dated 13.05.2013. The Project Proponent (PP) has submitted the EIA/EMP report on-line to the Ministry for seeking environmental clearance after conducting public hearing. The PP also, submitted a request on 24th June, 2015 to condone the delay of one day in submitting the EIA/EMP Report and has requested to extend the validity of ToR. The Committee noted that TOR was issued on 13.05.2013 which was valid up to 12.05.2015. The PP submitted the online EIA/EMP Report after delay of one day. The Committee accepted the request of PP and extended the validity of TOR.

The Ministry has earlier accorded the environmental clearance to the project vide MOEF letter no. J-11015/34/93-IA II (I) dated 16th June, 1995 under the provisions of EIA Notification, 1994. The certified compliance report of the conditions stipulated in the earlier EC was submitted by the Regional Office of MoEFCC, Bhopal vide their letter dated 08.09.2014. The Committee deliberated the compliance status at length and found it to be in order.

The Project Proponent reported that total mine lease area is 91.14 ha. Out of which 19.80 ha area will be used for Mining (excavation), 6.764 ha for overburden/dumps, 0.03 ha for infrastructure development, 3.50 ha for roads, 61.046ha will be undisturbed area. The Mining Plan of Left Bank Lease has been approved by the IBM vide letter No. M.P/KATNI/LIMESTONE/ MPLAN/PSU/R-02/02-03 dated 02-09-2003. The Mining Plan was modified and approved by the IBM vide letter no. MP/Katni/MP/Modi-05/04-05/5237 dated 02.11.2004. Third Scheme of Mining was approved by the IBM for a period 2012-13 to 2016-17 vide letter No. MP/Katni/Limestone/M.Sch.-18/14-15/6664, dated 01-12-2014. The Project Proponent reported that the total Limestone reserves in the mine lease area were estimated as 62.8 million tonnes upto a depth of 320 metres, of which proved reserves were 3.1 million tonnes, prefeasibility resources were 13.63 million tonnes and feasible resources were 18.07 million tonnes and inferred resources were 28 million tonnes. However, as most of the lease area is under submergence of Bansagar Dam during the major part of the year, and all the working pits are filled up by inundated water of the Dam, the mineable reserves have been reclassified considering the present available mineable area and working depth, i.e. from 339 m to 335 m RL (4 m). On the basis of the mineable reserve of 4,80,000 tonnes (0.48 million tonnes) and annual proposed production rate of about 60,000 tonnes, the anticipated life of the mine will be about 8 years.

Mining operations started at Left Bank Lease in 1993 through manual means. The mine is being operated by Opencast Mechanized method using heavy earth moving machinery (HEMMs) for various operations like drilling, blasting, loading, transportation, etc. However, the blasted ore will be sorted and sized to +25 to -75 mm limestone manually. The deposit is being mined by top-slicing open cast fully mechanized method i.e. as per current practice, aided by drilling and blasting. In this scheme of mining period, the mining will be carried out by developing the present working pit towards north direction by leaving 3 m space from the pit as safety measure. The working will be carried out with a bench height of 1.5 m from about 339 m to 337.5 m. After the recession of water in the post-monsoon season, mining will be resumed by de-silting the mining area. For

expediting the drying up of the working quarry, the accumulated water will be drained out. Working will be carried out by leaving 3 m safety zone from the present working face which will act as a safety wall of 3 m width for the proposed working pit, which will be properly fenced by barbed wire to protect workers. The mining will be planned in the available higher level areas and the depth of working will be confined to 1.5 m bench. The sized material will be loaded by manual labour into 22 tonner dumper / tippers and also by using loader / excavator for loading and transporting to the railway siding at Khanna-Banjari for onward transportation to different SAIL Steel Plants as per their requirements. The inter-burden and silt forming the waste material will be sorted out manually and loaded into dumper for transportation to the dump site along the north-western boundary of the lease.

Project Proponent reported that there is no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife Corridor in the 10 km radius study area of the Kuteshwar Mine Lease. Bandhavgarh National Park is located at about 13.2 km S of the mine lease area. Hardua Reserve Forest (5.1 km NW), Karreha Reserve Forest (7.5 km N), Bara Reserve Forest (5.5 km NE) and an Open Mixed Jungle (6.7 km SE) are located within the study area. There is no endangered or endemic flora and fauna species observed in the study area of the project. There is no forest in the mine lease area. There are four forests in the study area viz., Hardua Reserve Forest (5.1 km NW), Karreha Reserve Forest (7.5 km N), Bara Reserve Forest (9.0 km NE) and Open Mixed Jungle (6.7 km SE). There is no nallah flowing in the lease area. River Chhoti Mahanadi flows through the eastern boundary of the lease area. Presently the deepest level of the mine is at 332 m RL which is much above the ground water table. As there is no ore beneficiation / washing of ore at Left bank Lease, water is mainly required for dust suppression & plantation (20 KLD), Drinking (3 KLD). Total water requirement in the mine is about 23 m³ per day.

The baseline season data was generated during summer season i.e. March to May 2013. The Committee deliberated on the data monitored and was of the opinion that as the base line data was in accordance with the prescribed ToR and all the parameters are well within the permissible limits, the base line data could be accepted.

The Public hearing was held on 28.02.2014 which was presided over by Shri Dinesh Srivastav, ADM, Katni. The representative of Regional Office from the Madhya Pradesh State Pollution Control Board was present. Major issues raised during Public Hearing were related to financial assistance to village women so that they can be self-employed, water availability, construction of Community Centres in Konia, Jararoda and Giatalai Villages, construction and renovation of connecting road in Konia Village. The issues as raised during the Public Hearing were discussed and replied satisfactorily by the Project Proponent.

The Project Proponent has earmarked Rs. 90 Lakhs towards Environmental Protection Measures and Rs. 273 Lakh per annum towards recurring expenses. The Project proponent informed that Rs. 200 Lakhs have been earmarked towards CSR activities for 2015-16. The PP reported that there is no court case/litigation pending against the project.

Based on the information submitted and discussions held, the Committee **recommended the proposal for environmental clearance** for mining of Limestone with proposed production capacity of 0.06 million TPA (ROM).

The Committee also **recommended additional specific conditions** viz. (i) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup 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; (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. 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; (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) 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) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and Washing of all transport vehicle should be done inside the mining lease; and (vii) PP shall ensure that there should not be cross traffic from Left Bank Lease to Right Bank Lease or vice versa.

(2.3). Enhancement of Pipakheri Limestone (Building Stone) Mine from production capacity of 1.0 Lakh TPA (ROM) to 6.0 Lakh TPA (ROM) by M/s Atikur Rahman S/o Hazi Abdul Gafoor, located at village-Pipakheri, Tehsil-Ramganjmandi, District-Kota, Rajasthan (72.8234ha)-(Consultant: M/s Udaipur Mintech Pvt. Ltd.)-Consideration of EC.

The proposal of Shri Atikur Rahman is for Enhancement of Pipakheri Limestone (Building Stone) Mine from production capacity of 1.0 Lakh TPA (ROM) to 6.0 Lakh TPA (ROM). The mine lease area is located near village-Pipakheri, Tehsi-Ramganj Mandi, District-Kota, Rajasthan. The mine lease area falls on Survey of India Top sheet no. 45P/14, 54 D/2 and between Latitudes 24°47' 46" to 24°47'55"N & Longitudes 74° 34' 26" to 74° 35' 32"E. The Project is located in Seismic Zone-II.

The proposal of TOR was considered by the Expert Appraisal Committee in its Meeting held on 12.11.2013. The Ministry prescribed the ToR vide letter No. J-

11015/359/2013-IA.II (M) on dated 29.01.2014. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The total mine lease area is of 64.75 ha which is classified as Govt. waste land and plain agriculture fields in private land. The mine is being worked by mechanized opencast method of mining. The O/B as weathered limestone is removed by HEMM and deep hole blasting and the product of dimensional limestone (building) is mined by the help of Jhiri cutting machine for perfect sizing and then lifted with the help of crow bars. The height of the benches is proposed to be kept 8 meters and width of the benches will be more than the height of the bench. The total water requirement is 20KLD for dust suppression and green belt development, which will be made available from pit water and about 5 KLD drinking water will be purchased from dug wells in nearby villagers. Mineral will be transported through road. The traffic Analysis survey reported that no. of trucks deployed will be 91per day so 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 Committee noted that the Ministry has earlier accorded the Environmental Clearance vide their letter no. J-11015/73/2008-IA.II(M), dated 11.05.2010. The Regional Office of MoEFCC, Lucknow has submitted the compliance Report vide letter dated 05.02.2015. The Compliance Report was deliberated by the Committee.

Project Proponent reported that no 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 March to May 2014. All the parameters for water and air quality are within permissible limits.

Public Hearing was held on 04.08.2014 at village Kantharia, District-Chittorgarh. The Public Hearing was presided over by Shri Anil Kumar Jain, Additional District Magistrate, Chittorgarh. The representative of Rajasthan State Pollution Control Board was also present. The Committee discussed the action plan made by the PP and noted that PP needs to revise the Action Plan. The cost of the Project is Rs. 5.50 Crores. The capital cost of EMP will be Rs. 22.0 Lakhs and amount earmarked for social fund is Rs. 5.0 lakhs for the plan period.

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

- (a) The Committee observed that this is an existing mine, however in view of the changes envisage the water quality status may be submitted afresh;
- (b) The lease involves Agricultural land, however PP has reported that there is no R&R involved. The Committee deliberated and suggested that PP needs to submit the detailed R&R Plan;

- (c) Cumulative impact of other mines located in the vicinity of the lease area needs to be submitted;
- (d) PP has submitted the mined out mineral in terms of square feet and needs to submit in tonnes to check the violation, if any, made by the PP;
- (e) TOR compliance no. 38 (Action Plan on the issues raised during Public Hearing) is not adequate and needs to be resubmitted; and
- (f) Revised Questionnaire needs to be submitted.

(2.4). Limestone Mine Project of M/s Nalwaya Mineral Industries Pvt. Ltd, located at village Nathara ki Pal, Tehsil-Sarda, District-Udaipur, Rajasthan (97.13 ha)-EC

PP vide letter dated 12.06.2015 requested and informed that they are submitting fresh application for enhancement of production capacity and unable to present the case in this meeting. The Committee accepted the request of PP and deferred the item.

(2.5). Enhancement in production capacity of Red Ochre from 16,770 TPA to 4,00,000 TPA(ROM), Silica Sand from 20,256 TPA to 25,000 TPA (ROM) and proposed production capacity of 40,000 TPA(ROM) of White Clay from Kantharia mine by Smt. Tamanna Begum and Renewal of Mining lease located at near Village Kantharia, Tehsil & District Chittorgarh, Rajasthan (64.75ha) (Consultant-Udaipur Min Tech Pvt. Ltd.)-EC consideration

The proposal of Smt. Tamanna Begum is for enhancement in production capacity of Red Ochre from 16,770 TPA to 4,00,000 TPA (ROM), Silica Sand from 20,256 TPA to 25,000 TPA (ROM) and proposed production capacity of 40,000 TPA (ROM) of White Clay from Kantharia mine. The mine lease area is located near Village- Kantharia, Tehsil & District- Chittorgarh, Rajasthan. The mine lease area falls on Survey of India Top sheet no-. 45L/09 , and between Latitude 24°47' 46" to 24°47'55"N & Longitude 74° 34' 26" to 74° 35' 32"E. The Project is located in Seismic zone-II. The mine lease area is 9.5 Km away from the Chittorgarh Fort Boundary.

The proposal of TOR was considered by the Expert Appraisal Committee in its Meeting held on dated 20th-21st March, 2014. The Ministry has prescribed the ToR vide letter No. J-11015/451/2012 dated 21.05. 2014. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

Total Mining lease area is of 64.75 ha which belong to Govt. waste land and plain agriculture fields in private land of the lease area. Project Proponent informed that Scheme of Mining with PMCP was approved by DMG vide letter dated 15.12.2013. The lease was granted in favor of Shri Onkar S/o Shri Uda Khatik for a period of 20 years i.e. from 08.01.1973 to 07.01.1993 and was renewed for 20 years effective up to 07.01.2013. Mining lease was transferred in favour of the present lessee, Smt. Tamanna Begum vide State Government order no. DMG/CHITOR/REN/CC-6/F.1 (1)92/991, dated 24.6.95. The transfer lease

deed agreement was executed on 29.07.1995 and registered on 07.08.1995. The present Lessee has already applied for grant of renewal of Mining lease on 09/05/2011 for a period of 20 years.

Mining operations are being carried out by Semi mechanised open cast method of mining. Due to soft nature of rocks, drilling and blasting is not required. Excavator of 2.1 cum bucket capacity with 15 tonne dumpers is used. Highest elevation is 437 mRL near boundary pillar "A" and lowest elevation being 423 mRL along boundary line "C" towards west. The Ground water table is 345 to 350 mRL from the ground level. The total water requirement is 18 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by dug well outside lease area, no ground water interception during the mining operations is envisaged. Mineral will be transported through road. The traffic Analysis survey reported that 10 nos. of trucks will be deployed per day so there will not be much increase in traffic at a 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 Project Proponent informed that environment clearance was accorded by MoEFCC, vide letter no J-11015/624/2007-IA.II (M), dated 02.01.2009. PP informed that they had submitted six monthly compliance reports to the Regional Office of the Ministry, located at Lucknow, however, the Certified Compliance Report of earlier EC conditions are awaited from the Regional Office of the Ministry. The Committee is of the view that since this is enhancement case, the certified compliance report of the Regional Office is required and suggested that Regional Office may be requested to submit the certified compliance Report.

Project Proponent reported that no 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 March to May 2014. All the parameters for water and air quality are within permissible limits. PP reported that the Hon'ble Supreme Court of India in the Special Leave Petition (Civil) No. 21211/2012 vide order dated 29.07.2013 have permitted mining activities from 2Km of Chittorgarh Fort Boundary wall with Heavy Earth moving machineries (HEMM). The Committee observed that the mine site falls at a distance of 9.5 Km from Chittorgarh Fort Boundary.

Public Hearing was held on 26.09.2014 at village Kantharia, District-Chittorgarh. The Public Hearing was presided over by Shri Harji Lal Atal, Additional District Magistrate, Chittorgarh. The representative of Rajasthan State Pollution Control Board was also present. The cost of the Project is Rs. 5.25 Crores. The capital cost of EMP will be Rs5.05 and amount earmarked for social fund is Rs 5.0 lakhs for the plan period.

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 Project Proponent informed that the Certified Compliance Report of earlier EC conditions is awaited from the Regional Office of the Ministry. The Committee is of the view that since this is enhancement case, the certified compliance report of the Regional Office is required and suggested that Regional Office may be requested to submit the certified compliance Report; and
- (ii) TOR compliance no. 29 (Impact of local transport vis-s-vis incremental load) is not adequate and needs to be resubmitted.

(2.6). Purnadhi Graphite Mine with proposed production capacity of 57,000 TPA (ROM) of Graphite Ore by M/s Mohan Minerals, located at Khasra No. 245, village-Purnadhi, Taluka-Daltonganj, District-Palamau, Jharkhand (81.75 ha)(Consultant: Grass Roots Research and Creation India (P) Ltd.)-Consideration of EC

The proposal of M/s Mohan Minerals is for Graphite Mining Project with proposed production capacity of 57,000 TPA (ROM) of Graphite in the mine lease area of 81.75ha. The mine lease is located at Khasra No. 245, village-Purnadhi, Taluka-Daltonganj, District-Palamau, Jharkhand. The Latitudes and Longitudes of the mine site are 23°57'43.3" to 23°58'15.8" N and 84°13'59.4" to 84°14'40.9" E respectively and part of study area falls within the Survey of India Toposheet No. 73A/1.

The proposal was considered by the Expert Appraisal Committee (Non-coal Mining Project) in its 9th meeting held during July 22-24, 2013 for determination of the Terms of Reference (TOR) for undertaking detailed EIA. The Ministry has prescribed the TOR vide No. J-11015/168/2013-IA.II (M), dated 14.03.2014. The EIA/EMP report was submitted online to the Ministry for seeking environmental clearance after conducting Public Hearing.

Total mining lease area is 81.75ha which a Government Land. No forest land exists within the ML Area. Letter regarding grant of mining lease over an area of 81.75 ha area in Palamau district, Jharkhand for mineral Graphite has been issued by Commissioner of Geology and Mining, in favor of M/s Mohan Minerals. Mining Plan including Progressive Mine Closure Plan for the proposed mine has been approved by IBM, vide letter no. RAN/PLM/MS-12/2012-13 dated 04.11.2013. Mining is proposed to be done by opencast semimechanized method by formation of benches of maximum 6 m height. Total water requirement for the project is 21 KLD; Total Manpower requirement for the proposed project is 75. The mineral will be transported by truck. At the end of life of total mining will be done on 13.08 ha out of which 6.52 area will be backfilled and rest area will be converted in to water reservoir.

Project Proponent reported that Betla National park is situated at a distance 5.5 km in SSW direction. Also, some RF and PF are present within 10 km radius from the mine site. Project proponent has applied for NBWL clearance on 12.11.2014 to DFO (Core area) Tiger project, Palamu, Jharkhand. Project Proponent also reported that there are four Schedules-I species namely Indian Leopard, Sloth Bear, Pangloin, Indian Peafowl in the Buffer zone. Conservation

plan for these Schedule-I species has been prepared and submitted to PCCF Government of Jharkhand on 25.05.2015 for approval.

The baseline data was collected during pre monsoon Season i.e. March 2014-May 2014. All the parameters were within permissible limits. The Public Hearing was held on 12.02.2015 at 11:00 am at the mine site and presided over by Shri L.C. Dadel, ADM Palamu. The representative from the Jharkhand State Pollution Control Board was also present. The Committee discussed the issues raised during Public Hearing which inter-alia, included, socio- economic development viz. infrastructural development, Health, Education etc.; Drinking water supply, environment related issues, employment, Road & Transportation etc. As per the villager's requirements the PP would take care of socio-economic development under Corporate Social Responsibility, Environmental Mitigation measures will be undertaken.

Total cost of the Project is Rs. 1.0 Crore. Proponent has earmarked Rs. 5.0 Lakhs for Environmental Protection Measures as capital cost and Rs. 5.8 Lakhs per annum as recurring cost.

Based on the information submitted, discussion held, the Committee **recommended** the proposal for environmental clearance for mining of Graphite Mine with proposed production capacity of 57,000 TPA (ROM) of Graphite Ore.

The Committee also **recommended additional specific conditions** viz. (i) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup once in six months and necessary medical care/preventive measures under taken accordingly. As the mineral mined is Graphite, the prescribed special precautions should be taken in the case of all exposed workers and periodical health checkups also undertaken and time series data of workers health submitted to the Regional Office of the Ministry; Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers should also be adopted; (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. 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; (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) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis; as also implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; and (vi) Use of effective sprinkler

system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and Washing of all transport vehicle should be done inside the mining lease.

(2.7). Enhancement of production capacity of limestone from 0.9 million TPA to 2.32 million TPA (ROM) of Kuteshwar Limestone mine (Right Bank Lease) along with Crushing and Screening Plant (200 TPH to 650 TPH) by M/s Steel Authority of India Limited, located at village-Gairtalai, Marwa and Jararoda, District-Katni, Madhya Pradesh (944.89ha)(Consultant-Bhagavathi Ana Labs Pvt. Ltd.)-Reconsideration of EC

The proposal is for enhancement of Limestone production capacity from 0.9 million TPA to 2.32 million TPA (ROM). The mine lease area is located near Village (s) Marwa, Jararoda, Gairtalai, Tehsil- Vijayaghavgarh, District-Katani, Madhya Pradesh. The Latitudes and Longitudes of the mine lease area are 23°58'25.73" N & 24°00'07.56" N and 80°49'34.12" E & 80°52'01.14" E respectively on toposheet no. 63 D/16, 64 A/13.

The proposal of EC was earlier considered by the Expert Appraisal Committee in its meeting held during November 24-25, 2014 wherein the Committee sought the following information/clarification:-

- (i) Needs to submit the Ground Water withdrawal permission of CGWA;
- (ii) Needs to submit the Action Plan and its Implementation Schedule with Budgetary provisions on the issues raised during Public Hearing;
- (iii) Need to submit the Revised Greenbelt Development Report;
- (iv) Needs to submit Plan for utilization of mine pit water;
- (v) Needs to submit Revised flora and fauna list in the study area; Plantation Action Plan by selecting species for submerged area between mine pit and the dam as a green belt;
- (vi) Needs to submit Revised Disaster Management Plan in respect of likely inundation in the mine; and
- (vii) Needs to submit Impact of CSR programs (implemented so far around the mine lease area) by making a Survey Report through an Institution of Repute and also submit a 'Need based Action Plan' for the next CSR Program.

Based on the information submitted by the PP vide letter dated 06.04.2015, the proposal is considered in this meeting. The Committee noted that PP has obtained NOC from Central Ground Water Authority for ground water withdrawal-vide No. 21-4 (167)/NCR/CGWA/2014-689, dated 30.04.2015. A revised action plan and its implementation schedule with budgetary provisions on the issues raised during Public Hearing were also submitted with respect to greenbelt development, PP committed for

development of greenbelts covering 5.1 km length all along the protection bund and creation of a greenbelt between mines and Gairtalai village of about 1 km length by planting local plant species during the expansion of the mines. A plan for utilization of mine pit water has also been submitted involving supply of mine pit water to the village ponds and meeting entire industrial water requirement at the mines.

Based on the information submitted, discussion held, the Committee **recommended the proposal for environmental clearance** for Enhancement of production capacity of limestone from 0.9 million TPA to 2.32 million TPA (ROM).

The Committee also **recommended additional specific conditions** viz. (i) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup 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 should also be adopted; (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. 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; (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) 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) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and Washing of all transport vehicle should be done inside the mining lease; and (vii) PP shall ensure that there should not be cross traffic from Left Bank Lease to Right Bank Lease or vice versa.

(2.8).Renewal and enhancement in production of Limestone (Minor Mineral) mine from 6,226 TPA to 2.0 Lakh TPA (ROM) by M/s Prabhu Dayal Sharma, located at village-Ransigaon/Hariya Dhana, Tehsil-Bilara, District-Jodhpur, Rajasthan (100ha) (Consultant: Perfect Enviro Solutions Pvt. Ltd.)-Reconsideration of EC

The proposal of M/s. Shri Prabhu Dayal Sharma is for renewal and enhancement in production of Limestone (Minor Mineral) from 6,226 TPA to

2,00,000 TPA (ROM) of Limestone in the mine lease area of 100ha. The mine is located near village-Ransigaon/Hariya Dhana, Tehsil-Bilara, District-Jodhpur, Rajasthan. The mine lease area lies between Latitudes 26° 26'1.41" to 26° 26' 54.39" N and Longitudes 73° 48' 0.35" to 73° 48' 52.55" E.

The Proposal of EC was earlier appraised in 23rd EAC meeting held during September 25-26, 2014 wherein the EAC deferred the Proposal and sought the following information/clarification for further consideration:-

- (i) Biodiversity assessment w.r.t. IVI (Importance Value Index) in EIA Report is incorrect and revised assessment Report be submitted;
- (ii) Approved mining plan needs to be submitted;
- (iii) 73ha lands in the lease are in the category of "Khatedar land". R&R and acquisition status may be submitted;
- (iv) Revised Questionnaire w.r.t. S. No. 4 need to be submitted;
- (v) Ministry to take actions on violations as per OM dated 12.12.2012 & 27.06.2013.

In this context, the Project Proponent vide letter dated 28.01.2015 has submitted the requisite information. The point wise explanation of the queries given by the PP as given below:-

- (i) With regards to Biodiversity assessment w.r.t. IVI (Importance Value Index), PP has submitted the revised Biodiversity assessment w.r.t. IVI (Importance Value Index).
- (ii) With regards to Approved mining plan, PP has submitted the Approved Mining Plan.
- (iii) With regards to R&R Plan, PP has informed that 73 ha Land is cover under private khatadari land which is agriculture land. There is no proposal of acquisition of this land during lease period (valid upto 08.09.2022). Rest of 27 ha Land is Govt. land and mining activity will be confined to 27 ha. Land of lease which falls under Ggovernment barren land. However, 8.36ha Private land will be used in temporary OB dump, mineral stacking and green area development for which compensation of Rs.4,37,500/-per hectare will be given to land holder.
- (iv) With regards to violation, PP has informed the lease was pertaining to limestone as minor mineral having a validity up to the year 2002, which was subsequently extended up to the year 2012. The renewal was due on 8th September 2012 and in the meantime State Government has amended the Minor Mineral Concessions Rules, which extended the lease period from 20 years to 30 years, implying that validity of lease from September 1992 to September 2022 (Agreement copy as extension of lease period from 20yrs to 30 years has been submitted), which further implies that mining

operations did not violate the enactments/statutes at any given point of time. Now the Lessee intends to increase the production and hence seek the Environment Clearance as per EIA Notification, 2006.

Based on the information submitted, discussion held, the Committee **recommended the proposal for environmental clearance** for Renewal and enhancement in production of Limestone (Minor Mineral) mine from 6,226 TPA to 2.0 Lakh TPA (ROM).

The Committee also **recommended additional specific conditions** viz. (i) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup 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 should also be adopted; (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. 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; (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) 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; and (vi) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and Washing of all transport vehicle should be done inside the mining lease.

(2.9). Banesti Mine for enhancement of production of Red Ochre from 50,000 TPA to 4,00,000 TPA (ROM), China Clay from 1,20,000 to 4,00,000 TPA (ROM) and Silica Sand from 3,00,000 to 10,00,000 TPA (ROM) by M/s Mohd. Sher Khan, located at village-Banesti, Tehsil and District-Chittorgarh (MLA 113.31ha)(Consultant-Udaipur Min Tech Pvt. Ltd.)-Reconsideration of EC

The proposal is for enhancement of production capacity of Red Ochre from 50,000 TPA to 4,00,000 TPA (ROM), China Clay from 1,20,000 TPA to 4,00,000 TPA (ROM) and Silica Sand from 3,00,000 to 10,00,000 TPA (ROM) in mine lease area of 113.31ha. The mine is located at village-Banesti, Tehsil and District-Chittorgarh, Rajasthan. The Latitudes and Longitudes of the MLA are 24°46' 07"

to 24°47'06" N and 74° 34' 33" to 74° 35' 06" E on the Survey of India Toposheet No. 45 L/09.

The proposal of EC was earlier appraised by the EAC in its meeting held during December 22-23, 2014 wherein the Committee deferred the Proposal and sought the following information/clarification:-

- (i) One Schedule-I species namely Peacock is reported in the study area. PP has prepared conservation Plan. The Committee noted that conservation plan to protect the species is adequate. However, the Project Proponent needs to submit duly approved conservation Plan by the Chief Wild Life Warden with budgetary provisions;
- (ii) PP needs to revise the Questionnaires' w.r.t. S. No. of 4;
- (iii) The PP needs to submit the Action Plan and its Implementation Schedule with Budgetary provisions on the issues raised during Public Hearing;
- (iv) Piezometer has not been installed as stipulated in earlier EC letter, time series change in ground water quality water needs to be submitted; and
- (v) There are two RET plant species namely, Asparagus and Adhatoda for which large scale multiplication proposal may be submitted.

In this context Project Proponent has submitted the information/clarification and accordingly the proposal is considered in the present meeting. The point wise explanation of the queries is given by the Project Proponent as below:

- (i) One Schedule-I species namely Peacock is reported in the study area. PP has prepared conservation Plan to protect the species;
- (ii) Revised Questionnaires has been submitted;
- (iii) Action plan with budgetary provisions has been submitted;
- (iv) Piezometer has been installed; photographs and water analysis report has been submitted; and
- (v) With regard to RET plant species, PP has submitted large scale multiplication proposal.

The Committee deliberated the information and is of the view that the information is adequate.

A Sub-Committee has also visited the mine during January 17-19, 2015 and based on the inspection and discussion, the sub-Committee noted the following and made following recommendations:-

- (i) The Project is very bad in terms of controlling fugitive dust. The transportation of mineral is being done by open tractors/trucks on two

roads leading from mine area and passing through a congested town Banesti. This is a great risk. Project either should improve both the roads or a bye pass may be created for mineral transportation as a permanent solution which will give relief to Sawa and Bansti villages. The transportation is done by overloading clay, red ochre and silica sand and bumpy kachha road creates the situation to minerals to become air borne due to overloading.

- (ii) All the trees are covered with white dust. It was observed that water spearing on the canopy of the trees is being done which is totally unacceptable. Project should create preventive system than to take such action.
- (iii) All the pits are devoid of scientific mine faces and benching therefore making the mining operations a risk hazard. The red ochere pit needs to be evaluated particularly in respect of boundary of the mine pit very close to the road and high tension line. Further, the benches are steep and may collapse if not scientifically developed.
- (iv) The Committee observed that at present there is a lack of the water management system including ground water. Therefore, water management aspects need to be understood by the project. There is no scientific water management, harvesting and recharge system in the project. Therefore, the mining operations should be considered looking at the catchment, drainage area and then water management may be decided for better mine planning.
- (v) No piezometer has been installed so far to monitor ground water.
- (vi) There are number of overburden dumps which are declared dead but still needs reclamation. All around the china clay and red ochere mining pit huge OB dumps in a linear fashion have been created. Further, other OB dumps are poorly managed and scattered. There is no scientific methodology adopted for reclamation. Slopes suffer from gullies formation and erosion. The plant species chosen are not ecologically suitable to bring the reclaimed area to near natural condition. A Scientific planning is therefore needed. Therefore, the reclamation at waste dump sites is not ecologically sustainable. The local species may be recommended to be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adopted to that micro climate. This may be recommended to be studied by hiring Expert Ecology Group.
- (vii) There is no environment management policy of the company. No attempt has been made to develop green belt or any plantation in the area. Thus, when trucks ply, huge amount of dust is generated. All the bushes and trees along the haul road are dust laden.

- (viii) The Project severely lacks facilities for the employees. There is no sufficient office space, sanitation and toilet facilities, drinking water. The project does not have any recreational facilities for the employees/workers. Therefore, satisfaction level among the employees regarding the working conditions may be far lower. According further EC without ensuring the above facilities may lead to worsening the labour welfare situation.
- (ix) Although Project has been Clearance vide letter no J-11015/191/2006-IA.II(M), dated 24/01/2007 but most of the conditions are yet to be implemented w.r.t. creation of environmental management Cell, Labour Welfare Measures, OB dump reclamation, control of fugitive dust and regular monitoring of environmental quality parameters. It is recommended that these conditions may be complied for which at least proper Action Plan with budgetary provisions and time bound implementation may be submitted.

The Committee, during deliberations, provided the copy of recommendations of the Sub-Committee to provide the Action Taken on the issues raised during the Inspection by the Sub-Committee. In this context, the Project Proponent, vide letter dated 25.06.2015, has made the following pointwise submissions:-

- (i) PP has mentioend that some of the vehicles engaged in mineral transportation were plying uncovered and afterwards PP directed all of the vehicles to cover the mineral with tarpulin and if any vehicle is found transporting without covering the mineral will be blacklisted and it will not be engaged in future. PP has also stopped overloading of the vehicles. It is assured that all the vehicles will be loaded according to their permitted loading capacity. Previously we were spraying water only on haul roads but now spraying of water has been started on haul roads as well as village roads i.e. from the mine to Sawa village which also covers Banesti village. PP has also increased frequency of road maintainance so that bumps if created are smoothened.
- (ii) Due to action taken in the point no. 1 above, dust will not be generated due to plying of vehicles. Spreying of water on canopy has been stopped.
- (iii) As directed by the Committee, width of benches in the pit has been increased, action is also been taken to optimise the slope of benches. It is assured that benches would be made stable within 6 months. Advancement of mining of red ochre pit near road has been stopped on the western side of the pit. Steps are being taken to backfill the western side of the pit so that atleast 10 mtr. distance is maintaned between pit boundary & road edge. Moreover a 6 ft. x 2 ft. x 70 ft. pakka wall will be constructed on the eastern side of the road.
- (iv) PP informed that slope of the lease area is from East to West. PP have planned the mine so that all the rain water which flows from East to West is arrested in the bottom of pits. This rain water is used for dust supression as well as plantation. This harvested rain water is also supplied to nearby agriculture field and also recharges ground water.
- (v) Piezometer has been installed and monitoring for groundwater is being done.
- (vi) There is one dead dump and 3 dumps of mineral stacks. PP has started stabilising the dead dump by making 3 meter wide benches on dump slope, where plantation will be done in this monsoon season. PP are committed to

plant 2000 saplings on the dump. Plants like Neem, Shisham and Acacia will be planted. Stabilisation of the dump will be completed in next 6 months. PP is also stabilising mineral stack by reducing height of mineral dumps.

- (vii) PP has developed green belt on the western and southern side of the lease area. Steps are being taken to develop green belt on northern side. To develop green belt on the Eastern side is not possible as Eastern boundary is hilly, stoney and without soil cover.
- (viii) Employees were engaged from the Sawa village where PP has provided them recreational facilities for outdoor games like volley ball, Football etc. The employees including contract worker are provided with helmets, safety boots, dust mask etc.

Based on the information submitted by the PP on the recommendations of the Sub-Committee and discussion held, the Committee **recommended the proposal for environmental clearance** for enhancement of production of Red Ochre from 50,000 TPA to 4,00,000 TPA (ROM), China Clay from 1,20,000 to 4,00,000 TPA (ROM) and Silica Sand from 3,00,000 to 10,00,000 TPA (ROM).

The Committee also **recommended additional specific conditions** viz. (i) Project Proponent shall stabilisation all dump in next 6 months and compliance report has to be submitted to the MoEFCC and Regional Office of the Ministry; (ii) Project Proponent shall made stable benches within 6 months and compliance report has to be submitted to the MoEFCC and Regional Office of the Ministry; (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup 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 should also be adopted; (iv) 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; (v) 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; (vi) 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; (vii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and Washing of all transport vehicle should be done inside the mining lease; and (viii) 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.

(2.10). River Bed Mining (Bajri) with proposed production capacity of 0.538 million TPA (ROM) by Shri Manoj Kumar Jain, located at Revenue villages of Tehsil–Atru, District Baran, Rajasthan (159.27ha)- (Consultant: J.M. EnviroNet Pvt. Ltd.)-Amendments in ToR

The proposal is of Shri Manoj Jain for amendments in TOR with regard to change in Khasra number allotted by Department of Mines & Geology, Baran Government of Rajasthan for the Proposed River Bed Mining Project for Mineral Bajri with production capacity 0.538 Million TPA(ROM). The mine lease is located at revenue Villages of Tehsil Atru, District Baran State- Rajasthan.

The Ministry has prescribed ToR vide letter No. J-11015/428/2013-IA.II (M) on 29th January, 2014 for River Bed Mining (Bajri) with proposed production capacity of 0.538 million TPA (ROM) in the mine lease area of 159.27ha. Project Proponent reported that Khasra has been changed due to non-availability of bajri by Department of Mines and Geology, Baran Government of Rajasthan, vide letter no SME/Baran/2014/978 dated 01.12.2014. The revised 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. There is no change in ML Area (159.27 ha) and production capacity (0.538 MTPA). PP has submitted the revised Form I & PFR. Project Proponent has requested for the following amendments:

Particulars	As per earlier Khasra	Amendments required as per revised Khasra
Khasra No.	409, 918, 953, 960, 993, 1206, 1409, 1422, 1521, 120, 171, 227, 295, 384, 439, 439/485, 733, 740, 200, 39/529, 137, 163, 194, 231, 349, 434, 442, 111, 194, 196, 367, 440, 442, 448, 453, 497, 546/585, 227, 219/1010, 160/1028, 162/1029, 171, 172, 179, 182, 197, 198, 210, 211, 212, 243, 275, 275/918, 326, 336, 408, 441, 442, 481, 499, 527, 604, 620, 621, 622, 641, 674, 676, 821, 836, 888, 889, 904, 906, 908, 909, 499, 485	162/1029, 621, 641, 1766, 1866, 716, 132, 1047, 129, 176, 603, 1566, 248, 359, 1379, 274
Village(s)	Kunjed, Kundi, Mundla Bisoti, Benka, Bamori, Bagli, Mehla, Merama Talab, Piplod, Kishanpura Masaldaram	Piplod, Atru, Aaton, Manyagan, Patna, Degni Jageer, Mayda, Kunjed, Mothpur, Binchhalas, Kawai & Lolahedi
Lease Area Coordinates	Latitudes: 24°55'43.01" N to 24°57'37.63" N Longitudes: 76°36'23.51" E to 76°40'11.72" E	Latitudes: 24°45'5.37" N to 24°59'33.24" N Longitudes: 76°29'45.47" E to 76°44'56.13" E

Project Proponent reported that baseline study has been carried out during winter season (December, 2014 to February, 2015) for revised mine site as per revised Khasra Number.

Based on the information submitted by the PP and discussion held, the Committee **recommended** the amendments of ToR with respect to Khasra number, villages and lease coordinates.

(2.11). Change in technology for production of 84,000 TPA (ROM) to Manganese Ore from opencast to opencast and underground mining in Palaspani Manganese Ore Mine by M/s Krishnaping Alloys Ltd., located at village Palaspani, Tehsil-Sausar, District Chhinndwara, Madhya Pradesh (54.129ha)-Extension of validity of TOR

The proposal is for extension of validity of TOR. The Ministry had issued TOR to M/s Krishnaping Alloys Ltd. vide letter no. J-11015/433/2012-IA. II (M) dated 14.05.2013, which was valid up to 13.05.2015. Further the PP has requested for extension of validity of TOR, as the submission of final EIA report was delayed due to delay in conducting the Public Hearing.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for one year i.e. **from 14.05.2015 to 13.05.2016.**

(2.12). Gandhigram Iron Ore/Blue Dust Mine (Iron ore Beneficiation plant) for production capacity from 90,000 Ton/year to 3,00,000 Ton/ year (7.310 ha) in Village Gandhi gram, Tehsil Sihora, Dist. Jabalpur - Madhya Pradesh-Extension of validity of TOR

The Committee noted that the Ministry, vide letter dated 15.04.2015, has already extended the validity of ToR from 12.02.2015 to 11.02.2016. This Proposal was placed inadvertently placed in the meeting.

(2.13). Limestone Mine with production capacity of 3.555 million TPA of Limestone by M/s Ultra Tech Cement Ltd., located at village(s) Sitapuri, Borlai, Awral, Andiyav, Chirakhan & Udiyapura Tehsil - Manawar, District-Dhar, Madhya Pradesh (965ha)- (Consultant: J.M. EnviroNet Pvt. Ltd.)-Amendments in ToR

The Committee noted that the Ministry, vide letter dated 04.06.2015, has already amended the ToR with respect to limestone production capacity from 3.655 Million TPA to 3.66 million TPA (ROM). This Proposal was placed inadvertently placed in the meeting.

(2.14). Tetla Stone Mine of M/s Mahavir Vintrade Pvt. Ltd., located at Tetla Village Block – Potka in Singhbhum East District, Jharkhand (25.495 ha)

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

(2.15). Proposed Pozzolana Clay mine with Production Capacity of 1.692 million TPA (ROM) by M/s UltraTech Cement Ltd. (Unit: Sewagram Cement Works), located at villages- Kharai & Vayor, Tehsil- Lakhpat & Abdasa, District- Kutchh, Gujarat (ML 432.30 ha) (Consultant: J.M. EnviroNet Pvt. Ltd.)– Extension of validity of TOR

The Proposal is of M/s UltraTech Cement Ltd. (Unit: Sewagram Cement Works) for extension of validity of ToR for the Proposed Pozzolana Clay mine with Production Capacity of 1.692 million TPA (ROM), located at villages- Kharai & Vayor, Tehsil- Lakhpat & Abdasa, District- Kutchh, Gujarat in MLA of 432.30 ha.

The Ministry had prescribed the TOR vide letter no. J-11015/59/2012-IA. II (M) dated 07.06.2012, which was valid up to 06.06.2014. The ToR was extended by one year by the Ministry vide letter dated 07.01.2015 and was extended up to 06.06.2015. Now, the PP again requested for extension of validity of TOR, as the submission of final EIA report was delayed due to delay in conducting the Public Hearing.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for additional one year i.e. **from 07.06.2015 to 06.06.2016**.

(2.16). Harudi Kharai Limestone Mining Project with enhancement of production capacity from 1.505 Million TPA to 5.0 Million TPA (ROM) by M/s UltraTech Cement Ltd. (Unit: Sewagram Cement Works), located at village(s) – Harudi & Kharai, Taluka– Lakhpat, District–Kachchh, Gujarat (M.L Area: 659 ha)(Consultant: J.M. EnviroNet Pvt. Ltd.) Name Change and Validity Extension of ToR

The Proposal is of M/s UltraTech Cement Ltd. (Unit: Sewagram Cement Works) for name change and extension of validity of ToR for Harudi Kharai Limestone Mining Project with enhancement of production capacity from 1.505 Million TPA to 5.0 Million TPA (ROM), located at village(s) – Harudi & Kharai, Taluka– Lakhpat, District–Kachchh, Gujarat in mine lease area of 659 ha.

The Ministry has accorded EC in favour of M/s Gujarat Anjan Cement Limited (A constituent of Jaypee Group) vide No. J-11015/102/2006-IA.II (M), dated 06.12.2006 for Harudi Kharai Limestone Mine (production capacity 1.505 Million TPA, ML Area: 659 ha), located at villages Harudi and Kharai, Tehsils Lakhpat & Abdasa, District Kachchh, Gujarat. It is noted that M/s UltraTech Cement Limited (UTCL) has taken over the above said project from M/s Jaypee Cement Corporation Limited (JCCL) through demerger. M/s UltraTech Cement Limited has submitted the documents viz. (i) No Objection Certificate from JCCL for transferring the Environmental Clearance to M/s Ultra Tech Cement Limited; (ii) Undertaking from M/s Ultra Tech Cement Limited stating to comply with all the Environmental Safeguards/ the terms and conditions as stipulated in the Environmental Clearance letter dated 06.12.2006. Accordingly, based on the request of the Project Proponent, the Ministry vide letter dated 25.03.2015 has transferred the EC to M/s Ultra Tech Cement Limited (Unit-Sewagram Cement Works).

MoEF&CC has accorded TOR in favour of M/s Jaiprakash Associates Limited vide No. J-11015/73/2012-IA.II (M), dated 07.03.2013 and was valid up to 06.03.2015 for Harudi Kharai Limestone Mining Project with enhancement of production capacity from 1.505 Million TPA to 5.0 Million TPA (ROM), located at village(s) – Harudi & Kharai, Taluka– Lakhpat, District–Kachchh, Gujarat in mine lease area of 659 ha. PP has requested to change of name and validity of extension from 07.03.2015 to 06.03.2016 as the submission of final EIA/EMP report was delayed due to delay in conducting the Public Hearing.

Based on the information furnished and discussions held, the Committee **recommended** name change (as above) and extension of the validity of TOR for additional one year i.e. **from 07.03.2015 to 06.03.2016**.

(2.17). Pallakkapalayam limestone mine by M/s The India Cements Ltd., located at survey no: 95/3 Pallakapalayam Village, Tiruchengode Taluk, Tehsil Tiruchengode, Namakkal District, Tamil Nadu-ToR Proposal

The Proposal was **deferred** on the request of PP vide letter dated 18.06.2015 as Project Proponent was unable to attend the meeting.

(2.18). Hatgacha Black Stone Mine by M/s West Bengal Mineral Development and Trading Corporation Limited, located at Plot/Survey/Khasra No. JI No – 1 Village : Hatgachia , P.S –Mohammad Bazar; Mouza -Jethia, Tehsil-Suri – I District-Birbhum, West Bengal (43.9205ha)-ToR

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

(2.19). Hatgacha-Jethia Black Stone Mine by M/s West Bengal Mineral Development and Trading Corporation Limited, located at Plot/Survey/Khasra No. JI No. 1 Town / Village Suri. Birbhum, Tehsil Suri – I, District Birbhum, State West Bengal (178.93 Ha)-ToR

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

(2.20). Kashinathpur Stone mine with proposed production capacity of 80,441 TPA (ROM) of Stone by M/s National Stone Works, located at village-Kashinathpur, P.S.- Maheshpur, District- Pakur, Jharkhand (ML Area 3.035 ha)(Consultant Grass Roots Research & Creation India (P) Ltd.)

The proposal of M/s National Stone Works is for stone mining with proposed production capacity of 80,441 TPA (ROM) of Stone in MLA of 3.035 ha. The mine lease area is located at village–Kashinathpur, District-Pakur, State-Jharkahnd. The mine lease area is almost flat with rock mass of basalt. The mining lease area is located between the Longitudes 87°43'57.18" E to 87°44'03.51" E & Latitudes 24°21'43.51 N to 24°21'53.64" N with Survey of India Top Sheet number 72P/11.

The Project Proponent has informed that as per the EIA Notification, 2006 and its amendments, General Conditions shall apply except for Project or activity of

less than 5 ha of mining lease area. Further, it is provided that the above exception shall not apply for Project or activity if the sum total of the mining lease area of the said Project or activity and that of existing operating mines and mining Projects which were accorded environment clearance and are located within 500 metres from the periphery of such Project or activity equals or exceeds 5 ha. In this proposal, the Assistant Mining Officer, Pakur of Mines and Geology Department, vide letter no.694 dated 23-05-2015 has reported that the instant mine lease area is 3.035ha and total area of existing operating mines around 500 meter of ML area is 7.94ha. The interstate boundary between Jharkhand and West Bengal from mine lease area is at a distance of 3.23 km in SE direction hence it is treated as Category 'A' Project and to be dealt at the level of MoEF&CC.

The Committee was informed by Project Proponent that they have submitted Form-1 and Pre-feasibility Report and requested for EC as per the EIA Notification, 2006. Environmental Impact Assessment as well as Public Consultation is not required. The EAC viewed that these prescribed exemptions and recommendations are based on provisions of the EIA Notification, 2006 vide para Clause 7.0, sub clause 7(i) I under stage (1) – Screening. it provides that "In case of Category 'B' Projects or activities, this stage will entail the scrutiny of an application seeking prior Environmental Clearance made in Form-1 by the concerned State level Expert Appraisal Committee (SEAC) for determining whether or not the Project or activity requires further environmental studies for preparation of an Environmental Impact Assessment (EIA) for its appraisal prior to the grant of Environmental Clearance depending up on the nature and location specificity of the Project." **The Committee felt that though it is Category 'A' Project, neither TOR/ EIA/EMP nor any Public Hearing is to be conducted for this project considering the negligible impact of the Project activity on the Environment.**

The mine lease has been granted to M/s National Stone Works for a period of 11 years from 30.08.2002 to 29.08.2012 over an area of 3.035ha. The lease area is Govt. Waste Land. No forest land is involved. Mine Plan has been approved by Mines and Geology Department, Pakur, Jharkhand vide letter dated 08.04.2015. Method of mining is opencast semi mechanized. The operations like drilling of shot holes, sorting of stone and breaking at site will be done manually. Muffle blasting will be adopted for precautionary measures. Loading and unloading on trucks will be done by manual method. The overburden removal will be done at times by excavator cum loader. Transport of the stone to destination will be done by truck. During the five years, haulage road will be developed at the gradient of 1:16. During the life of mine of 11 years, the area will be worked out except 7.5 meter safety barrier. Existing land use pattern of the mine lease area is Govt. waste land. Total 0.69ha area shall be developed as green belt. Total geological reserves are 29,34,603 Metric Tonnes and total Mineable reserves are 8,44,905 MT. Life of Mine is 11 years. Total water requirement is about 6 KLD. Drinking water and water for dust suppression and plantation will be collected from nearby villages. 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. 48 lakhs. Proponent has earmarked Rs.1.50 Lakhs for Environmental

Protection Measures as capital cost and Rs. 2.50 Lakhs per annum as recurring cost. PP has earmarked Rs. 1.10 Lakhs for CSR for the next 5 years.

The Committee after detailed deliberations **recommended** the Proposal for environmental clearance for Mining of Stone (Minor Mineral) with proposed production capacity of **80,441 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) 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; (iii) 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; (iv) 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; (v) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and Washing of all transport vehicles should be done inside the mining lease; and (vi) "Environmental Clearance is subject to final outcome of any Court case relevant to this Project in Hon'ble Supreme Court, Hon'ble High Court of Jharkhand and Hon'ble NGT or any other Court of Law".

(2.21). Mining of River Sand (Minor Mineral) in Mine of "Gyaspur-Rasulpur Sand Unit" with proposed production capacity of 12,67,200 TPA (ROM) by M/s Ultimate Group, located at village(s)-Gyaspur, Rasulpur, District-Sonipat, Haryana (35.0 ha)(Consultant: Vardan Environet, Gurgaon)- Consideration of ToR

The Proposal of M/s Ultimate Group is for Mining of River Sand (Minor Mineral) in Mine of "Gyaspur-Rasulpur Sand Unit" with proposed production capacity of 12,67,200 TPA (ROM). The lease is located at village(s)-Gyaspur, Rasulpur, District-Sonipat, Haryana in MLA of 35.0 ha. The lease area lies in the River bed of Yamuna and on private agricultural fields. It is Category 'A' project as the site is located at 1 km distance from Interstate Boundary of Haryana and Uttar Pradesh. The mine lease area is located between the following coordinates:

Coordinates	River bed Coordinates	Outside River bed Coordinates
	Latitudes 29° 05' 59"N to 29° 06' 27" Longitudes 77° 07' 50"N to 77° 08' 14"	Latitudes 29° 05' 59"N to 29° 06' 11" Longitudes 77° 06'43"N to 77° 06' 56"
Toposheet number	H43R4, H43X1, H43R8, H43X5	

The LOI has been granted by Director General, Department of Mines and Geology, Haryana vide memo No. DMG/ Hy/ Cont/ Gyaspur-Rasulpur Sand Unit /2015/2128, dated 21.04.2015 for 08 years. Total mine lease area is 35.0ha. No forest land is involved. Method of mining will be opencast semi-mechanized in river bed and open cast mechanized method in outside river bed block, without drilling and blasting. Loading of waste and minerals into trucks / tippers will be done by using excavators and transported to nearby industries. Total water requirement for the proposed project will be 22 KLD. 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. 8.5 Crores. No National Park and Wildlife Sanctuary falls within the 10 km radius of the project site.

PP has requested to use the baseline data which were conducted during March-May 2015 before grant of LoI. The Committee discussed the issues and noted that LOI has been granted by Director General, Department of Mines and Geology, Haryana on 21.04.2015 and **how the Consultant can collect baseline data before grant of LoI** and the Committee has not accepted the request of PP and recommended to conduct the baseline data collection during October-December 2015.

Project Proponent [in Form I- S.No. 23] reported that **no Court case is pending against the Project**. However, the Committee noted that there is a Court case in the matter of Rajbir Singh v/s State of Haryana and others [CWP No. 27700 of 2013] wherein the Petitioner had challenged the conditions of the auction notice and the rules relating to Payment of Rent and Compensation to the land owners. The State Govt. (Dept. of Mines and Geology) has issued LoI subject to outcome of the above mentioned case. The said case is still pending before Hon'ble Punjab and Haryana High Court for adjudication.

Further, the Committee noted that **PP has not filled form I & PFR correctly and cited wrong data w.r.t. latitudes and longitudes**. Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed the Standard TOR subject to submission of Revised Form I & PFR and details of Court cases** for undertaking detailed EIA study as per **Annexure-I**.

(2.22). Nachankheda River sand quarry of Shri Manoj Sharma, located at Tapti Nadi Mining Project Khasra No. 01 Village.-Nachankheda, Tehsil-Burhanpur District- Burhanpur, Madhya Pradesh (7.00 ha)-ToR

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

(2.23). "Khub Limestone Mine" (amalgamated 9.66 ha) of M/s Cement Manufacturing Co. Ltd., with production capacity of 4,75,095 TPA (ROM) of Limestone and 1,74,420 TPA (ROM) of Sandstone, located at village-Lumshnong, Tehsil-Khliehriat, District - East Jaintia Hills, Meghalaya (9.66 ha) (Consultant: Perfect Enviro Solutions Pvt. Ltd., New Delhi)-Revalidation and Extension of validity of ToR

The proposal of M/s Cement Manufacturing Co. Ltd. is for Limestone Mining with proposed production of 475,095 TPA (ROM) of Limestone and 1,74,420 TPA (ROM) of Sand Stone in the mine lease area of 9.66 ha. The mine is located at village Lumshnong, Tehsil Khliehriat, District - East Jaintia Hills, Meghalaya. The Latitude and Longitude of the site is North 25° 9'48" to 25°10'4.3"N and 92°22'05.3" to 92°22'23.6"E respectively. Toposheet no. 83 C/8 (Restricted Toposheet). All the land within the lease area is private non forest land; it is a hillock of rocky barren nature. Method of mining will be opencast and mechanized with drilling and blasting. The State Govt. granted two mining leases for Khub-I, 4.96 ha & Khub-II, 4.70 ha to CMCL for meeting the limestone requirement of the cement plant CMCL. The two pre-existing mines were applied for amalgamation, which was granted in the year 2009 vide letter no. MG.-98/2008/23 dated 01.04.2009 (and thereby become 9.66 ha) from Govt. of Meghalaya in favour of Cement Manufacturing Company Ltd. Validity of Lease period is up to 16.01.2025.

Project Proponent informed that project was earlier presented in SEIAA Meghalaya and TOR was issued vide the letter No.SEIAA/PR-20/2012/6, dated 24.04.2013. Baseline studies were carried out during 2013. The Draft EIA report was prepared and submitted to SPCB for conducting Public Hearing. Public Hearing was conducted on 12.06.2014 by Smt D. Phawa MCS, ADC East Jaintia Hills District Khliehriat, Meghalaya. Final EIA/EMP report was submitted to SEIAA on 29.10.2014. Narpuh reserve forest was declared as Wild Life Sanctuary vide no. FOR.128/2013/20, dated 10th June 2014. The project is at a distance of 3.96 km from Narpuh Wild life Sanctuary. The general condition has applied to the project and considered as Category 'A' as per EIA Notification 2006. After that, EC Application for grant of revalidated TOR was submitted in MoEF&CC.

The total water requirement is 43 KLD including water demand for domestic purpose, dust suppression & green belt development which shall be met by Cement Plant of CMCL. The total cost of project would be around Rs. 6.75 Crores. The Project Proponent mentioned that due to change in consultant, revalidated baseline data for month of May, 2015 has been collected.

The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. use of base line data and consideration of Public Hearing

already conducted so that revised EIA/EMP is submitted to MoEF&CC for Environmental clearance. The Committee **recommended** to use of base line data and consideration of Public Hearing already conducted and **extended** the validity of ToR from 24.04.2015 to 23.04.2016 and suggested that the EIA/EMP Report shall be submitted as per Standard ToR.

(2.24). Wah Pyn Kon Limestone Mine" of M/s Cement Manufacturing Co. Ltd. with production capacity of 49,275 TPA (ROM), located at village-Lumshnong, Tehsil-Khliehriat, District - East Jaintia Hills, Meghalaya (13.58 ha) (Consultant: Perfact Enviro Solutions Pvt. Ltd., New Delhi)- Revalidation and Extension of validity of ToR

The proposal of M/s Cement Manufacturing Co. Ltd. is for Limestone Mining with proposed production of 49,275 TPA (ROM) in the mine lease area of 13.58ha. The mine is located at village-Lumshnong, Tehsil-Khliehriat, District - East Jaintia Hills, Meghalaya. The Latitude and Longitude of the site is North 25° 9'42.78" to 25° 9'58.59"N and 92°23'12.31" to 92°23'40.20"E respectively. Toposheet no. 83 C/8 (Restricted Toposheet). All the land within the lease area is private non forest land; it is a hillock of rocky barren nature. Method of mining adopted will be opencast & mechanized with drilling and blasting. Ultimate depth of working shall be 381-330mRL i.e. 51m for Plan period. The State Government has consented to grant the mining lease for Limestone for a period of 30 years (as per recent amendment in MMDR, vide letter no. MG-96/2007/82 dated 22nd July 2010. Mining plan has been approved by letter No.IBM/GHY/MEG/JNH/LST/MP-69 dated 11.05.2015.

Project Proponent informed that the project was earlier presented in Meghalaya SEAC and TOR was issued vide no. SEIAA/PR-23/2012/3 Dated 24th April, 2013. Baseline studies were carried out during March 2013 to May 2013. The Draft EIA report was prepared and submitted to SPCB for conducting Public Hearing. Public Hearing was conducted on 12.06.2014 by Smt D. Phawa MCS, ADC East Jaintia Hills District Khliehriat, Meghalaya and Final EIA report was submitted on 29.10.2014 to SEIAA. Meanwhile Narpuh Reserve forest was declared as Wild Life Sanctuary vide no. FOR.128/2013/20 dated 10th June 2014. The proposed project is at a distance of 3.2 km from Narpuh Wildlife Sanctuary. So the general condition has been applied to the project and considered as Category 'A' as per EIA Notification 2006. After that EC Application for grant of revalidated TOR was submitted in MoEF&CC.

The total water requirement is 16 KLD including water demand for domestic purpose, dust suppression & green belt development which shall be met by Cement Plant of CMCL. The total cost of project would be around Rs. 131 Lakhs. The Project Proponent mentioned that due to change in consultant, revalidated baseline data for month of May, 2015 has been collected. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. use of base line data and consideration of Public Hearing already conducted so that revised EIA is submitted to MoEF&CC for Environmental clearance.

The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. use of base line data and consideration of Public Hearing

already conducted so that revised EIA/EMP is submitted to MoEF&CC for Environmental clearance. The Committee **recommended** using of base line data and consideration of Public Hearing already conducted and **extended** the validity of ToR from 24.04.2015 to 23.04.2016 and suggested that the EIA/EMP Report shall be submitted as per Standard ToR.

(2.25). Mining of Stone (Minor Mineral) in the mine of "Amarpur Jorasi" with proposed production capacity of 10.0 Lakhs TPA (ROM) of Stone by M/s Muneer Enterprises, located at village-Amarpur Jorasi, Tehsil-Narnaul, District- Mahendergarh, Haryana (10.72 ha) (Consultant: Mantec Consultants Pvt. Ltd.)-Consideration of EC

The proposal of M/s Muneer Enterprises is for Mining of Stone (Minor Mineral) in the mine of "Amarpur Jorasi" with proposed production capacity of 10.0 Lakhs TPA (ROM) of Stone. The Mining Lease area is located at Khasra no-145 village Amarpur Jorasi, Tehsil- Narnaul, District- Mahendergarh, Haryana in the mine lease area of 10.72ha. The Mine Lease area lies between 27° 59' 27" to 27° 59'45" N, 76° 03'51" to 76° 04'04"E. The Project is located in seismic zone-IV.

Project Proponent has earlier applied for ToR in March 2014 to the Ministry as the mine is located 7.41 Km interstate boundary of Haryana & Rajasthan and was treated as Category 'A' Project and accordingly the Ministry has accorded the ToR vide letter dated 14.07.2014. Further, PP has requested to transfer the Proposal to SEIAA Haryana as per amendment in the EIA Notification dated 25.06.2014 as the Project is now Category 'B' and as per OM dated 24.12.2013 it is Category B2.

The tenure of SEIAA, Haryana has expired and the PP has submitted the Project online to the Ministry as Category 'B2' Project and also informed that SEIAA, Haryana has already transferred the Proposal to Ministry vide letter dated 24.03.2015. Accordingly the Proposal is placed in this meeting.

The Committee was informed by Project Proponent that they have submitted Form-1 and Pre-feasibility Report online treating the Project as B category as per the EIA Notification, 2006. Environmental Impact Assessment as well as Public Consultation is not required. The EAC viewed that these prescribed exemptions and recommendations are based on provisions of the EIA Notification, 2006 vide para Clause 7.0 sub clause 7(i) I under stage (1) – Screening it provides that "In case of Category 'B' Projects or activities, this stage will entail the scrutiny of an application seeking prior Environmental Clearance made in Form-1 by the concerned State level Expert Appraisal Committee (SEAC) for determining whether or not the Project or activity requires further environmental studies for preparation of an Environmental Impact Assessment (EIA) for its appraisal prior to the grant of Environmental Clearance depending up on the nature and location specificity of the Project." State Govt. of Mines & Geology, Haryana vide letter no. DMG/HY/ML/Amarpur Jorasi/2013/640, dated 24.02.2015 has confirmed that there is no operational mine within 500 meter radius. The Committee also noted that as per Ministry OM dated 24.12.2013, the instant Project is Category 'B' and the EC may be considered based on the Form I, PFR and approved mine plan.

Total mine lease area is 10.72ha. The Letter of Intent has been issued by the Department of Mines & Geology, Govt. of Haryana, vide Letter No.DGM/HY/ML/Amarpur Jorasi/2013/167, dated 03.01.2014. Mine Plan has been approved by Department of Mining & Geology, Haryana vide letter no. DMG/HY/ML/Amarpur Jorasi/MP/4158, dated 15.09.2014. The Mining is proposed to be carried out by opencast mechanized method using shovel and dumper combination. Drilling and blasting are also involved for dislodging the mineral. Apart from mining, the loading and transportation up to stack yard shall be done mechanically. In the present operation, the bench height shall be 9 m. Each bench will advance one by one. While carrying out the mining operations in accordance with the above provision, the overall pit slope shall be maintained at 70°, the mineral bearing rocks being hard and compact. The total water requirement is 10.0 KLD including water demand for domestic purpose, dust suppression & green belt development which shall be met by tanker supply. Yearly generation of soil/fines which is only 500 tonnes shall be used for plantation and as an upper layer on the dumps. The dump may attain a maximum height of 4 m with gentle slope of 30°. Tow walls and drains around dumps are proposed to safeguard the dumps.

The base line data of one Season (Post-monsoon) was collected from October-2014 to December-2014. All the parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. PP reported that there is no Wildlife Sanctuary, National Park, and Habitat for Migratory Birds, Tiger Reserve and Critically Polluted Area etc. located within 10 km radius of the proposed mine. There are two Schedules-I species namely Black buck, & Peacock and Schedule-II species namely Jackal, Jungle cat, Indian Grey mongoose, and Rat Snakes found in buffer zone. The Proponent has prepared the Conservation Plan and proposed a sum of Rs. 25 Lakhs for conservation of all Schedule I & II species. DFO, Mahendergarh, vide letter no. 4664 dated 05.03.2015 confirmed that the lease does not fall under forests area and away from Aravali Plantation area. The total cost of the Project is Rs. 4.0 Crores. The cost on environment protection measures will be Rs. 13.5 Lakhs. It is proposed to incur Rs. 23 Lakhs on CSR activities.

Project Proponent reported that there is a Court case in the Hon'ble High Court Punjab & Haryana in the matter of CWP No. 27700 of 2013 Rajbir Singh v/s State and others. The petitioner had challenged the conditions of the auction notice and the rules relating to Payment of Rent and Compensation to the land owners. The Hon'ble High Court did not restrain the auction proceedings and held that the auctions may be held but it has also directed its Orders dated 17.12.2013 that the same shall be subject to final outcome of above said CWP. Accordingly, the Lol was issued subject to the outcome of the said case. The said case is still pending before Hon'ble Punjab and Haryana High Court for adjudication.

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 proposed production capacity of **10.0 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) 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. 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; (v) 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; (vi) 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; (vii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; (viii) A comprehensive study for slope stabilization of mine benches and OB dumps shall be undertaken within one year; (ix) Washing of all transport vehicle should be done inside the mining lease (x) "Environmental Clearance is subject to final outcome of the Court case in Hon'ble High Court of Punjab and Haryana" or any other Court of Law; (xi) Native plant species as suggested by villagers/specialist may be planted; and (xi) Implementation of Haryana Government Rehabilitation and Resettlement of Land Owners' Policy as per applicability in the area.

(2.26). Mining of Beach Sand Mineral with enhancement of production capacity from 2,37,150 TPA to 7,50,000 TPA by M/s Indian Rare Earth Limited, located at village(s)- Alappad, Panmana and Ayanivelikulangara, Tehsil-Karunagappally, District-Kollam, Kerala (180ha)(Consultant-NIIST, Thiruvanthapuram)-ToR

The Proposal of M/s Indian Rare Earth Limited is for Mining of Beach Sand Mineral with enhancement of production capacity from 2,37,150 TPA to 7,50,000 TPA. The mine lease area is located at village(s)- Alappad, Panmana and Ayanivelikulangara, Tehsil-Karunagappally, District-Kollam, Kerala in MLA of

180ha. The latitudes and longitudes of the Mine Lease area lies between 09° 00'55.97" to 09°02'3.80" N, 76° 31'17.19" to 76° 30'29.90"E.

Govt. of Kerala, vide letter no. G.O (Rt.) No. 746/07/ID, dated 08/06/07 has granted lease to M/s Indian Rare Earth Limited which is valid up to 07.06.2031. Method of mining is opencast, mainly through dredging with enhancement of production capacity from 2,37,150 TPA to 7,50,000 TPA. The process employed at MSP is based on the physical properties of the minerals such as magnetic susceptibility, electrical conductivity, size, specific gravity etc. and no chemical process is involved. Low intensity magnetic separators separate the highly magnetic Ilmenite and high intensity separators separate weakly magnetic Monazite. The electrical conductivity of the mineral is utilized to separate the conductive Ilmenite & Rutile and 'non-conductive' Zircon and Sillimanite.

PP has informed that the mine was earlier accorded EC and CRZ Clearance vide Order No. 11-36/2008-IA.III dated 01.03.2011. PP informed that life of the mine is 30 years and cost of the Project is Rs. 9 Crores. No Court case is pending against the Project.

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) Mitigation measures for protecting Canal; (ii) Details of Radioactivity study to be carried out; (iii) Certified compliance Report of earlier EC & CRZ Clearances; (iv) Compliance status of conditions of AERB clearance; and (v) Mitigation measures for mangrove protection.

(2.27). Enhancement of Limestone production in Captive Limestone mine from 19.6 million TPA to 25.3 million TPA (ROM) of limestone by M/s Shree Cement Ltd., located at village (s)-Nimbeti and Jawangarh, Tehsil-Jaitaran, District-Pali, Rajasthan (750ha)(Consultant: J.M. EnviroNet Pvt. Ltd.)-ToR

The Proposal of M/s Shree Cement Ltd. is for Enhancement of Limestone production in Captive Limestone mine from 19.6 million TPA to 25.3 million TPA (ROM) of limestone. The mine is located at village(s)-Nimbeti and Jawangarh, Tehsil-Jaitaran, District-Pali, Rajasthan in MLA of 750ha.

The existing mine lease area is 750 ha. Mining Lease was granted wide letter no. P-3(65/ Khan/Group-1/91 dated 06.08.1996 and Mining Operation was started on 13 June 1997. The mining method is open cast Mechanized with maximum bench height of 12 m and minimum bench width of 20 m. Controlled blasting, wet drilling/dry drilling with dust collector, high capacity HEMM, crushing and haulage are being/ will be practiced. Ultimate pit slope is proposed to be kept at 45°. Over burden and inter burden is being stacked/will be stacked at earmarked area(s) and backfilled in worked out pit. Water spray in crusher is being/ will be practiced. Controlled blasting using shock tube detonator is being /will be used. Rock breaker is being /will be used in place of secondary blasting. The haul roads are being /will be kept wide to support two-way traffic and

properly maintained by road compactor and regular water spraying. Garland drains and de-silting pit are made all around the OB dumps. Waste water generated from office toilets is being disposed through soak pit via septic tank. Work shop discharge is being used for dust suppression after removal of oil and grease. The total waste generation in Quarry would be 302.0 million tones. Waste disposal is being done by end tipping method and will be continued in future also while forming terraces of 12m in height.

The capital cost of expansion of mines would be Rs. 2530 Lakhs. Existing water consumption is 380 and after proposed expansion, it will be 500 KLD, which will be sourced from the groundwater and rain water collected in mine pit. Permission for withdrawal of ground water for plant, mines & colony has already been granted by CGWA vide letter no. 21-4(12)/ WR/ CGWA/ 2005- 616 dated 23rd May, 2011, 21-4(12)/ WR/ CGWA/ 2005-1220 dated 12th July, 2013 and 21-4(12 -B)/ WR/ CGWA/ 2005- 255 dated 11th February, 2014. There is no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves etc. within 10 km radius of the mine site. There are 2 Reserved (approx 8.3 km in West direction and approx 9.7 km in SE direction) respectively and 1 protected forest (approx 3.5 km in SSE direction) within the 10 km radius from mine site.

The Project Proponent mentioned that they had collected base line data since March 2015 and requested to use the baseline data of pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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) Piezometer time series data; and (ii) Status of compliance of earlier EC and status of Action Plan on the issues raised during earlier Public Hearing; (iii) Green belt development status.

(2.28). Pipaljori Stone Mine with proposed production capacity of 2,12,278 TPA (ROM) by M/s Basant Stone Works, located at Village - Piplajori, Tehsil - Pakur, District – Pakur, Jharkhand (4.84 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)- Reconsideration of EC

The proposal of M/s Basant Stone Works is for stone mining with proposed production capacity of 2,12,278 TPA (ROM) in MLA of 4.84 ha. The mine lease area is located at village–Pipaljori, Tehsil–Pakur, District–Pakur Jharkahnd. The mine lease area is slightly sloping land with rock mass of basalt. The general slope of the area is towards North. The mining lease area is located between the Longitudes 87^o50'21.80"-87^o50'32.09" East & Latitudes 24^o35'29.91"-24^o35'38.24" North in Survey of India Top Sheet number 72P/4.

The proposal was earlier considered by the Expert Appraisal Committee in its meeting held during April 29-30, 2015 wherein the Committee deferred the proposal and sought the following information/clarifications:-

- (i) Status of other mines in 500m radius in the mine lease area has not mentioned whether they are operating mines or accorded the Environmental Clearance for mining of mineral. A certificate of Mines and Geology Department of State Government needs to be submitted to provide the status of all the mines in periphery of 500 m of the mine lease area so as to ascertain the applicability of the exemptions sought under EIA notification, 2006;
- (ii) The PP has informed that the mine was operating up to 2014 without environmental clearance. In this context, the PP needs to submit a certificate of Mines and Geology Department w.r.t. details of production of mineral, year wise, to ascertain about violation, if any, in this case; and
- (iii) The Committee noted that PP has not done Mining scientifically in the past as was seen in the site photographs presented by the PP. In this context PP needs to submit the mine restoration plan of the badly damaged mining site before conducting any scientific mining therein in the future.

In this context, PP vide letter dated 30.05.2015, has replied and based on the information submitted by the Project Proponent, the proposal is considered in the present meeting. The point-wise replies are as below:-

- (i) The PP reported that there are other mines in the 500m radius in the mine lease area (which cover a total of 12.28ha) and all are working. State Govt. of Jharkhand, vide letter no. 639, dated 14.05.2015 reported that total lease area is 12.28ha in periphery of 500 m of the radius. Hence this proposal is to be appraised in the MoEF&CC.
- (ii) The PP has also stated that the mine was in operation from September 2006 till August 2014 and then it was closed due to lack of environmental clearance. Highest production figure of 1,09,821 cubic feet had been achieved in March 2009 and there has been no increase in production till August 2014.
- (iii) PP reported that Restoration of the mined out area will be done after the plan period. The overburden and the soil generated due to mining will be used for backfilling. The rest of the quarry area will be converted into water reservoir. Greenbelt will also be developed before in the barrier zone and near the office premises before mining is started.

The Committee after detailed deliberations, **recommended** the Proposal for environmental clearance for Mining of Stone (Minor Mineral) with proposed production capacity of **2,12,278 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) 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; (iii) 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; (iv) 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; (v) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and Washing of all transport vehicles should be done inside the mining lease; and (vi) "Environmental Clearance is subject to final outcome of any Court case relevant to this Project in Hon'ble Supreme Court, Hon'ble High Court of Jharkhand and Hon'ble NGT or any other Court of Law".

(2.29). Malka Granite Mining Project with proposed production capacity of 5250 TPA (ROM) by M/s Swastik Enterprises, located at village – Malka, Taluka – Nowgaon, District - Chhatarpur, Madhya Pradesh (3.836ha)(Grass Roots Research and Creation India (P) Ltd.)-Consideration of EC

The proposal of M/s Swastik Enterprises is for Granite mining with proposed production capacity of 5250 TPA (ROM) in MLA of 3.836ha. The mine lease area is located at village –Malka, Taluka – Nowgaon, Chhatarpur District Madhya Pradesh.

The Proposal was earlier recommended by the EAC in its meeting held during March 16-18, 2015. The Ministry forwarded the Project to the EAC stating that since it is Category 'A' Project it needs to take ToR, Public Hearing, Preparation of EIA/EMP Report etc.

The Committee deliberated at length and felt that though it is Category 'A' Project, TOR is not required nor any formal EIA/EMP is to be prepared in the instant case nor any Public Hearing is needed in light of negligible impact of the Project activity on Environment. The Committee reiterated its earlier recommendations and recommended the Proposal for grant of EC.

Day 2: 25th JUNE, 2015 (Thursday)

CONSIDERATION OF TOR PROPOSALS

(2.30). J-11015/173/2015-IA-II (M) Jalwa quartz-quartzite (silica stone) mine of M/s Idio Construction and Industries India Ltd located at plot/survey/khasra no- 2604, 2625, 2626, Village- Bishanpur, Kajra, Dist. Lakhisarai, Bihar, (19.8ha; 2,50,000 TPA).

The mine lease area is located at Mauza Bishanpur, Plot Nos. 2604, 2625 & 2626, Kajra, Dist.: Lakhisarai. ML area is situated between Latitude 25°12'11.8"N to 25°12'23.8"N and Longitude 86°16'33.3"E to 86°17'07.9"E. Initially, Mining Plan of Jalwa Quartz-Quartzite (Silica Stone) Mine was approved by Indian Bureau of Mines vide letter No. RAN/LKS/QRTZ-QZT/MP-135(14)/00-01 Dt: 19.04.2001. Mining Scheme along with Progressive Mine Closure Plan for the period 2013-14 to 2015-16 was submitted to Indian Bureau of Mines, Ranchi vide Ref. No.: RAN/LKS/QRT-QTZ/MS-10/2013-14 Dt: 03.03.2014, for approval. The proposal was considered as category 'A' as it is located at a distance of 3 km from Bhimbandh Wildlife Sanctuary.

Mine is operated by opencast mechanized method by using drilling and blasting. The mining will be done by forming of 3.0 m. height benches with the help of shovel dumper combination. When the height of benches reaches 3 m. in mineral the next bench of mineral will be started. Total water requirement for the proposed mining activity will be 8 KLD. 5 KLD will be utilized for dust suppression and 1.5 KLD for domestic purposes & 1.5 KLD for green belt irrigation. No waste water will be generated or discharged from this ML area.

It was informed by the PP that vide order dated 03rd June 2015, National Green Tribunal, Principal Bench, New Delhi, disposed of the application No. 42 of 2015 (EZ) (M.A. No. 131/2015(EZ)) submitted by IDIO with a direction to MoEFCC to consider the application for Environmental Clearance filed by the IDIO and pass appropriate order in accordance with law.

It was reported by the PP that there is no National Park, Wild Life Sanctuary, Habitat for Migratory Birds, Tiger Reserve, Elephant Reserve, Bio-sphere Reserve located within 10 km radius of the mine lease. The total estimated cost of the project is Rs. 25.5 Lakhs.

The Committee observed that this is a **violation case** as mine operated from 2001 to 2008 and 2011 to 2015 without obtaining prior environmental Clearance. MoEF may take actions on violations as per OM dated 12.12.2012 and 27.06.2013. Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs as per Annexure-I.

(2.31).J-11015/177/2015-IA-II (M) M/s Sai Krishna (India) cements private limited captive limestone mine- Turakapalem limestone mine - Greenfield project 2.25 million TPA of limestone production, located at Turakapalem Village, Machavaram Mandal Guntur District, Andhra Pradesh (167.571 Ha) B.S. Envi-Tech (P) Ltd.

Limestone requirement of the plant will be sourced from subject captive mine of 167.571 Ha located about 1.0 km of the proposed Cement Plant area. Mining Lease area falls under the Jurisdiction of Tadutla Village of Machavaram Mandal of Guntur District, Andhra Pradesh. The lease is 80 m above msl and falls between 16°36'36.09"-16°37'30.0" Latitudes and 79°52'35.41"-79°53'22.04" Longitudes. The Limestone mine with about 125 million tonnes of mineable reserves will last for 30 years with proposed production capacity of 2.25 Million Tonnes Per Annum (MTPA) capacity.

Opencast Mechanized method of mining will be adopted. The limestone produced will be crushed in the mine for transport to Cement Plant by conveyor. There is no overburden or other rejects in the ML area except topsoil occurring in patches. Top soil generated during the life of the mine will be utilized for Plantation and development of Greenbelt. Water requirement for the proposed mine is about 100 m³/day for dust suppression, plantation and domestic purposes. This requirement will be supplied by the Cement Plant initially and after formation of the mine pit, rain water collected in the mine pit will be used. It was reported by the PP that there is no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/ Elephant Reserves within 10 km radius of the mine site. The capital Investment Cost is estimated as Rs. 40 Crores.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs as per Annexure-I.

(2.32).J-11015/182/2015-IA-II (M) Baga-bhalag limestone and shale deposit for production capacity of 4.0 MTPA (3.60 MTPA limestone & 0.40 MTPA Shale) by M/s Jaypee Himachal Cement Plant (JHCP) located at Town / Village Baga, Bhalag, Samtyari, Padiyar, Sehnali, Soldha and Mains, Tehsil Bilaspur Sadar(T) & Arki(T), District Bilaspur & Solan, Himachal Pradesh (172.7434 Ha) Consultant: Vimta Labs Limited.

Jaypee Himachal Cement Plant (JHCP) (a unit of of Jaiprakash Associates Limited) proposed additional mine lease area adjoining the existing ML area in three blocks i.e.; Baga block, Bhalag block and Samtyari block over an area of 172.7434 ha with production capacity of 4.0 MTPA (3.60 MTPA limestone & 0.40 MTPA shale) at villages Baga, Bhalag, Samtyari, Padiyar, Sehnali (Tehsil Arki), district Solan) and villages Soldha & Mains (Tehsil Sadar, District Bilaspur), State Himachal Pradesh.

The proposed mine will be captive to meet the raw material requirement for proposed Cement Plant (Unit-II) within the existing Plant premises located at

village Baga, Tehsil Arki, District Solan, Himachal Pradesh as an expansion plan, with an additional capacity of 2.50 MTPA clinker. Govt. of HP had issued a LOI for limestone and shale mine lease over an area of 172.7434 ha, in favour of JAL vide letter no. Udyog- Bhu (Khani-4) Major-2662009-8669 dated 04.12.2013.

The applied ML area consist of three blocks viz Baga block (9.1204 ha), Samtyari block (126.7987 ha) and Bhalag block (36.8243 ha). Geographical co-ordinates of the mining blocks lies between:

Baga block: Latitude $31^{\circ}18'59.0''$ to $31^{\circ}19'21.1''$ N & Longitude $76^{\circ}53'16.4''$ to $76^{\circ}53'42''$ E.

Samtyari block: Latitude $31^{\circ}20'16.7''$ to $31^{\circ}21'24.1''$ N & Longitude $76^{\circ}53'21.6''$ to $76^{\circ}54'44.8''$ E.

Bhalag block: Latitude $31^{\circ}19'25.3''$ to $31^{\circ}20'01.3''$ N & Longitude $76^{\circ}54'08.1''$ to $76^{\circ}54'44.6''$ E.

Bandli and Majhathal wild life sanctuaries exist within 10 km radius of study area. An application for obtaining recommendations/NOC from the National Board of Wildlife has been submitted to the DFO (Wildlife) Wildlife Division, Shimla with a copy to the Chief Wildlife Warden, Shimla vide letter ref. no JAL/JHCP/ Mines/ WL/ 2015/ No. 18676 dated 23rd June, 2015. There are 22 nos. of protected forests and three water bodies located within the study area.

Existing Land use break up: Total ML area – 172.7434 ha (Forest land – 62.8989 ha, Govt land – 72.6853 ha, private land-36.4932 ha and the rest 0.666 ha is inhabited land). Expected life of the mine is 18 years with mineable reserves of 65.731 million tonnes of limestone and 7.021 million tonnes of shale.

Limestone is out cropping so no topsoil exists over the limestone; also no overburden. So there will not be any soil or waste to be generated. The water requirement for the proposed mines will be about 146 KLD and will be met from satluj river which flows at a distance of about 2.5 km from the ML area. About 38 houses & huts have to be displaced and will be rehabilitated under R&R Plan; compensation and other benefits will be in line with applicable R&R policy. The estimated cost of the proposed mining project is about Rs. 350 Crores.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TORs as per Annexure-I.

(2.33).J-11015/185/2015-IA-II (M) Mining of vermiculite of M/S Vermiculite Products Private Limited located at Sy.No.1, Palicherla Rajupalem Village, Gudur Tehsil, Nellore District, Andhra Pradesh State (38.75 ha) SV Enviro Labs & Consultants.

The proposal is for mining of vermiculite of M/S Vermiculite Products Private Limited located at Sy.No.1, Palicherla Rajupalem Village, Gudur Tehsil, Nellore District, Andhra Pradesh. The proposed production is 5,000 TPA over the mine

lease area of 38.75 ha. Therefore, it a category 'B' project, the committee recommended to **transfer** the proposal to SEIAA, Andhra Pradesh.

(2.34). J-11015/186/2015-IA-II (M) Pachayara sand mining project of M/S Maroon Engineers & Consultants (P) Ltd located at Khasra No.: 8, 9, 10, 11, 12, 13, 37, 38, 39, 40, 42, 52, 53, 54, 55, 290, 301, 304, 313, 314 Village Pachayara, Tehsil Ghaziabad, District Ghaziabad, Uttar Pradesh (23.32 Ha,)

The proposal is of M/s Maroon Engineers & Consultants (P) Ltd. Mining lease over an area of 23.32 ha was granted to Shri Satbir Singh, M/S Maroon Engineers & Consultants (P) Ltd. for a period of 3 years on 11.2.2008. Renewal was applied and lease was granted for another 3 years on 28.2.2011 i.e. from 28.2.2011 to 27.2.2014. However, mining was stopped from 30.6.2011 as per the order of District Magistrate, Ghaziabad. Lessee has applied for the lapse period i.e. 2 years and 8 months from the discontinuation of mining.

The proposal is considered as Category- "A" due to presence of Interstate boundary between Uttar Pradesh, Haryana and New Delhi. The Proposed site is on Bed of River Yamuna, near village Pachayara, Tehsil & District Ghaziabad, U.P. The Coordinates of the lease area are Latitude : 28°48'30.69"N to 28°47'42.96"N and Longitude : 77°12'35.44"E to 77°12'20.94"E. located on the toposheet No. 53H 01. It was reported by the PP that there is no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves within 10 km radius of the mine site. The estimated cost for the proposed project is 50 Lakhs. The PP requested to use the baseline data collected by them from March-May 2015. The Committee agreed to the request of the PP to use the data collected during March-May 2015.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs as per Annexure-I.

(2.35).J-11015/187/2015-IA-II (M) Banour limestone mines of Sh. Deepak Chawla with production capacity of 92,000 TPA (ROM) located near Village –Bannaur, Tehsil – Ponta Sahib, District. – Sirmour (Himachal Pradesh). (Area 4.75 ha) (Consultant: Udaipur Mintech Pvt. Ltd., Udaipur).

Bannaur Limestone mine of Shri Deepak Chawla is located near Village-Bannaur, Tehsil – Paonta Sahib, District-Sirmour, State-Himachal Pradesh over an area of 4.75 ha. Proposed production of mineral is 92,000 TPA. The mining lease area lies between Latitudes & Longitudes 30°34'41"N to 30°34'58"N and 77°42'34"E to 77°44'15"E respectively. The proposal was considered as category 'A' as interstate boundary lies at a distance of 1.6 km and cumulative area of mines within 500 meters is more than 5 ha.

The mining lease for mineral limestone was initially granted for a period of 20 years from the date of the registration over an area of 28.26 hectares in favour of Shri S.C. Chawla. The lease area is located near village Bannaur, nearly 35.0km, North East of Paonta Sahib and falls in survey of India Toposheet No. 53F/10.

Mining plan for the said lease area was duly approved by Indian Bureau of mines on dated 09.10.1990. Thereafter schemes of mining have been approved in the year 1999 and 2005.

The lessee applied for renewal of lease for a further period of 20 years vide application dated 13.8.2009. Final mine closure plan was also submitted for surrender of 23.51 hectare area vide letter No. dated 21.01.2011 and got approval for the same vide letter No. Udyog-Bhu (khani-4) Major-264/2009-5133. Due to the demise of Shri S.C.Chwala, lease has been transferred to his legal heir Shri Deepak Chawla, a transfer mining lease deed executed on 31.10.2014 in between Director of Industries and Shri Deepak Chawla S/O Late Shri S.C. Chawla vide State Geologist, H.P. office memorandum No. Udyog-Bhu (khani-4) Major-264/2009-Vol-I-8708 dated 11.11.2014. The lessee has been directed by State Geologist vide letter No. Udyog-Bhu (khani-4) Major-264/2009-5133. dated 31.01.2015 to submit a Mining Plan including PMCP approval, which is under process.

The area forms the main part of the lesser Himalayas and falls on the western ridge of the Niglidhar range. It forms a part of the Krol Belt. Limestone of the area is medium to high grade and will be supplied to the industries as per the market demand for the same. Mining will be carried out by opencast semi- mechanized method with proper benches of 6m width and 6m height, slightly sloping at 70⁰ and with sub benches of 1.5 to 2 m will be followed during the proposed mining. Mining work is being carried out from top level and proceeds to the lower levels.

Total water requirement in the mine will be about 4.5 KLD for drinking, spraying (dust suppression) and plantation. Water will be sourced from nearby village through water tankers. The lease area of 4.75 ha area will be planted up to end of mine life i.e. (3.241 ha as on mined-out benches and 1.509 ha on lease boundary). It was reported by the PP that there is no National Park, Wild Life Sanctuary, Habitat for Migratory Birds, Tiger Reserve, Elephant Reserve, Bio-sphere Reserve located within 10 km radius of the mine lease. The project is located in Seismic zone-IV.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per **Annexure-I** and that the Project Proponent along with EC proposal should also furnish the followings:-

- (i) A detailed report on the safety precautions proposed regarding mining on the sloppy and lose ground shall be submitted; and
- (ii) Drainage arrangements and preparedness against earthquakes/tremors to be included.

(2.36). J-11015/188/2015-IA-II (M) Banour limestone mines of M/s Balbir Singh Supa Ram with production capacity of 30,000 TPA (ROM) located at near Village – Bannaur, Tehsil – Ponta Sahib, District. – Sirmour (H.P.), Khasra No.- 1927/1904 (Area – 0.847 Ha.)(Consultant: Udaipur Mintech Pvt. Ltd., Udaipur).

Banour Limestone Mine of M/S Balbir Singh Supa Ram near Village- Bannaur, Tehsil – Paonta Sahib, District-Sirmour, State-Himachal Pradesh over an area of 0.847ha. Proposed production of mineral is 30,000 TPA (ROM). The mining lease area lies between Latitudes & Longitudes 30°35'20"N to 30°35'22"N and 77°43'28"E to 77°43'29"E respectively. The proposal was considered as category 'A' as interstate boundary lies at a distance of 1.8 km and cumulative area of mines within 500 meters is more than 5 ha.

M/s Balbir Singh Supa Ram, village & P.O. Kamroo, Tehsil-Paonta Sahib was granted the mining lease over an area of 0.847 Ha in Mauza Bannour for mineral limestone for 20 years. The lease area comprises of Khasra Nos. 1927/1904 over an area of 0.847 ha in Mauza Bannour. The status of land is private waste land.

Mining will be done by open cast Semi-mechanized method of mining by forming benches of 6.0 m height and 6.0m width. The sides of the benches will be kept at the safe angle not more than 70 degree from horizontal. Drilling & Blasting will be done in sub-benches of 1.5m to 2m only; the mineral and waste shall be loaded manually. The waste shall be dumped in the proposed dump yard.

Total water requirement in the mine will be about 2.5 KLD for drinking, spraying (dust suppression) and plantation. Water will be sourced from nearby village through water tankers. The lease area of 0.847 ha area will be planted up to end of mine life i.e. (0.6545 ha as on reclaimed area & 0.1925 ha on lease boundary.). It was reported by the PP that there is no National Park, Wild Life Sanctuary, Habitat for Migratory Birds, Tiger Reserve, Elephant Reserve, Bio-sphere Reserve located within 10 km radius of the mine lease. The project is located in seismic zone-IV.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per **Annexure-I** and that the Project Proponent along with EC proposal should also furnish the following:-

- (i) A detailed report on the safety precautions proposed regarding mining on the sloppy and loose ground shall be submitted; and
- (ii) Drainage arrangements and preparedness against earthquakes/tremors to be included.

(2.37). J-11015/189/2015-IA-II (M) Dhanwasa Mona Banour limestone mines of M/S Balbir Singh Supa Ram with production capacity of 1,35,000 TPA (ROM) located at Khasra No.- 1927/1904 Near Village – Bannour, Tehsil – Ponta Sahib, District. – Sirmour (Himachal Pradesh), (Area – 4.958 ha).

Dhanwasa Mona Banour Limestone Mine of M/S Mam Chand Goyal & Sons near Village- Bannaur, Tehsil – Paonta Sahib, District-Sirmour, State-Himachal Pradesh over an area of 4.958 ha. Proposed production of mineral is 1,35,000 TPA (ROM). The mining lease area lies between Latitudes & Longitudes 30°34'34.25"N to 30°34'40.41"N and 77°44'35.46"E to 77°44'43.55"E respectively. The proposal was

considered as category 'A' as interstate boundary lies at a distance of 1.7 km and cumulative area of mines within 500 meters is more than 5 ha.

The mining lease for mineral limestone was initially granted for a period of 10 years from the date of the registration 28.02.1980 over an area of 4.958 hectare in favour of Mam Chand Goyal. Lease was expired on 27.02.1990 and after expiry of lease period first renewal granted on 26.05.1992 for a period of 10 years. Further second renewal was granted on 26.02.2002 for period of 20 years which will be expired on 25.02.2022. The Scheme of mining was approved vide letter no. 614(2)MS-B-39/97-DDN dated 07.02.2014. Due to scarcity of workers it is not possible to carry out mining operations systematically & scientifically through the formation of benches. Therefore lessee has left no option but to deploy excavator for the removal of overburden, extraction of limestone, formation of benches of 6m height & width & construction of approach road for the transportation of mineral & interburden.

Considering systematic & scientific mining, conservation of mineral & protection of environment method of mining has to be changed from manual to semi-mechanized hence, in this context modified scheme of mining is being submitted for a period of 2015-16 to 2017-18. After death of Shri M.C. Goyal, lease was transferred to M/s Mam Chand Goyal & Sons. Mining will be carried out by open cast semi-mechanized method with proper benches of 8m width and 6m height, slightly sloping at 70° and Mineral shall be exploited with the adoption of drilling & blasting. The blasted material broken manually, loaded into tipper manually as well as with the help of an excavator. The existing haul road of the area will be used to transport the material from pit bottom up to the stack yard. Maintaining overall pit slope 45 deg. Mining shall be carried out in two pits viz pit I & pit II. In pit I 1.44 ha area shall be occupied by mining faces and it shall be in between the local coordinates N 1270 to N 1350 and E 1000 to E 1250 & orientation of faces will be east west direction. While in pit II 0.154ha area shall be occupied by mining faces & it shall be in between the local coordinates N 1135 to N 1153 & E 1145 to E 1230. The mining faces will advance from north to south, south-east & south-west directions.

Total water requirement in the mine will be about 4.5 KLD for drinking, spraying (dust suppression) and plantation. Water will be sourced from nearby village through water tankers. The lease area of 2.30 ha area will be planted up to end of mine life i.e. (1.80 ha as on reclaimed area & 0.50 ha on lease boundary). It was reported by the PP that there is no National Park, Wild Life Sanctuary, Habitat for Migratory Birds, Tiger Reserve, Elephant Reserve, Bio-sphere Reserve located within 10 km radius of the mine lease. The project is located in seismic zone-IV.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per **Annexure-I** and that the Project Proponent along with EC proposal should also furnish the followings:-

- (i) A detailed report on the safety precautions proposed regarding mining on the sloppy and loose ground shall be submitted;

- (ii) Drainage arrangements and preparedness against earthquakes/tremors to be included.

(2.38).J-11015/190/2015-IA-II (M) Banour limestone mine of Sh. Rakesh Choudhary with production capacity of 63,160 TPA (ROM) located near Village – Bannaur, Tehsil – Ponta Sahib, District – Sirmour Himachal Pradesh (4.75 ha)(Consultant: Udaipur Mintech Pvt. Ltd., Udaipur)

Bannaur Limestone mine of Sh. Rakesh Chaudhary is situated near village: Bannaur, Tehsil – Paonta Sahib, District Sirmour, State-Himachal Pradesh over an area of 4.75 ha. Proposed production of mineral is 63,160 TPA. The mining lease area lies between Latitudes & Longitudes 30°35'17"N to 30°35'28"N and 77°43'18"E to 77°43'32"E respectively. The proposal was considered as category 'A' as interstate boundary lies at a distance of 1.3 km and cumulative area of mines within 500 meters is more than 5 ha.

A mining lease of 3.31 ha. was granted vide letter no. Udyog-Bhu (khani-4) Major -167/82-I-11855 dated 1.3.2001 in favour of Rakesh Chaudhary. Again the State Govt. has extended the lease area by granting additional lease area of 3.28 Ha. vide letter no. 3311 dated 7.7.2011. The additional lease area of shamlat land measuring 3.28 ha. comprising of Kh. No. 1928/1904, though recommended for grant of mining lease by joint inspection committee was not included in the mining lease at the time of original grant because the Govt.H.P. said that for grant of this particular area clearance from Central Govt. is required. The Shamlat lands in the state of H.P. have been reverted/restored back to the private land owners and the particular area has become private land, and now the clearance from the Central Govt. is not required. Accordingly the said area on persuasion of Lessee was also granted for inclusion in the original Lease vide letter no. 3311 dated 7.7.2011. mining plan for 6.59 ha. was approved vide letter no. 614(2)/MP-B/146/2001-DDN dated 4.01.2012.

The lessee was facing difficulties in operation of this part of ML. Therefore, Lessee had requested the State Govt. on dated 12.12.2012, for surrender of 1.61 Ha. of the lease area and wished to retain only 4.98 ha. from the ML area of 6.59 ha. After Approval of FMCP for an area of 1.61 ha. lessee has submitted modified MP along with PMCP under required Rule- 22(6) of MCR 1960 & 23B (2) MCDR 1988 respectively for next five years. Thereafter state govt. has again directed the lessee vide letter no. Udyog-Bhu (khani-4) Major-167/82-II-7404 dated 30.10.2013. that the area of 0.23 ha from Khasra Bila No. has been excluded, since it was not termed as a part of the lease. The lessee was asked to get Modified MP duly approved by the IBM. Accordingly modified MP for remaining area of 4.75 Ha. was again submitted and approved on dated – 2.02.2014.

Mining will be carried out by opencast mechanized method. Height and width of benches will be mined by 6m and 7m respectively to facilitate the movement of mining machinery with drilling & Blasting. Loading of mineral shall be carried out trucks/dumpers on hire basis. Proposed production of limestone will be 63,160 TPA as (RoM). The waste material generated during the proposed mining will be used for

construction of retaining wall, parapet wall and check dams & other reclamation works.

Total water requirement in the mine will be about 3.5 KLD for drinking, spraying (dust suppression) and plantation. Water will be sourced from nearby village through water tankers. The total mining lease area of 4.75 hectare will be planted up to end of life of mine i.e. (3.467 ha as on mine-out benches & 0.3534 ha on dump area & 0.929 ha on lease boundary). It was reported by the PP that there is no National Park, Wild Life Sanctuary, Habitat for Migratory Birds, Tiger Reserve, Elephant Reserve, Bio-sphere Reserve located within 10 km radius of the mine lease. The project is located in seismic zone-IV.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per **Annexure-I** and that the Project Proponent along with EC proposal should also furnish the followings:-

- (i) A detailed report on the safety precautions proposed regarding mining on the sloppy and loose ground shall be submitted and
- (ii) Drainage arrangements and preparedness against earthquakes/tremors to be included

(2.39).J-11015/191/2015-IA-II (M) Bohar limestone mine of M/S Jai Singh Takhur & Sons, with production capacity of 95,800 TPA (ROM) located at Khasra No.- 1884/131 & 1956/1926/1886/131/2006/14594/2003, Near Village – Bohar, Tehsil – Ponta Sahib, District Sirmour, Himachal Pradesh (4.15 ha.) (Consultant: Udaipur Mintech Pvt. Ltd., Udaipur)

Bohar Limestone mine of M/S Jai Singh Thakur & Sons is situated near village: Bohar, Tehsil – Paonta Sahib, District-Sirmour, State-Himachal Pradesh over an area of 4.15 ha. Proposed production of mineral is 95,800 TPA. The mining lease area lies between Latitudes & Longitudes 30°35'22"N to 30°35'36" N and 77°43'17"E to 77°43'24"E respectively. The proposal was considered as category 'A' as interstate boundary lies at a distance of 1.7 km and cumulative area of mines within 500 meters is more than 5 ha.

Initially the State Government of HP had granted a mining lease for extraction of limestone in Bohar area of Sirmour district in favour of M/S Jai Singh Thakur & Sons over an area of 4.15ha. The ML area was granted on 21.04.1985 and executed on 26.04.1985 for a period of 20 years. The mining operations were commenced in 01.12.1985. The ML was expired on 25.04.2005. It was further renewed for a period of 10 years up to 25.04.2015 vide State Govt. Order no. Udyog-Bhu (Khani-4) Major-118/2004-9554 dated 03.03.2006. The Lessee has applied for 2nd renewal on 19.02.2014.

It is proposed to develop mine working from top to bottom. Mining will be carried out by open cast method using semi mechanized means by developing of 9 numbers of benches of 6m height to facilitate the systematic development of the area. Total water requirement in the mine will be about 2.5 KLD for drinking,

spraying (dust suppression) and plantation. Water will be purchase from nearby village through water tankers.

It was reported by the PP that there is no National Park, Wild Life Sanctuary, Habitat for Migratory Birds, Tiger Reserve, Elephant Reserve, Bio-sphere Reserve located within 10 km radius of the mine lease. The project is located in seismic zone-IV.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per **Annexure-I** and that the Project Proponent along with EC proposal should also furnish the followings:-

- (i) A detailed report on the safety precautions proposed regarding mining on the sloppy and lose ground shall be submitted;
- (iii) Drainage arrangements and preparedness against earthquakes/tremors to be included.

(2.40).J-11015/196/2015-IA-II (M) Roida – II iron ore mines over of M/S Khatau Nerbheram and Co. located at Village: Roida & Tanto, Tehsil – Barbil, District – Keonjhar, Odisha over an Area of 74.867 ha.

The proposal was placed in the agenda by mistake. The proposal will be considered only after completion of carrying capacity study by NEERI.

Day 3: 26th JUNE, 2015 (Friday)

CONSIDERATION OF EC PROPOSALS: 10.00 AM onwards

(2.41).J-11015/211/2009-IA-II (M) Karya Magnesite Mine of M/s. Mysore Minerals Limited, located at Post Karya, Taluka Nanjangudu, District Mysore, State Karnataka (ML area 86.25 ha, expansion of capacity from 0.24 LTPA to 3.875 LTPA (Magnesite-0.24 LTPA and Dunite –nil to 3.635 LTPA) Consideration for EC

The proposed project is situated at Karya Village, Nanjungud Taluk, Mysore District, Karnataka State. Longitude: E: 76° 32' 42.7" - E: 76° 33' 17.6" and Latitude: N: 12° 04' 04.6" - N: 12° 04' 33.2". Karya Magnesite Mine is situated 14 km of Nanjungud town in Nanjungud Taluk of Mysore District in Karnataka State.

M/s Mysore Minerals Limited, a Government of Karnataka Undertaking, is having the lease for mining of Magnesite and Dunite over an area of 86.25 ha located at Village Karya, Nanjangud Taluk of Mysore District. Mining lease was granted for 20 years with effect from 24th May 2004 which is valid up to 23rd May 2024. The lease was granted from Govt. of Karnataka w.e.f. 24.05.1983 which is valid up to 23.05.2003. Subsequently, Lease was renewed for 20 years by Govt. of Karnataka w.e.f. 24.05.2003 which is valid up to 23.05.2023. Consent For Operation from Karnataka State Pollution Control Board was obtained (168/PCB/MIN/CFO/2014-15/806 dt. 07.10.2014 valid upto June 2015). Mining plan was prepared and approved from IBM vide MP/MYS/Mg-226-SZ/1491 dtd. 19.12.2008.

The application is for expansion of capacity from 0.24 LTPA to 3.635 LTPA of Magnesite/Dunite. The TOR were prescribed on 17th Dec 2009. EIA Report was prepared incorporating public Hearing by EIA Consultant M/s. Netel India Limited, Thane. Further, technical presentation was made before Expert Appraisal Committee meeting held on 21-23 Feb 2012. The EAC instructed the Project Proponent to redo EIA study by collecting data afresh, redo the Public Hearing and submit the Final EIA through QCI/NABET approved EIA Consultant. Accordingly, M/s. Mysore Minerals Limited engaged the services of METAMORPHOSISSM Project Consultants Pvt. Ltd., Bengaluru QCI/NABET approved EIA Consultant for conducting EIA report to obtain Environmental Clearance.

The fresh baseline data was collected for the season of Winter 2013-14, draft EIA Report was prepared and submitted to KSPCB to conduct Public Hearing. Final EIA Report was prepared incorporating proceedings of Public Hearing and submitted to MoEF & CC for obtaining Environmental Clearance for annual production of 3.875 LTPA (Magnesite: 0.24 LTPA and Dunite: 3.635 LTPA). The Public Hearing was held on 07.01.2015 at Karya Magnesite Mine, Karya village, Nanjungud Taluk, Mysore. The Public Hearing was presided over by Additional Deputy Commissioner. The issues raised during Public Hearing were also considered and discussed during the meeting, which inter-alia, included that mining activities should not result into any adverse affects on environment and that the natural resources should not be affected, air pollution control measures to be adopted, raising of plantations, sprinkling of water etc. need to ensured. As per the villager's requirements, it was informed by the PP that they would provide facilities to address health issues, education, and assistance in providing infrastructure facilities, basic amenities etc. Necessary budget provision have been incorporated in the Project Plan.

Accessibility and transportation of heavy equipment to lease area by road or rail is easy. No problem is envisaged in accessibility and transportation of heavy equipment to site by road or rail as nearest broad gauge railway line is Mysore which is 32 km from the mine site, Mysore - Ooty road connectivity is through National Highway located at distance of 16 Km from the mine site. Mine location has been so chosen that, it is close to the main road and broad gauge railway line thus, transportation of finished products to various sites is easy and economical. Additional water requirement for the project is about 56 KLD. It was reported by the PP that there are no Protected Areas (PA) within 10 kms radius from the lease area and there was no violation from this mine. The PP clarified that they have not enhanced the production and mine lease renewal fell due in 2003, therefore project did not required EC. The Committee was also of the view that this is not a violation case.

Baseline Ambient Air Quality data was carried out at 7 locations for months of December 2013 to February 2014 and results are well within the CPCB standards. The data submitted indicated that PM₁₀ (42 - 53 µg/m³), PM_{2.5} (14 - 18 µg/m³), SO₂ (10.2 - 14.2µg/m³) and NO_x (12.4 - 20.6 µg/m³). The maximum incremental GLC of PM is 3.1 µg/m³, SO₂ 0.81 µg/m³ and NO_x 1.17 µg/m³. Dust suppression systems will be adopted. All trucks and transfer points shall be covered to control fugitive dust. Dust suppression by water sprinklers and transportation to / from the mine site by fully covered dumpers will ensured. Environmental Monitoring will conducted on regular basis through approved laboratory as per statutory guidelines. The estimated project cost is about Rs. 100 Lakhs (Initial cost towards EMP is Rs. 45 Lakhs, whereas recurring cost is estimated to be about Rs. 89 Lakhs).

After detailed deliberation and discussions the Committee **recommended** the proposal for grant of environmental clearance, with the additional specific condition that (i) Development of green belt shall be taken up with the plantation of native species.

(2.42).J-11015/393/2010-IA.II(M) Sadanandapuram Manganese Ore Mine of M/s Rai Bahadur Seth Shreeram Durgaprasad & Fatechand narasingdas located at village Sadanandapuram, mandal Gurla, District Vizianagaram, Andhra Pradesh (B. S. Envi-Tech Pvt Ltd.) Consideration for EC

The Mine site is located at Sadanandapuram Village, Gurla Mandal, Vizianagaram District of Andhra Pradesh with an average elevation of 100 m above msl. The site falls between Lat-Longs a) 18° 16' 01"N - 83° 32'21.48" E, b) 18° 15' 27.43" N - 83° 33'1.12" E, c) 18° 14' 53.45" N - 83° 33' 22.37" E and study area falls within the Survey of India Toposheet No.65N/11.

The proposal was considered for TOR by the Expert Appraisal Committee in its meeting held during 23-25 February, 2011. The Terms of Reference was issued by MoEF for carrying out the Environmental Impact Assessment study vide letter No. J-11015/393/2010-IA.II (M) dated 28/03/2011. Area of the mining lease is 56.838 Ha. Present land use of the mining lease area is 10.44 Ha - under mining activities, 8.805 Ha - area used for green belt development, 6.726 Ha -dumping site. The proposal is to increase the Manganese Ore production from 0.022 TO 0.10 MTPA by adopting semi-mechanized open cast mining method. The Mining plan is approved by IBM vide Letter no. AP/VZNR/MS-104/Hyd dated 14.03.2011.

Mining will be limited to a maximum depth of 57 m. The mining will be carried out by forming benches. The bench height is proposed to be kept at 1.5 m in ore and the width also as 1.5 m and 3 m in OB. The in situ ore is soft and friable and hence no blasting is required. Since most of the ore is occurring as fines it will be directly mined and loaded into the tippers to be transported to the mineral yard. In the yard proper blending of ore is done as per the requirement of the buyer and then dispatched to the respective destinations. It is estimated that about 10% of ore will be Sub grade and 10% is considered as mineral rejects. It is proposed to dump the sub grade and mineral rejects in separate dump yards, so that it can be utilized in future.

During the entire tenure of mining in this lease area, a total of about 1.12 million tonnes of waste will be generated and will be dumped into the exhausted pits. The waste material generated by mining operations was dumped over an area of 6.72 ha. The water is required mainly for dust suppression, greenbelt development, drinking and other domestic purposes. At present, the total water consumption in the Sadanandapuram Manganese mine is 10 m³/day. Additionally, 15 m³/day will be required for the proposed expansion. The water will be sourced from mine pit.

The water table is about 8-10m deep below the surface. Ultimate mining depth is 57 m. Mining operations will intersect ground water table. A detailed hydrogeological study was done and the report was submitted along with final EIA Report to MOEF. It was reported by the Project Proponent that there are no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves existing/proposed within 10 km of the mine lease. There are no Schedule - I species recorded in the study area

Baseline studies were carried out during Winter season of 2011-12. The Public Hearing for the Proposed Project was conducted on 21.11.2012. The estimated capital budget for proposed increase in the production of Manganese Ore from 0.022 to 0.1 MTPA, from Sadanandapuram Manganese Mines and that 9.5 lakh is budgeted for implementing the Environmental Management Plan. It was informed by the PP that no litigation is pending against the project.

The proposal was considered in the EAC meeting held during April 29-30, 2014. It was noted that the Compliance report of the earlier EC was not satisfactory. Therefore, the Committee decided to defer the proposal and that to be resubmitted with compliance report of the earlier EC. On submission of the certified compliance report, the proposal was considered in the present meeting. It was noted by the Committee that ground water table was intersected without taking permission from the CGWA. Earlier EC was granted with the condition that permission from CGWA shall be obtained for intersecting the ground water table. The Committee therefore decided to **defer** the proposal, to be brought back only when the following are submitted:

- (i) The permission from the CGWA for intersecting the ground water table.
- (ii) The conservation plan for schedule-I species including wild bear.
- (iii) Detailed proposal for development of Green Belt, integrating the concern for conservation of native species.

(2.43).J-11015/174/2013-IA-II(M) Expansion of Mining capacity of Budawada Limestone Mines by M/s Jaypee Cement Corporation Ltd. located at village Budawada, Mandal Jaggayyapeta, district Krishna, Andhra Pradesh (629.22ha, 6.0 MTPA) (VIMTA Labs limited) Consideration for EC

The proposal is for enhancement of production from 3.47 MTPA to 6.0 MTPA of Budawada limestone mine within existing mining lease area of 629.22 ha at Budawada village, Jaggayyapeta mandal, Krishna district, Andhra Pradesh. The study area covers 10 km radius around the mine lease area and it lies between Latitudes 16°50'32.64" to 16°52'15.54" N, Longitudes 80°02'44.95" to 80°05'43.14" E and is covered by topo sheet no. 56 P/13, 65 D/1.

M/s. Jaypee Cement Corporation Limited (JCCL), formerly Jaiprakash Associates Limited (JAL) has commissioned 5.0 MTPA Cement Plant and Captive Limestone Mine of 3.47 MTPA capacity to meet partial limestone requirement of Cement Plant at Budawada village, Jaggayyapeta Mandal, Krishna district, Andhra Pradesh. To meet the complete limestone requirement of existing 5.0 MTPA Jaypee Balaji Cement Plant, JCCL proposed to enhance the capacity of Budawada Limestone mine from 3.47 MTPA to 6.0 MTPA within existing mine lease area of 629.22 ha.

Present proposal received Terms of Reference (TOR) from MoEF&CC vide letter No. J-11015/174/2013-IA.II (M), dated 17th September 2013. Public hearing for the proposed project was conducted through Andhra Pradesh Pollution Control Board (APPCB) on 31st July 2014 at Budawada village. Environmental Clearance for 3.47 MTPA captive mine was granted by MoEF vide letter No: J-11015/466/2008-IA. II(M) dated 10th December 2009. The certified compliance report of the

proposal was discussed during the meeting. The modified mining plan has been approved by Indian Bureau of Mines vide letter no: MP/AP/KSN/LST/190/SZ/891 dated: 28.06.2013. The expected life of the mine is about 20 years with a stripping ratio of 1:0.004 (LS to OB) (tonne:m³). The proved & probable mineral reserves are 115.46 MT. No overburden generation; only topsoil is generated, which will be used for plantation.

The mining lease area admeasures about 629.22 ha which is denotified forest area. Forest clearances were issued by MoEF (FC Div.), GOI vide letter F.No.8-93/2010-FC dated 01.03.2011. The requirement of water at mines will be around 70 m³/day which will be sourced from mine pit and Krishna river from which already permission has been obtained for the existing mine. No water is required for processing. To meet water requirement for mining purpose, mined out pits/sumps have been developed as rainwater harvest ponds which are utilized for washing, water sprinkling on haul roads and Greenbelt development etc.

It was reported by the PP that there are no ecologically sensitive areas/protected areas, national parks and biospheres reserves and no migratory paths of birds and animals in 10 km radius of the mine lease area. The baseline environmental monitoring studies were conducted during post monsoon season. Ambient air quality at the monitoring stations was well within limits as per National Ambient Air Quality standards. In ecological study have been carried out and observed that there are no endangered species of fauna reported or observed in the vicinity of the project area. List of flora and fauna is authenticated from Forest Department, Andhra Pradesh. The Public Hearing was held on 31.07.2014 at Budawada village, Jaggayyapeta, Krishna district. The Public Hearing was presided over by District Revenue Officer and Additional District Magistrate. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia, included that mining activities should not result into any adverse affects on environment and that the natural resources should not be affected, air pollution control measures to be adopted, raising of plantations, sprinkling of water etc. need to be ensured. As per the villager's requirements, it was informed by the PP that they would give preference to locals for employment and provide facilities to address health issues, education, assistance in providing infrastructure facilities, basic amenities etc. Necessary budget provisions have been incorporated in the Project Plan.

The estimated cost for the proposed mining project including utilities, offsite, auxiliary services etc., is about Rs. 95 crores. The anticipated capital expenditure for the pollution control measures is Rs. 32 lakhs and with a recurring budget of 17 lakhs per Annum. It was reported by the PP that for the proposed mine expansion, there is no court case/litigation pending against the project.

After detailed deliberation and discussions, the Committee **recommended** the proposal for grant of environmental clearance.

(2.44).J- 11015/107/2013-IA.II (M) Mauza Bathu Silica Boulders, Boulders, and & Bajri mining of M/s Himachal Chemicals & Silicate Works located at mauza Batha, tehsil Haroli District Una, Himachal Pradesh (47,020 TPA (ROM); 27.47 Ha) (Consultant: Grass Roots Research & Creation India (P)

Ltd.) Consideration for EC

The proposal of M/s Himachal Chemicals & Silicate Works is for mining of Silica Boulder, Boulder, Sand and Bajri Mining Project (Minor Mineral) at Village: Bathu, Tehsil: Haroli & District: Una, Himachal Pradesh with proposed production capacity of 47,020 TPA (ROM) of Silica Boulder, Boulder, Sand and Bajri in the mine lease area of 27.47ha. The mine lease area lies on Hum Khad a tributary of Soan River. The Latitudes and Longitudes of the mine lease area lies between 31° 18' 42.78" N to 31° 19' 19.40" N and 76° 16' 14.89" E to 76° 17' 16.12" E on Survey of India toposheet numbers 53 A/7. The Project is located in Seismic zone-IV. The proposal was considered as Category 'A' as project site lies within 5 km radius of interstate boundary between Himachal Pradesh & Punjab.

The proposal of TORs was considered by the EAC-MoEF, in its Meeting held on 26th June, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter No. J-11015/107/2013-IA.II (M) dated 16th September, 2013.

The mine lease area is 27.47 ha which is on Hum Khad. No forest land is involved. Lease has been grant for in favor of M/s Himachal Chemicals & Silicate works for mining of minor mineral Silica Boulder, Boulder, Sand and Bajri over an area of 27.47 ha. The applicant has got his lease deed renewed vide letter No. Udyog-Bhu (Khani-4) Major 142/2005-10450 dated 21-2-2009 for a period of 20 years with effect from 27-7-2005 to 26-7-2025. The lease has been granted for mining of Silica Boulder. The lessee has applied vide letter no. HCSW/2013/488 dated 11-2-2013 for permission to extract minor minerals Sand, Boulder (low silica) and Bajri in addition to Silica Boulder. As per the letter no Udyog-Bhu (Khani-4) Major 142/2005-10418 dated 26-2-2013 as intimated to the lessee, the same has been forwarded to govt. of H.P. to amend the same in the already granted lease vide letter no. Udyog-Bhu (Khani-4) Major 142/2005-10256 dated 20-02-2013.

Mining will be done by manual opencast method. Mining will be done in scientific and systematic manner as planned in a rotational way. Excavation will be carried out up to a maximum depth of 1 meter from surface of deposit and not less than one meter from the water level of the River Chanel whichever is reached earlier. Mining will be done leaving sufficient safety barrier of 1/5th of width of the *khad* for bank stability. Restoration of banks will be done. Mineral will be transported by road.

Proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). The total water requirement is 4.11 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. No ground water interception during the mining operations is envisaged.

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. The Public Hearing for the proposed Project was conducted on 29-12-2014 at 3.00 p.m at village: Bathu, Tehsil: Haroli & District: Una, Himachal

Pradesh. The Public hearing was presided over by Shri Rajesh Mariya, Additional District Magistrate (Finance & Revenue). The representatives from the Himachal Pradesh State Pollution Control Board were 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, hiring vehicles of local people for transportation of materials, effective implementation of measures to control dust pollution and materials given should be free of cost and to the beneficiary of Indira Awas yojna and other funds for environment management.

The cost of the Project is Rs. 35 Lakhs. The Proponent has earmarked Rs. 7.75 Lakhs towards Environmental Protection Measures and Rs. 4.95 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 1,75,000 per annum have been earmarked towards CSR activities for next five years of mining operation.

After detailed deliberation and discussions the Committee **recommended** the proposal for grant of environmental clearance.

(2.45). J-11015/342/2013-IA-II(M) Black & Colour Granite Mine of M/s P. Gowtham Reddy, Located at Sy, No. 107/P & 13/P of Vill-ambodarapalli & Pathapalyam, Mandal-G.D. Nellore, District- Chittoor, Andhra Pradesh (8.099ha; 1062 m³/annum) (M/s. Sri Sai Manasa Nature Tech Pvt Ltd.) Consideration for EC

The proposal of Sri P. Gowtham Reddy S/o P. Suryanarayana Reddy is for mining of Black & Colour Granite (Minor Mineral) with production capacity of 1062 m³/annum of Granite. The lease is located at Ambodarapalli & Pathapalyam Revenue villages of Mandal – G.D. Nellore, District Chittoor, Andhra Pradesh in mine lease area of 8.099 ha. The lease area falls on the Latitudes 13°32.7" to 13°10'41.5"N and Longitudes 79°15'7.63" to 79°15'24.17"E on the Survey of India Toposheet No. 57 O/8. The proposal was considered as category 'A' as interstate boundary is located at a distance of 1.03 km.

The proposal was considered by the Expert Appraisal Committee in its Meeting held during 12th November, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by MoEF vide letter No. J-11015/342/2013-IA.II (M) dated 8th January, 2014. The proponent submitted EIA/EMP online to the Ministry for seeking environmental Clearance after conducting Public Hearing. The total mine lease area is 8.099 ha is Government non-forest land. Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 30 meters from surface of granite deposit. Letter of Intent (LOI) for grant of mining lease for minor mineral Granite over an area of 8.099 ha has been granted from Director of Mines and Geology Department, Govt. of Andhra Pradesh vide letter dated 11th June 2013 for the period of 20 year to Sri P. Gowtham Reddy S/o P. Surya Narayana Reddy. Total water requirement for the project will be 5.0 KLD including water demand for domestic purpose, dust suppression & green belt development which shall be met by tanker supply from existing bore-wells/ tube wells of nearby villages. The working is proposed on higher elevations; no ground water interception during the mining operations is envisaged. 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). One season baseline data has been collected from December, 2013 to February 2014 (Winter season 2013-14) 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 20.11.2014 at Project site in Chittoor District. The Public Hearing was presided over by Shri N. Bharat Gupta, Joint Collector & Addl. District Magistrate. The issues raised during the public hearing were also considered and discussed during the meeting, which inter-alia, included 'do not harm grazing land and nearby fields'. The cost of the project is Rs. 80.0 Lakhs. Cost for Environmental Protection is Rs. 6.0 lakhs (capital cost) and 2.0 lakhs (recurring cost), Budget for occupational health is Rs. 0.8 lakhs (capital cost) and 0.25 lakhs (recurring cost). For CSR Rs. 0.5 lakhs/annum will be allocated.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining black and colour granite with proposed production capacity of 1062 m³/annum in the MLA of **8.099ha**.

The Committee **recommended additional specific conditions** viz. (i) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkups 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.

(2.46).J-11015/150/2013-IA.II(M) Color Granite Quarry of M/s Vishwaksen Industries Pvt. Ltd. located at Village Gagarajapuram, Tehsil-Meliaputti Mandal, District Srikakulam, Andhra Pradesh (15.00 ha; 2,400 cum/annum) (VISON LABS)-Consideration for EC

The proposal of M/s Vishwaksen Industries Pvt. Ltd is for mining Color Granite Quarry Mining Project (Minor Mineral) at Village: Gagarajapuram, Tehsil-Meliaputti Mandal, Distt Srikakulam, Andhra Pradesh (15.00 ha) with proposed production capacity of 2400m³/Annum of Color Granite Quarry in the mine lease area of 15.0 ha. The Latitudes and Longitudes of the mine lease area lies between Latitude- 18°47' 22.06" to 18°47' 39.50" N, Longitude- 84°13' 28.87" to 84° 13' 21.90" E. on Survey of India toposheet numbers No 74B/1. The Project is located in Unsurveyed Area of Durgamma Hill Gap Area Gangarajapuram Village. The proposal was considered as category 'A' as interstate boundary of Andhra Pradesh and Odisha is located at about 1.7 km.

The proposal of TORs was considered by the EAC in its Meeting held on June 26th-28th, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter No. J-11015/150/2013-IA.II(M) dated 25th April, 2014. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing on 18.02.2015.

The mine lease area is 15.0 ha which is on Durgamma Hill Gap Area total government waste lands. No forest land is involved. Letter of lease deed for grant of mining Quarris-Quarry Lease for Colour Granite of M/s Vishwaksen Industries

Pvt. Ltd. an area of 15.00 ha has been granted from State Mines and Geologist, Govt. of Andhra Pradesh vide letter dated 23.08.2007 for the period of 20 years. The Mining Plan is approved by State Geologist, Govt. of Andhra Pradesh vide letter no. 2662/Q/2007, dated 23.07.2008.

Opencast mining will be done by Semi-mechanized method. Once the boulder is freed by removing the soil and waste rock surrounding it, a series of holes are drilled by compressed air Jack Hammer at a regular interval of 15-30cms depending the size of the boulder, the depth of the hole depends on the height of the boulder and the holes are drilled up to the bottom leaving about a foot at the base. Drill hole pattern will be uniform single lined pattern, equidistance holes form 0.33m to 0.75 m, 4.5m in depth. The dressed blocks will be transported to the various destinations by hired turcks.

The total water requirement is 6 KLD for the project is sourced from the local warer supply. As an alternative source, it is proposed to divert the run off/Storm water into holding tank/Siltation tank followed by rain water harvesting pit. As the proposed lease is a hill and during the monsoon the run off flows down the hill in its natural course and joins into the seasonal nallahs.

The baseline data was generated for the period during March-May 2014 . All the parameters for water and air quality were within permissible limits. The Public Hearing for the proposed Project was conducted on 18.02.2015 at 10.30 a.m at near Mandal Parished Prathamika Pathasala, Gangarajupuram Village, Meliaputti Mandal, Srikakulam Distinct. The Public hearing was presided over by Joint Collector and Additional District Magistrate Srikakulam. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included the soil erosion and loss of productivity, employment etc. PP informed that these issues have been taken up and incorporated in the Project Plan with budgetary provisions.

It is reported by the Project Proponent that there is no court case/litigation is pending against the project. The estimated cost of the Project is Rs. 50 Lakhs. It was noted that this is a **violation case as mine was operating from 2007-2013 without obtaining environmental clearance**. The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for mining colour granite with proposed production capacity of 2,400 cum/annum in the MLA 15.0 ha.

The Committee **recommended additional specific conditions** viz. (i) 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.

(2.47). J-11015/83/2013-IA.II(M) Expansion of Lime Stone Mining (5.5 MTPA to 7.6 MTPA) at Village Kashlog, mangu and Pati, Tehsil Arki, District Solan, Himachal Pradesh by M/s Ambuja Cement Limited (469 ha) Consideration for EC

The proposal is for expansion of Kashlog Limestone Mine of M/s Ambuja Cements Limited from 5.5 MTPA to 7.6 MTPA falling in villages Kashlog, Chakru, Serwala, Banjan, Pati, Banli, Badog, Banog, Rathoh, Mangu, Chola, Ghamaru, Serjeri, Gyana, Rauri and Sangoi of Arki Tehsil, Solan District, State Himachal Pradesh. The Latitude and Longitude of the site fall between 31°13'50.5" to 31°15'28" N and 76°55'38.5" to 77°0'9.5" E respectively. The proposal was considered by the Expert Appraisal Committee (Industry) during 91st meeting held on 9th to 11th February, 2009. The Expert Appraisal Committee (Industry) and the two co-opted members from the EAC (Mining), after detailed deliberations, finalized the TOR. The TORs were issued by MoEF vide letter no. J-11011/986/208-IA-II (I) dated 12th March, 2009. The limestone expansion project is a part of integrated project of expansion of Rauri Clinkerisation Unit from 1.8 to 2.6 MTPA capacity.

The original mine lease area is 488.06 ha which is under renewal. It comprises 138.70 ha Government forest land and 349.36 ha private waste, ghasni and agricultural land. Forest Advisory Committee has principally cleared the renewal of 122.18 ha forest land for which earlier clearances were available over 102.8 ha and 19.38 ha separately. As per the new guidelines of forest diversion, ACL has plans to surrender 16.52 ha forest land which falls on ML periphery and for which, diversion was not sought. The Mining plan was approved by IBM vide Letter No. 614(2)/MP-A-324/11-DDN dated 20.03.2012. Darlaghat (Piplughat) Sanctuary and Majathal Sanctuary are located within 10 kms distance from core zone. No endangered flora is reported. Five Schedule – I species have been reported in the buffer zone.

The mine is being operated by opencast method and excavations are being carried out by gradual slicing off from the top of the limestone hill. The mining operations comprise pre-production development stage and the production stage. During the pre-production stage haul roads are laid and the faces are developed and made ready for raising limestone. Haul roads have been designed based on geo-technical parameters, shape of the ore body and size of the equipment plying in the mines. Adequate drainage has been provided along the roads to prevent erosion from runoff water. The average height of the benches is 10 m and face slope is 80-90° during excavation. The slope stability investigations for the mine were carried out by Indian Bureau of Mines, Nagpur and CMRI, Dhanbad and as per their suggestions, ultimate bench slope of 45° shall be maintained. State of the art controlled blasting techniques are adopted.

The grade of the mined out limestone that is supplied to the crusher/Cement Plant is of the order of 43 to 44.5 % CaO. The requirement of the Cement Plant for kiln feed is about 43.5 % CaO. Presently, all the mined material is supplied to this Plant.

In the mining area, there is no generation of significant waste material which needs dumping or segregation. All sub-grade material like shale, shaly limestone is blended in ROM and supplied to crusher for use in raw mix design. The water

requirement of 150 to 170 m³/day for mining usage shall be met from Pazeena (Pagoda) Khud & Mine Sump. Pazeena Khud is a tributary of Sutlej River. Permission to draw 1200 KLD of water from Pazeena Khud for project is available. Mining operations in the mining lease area will not intersect water table. However, the hydro-geological studies were conducted by Shri R P Agarwal, Retired Regional Director, Central Groundwater Board for Plant and mines area and the report is included in EIA report.

Public Hearing was organized by the Himachal Pradesh State Pollution Control Board on 30.08.2012 at Government Primary School, Rauri - Darlaghat Tehsil Arki, Distt. Solan. The PH was chaired by ADM and RO-SPCB Himachal Pradesh. The major issues raised were inflow of water into fields due to which their paddy crops are affected. Mining is being carried out at a distance of 50 m to 100 m from the village. They face problems due to dust generation from vehicle movement. In response, the proponent committed for proper drainage of the surrounding in the mining areas so that all the runoff water from the mines is collected in the bottom pit of the mines. This water is re-used by Ambuja in the mining area for sprinkling on haul roads and machine washing purpose. It was mentioned that PP uses eco-friendly methods such as ripper dozers, hydraulic rock breakers and the hydraulic cutting drums so as to cause minimum inconvenience to the villagers. Haul roads inside the mining area are temporary. Provision of water sprinkling through tankers will be made to suppress dust. Sufficient water sprinkling system has been provided in the mining and crusher area to control fugitive dust. All efforts are made to maintain the noise and dust generated within permissible limits in the mining area.

The total project cost is about Rs 8950 Lakhs. The proposed cost of environmental protection measures is about Rs 990.6 lakhs per annum for Plant and mines. Provision of about Rs 400 lakhs per annum has been earmarked for socio economic development of surrounding region.

The proposal was earlier considered by the Expert Appraisal Committee in its meeting held during May 15-17, 2013, wherein Committee members informed that mine plan of the project was not circulated to all the members and Questionnaire was not included in the EIA report, however, it was submitted during the meeting. Further, the baseline data was more than 3 years old and the season taken i.e. April-June was not as per the IMD norms. EAC deferred the proposal and desired to resubmit revised EIA/EMP report including the following information:

- i. Detailed list of lower plant species, such as bryophytes, pteridophytes etc.
- ii. Validated List of endangered species.
- iii. The wildlife conservation plan to be duly approved by concerned State Government.
- iv. Measures for prevention of fly rocks through muffled blasting.
- v. Large no. of issues raised during the public hearing were not addressed, namely comprehensive health aspects, mineralogical composition of RSPM etc. This is to be done and time bound Action Plan with budgetary provisions, submitted.
- vi. Details of CSR activities.
- vii. Latest status of the Court cases, which may have a bearing on the EC process under consideration.

- viii. It was also noted that Darlaghat (Piplughat) Sanctuary and Majathal Sanctuary are located within 10 kms distance from core zone and NBWL clearance was not obtained and the mine is working. Therefore, it is a violation case.

On submission of information the proposal was considered in the present meeting, the fresh baseline monitoring data was collected for the study period during October 2013 to December 2013. The analytical results of samples of air and water collected were within permissible limits.

The mine lease area as per original grant order was 488.06 ha. The 488.06 ha ML area was changed to 485.52 ha due to correction in land records at the time of processing of ML renewal application. The lease comprises 138.70 ha forest land and balance private agricultural and waste land. The Mining Lease is valid upto 27/05/2042 as per Mines & Minerals (Development & Regulation) Amendment Ordinance, 2015 dated 12th Jan' 2015. Renewal of Forest Clearance for 122.18 ha area has been obtained. The earlier forest clearances were available over 102.8 ha and 19.38 ha separately. The Mining plan was approved by IBM vide Letter No. 614(2)/MP-A-324/11-DDN dated 20.03.2012. As per the new guidelines of forest diversion, ACL is in the process of surrendering 16.52 ha forest land which falls near ML periphery and for which, diversion was not sought. Final Mine Closure Plan (FMCP) for 16.52 ha forest area under surrender has been approved by IBM vide letter no. 614(2)/FMCP-A-232/13-DDN on 19.11.2013. Modified Mining plan alongwith progressive mine closure plan for 469 ha area was approved by IBM vide letter no. 614(2)/MP-A/324/11-DDN on 20/21st February, 2014. Therefore, the effective mining lease area after surrender of 16.52 ha forest area is 469 ha for which desired clearances are available.

The Point wise explanation to the queries submitted was as follows:

- (i) Detailed Biological study of lower plant species, such as bryophytes, pteridophytes etc. for the study area has been conducted and submitted.
- (ii) The validated list of endangered species was submitted wherein few schedule-I species were also reported in the Study area. A wildlife conservation plan was prepared and got approved by the PCCF, H.P., Shimla.
- (iii) The wildlife conservation plan duly approved by PCCF, H.P. vide letter no. WL (Misc.)-73/Mining/VI/7473 dated 24.12.2013 was submitted.
- (iv) PP submitted that measures for prevention of fly rocks were taken through muffled blasting: Ground vibration studies were conducted and proper blast hole design was evolved with the help of Department of Mining Engineering, KREC Suratkal to minimize the effect of blasting. ACL management has adopted various measures including bottom hole initiation, proper blast design and control, effective supervision etc. to control fly rock so that the village existing at the foot hill side remains safe. The Central Institute of Mining & Fuel Research Institute(CIMFR), Nagpur has conducted detailed blast vibration monitoring and analysis of blasting and the blast practices evolved and fixed earlier were further investigated to ascertain the effectiveness of the existing norms of blasting near the habitats. The flyrock occurrence was found nil while the throw was restricted within the bench width and not exceeding 20m towards the front from the blast sites. In view of the zero flyrock incidents recorded by the mine during long period of excavation since inception, CSIR-CIMFR has suggested to continue the production blasting without use of blast

- mats. Further, the excavation near the mine peripheral area is undertaken using Hydraulic Rock Breakers which do not require blasting at edges or use of blast mats.
- (v) The detailed Action plan for Public Hearing in a tabular form along with budgetary provisions was submitted.
 - (vi) The details of CSR activities ongoing and proposed in the area was submitted.
 - (vii) The PP submitted detailed status of court cases and informed that five court cases are pending in Hon'ble High Court and NGT mainly on the issue of land acquisition, cutting of trees and pollution caused due to mining activities.
 - (viii) With regard to NBWL clearance for Darlaghat (Piplughat) Sanctuary and Majathal Sanctuary, 'No objection certificate/Permission' under the wildlife (Protection) Act from Chief Wildlife Warden, Himachal Pradesh has been obtained vide letter no WL (Misc)-71/Mining/v/6038 dated 24.01.2012. Letter reg. recommendation by standing committee of NBWL is also submitted.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance.

(2.48).J-11015/197/2015-IA-II (M) Development of quarry for road metal and boulders by M/s Kakinada SEZ Private Limited in Survey No. 1 of Mulagapudi Village, Rowthulapudi Mandal, East Godavari District, Andhra Pradesh (50 ha; 2MmTPA). Consideration of TOR

Department of Mines and Geology, Government of Andhra Pradesh vide proceedings no. 2784/Q1/2012 dated June 21, 2013, no. 2784/Q1/2013 dated March 4, 2014 and no. 2784/Q1/2013 dated June 2, 2015 issued orders granting quarry lease to Kakinada SEZ Private Limited for quarrying of road metal and boulders, over an extent of 50 ha, in Survey No. 1 of Mulagapudi Village, Rowthulapudi Mandal, East Godavari District, Andhra Pradesh.

The quarry lease was granted to meet the road metal, boulders and aggregates demand in the construction of various infrastructural and other developmental projects planned in the region viz., Kakinada SEZ, Kakinada SEZ Port, Visakhapatnam-Kakinada Petroleum, Chemical and Petrochemical Investment Region (VK PCPIR), Visakhapatnam Chennai Industrial Corridor (VCIC), which is Phase 1 of the East Coast Economic Corridor (ECEC) linking Kolkata-Chennai-Tuticorin; and expansion of existing projects like the strengthening and widening of existing Kakinada Beach Road and various associated developments viz., 6 lane PCPIR Expressway, the connecting Rail link from Timmapuram Station to Kakinada SEZ Port, approach roads to Kakinada SEZ, widening and strengthening of existing villages roads to quarry lease area from National Highway 16, etc.

The quarry lease area is classified as Government land "Konda Poromboke". There are no habitations and no agricultural lands within the quarry lease area. Rehabilitation and Resettlement (R&R) is not involved. It was reported by the PP that there is no National Park, Wild Life Sanctuary and Eco Sensitive Areas within 10 km from the quarry lease area. The nearest hamlet is Mallampeta, which is at a distance of 1.5 km towards South. The nearest village is Mulagapudi, which is at a distance of 3 km towards East. The nearest densely populated area is Rowthulapudi, the Mandal Head Quarters, which is at a distance of 4.5 km towards

South. The proposed method of mining is open cast semi-mechanized quarrying involving drilling, blasting, excavation and transport.

The water requirement for quarrying, dust suppression, drinking water, toilets, green belt, etc. is estimated as 25 KLD, which will be sourced from groundwater and local villages through tankers. Green belt development is proposed in an area of about 6 ha around the periphery of the quarry lease area, crusher, mine office, etc.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TORs as per Annexure-I.

(2.49) Mining of Sand (Minor Mineral) in "Barauli-3 Sand Unit" with proposed production capacity of 25,40,000 TPA (ROM) by M/s Sangam Infra Estate Pvt. Ltd, located at village(s)- Barauli & Basaudi, Sonipat, Haryana (62.25ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)- Consideration of TOR

The proposal of M/s Sangam Infra Estate Pvt. Ltd is for mining of Sand (Minor Mineral) in "Barauli-3 Sand Unit" with proposed production capacity of 25,40,000 TPA (ROM) in the mine lease area of 62.25 ha. The mine lease area lies on Yamuna River & its Palaeochannel. The Latitudes and Longitudes of the mine lease area lies between Barauli- 3 River bed Block 29°1'13.55"N to 29°0'54.02"N and 77°10'18.52"E to 77°11'8.32"E & Basaudi- Outside River Bed Block 29°0'40.63"N to 29°0'27.42"N and 77°9'20.77"E to 77°9'8.25"E on Survey of India toposheet numbers H43R4 (SITE), 53H11. The Project is located in Seismic zone- III.

The mine lease area is 62.25ha which is on Yamuna River & its Palaeochannel. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand over an area of 62.25ha has been granted from State Mining Engineer, Govt. of Haryana vide letter dated 02.01.2015 for the period of 10 years to M/s Sangam Infra Estate Pvt. Ltd, village: Barauli & Basaudi, Tehsil & District: Sonipat, Haryana.

Mining is by mechanized opencast method. Manual Mining will be carried out in riverbed part and mechanized mining will be carried out on the off riverbed (paleochannel) part of the lease area. Mining will be done in scientific and systematic manner as planned in a rotational way. Excavation will be carried out up to a maximum depth of 3 meters in riverbed and 9 meters in palaeochannel from surface of deposit and or above the ground water level whichever is reached earlier. Mining will be done leaving sufficient safety barrier of 1/5th of width of the Yamuna River for bank stability. Restoration of banks will be done. Mineral will be transported through road.

Proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries, and Tiger Reserves falls within the study area (10 km radius of the mine boundary). However Interstate boundary between Haryana and Uttar Pradesh lies within 5 km radius of the lease area that makes the project of

Category "A" along with its area. The total water requirement is 25.0 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply, NOC from Gram Panchayat will be obtained in this regard. The cost of the Project is Rs. 75 Lakhs.

The Project Proponent mentioned that they had collected base line data since March 2015 and requested to use the baseline data of pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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) Replenishment and drainage study from the reputed Institution; (ii) 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; (iii) 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; (iv) Impact of all existing mining on the present land use in the study area; and (v) Details of excavation schedule & sequential mining plan.

(2.50).J-11015/199/2015-IA-II (M) M/s Gem Granites Pvt Ltd quarry lease for colour granite over an extent of 12.00 hectares located At S. No: Gap Area Of Thirumalarajupuram Village, Palasamudram Mandal, Chittoor District, Andhra Pradesh.

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

(2.51).J-11015/200/2015-IA-II (M) Mining of sand, stone & bajri from chakki khad (riverbed) M/s Gold Mine Stone Crusher proposed by Shri Sudhir Singh located on Khasra No.346/1, Chakki River Near Village Mauza & Mohal Lodhwan/Tipri, Tehsil Nurpur, District Kangra, State Himachal Pradesh (4-88-12 hectare; 32,065 TPA) (Consultant: Shivalik Solid Waste Management Ltd.)

The proposal is river bed Sand, Stone and Bajri mining with proposed production of 32,065 TPA by M/s Gold Mine Stone Crusher at Khasra No.346/1, located at Mauza & Mohal Lodhwan/Tipri, Tehsil- Nurpur, District- Kangra, (H.P). The Latitude and Longitude of the proposed site is 32°16' 11.5" N and 75°43'30"E. The proposal was considered as category 'A' as interstate boundary lies within the radius of 5 km and cumulative area of mines within 500 meters is more than 5 ha.

The mining lease area is 4-88-12 ha which a riverbed. The Mining Plan is approved by Geology Wing of Industry Department, Himachal Pradesh. The Mining Plan is approved by State Geologist vide letter No Udyog – Bhu (Khani- 4) Laghu – 506/09-11224 dated 19.03.2013. The mining method shall be manual using hand tools for collection of Sand Stone and Bajri from the riverbed.

About 1,685 metric tons of Silt and Clay will be produced per year which will be used for back filling and plantation purposes. About 1.35 KLD water is required for drinking and sprinkling purpose for dust suppression. There is no intersection of ground water as mining would be carried out for one meter depth bgl only. It was reported by the PP that there is no protected area viz wildlife Sanctuaries/ Tiger Reserve/ National Park/ Schedule I species etc. within 10km of the mine. The estimated cost of the proposed project is Rs. 30 Lacs. 5% of the project cost will be for CSR activity. It is reported by Project Proponent that there is no court case / litigation against the project and no violation

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs as per Annexure-I.

(2.52). J-11015/201/2015-IA-II (M) Mining of vermiculite of M/S Vermiculite Products Private Limited located at Sy.No.1/1, Palicherla Rajupalem Village, Gudur Tehsil, Spsr Nellore District, Andhra Pradesh State (61.45 Ha) (SV Enviro Labs & Consultants)

The mine lease is located at Survey No. 1/1, Palicherla Village, Gudur Mandal, SPSR Nellore District, Andhra Pradesh. The mining lease area falls in the Survey of India topo sheet no. 57 N/16 the coordinates of the mine are Latitude 14°06'53.88"N and Longitude 79°48'28.80" E. The nearest village Palicherla is located at a distance of 1.0km. The nearest railway station is Gudu at a distance of 5.7kms from mining site. The nearest Airport is Tirupati at a distance of 60.5kms from mining site. The area is connected by fair weather road Jayampu-Dudur Road. The following reserve forests are located within a distance of 15km. i.e. Vedicherla Reserved forest, Kondagunta Reserved forest, Gudur Reserved forest, and Vendodu Reserved forest. It was reported by the PP that there are no national park, wildlife/bird sanctuary or critically polluted areas within 10km radius from the quarry lease area. The mining operations will be carried out by semi-mechanized opencast mining method. The proposed capacity is 5,000TPA. Water requirement for drinking, maintaining the Green Belt, wet drilling and also for sprinkling is 5.3 KLD, which shall be met from nearby sources through tankers. The estimated cost for the proposed Project is Rs. 60 Lakhs. It was noted that this is **a violation case** as the mine has continued to operate without obtaining prior environmental clearance.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs as per Annexure-I.

(2.53). J-11 015/443/2014- IA. II(M) Budhwada Limestone Mine (ML area 160.0 ha and enhancement of production capacity from 1.1 to 2.5 MTPA) at village Budawada, Jaggayyapeta Taluk, Krishna District., Andhra Pradesh of M/s The Ramco Cements Limited.

The Budawada Limestone Mine of M/s The Ramco Cements Limited is located at village- Budawada, Mandal-Jaggayyapet, District-Krishna, Andhra Pradesh The earlier EC was obtained vide Letter: F. No. J-11015/150/2008- IA II (M) dated 10th December, 2009 for 1.1 MTPA of Limestone production in an area of 160 Ha

(Budawada Reserved Forest Area), Jaggayyapet Mandal, Krishna District, Andhra Pradesh.

It is proposed to enhance Clinker production of the Cement Plant by 0.3 MTPA for which, limestone requirement is 0.5 MTPA. Due to presence of high silica zones, clay pockets and phyllites, mineral reserves have come down drastically in the operating captive limestone mines of Jayanthipuram Cement Plant. Ramco Budawada Limestone mine is spread over an area of 160 Ha. With proved mineral reserve of about 101.46 Million Tonnes, the Mine will last for 41 years with proposed production capacity of 2.5 MTPA.

Fully Mechanized method of mining will be adopted. The limestone produced will be crushed in the mine for transport to cement Plant through haul roads. 160 Ha is part of Budawada Reserve Forest. Forest Clearance was obtained vide letter No. 8-56/2005-FC, dated December 22, 2011. No topsoil is present. The waste available is interstitial clay. The waste generated will be stacked in temporary dump yard and will be used for afforestation and laying roads.

At the end of mining operations, about 150ha of mined-out area will be developed into water reservoir and 2.72ha along the mine lease boundary and barrier zone for railway line will be afforested under Greenbelt development. 5.26ha will be developed under road/Belt conveyor etc., 2.02ha will be developed for Crusher, Sub-station, Mines office, auto garage etc.

Water requirement for the mine at 2.5 MTPA limestone production is about 200 m³/day for dust suppression, plantation and domestic purposes. This requirement is supplied by cement Plant and after formation of the mine pit, rain water collected in the mine pit will be used. The capital Investment Cost is estimated as Rs. 4 Crores.

Committee noted that the Form-I along with Pre-Feasibility Report as per EIA Notification, 2006 has not been submitted and the compliance of earlier EC condition particularly the report on the Cumulative study of the area has not been implemented. Also the Protection measures for first order stream passing through the lease area as mentioned in earlier EC, have not been implemented.

The proposal was considered in the EAC meeting held during December 10-11, 2014. Based on the discussion held in the meeting, EAC **suggested** a site visit of the area by a sub-committee of EAC and that the Project Proponent has to submit the following documents for further consideration of the proposal:-

- (i) Revised Form-I along with Pre-Feasibility Report as per EIA Notification, 2006;
- (ii) The compliance of earlier EC conditions, particularly the report on the Cumulative study of the area;
- (iii) Topo sheet of the area; and
- (iv) Protection measures for first order stream passing through the lease area as mentioned in earlier EC.

On submission of information the proposal was placed in the present meeting and it was decided that site visit may be done prior to the consideration of project at EC stage by EAC. The PP submitted the revised Form-I and pre-feasibility report and

topsheet of the area. The PP submitted that there is no water stream/nallahs etc within mine lease area.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TORs as per Annexure-I.

RECONSIDERATION OF EC PROPOSALS

(2.54).J-11015/99/2011-IA-II(M) Mining of Silica boulder for processing and manufacturing of silica sand of M/s Mohunta Mining Manufacturing Co. Pvt. Ltd. located at village Mauza Bathri, Tehsil – Haroli, district Una, Himachal Pradesh (8.9835 ha; 54,000 MTPA).

The proposal of M/s Mohunta Mining & Manufacturing Co. Pvt. Ltd. is for proposed production of 54,000 TPA of Silica Boulders (ROM) in the lease area of 8.9835 ha. The area is located at - Mauza – Bathri, Tehsil – Haroli, District – Una (Himachal Pradesh). The applied lease area lies between Latitudes & Longitudes 31° 19' 05" :: 31° 19' 00" N and 76° 16' 48" :: 76° 16' 56" E respectively. It was informed by the PP that the Project is category 'A' as interstate boundary of Punjab and H.P. falls within 2 km from the lease area.

The proposal of TORs was considered by the Expert Appraisal Committee (mining) in its meeting held during June 2011, and reconsidered in August, 2012 for undertaking detailed EIA study. The TORs were prescribed by the Ministry vide letter no. J-11015/99/2011-IA.II (M), dated 08.11.2012. The Proponent submitted the present EIA/EMP Report for proposed production to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

M/s. Mohunta Mining & Manufacturing Company Private Limited was granted mining lease over an area of 8.9835 hectares, at – Mauza Bathri, Tehsil Haroli, District Una, Himachal Pradesh for mineral Silica Boulders/Bajri Stone and sand processing and Manufacturing of silica sand in Khasra No. 303, 304, & 305 (Private Land) on 01.04.2008 by Govt. of H.P. vide letter no Udhoyg-Bhu(Khani-4)Major – 160/06-25 for a period of 20 years. The Mining Lease was executed on 25.10.2008 for 20 years.

The collection of silica boulder shall involve shoveling by simple hand-tools manual sorting/ picking and stacking at site and loading into tractor – trolleys for transporting them to crusher site. No blasting is involved. The mining cum environment management plan/ mine closure plan of major mineral lease for collection/extraction of silica boulder approved vide letter no. Udhoyg - Bhu (Khani-4) Major-160/2006-6383 on 07.10.2008.

Total water requirement is 6.5 KLD which will be sourced from dug well/ tube well situated in nearby village through water tankers. Approximately 18,697 cum of waste shall be generated every five years as silt and clay. Waste will be stacked in north side of the lease area. It will be used in the nearby area for leveling and spreading over agriculture land. Area covered by the waste dump will be 0.42

hectares at the end of operational phase. Excavated area will be 4.30 ha. at the end of operational phase. Waste dump area will be only 0.42 ha. Plantation will be carried out within the lease area over an area of 1.28 Ha. with suitable species.

There is no National Park, Wild Life Sanctuary, Habitat for Migratory Birds, Tiger Reserve, Elephant Reserve, Bio-sphere Reserve located within 10 km radius of the mine lease. The project is located in seismic zone – IV. There is no Schedule-I species found in the study area.

The Base line data was generated for the period during summer season i.e. March– May 2013. All the parameters for water and Air quality were within the permissible limits. Public Hearing was held on 30.07.2014 which was chaired by Additional District Collector, Una (H.P.). The Committee discussed the issues raised during Public Hearing.

The total cost of the project is 25.0 Lacs. The Project Proponent has earmarked Rs 7.0 lacs per annum as recurring cost towards Environmental protection measures. Rs. 1.0 lac/year has been earmarked towards Socio-economic Welfare measures for the nearby village. There is no court case /litigation pending against the project.

The proposal of EC was earlier appraised by the EAC in its meeting held during 24-25 Nov. 2014. The EAC raised the following points during the meeting:-

- (i) Action plan for Public Hearing along with the budgetary provisions shall be submitted.
- (ii) The mine lease, EIA report and mine plan are not compatible with each other, therefore; clarification shall be submitted in respect of production of proposed six minerals. All related documents shall be made compatible and re-submitted.
- (iii) The project is located in seismic zone – IV, the safeguard measures may be suggested.

In This context, the Project proponent vide letter dated 15/1/2016 has submitted the information /clarification and accordingly the proposal is considered in the present meeting. The point wise explanation of the queries is given by the project proponent as below:

1. Action plan for public hearing along with the budgetary allocation addressing all the points was submitted.
2. Revised EIA report and mine compatible with each other was submitted and clarification letter from mining department was also submitted.
3. Safeguards measures as the project falls under seismic zone-IV were submitted.

After detailed deliberation and discussions the Committee **recommended** the proposal for grant of environmental clearance.

(2.55).J-11015/274/2010-IA-II(M) Environment Clearance for kukurdih Limestone Mine (ML Area 251.527 ha) at village Kukurdih, Tehsil: Balodabazar, District Balodabazar – Bhatapara (Chhattisgarh) by M/s UltraTech Cement Limited.

The proposal is for Kukurdih Limestone Mine (ML Area: 251.527 ha., Limestone Production Capacity: 5.0 MTPA) by M/s UltraTech Cement Ltd., located at Village Kukurdih, Taluka– Balodabazar, District- Balodabazar–Bhatapara (Chhattisgarh). The Latitudes and Longitudes of the site are 21°39´ N to 21°40´ N and 82° 05´ E to 82° 07´ E. The proposal was considered by the Expert Appraisal Committee in its meeting held during 24-26th November, 2010 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/274/ 2010-IA.II(M) dated 28th March, 2011 and 30th August, 2011. The proponent submitted their EIA/EMP to the Ministry for seeking environmental clearance on 25th March, 2013.

The proposal was considered in the EAC meeting held during May 15-17th 2013 wherein the Committee sought the following information:

- (i) The Annexures mentioned in the list in EIA report were not enclosed.
- (ii) Mine plan is in the name of M/s Grasim Industries Ltd instead of M/s Ultra Tech Cement Ltd.
- (iii) Coordinates of mine plan and EIA report are not consistent.
- (iv) Chapter 11 states that no R&R plan is applicable whereas the lease area involves, around 224 land owners to be affected. Details to be submitted as per point 9 of TOR along with sample survey.
- (v) The EIA Report submitted to the Ministry and that circulated to the EAC members were different.
- (vi) Cumulative impact of water availability in the area shall be obtained from Central Ground Water Authority.

On submission of information, the proposal was placed in the meeting held during January 27-28, 2014. The PP submitted the Annexure mentioned in EIA report. It was informed by the PP that lease deed for Kukurdih Limestone Mine has been executed in the name of UltraTech Cement Limited on 4th November 2010, the mine plan was prepared in year 2008 before execution of lease deed. Procedure for change of name (for Mining Plan approval) from Grasim Industries Ltd. to UltraTech Cement Limited is under process with IBM, Nagpur. PP informed that correct Coordinates of the mining lease area given in the Approved Mining Plan are Latitudes: 21°39´ N to 21°40´ N and Longitudes: 82° 05´ E to 82° 07´ E. The detailed action plan for R&R was prepared for the project and submitted. PP informed that a request letter to CGWA, New Delhi has been submitted for cumulative impact of water availability in the area as per discussion held during final technical presentation; however no response has been received till now from CGWA regarding the same.

The Committee in the meeting held during January 27-28, 2014 sought the status of NOC for grazing land by the concerned Panchayat and an alternate road for the people of the area, in lieu of existing road inside the lease area, is needed. The PP submitted the NOC for grazing land from the Panchayat and an affidavit that

alternative road to the villagers will be provided. The proposal was considered in the EAC meeting held during May 28-30, 2014 wherein the Committee recommended the proposal for environmental clearance with additional specific condition that alternate road for the villagers shall be constructed and commissioned at the earliest but not later than 3 years from date of issue of EC as a measure to mitigate significant social impact.

The matter was examined in the Ministry and following queries were raised:

- (i) The livelihood assurance by PP to 99 persons losing 100% of their land.
- (ii) What is the alternative scheme to provide facilities in lieu of acquiring 3.679 ha of Government land having roads, land under water and grassland. A plan clearly defining alternatives proposed for the communities in lieu of using this land for mining may be submitted
- (iii) Likely impact of the mining activity on the Kukurdih Pond and Mahanadi Canal located respectively within 400 m and 500 m from the lease boundary.

In reply the PP submitted the following:

- (i) Total Mining Lease area of Kukurdih Limestone Mine at Kukurdih, Bhatapara, Chhattisgarh is 251.527 ha, of which 3.679 ha is owned by government and 247.848 ha land is private land. Out of 247.848 ha of privately owned land, 99 persons are losing their 100% land which is barren, non-irrigated, rocky land with low productivity and is being acquired by UltraTech Cement Ltd. by the process of "willing buyer-willing seller" and through mutual discussion & direct negotiation. The livelihood assurance by UTCL to the persons losing their land will be ensured.
- (ii) As per mining plan approved by IBM vide letter No. 314(3)/2008- MCC(of acquiring 3.679 ha of government land having roads, land underwater and grassland has been covered in the mining plan. The PP has also submitted alternative scheme to provide facilities for roads, land underwater and grassland.
- (iii) Mining plan was prepared and approved by IBM vide letter No. 314(3)/2008-MCCM (CZ) MP/MS/PMCP-24, Dated-18/12/08, & mining will be carried out as per approved mining plan and all mitigation and safeguard measures for the protection of Kukurdih pond and Mahanadi Canal have been covered in the approved mining plan & the same will be implemented.

The matter was referred back to the EAC for re-examination. The EAC emphasised that the protective measures for Kukurdih pond and Mahanadi canal and nalas are to be taken, After deliberations, EAC suggested additional specific condition that:

- (i) To safeguard proper functioning of Kukurdih pond and Mahanadi canal, regular monitoring of bunds may be ensured;

The project was reconsidered in EAC meeting held during 15-16, January, 2015 & following information was sought.

- i. The compensation paid to land losers by the PP and compliance of R&R policy of Chhattisgarh State. A copy of R&R policy of the Chhattisgarh State may be submitted.
- ii. Livelihood assurance by PP to 99 persons losing 100% their land as per the

R&R policy of the Chhattisgarh State.

The PP submitted information vide letter dated 18th February, 2015 & based on the information submitted, project was again reconsidered in present EAC meeting. Point wise details of the reply are as given below:

- i. The compensation paid to land losers by the PP and compliance to R&R policy of Chhattisgarh State A copy of R&R policy of the Chhattisgarh State may be submitted, Details of compensation paid along with a copy of the Chhattisgarh Ideal Rehabilitation Policy (2007) & its Amendment Policy (2010) was submitted.
- ii. Livelihood assurance by PP to 99 persons loosing 100% their land as per the R&R policy of the Chhattisgarh State, Details of livelihood assurance to 99 persons loosing 100% of their land was submitted.

After detailed deliberation and discussions the Committee **recommended** the proposal for grant of environmental clearance.

(2.56). J-11015/85/2011-IA-II(M) Environment Clearance for reopening of Ispat Delomite Quarry, Chhittapandaria, Baraduar of M/s SAIL, Bhilai Steel Plant (523.35 Ha) capacity 2.0 MTPA at Tehsil – Jaijaipur, in Janjgir-Champa District, Chhattisgarh

The proposed project site is demarcated on Topo Sheet No. 64 J/16 & 64 K/13 and lies between Longitudes East 82° 50'13.61"- 82° 52'27.05" Latitudes North 21° 57' 32.53" - 21°58'33.64" near village Chhittapandaria-Baraduar in Jaijaipur Tehsil, Janjgir-Champa district, Chhattisgarh-State. Total lease area is 523.35 ha comprising of Reserve Forest 432.69 ha, and private land 12.14 ha.

The proposal was considered for TOR by the EAC (M) in its meeting held during 25-27 May, 2011. The Terms of Reference was issued by MoEF for carrying out the Environmental Impact Assessment study vide letter No. J-11015/85/2010-IA.II (M) dated 27.06.2011.

The proposal was considered in the EAC meeting held during April 29-30, 2014 wherein it was observed that the Proponent received TOR from the MoEF vide letter no. J-11015/85/2011-IA.II (M) dated 27.06.2011, which was valid up to 26.06.2013. However, the EIA/EMP report was received in the Ministry on 29.01.2014. The Project Proponent vide letter no. MHQ/ED(Mines)/2014/126 dated 29.04.2014 requested to extend the validity of the TORs. The request for extension of the validity of TOR was considered as per MoEF O.M. no. J-11013/41/2006.IA.II(I) dated 22.03.2010 for additional one year i.e. from 27.06.2013 to 26.06.2014. The extension letter was issued on 10.09.2014.

The lease was granted to SAIL from 26.12.1970 to 25.12.1990, but mining operation stopped since June, 1983. Government of Chhattisgarh Considered for 1st renewal of Ispat Dolomite Quarry on 24th Sept, 2010 over an area of 523.35 ha and suggested for the statutory clearances like EC and FC before re-opening of the mine activity.

The present Proposal is for Re-opening of Ispat Dolomite Quarry, Baraduar mining lease over an area of 523.35 ha. The scale of proposed operation of the mine i.e. excavation 2 MTPA of dolomite (ROM), Beneficiation and Processing 2 MTPA, Finished Products of 1.8 MTPA, Loading and Despatch of 1.8 MTPA into Railway Wagons. The mine is opencast and mining operation will be carried by mechanised method, involving drilling and blasting of 6 m benches with the combination of 2.5–3.0 cubic meter excavators and 25–30T dumpers. The ROM 0.-800mm will be sent to pre crusher stock pile. The 0-800mm material will be fed to the primary crusher through an apron feeder. After being crushed to -200mm it is fed to a secondary crusher via a belt feeder for getting final output of – 60 mm. The crushed material (-60mm) will be sent to a single deck screen to separate 0-60mm fraction. The oversize will be re-sent to the secondary crusher. This sized material will be transported to the stockpile. The finished product will be dispatched to BSP/SAIL Unit through Railway Wagons initially from Baraduar Rail Siding and after constriction of Railway line from Baraduar Railway station to Mines site the materials will be dispatched directly from mines site only. Mining Plan along with progressive Mine Closure Plan is approved by IBM vide letter no. 314(3)/2011-MCCM(CZ/MP-12) dated 21.09.2011.

The base line data was collected during summer season (March to May, 2011) covering 10 km radius around the mines site in accordance with the procedure prescribed under the EIA Notification, 2006. All the baseline data is within the norms prescribed by CPCB. The mines will employ dry process for the processing and beneficiation of Dolomite; therefore there will be no generation of industrial effluent. The water consumed in the processing plant activities is lost due to evaporation, whereas wastewater generated by washing and sanitation purpose will be treated and reused for greenbelt development and water sprinkling within the premises. The annual water requirement for the proposed mines complex is 850 KLD. Industrial water requirement shall be met from water stored in old mined out pit and drinking water requirement shall be met from existing bore wells. Public Hearing was conducted on 31.07.2013. The major issues raised during public hearing were employment to local people, alternate grazing land for cattle and road for villagers. The issues were discussed in the meeting. It was informed by the PP that private land of 12.14 ha is located on southern boundary of mine lease. This private land will not be used for mining and 500 m of buffer zone will be left as Safety Zone. Budget of Rs. 260 lakhs have been allocated for five years.

It was reported by the PP that there are no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves existing/proposed within 10 km of the mine lease. Schedule – I species viz. Monitor Lizard and Python are reported in the study area. The estimated capital cost for proposed Project is 368.97 crores. The budget for implementing the Environmental Management Plan is 475 lakhs. It was informed by the PP that no litigation is pending against the project.

The proposal was considered in the EAC meeting held during 27-28 October 2014 wherein following information was sought:

- (i) The Species specific Conservation Plan for Schedule – I species viz. Monitor Lizard and Python duly approved by the CWLW;
- (ii) Plan for raising of nursery of indigenous plants and taking up large scale Plantation through the involvement of the Community in the study area.
- (iii) Status of the Stage-I Forest Clearance; and

- (iv) Alternate grazing land to the villagers to the extent grazing land will be utilized by the Project.

The PP submitted the information vide letter dated 13.04.2015. The PP submitted the Species specific Conservation Plan for Schedule – I species duly approved by the CWLW, Raipur, GoCG vide क्रमांक/ब.प्रा/प्रबंध- 326/15/1023 रायपुर, dated 13/04/2015. The Plan for rising of nursery of indigenous plants and taking up large scale Plantation through the involvement of the Community in the study area was submitted. The PP informed that the Stage-I FC proposal is under consideration at DFO Champa, GoCG. PP also submitted the report on alternate grazing land to the villagers earmarking Rs. 225 lakhs for development of Grazing land.

After detailed deliberation and discussions the Committee **recommended** the proposal for grant of environmental clearance.

(2.57).J-11015/704/2007-IA-II(M) Expansion of M/s Bhartesh Construction Company Moolvelas harvit Kudgaon Bauxite Mine from 20,472 TPA to 0.10 MTPA at village Moolvelas-Havit-Kudgaon, in Shriwardhan Taluk, in Raigad District. in Maharashtra. (50.21 ha)

The proposal is for expansion of bauxite mining from 0.0204 million TPA to 0.10 million TPA over an area of 50.21 ha Mine lease located at village Harvit and Kudgaon, in Shriwardhan Taluk in Raigad District in Maharashtra.

The Latitudes and Longitudes of the site are:

Point No.	Latitude	Longitude
BP-1	18° 13' 19.443" N	72° 58' 32.341" E
BP-12B	18° 13' 23.121" N	72°59' 51.317" E

The mine lease area is Private Non-forest revenue land. The Mining Plan was approved by IBM vide letter no.- RHG/BX/MPLN-777/NGP dated 25.07.2002 and modified Mining Plan was approved vide letter No. RHG/BX/MPLN-777/NGP dated 30.10.2006. Scheme of Mining is approved by IBM vide letter no RHG/BX/MPLN-777/NGP dated 05.05.2009.

Mining will be done by semi-mechanized opencast method using heavy earth moving machinery. The initial proposal was for manual mining; however PP requested for semi-mechanized mining which the Committee agreed to. The mining operation is proposed to be conducted in a scientific and systematic manner. The bench height will be of 6 m. Drilling in hard strata will be done by jackhammer of hole dia 32mm or deep bore hole 110 mm dia by wagon drill. Blasting will be carried out for heaving effect and fragmentation. Blasted ore will be loaded into the dumpers by loaders and will be transported to the stacking yard. Thereafter, sorting of minerals will be done and the pre-determined grade bauxite will be dispatched to the intended destinations like Aluminium / Cement Plant. Life of the mine is 8 years. The water requirement is estimated as 23 KLD, which will be sourced from Ground water.

Conceptual mine development will be carried out in 39.93 Ha area out of which 31.5 ha will be under excavated area. An area of 7 ha will be under OB dumps, 0.20 ha will be used for mineral storage, 0.03 ha will be used for infrastructure, 1.20 ha

will be used for roads. Area under green belt will be 7.60 ha. 0.40 ha will be under environmental protection measures and 2.28 ha will be left for future usage after detailed exploration. It was reported by the PP, that the average waste generation during the scheme period will be about 1,01,120 TPA which will be used for backfilling.

The topography of the area is slightly undulating and in the form of mound and top of the deposit is in the form of plateau and it is opened up easily by removing overburden. The elevation of area ranges from 12 m to 114 m above MSL. The water table in the locality is at a depth of 25 - 30 m below the general ground level. The mine workings are expected to be 10 m bgl. Hence, mining activities will not intersect ground water table. It was reported by the PP that there is no wildlife sanctuary/tiger reserve/national park, etc within the 10 km radius area around the mine lease.

The TOR was issued vide MoEF letter No :J-11015/704/2007-IA.II(M) dated 12th December, 2007. Baseline studies were carried out during summer season 2009. All the baseline parameters w.r.t Air, Noise, Water and Soil were reported to be within permissible limits. The initial EIA was prepared and handled by Non NABET Consultant, the EAC meeting was attended and presented by Project proponent himself during 24th Meeting held during July 8-9, 2008. The Committee sought additional clarifications and sought revised EIA report. The TOR points and clarifications were complied and the point-wise compliance status was included in the Revised EIA report. The proposal was further considered in the EAC meeting held during June 2-3, 2009 wherein the Committee recommended the proposal.

The proposal was considered in the EAC meeting held during August 3-4, 2009 and Proponent was requested to conduct the Public Hearing and submit the revised EIA report. The Public Hearing for the project was conducted on 21.11.2010 at Gokhale college, Shrivardhan Maharashtra. The PH was presided over by Shri Subhash Sonavane, Collector Raigad District. The issues raised during public hearing, inter-alia, included that there should not be any pollution from the mine lease area, air pollution control measures to be adopted, raising of plantation, sprinkling of water etc. As per the villager's requirements, it was informed by the PP that they would give preference to the locals for employment; health issues, providing education, and assistance in vocational training etc. These have been incorporated in the Project Plan with budgetary provisions. The estimated cost of the project is Rs 1.50 Crores. It was reported by the PP that there is no court case/litigation pending against the project.

On submission of revised EIA report the proposal was considered in EAC meeting held during March, 2012 wherein the committee sought further clarification along with additional monitoring data for one month by NABET Accredited Consultant.

The project was then handled by M/s Bhagavathi Ana Labs Pvt Ltd a NABET accredited consultant. Additional Ambient Air Quality monitoring was carried out during summer 2012 and also in January 2015. Based on the information submitted in the form of Revised EIA report incorporation all the additional information sought by the committee, the project was further considered.

The following are the details of information sought and reply by the PP:

S. No	Additional Information Sought	Information
i)	CRZ map on the prescribed scale, clearly demarcating the HTL, LTL, CRZ boundary and location of the mine w.r.t. CRZ duly authenticated by one of the authorized agencies may be submitted. The CRZ map should take into account the coast line as well as other tidal influenced water bodies including creeks, rivers etc., if any. The coastal features such as mudflats, mangroves etc. should also be shown.	The mine lease does not fall under CRZ. The mine lease is located at a distance of 1.5 km from the Arabian Sea and 2.0 km away from Rajpuri Khadi (Creek).
ii)	Details of transportation of mineral may be furnished. It may be clearly shown whether the road infrastructure is capable of taking the proposed incremental load. In case, any strengthening is required, details in this regard including action plan with time frame should be given.	Mined out bauxite will be transported through trucks upto Dighi Port. The transportation route does not pass through any village. PWD road (SH - 100) is black topped up to Dighi Port which is 7.8 Km. Ore is transported by trucks covered with tarpaulin sheet to prevent any spillage. Haul road and transport road are in good condition and have sufficient carrying capacity of the purpose.
iii)	An undertaking regarding owing the data contained in the EIA report should be submitted.	Undertaking regarding owing the data contained in the EIA report is furnished.
iv)	Compliance of TORs Should be given in a tabular form	Compliance of TORs is given in tabular form.
v)	Action plan to address the issues raised during the Public Hearing should be given. The reasons for large scale resentment against the project should be highlighted and justification as to why the project should be considered by the committee in spite of resentment expressed by the public during Public Hearing.	Public Hearing issues, proposed action plan along with budget and time frame were submitted. The Committee deliberated the same and observed that PH issues (cause of resentment) were deliberated in details and action plan was proposed.
vi)	Details of CSR activities with financial allocation should be given.	Details of CSR activities along with financial allocation are given in Chapter 7 of EIA/EMP report.
vii)	Based on monitored data on groundwater table, it may clearly be shown whether mining will intersect groundwater table. The data regarding water table, depth of mining etc. should be given in	The Mining will not intersect ground water table. The ground water table within the mine lease area is around 20-25 m bgl. The maximum mine working depth carried is upto 10 m bgl.

S. No	Additional Information Sought	Information
	AMSL. In case the mining is likely to intersect groundwater table, possible ingress of salinity should be discussed in detail and report furnished.	Hydrogeological study of the area was conducted by University of Petroleum & Energy Studies, Dehradun.
viii)	The earlier name of the project was Moolvelas-Harvit-Kudgaon Bauxite Mine while the name has now been changed to Harvit-Kudgaon bauxite mine. the reasons/implications in this regard should be given with supporting documents.	Due to space constraint shorter version of the name was mentioned, however we confirm no change in the name of mines & the same is "Moolvelas-Harvit-Kudgaon".
ix)	Contour map as well as the land use map of the area should be given covering core zone and buffer zone.	Topographical map and surface plan and Land Use Map are provided in Chapter-I page 2 (c) and Chapter 2 of EIA/EMP.
x)	Primary survey of Flora and Fauna study of area should be given along with schedule of the fauna reported. In case of scheduled fauna, conservation plan should be given.	Primary survey of the biological study carried out by Dr. J.S. Ambhore, Head Department of Botany is enclosed as Annexure 6 Page A23 to A29 of EIA/EMP report.
xi)	It was observed that the issues relating to water table have not been discussed in the mine plan. It being a coastal area, the issues relating to water table, its intersection during mining, pumping of groundwater if any, and its impact on the water regime should be discussed and report furnished.	The Mining will not intersect ground water table. The ground water table within the mine lease area is around 20-25 m bgl. The maximum mine working depth carried is upto 10 m bgl.
xii)	Compliance report of the earlier EC conditions with supporting documents and photographs should be furnished.	Certified Compliance Report of earlier EC was also submitted.
xiii)	The baseline AAQ data should be revalidated by collecting one month (non monsoon seasons) data afresh and the trends compared with the earlier data.	Baseline AAQ data for one season has been collected during summer 2012 and incorporated in the report. Additional one month monitoring data has been collected during January 2015.
xiv)	Details of Occupational health impacts and proposed mitigation plan in this regard should be furnished.	Noise, dust & other parameters responsible for occupational health impacts are well within the permissible limits. However, efforts are made to bring it down to lower level by prevention, reduction & isolation as deemed fit.

S. No	Additional Information Sought	Information
		Details of occupational Health Impacts and proposed mitigation measures were submitted.
xv)	Questionnaire for appraisal of mining project shall be refilled correctly and furnished.	Environmental appraisal Questionnaire is refilled correctly and furnished.
xvi)	Details of R&R with compensation provided to the persons whose land was acquired/project affected persons shall be furnished.	PP submitted that no R&R is involved. All issues are settled with villagers and we are open to provide further assistance in R&R during mining and post closure of mining. Surface rights issues have been settled amicably.
xvii)	Topo sheet/ Imagery with demarcation of study area, core zone and other features shall be furnished.	Satellite imagery along with Land Use and Land Cover map was furnished.

The Committee observed certain non-compliance in the certified compliance report of the Regional Office, MOEFCC, the PP informed that the compliance have already been done and submitted following status:

Sl. No	Condition	Compliance status
A. 1.	Top soil shall be stacked separately with proper slope with adequate safeguards and shall be backfilled for reclamations and rehabilitation of mined out area.	The entire area is having laterite capping and there is no top soil generation.
A. 2	Overburden shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 30 m; each stage shall preferably be of 10m and over all slope of the dump shall not exceed 28°. The OB dump shall be backfilled. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run-off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests on six monthly	The overburden stack is used for backfilling the mined out area. The overburden generated is being used for backfilling & levelling of mined out area concurrently. No stack of overburden will be maintained in future. The backfilled areas will be reclaimed with afforestation of native species.

	basis.	
A. 11	Prior Permission from the Competent Authority shall be obtained for drawl of ground water, if any.	The total water requirement for the project is 17.5 KLD which is sourced through tankers from local villages. Out of this drinking water requirement is 1 KLD which will be sourced from ground water. As per CGWB report of Raigad the entire area falls under safe category with stage of ground water development is 23.20%. CGWB guidelines for abstraction of ground water says that prior permission from Competent Authority for drawl of water for Industrial usage below 100 m ³ /day is not required.
B. 3	Conservation Measures for protection of flora and fauna in the core & buffer zone shall be drawn up with consultation with local forest and Wildlife Department	A wild life conservation plan for flora & fauna, prepared and included in EIA & EMP report will be strictly adhered. Funds for implementing the conservation of flora & fauna are separately allocated and shall not be diverted for any other activity.
B. 12	The project authorities shall inform to the Regional office located at Bhopal regarding date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work	This is an ongoing project, hence financial closure is not applicable.

It was also noted that this is a **violation** case as mine enhanced the production in 2003-2005 and 2007-2014.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for expansion of production capacity from 0.0204 million TPA to 0.10 Million TPA of Bauxite.

The Committee **recommended** additional specific conditions viz. (i) A study from an Institution of Repute may be conducted on the impact of Bauxite dust on Crop Productivity in agricultural land located around mines and mitigation measures to be implemented by PP to reduce the impact; (ii) Recommendation by the Institute, for Crops most suited in this environment and training to the farmers to switch over to new cropping system which will sustain nutrient loading; (iii) Proponent shall carry out Occupational Health surveillance for workers engaged in the Project and records maintained and necessary remedial/preventive measures to be taken accordingly. Implementation of the Recommendations of National Institute for ensuring good occupational environment for mine workers; (iv) Use of mechanical devices for excavating the ore and reducing use of explosives; (v) Concurrent

reclamation of mined out areas; (vi) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transfer points and undertaking comprehensive study in a years' time for slope stabilization of mine benches and OB dumps; (vii) Implementation of Action Plan on the Issues raised during Public Hearing;

(2.58).J-11015/711/2007-IA-II(M) Expansion of M/s Bhartesh Construction Company Dandguri- Khujare Bauxite Mine from 18,000 TPA to 0.12 MTPA at village Dandguri- Khujare, in Shriwardhan Taluk in Raigad District, in Maharashtra (71.42 Ha.)

The proposal is for expansion of bauxite mining from 0.018 million TPA to 0.120 million TPA over an area of 71.420 ha Mine lease located at village Dandguri and Khujare, in Shriwardhan Taluk in Raigad District in Maharashtra.

The latitude and longitude of the site are:

Point No.	Latitude	Longitude
BP-1	18° 8' 42.236" N	73° 0' 30.157" E
BP-21	18° 8' 33.388" N	73° 0' 29.252" E

The mine lease area is non-forest revenue land. The mining plan was approved by IBM vide letter no.- RHG/BX/MPLN-744/NGP dated 15.03.2001 and modified mining plan was approved vide letter No. RHG/BX/MPLN-744/NGP dated 02.11.2006. Scheme of Mining is approved by IBM vide letter no RHG/BX/MPLN-744/NGP dated 07.05.2009.

Mining will be done by mechanized opencast method using heavy earth moving machinery. The mining operation is proposed to be conducted in a scientific and systematic manner. The bench height will be of 6 m. Drilling in hard strata will be done by jackhammer of hole dia 32mm or deep bore hole 110 mm dia by wagon drill. Blasting will be carried out for heaving effect and fragmentation. Blasted ore will be loaded into the dumpers by loaders and will be transported to the stacking yard. Thereafter, sorting of minerals will be done and the pre-determined grade bauxite will be dispatched to the intended destinations like Aluminium / cement plants. Life of the mine is 24 years. The water requirement is estimated as 17.5 KLD, which will be sourced from Ground water.

Conceptual mine development will be carried out in 51.70 Ha area out of which 35.50 ha will be under excavated area. An area of 15 ha will be under dumps 0.60 ha will be used for mineral storage, 0.10 ha will be used for infrastructure, 0.50 ha will be used for roads. Area under green belt will be 12.56 ha. 0.530 ha will be under environmental protection measures and 6.630 ha will be left for future usage after detailed exploration. It was reported by the PP, that the average waste generation during the scheme period will be about 54,000 TPA which will be used for backfilling.

Topographically the lease area is hilly rugged topography with having the highest elevation of 200 m MSL and lowest elevation of 60m MSL. The water table in the locality is at a depth of 25 - 30 m below the general ground level. The mine workings are expected to be 10 m bgl. Hence, mining activities will not intersect

ground water table. It was reported by the PP that there is no wildlife sanctuary/tiger reserve/national park, etc within the 10 km radius area around the mine lease.

The TOR was issued vide MoEF letter No : J-11015/711/2007-IA.II(M) dated 12th December, 2007. Baseline studies were carried out during summer season 2009. All the baseline parameters w.r.t Air, Noise, Water and Soil were reported to be within permissible limits. The initial EIA was prepared and handled by Non NABET Consultant, the EAC meeting was attended and presented by Project proponent himself during 24th Meeting held during July 8-9, 2008. The committee sought additional clarifications and sought revised EIA report. The TOR points and clarifications issued by MoEF were complied and the point-wise compliance status was included in the Revised EIA report submitted to MoEF. The proposal was further considered in the EAC meeting held during June 2-3, 2009 wherein the committee recommended the proposal.

The matter was examined in the Ministry and it was decided that it may be referred back to the EAC as Public Hearing shall not be exempted for the project. The proposal was considered in the EAC meeting held during August 3-4, 2009 and proponent was requested to conduct the Public Hearing and submit the revised EIA report. The Public Hearing for the project was conducted on 21.11.2010 at Gokhale college, Shrivardhan Maharashtra. The PH was presided over by Shri. Subhash Sonavane, Collector Raigad District. The issues raised during public hearing inter-alia, included that there should not be any pollution from the mine lease area, air pollution control measures to be adopted, raising of plantation, sprinkling of water etc. As per the villager's requirements, it was informed by the PP that they would give preference to the locals for employment; health issues, providing education, and assistance in vocational training etc. These have been incorporated in the Project Plan with budgetary provisions. The estimated cost of the project is Rs 1.50 Crores. It was reported by the PP that there is no court case/litigation pending against the project.

On submission of revised EIA report the proposal was considered in EAC meeting held during March, 2012 wherein the committee sought further clarification along with additional monitoring data for one month by NABET Accredited Consultant.

The project was then handled by M/s Bhagavathi Ana Labs Pvt Ltd which is a NABET accredited consultant. Additional Ambient Air Quality monitoring was carried out during summer 2012 and also in January 2015. Based on the information submitted in the form of Revised EIA report incorporation all the additional information sought by the committee, the project was further considered

The following are the details of information sought and reply by the PP:

S. No	Additional Information Sought	Information
i)	The EIA report, Mine Plan/Mine Scheme should be made mutually consistent and revised report(s) submitted clearly bringing out the	The EIA report is made in consistency with mining scheme. The changes are made in EIA/EMP report.

S. No	Additional Information Sought	Information
	changes made.	
ii)	Details of land outside the mine lease area and the related R&R issues should also be discussed and details furnished.	There is no land outside the M. L. area. At present No R&R is involved. All issues are settled with villagers and we are open to provide further assistance in R&R during mining and post closure of mining. Surface rights issues have been settled amicably.
iii)	CRZ map on the prescribed scale, clearly demarcating the HTL, LTL, CRZ boundary and location of the mine w.r.t. CRZ duly authenticated by one of the authorized agencies may be submitted. The CRZ map should take into account the coast line as well as other tidal influenced water bodies including creeks, rivers, etc., if any. The coastal features such as mudflats, mangroves etc. should also be shown.	The mine lease does not fall under CRZ. The mine lease is located at a distance of 2.5 km from the Arabian Sea.
iv)	Details of transportation of mineral may be furnished. It may be clearly shown whether the road infrastructure is capable of taking the proposed incremental load. In case, any strengthening is required, details in this regard including action plan with time frame should be given.	Mined out bauxite will be transported through trucks upto Dighi Port. Mine Road to transport road (PWD – SH 100) is at a distance of 1.3 km. The transportation route upto Dighi port is PWD road (SH - 100) & black topped which is about 18.8 km. Ore is transported by trucks covered with tarpaulin to prevent any spillage on roads. Haul road and transport road are in good condition and have sufficient carrying capacity
v)	An undertaking regarding owing the data contained in the EIA report should be submitted.	Undertaking regarding owing the data contained in the EIA report is furnished.
vi)	Compliance of TORs Should be given in a tabular form	TOR compliance is submitted in tabular form.
vii)	Action plan to address the issues raised during the Public Hearing should be given.	Public hearing issues, proposed action plan along with budget and time frame is incorporated in EIA/EMP report.
viii)	Details of CSR activities with financial allocation should be given.	Details of CSR activities along with financial allocation.

S. No	Additional Information Sought	Information
ix)	Based on monitored data on groundwater table, it may clearly be shown whether mining will intersect groundwater table. The data regarding water table, depth of mining etc. should be given in AMSL. In case the mining is likely to intersect groundwater table, possible ingress of salinity should be discussed in detail and report furnished.	The Mining will not intersecting ground water table. The ground water table within the mine lease area is around 25 – 30 m bgl. The maximum mine working depth carried is upto 10 m bgl. Hydrogeological study of the area was conducted by University of Petroleum & Energy Studies, Dehradun.
x)	Contour map as well as the land use map of the area should be given covering core zone and buffer zone.	Topographical map and surface plan and Land Use Map are provided in EIA/EMP report.
xi)	Primary survey of Flora and Fauna study of area should be given along with schedule of the fauna reported. In case of schedule fauna, conservation plan should be given.	Primary survey of the biological study has been carried out by Dr. J.S.Ambhore, Head Department of Botany.
xii)	It was observed that the issues relating to water table, its intersection during mining, pumping of groundwater if any, and its impact on the water regime should be discussed and report furnished.	The Mining will not intersecting ground water table. The ground water table within the mine lease area is around 25 – 30m bgl. The maximum mine working depth carried is upto 10 m bgl. Hydrogeological study of the area was conducted by University of Petroleum & Energy Studies, Dehradun CGWB guidelines for abstraction of ground water says that prior permission from competent authority for drawl of water for industrial usage below 100 m3/day is not required
xiii)	Compliance report of the earlier EC conditions with supporting documents and photographs should be furnished.	Certified Compliance Report of earlier EC was submitted.
xiv)	The baseline AAQ data should be revalidated by collecting one month (non monsoon seasons) data afresh and the trends compared with the earlier data.	Baseline AAQ data for one season has been collected during summer 2012 and incorporated in the report. Additional one month monitoring data has been collected during January 2015.
xv)	Details of Occupational health impacts and proposed mitigation plan in this regard should be	Details of Occupational Health & Impacts and proposed mitigation measures.

S. No	Additional Information Sought	Information
	furnished.	
xvi)	Questionnaire for appraisal of mining project shall be refilled correctly and furnished.	Environmental appraisal questionnaire is refilled correctly and furnished.
xvii)	Details of R&R with compensation provided to the persons whose land was acquired/project affected persons shall be furnished.	At present No R&R is involved. All issues are settled with villagers and we are open to provide further assistance in R&R during mining and post closure of mining. Surface rights issues have been settled amicably.
xviii)	Topo sheet/ Imagery with demarcation of study area, core zone and other features shall be furnished.	Satellite imagery along with land use and land cover map is furnished.

The Committee observed certain non-compliance in the certified compliance report of the Regional Office, MOEFCC, the PP informed that the compliance have already been done and submitted following status:

Sl. No	Condition	Compliance status
A. 1.	Top soil shall be stacked separately with proper slope with adequate safeguards and shall be backfilled for reclamation and rehabilitation of mined out area.	The entire area is having laterite capping and there is no top soil generation.
A. 2.	Overburden shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 30 m; each stage shall preferably be of 10m and over all slope of the dump shall not exceed 280. The OB dump shall be backfilled. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run-off. Monitoring and management of rehabilitated areas shall continue until the vegetation	The overburden stack is used for backfilling the mined out area. The overburden generated is being used for backfilling & levelling of mined out area concurrently. No stack of overburden will be maintained in future. The backfilled areas will be reclaimed with afforestation of native species.

	becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests on six monthly basis.	
C. 8	Prior Permission from the Competent Authority shall be obtained for drawl of ground water, if any.	The total water requirement for the project is 17.5 KLD which is sourced through tankers from local villages. Out of this drinking water requirement is 1 KLD which will be sourced from ground water. As per CGWB report of Raigad the entire area falls under safe category with stage of ground water development is 23.20%. CGWB guidelines for abstraction of ground water says that prior permission from Competent Authority for drawl of water for Industrial usage below 100 m ³ /day is not required.
D. 3	Conservation Measures for protection of flora and fauna in the core & buffer zone shall be drawn up with consultation with local forest and Wildlife Department	A wild life conservation plan for flora & fauna is prepared and included in EIA & EMP report will be strictly adhered. Funds for implementing the conservation of flora & fauna are separately allocated and shall not be diverted for any other activity.
B. 12	The project authorities shall inform to the Regional office located at Bhopal regarding date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work	This is an ongoing project, hence financial closure is not applicable.

It was also noted that this is a **violation** case as mine enhanced the production in 2008-2013. The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for expansion of production capacity from 0.018 million TPA to 0.120 Million TPA of Bauxite.

The Committee **recommended** additional specific conditions viz. (i) A study from an Institution of Repute may be conducted on the impact of Bauxite dust on Crop Productivity in agricultural land located around mines and mitigation measures to be implemented by PP to reduce the impact; (ii) Recommendation by the Institute, for Crops most suited in this

environment and training to the farmers to switch over to new cropping system which will sustain nutrient loading; (iii) Proponent shall carry out Occupational Health surveillance for workers engaged in the Project and records maintained and necessary remedial/preventive measures to be taken accordingly. Implementation of the Recommendations of National Institute for ensuring good occupational environment for mine workers; (iv) Use of mechanical devices for excavating the ore and reducing use of explosives; (v) Concurrent reclamation of mined out areas; (vi) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transfer points and undertaking comprehensive study in a years' time for slope stabilization of mine benches and OB dumps; (vii) Implementation of Action Plan on the Issues raised during Public Hearing;

EXTENSION OF VALIDITY OF TOR/EC

(2.59).J-11015/184/2013-IA.II(M) Captive Lime Stone Mine of M/s Seetharam Cements Ltd located at Village Angadi Richur and Indanur, Mandal Kodangal, District Mahabubnagar, Telangana (429.07ha, 2.25 MTPA)

The proposal is for mining of Limestone with proposed production capacity of 2.25 MTPA of M/s Seetharam Cements Ltd (SCL) at Gandlapally Village, Kodangal Mandal, Mahabubnagar District, Andhra Pradesh. The mine was sanctioned prior to 1994. The TOR for the project was granted vide J-11015/184/2013-IA.II(M) dated 17th September, 2013. PP submitted that with the bifurcation of State, all the Government procedures and processing of our proposal as per the TOR requirements are getting delayed. Due to this reason, TOR extension was sought.

Based on the information furnished and discussions held, the Committee **recommended** the extension of validity of TOR for additional one year i.e. from 17.09.2015 to 16.09.2016.

(2.60).J-11015/453/2012-IA.II(M)

Mauza Manpur Devra sand, stone and bajri mining project of M/s Chandel Stone Crusher located at Khasra No- 1248/1026/912/2 & 911/679/3, Village Manpur Devra, Tehsil Paonta Sahib, District Sirmaur, Himachal Pradesh.

The proposal of M/s Chandel Stone Crusher located at Khasra No-1248/1026/912/2 & 911/679/3, Village Manpur Devra, Tehsil Paonta Sahib, District Sirmaur, Himachal Pradesh is for sand, stone and bajri mining. The TOR to the proposal was issued vide letter no. J-11015/453/2012-IA.II.(M) dated 13.05.2013.

The PP now proposes to downscale the production from 53,000 TPA to 42,000 TPA. The committee recommended the amendment in TOR for downscaling production from 53,000 TPA to 42,000 TPA. It was also noted that this is a category B project as interstate boundary is located at a distance of 7km therefore, the proposal may be **transferred** to the concerned SEIAA.

(2.61) Rajbandh Stone Mining with proposed production capacity of 27,720 TPA (ROM) by Shri P.C. Pandey, located at village- Rajbandh, District-Pakur, Jharkhand (MLA 1.21 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)-EC

The Proposal of Shri P.C. Pandey is for mining of Stone with proposed production capacity of 27,720 TPA (ROM). The mine is located at village-Rajbandh, District-Pakur, Jharkhand in the mine lease area of 1.21ha. The Latitudes and Longitudes of the mine lease area lies in 24°35'17.45"N and 87°50'13.55" E on Survey of India toposheet number 72P/14 (Restricted).

The Project Proponent has informed that as per the EIA Notification, 2006 and its amendments, General Conditions shall apply except for Project or activity of less than 5 ha of mining lease area. Further, it is provided that the above exception shall not apply for Project or activity if the sum total of the mining lease area of the said Project or activity and that of existing operating mines and mining Projects which were accorded environment clearance and are located within 500 metres from the periphery of such Project or activity equals or exceeds 5 ha. In this instant proposal, The Assistant Mining Officer, Pakur of Mines and Geology Department, vide letter no. 664 dated 20-05-2015 has reported that the mine lease area is 1.21 ha and total area of existing operating mines around 500 meter of ML area is 24.26 ha. The interstate boundary between Jharkhand and West Bengal from mine lease area is at a distance of 2.1 km in SW direction hence it is treated as Category 'A' Project and to be dealt at the level of MoEF&CC.

The Committee was informed by Project Proponent that they have submitted Form-1 and Pre-feasibility Report and requested for EC as per the EIA Notification, 2006. Environmental Impact Assessment as well as Public Consultation is not required. The EAC viewed that these prescribed exemptions and recommendations are based on provisions of the EIA Notification, 2006 vide para Clause 7.0, sub clause 7(i) I under stage (1) – Screening. it provides that "In case of Category 'B' Projects or activities, this stage will entail the scrutiny of an application seeking prior Environmental Clearance made in Form-1 by the concerned State level Expert Appraisal Committee (SEAC) for determining whether or not the Project or activity requires further environmental studies for preparation of an Environmental Impact Assessment (EIA) for its appraisal prior to the grant of Environmental Clearance depending up on the nature and location specificity of the Project." **The Committee felt that though it is Category 'A' Project, TOR is not required nor any formal EIA/EMP is to be prepared in the instant case nor any Public Hearing is to be conducted in light of negligible impact of the Project activity on Environment.**

The lease has been granted in favor of Shri P.C. Pandey for a period of 10 years from 12.09.2002 to 11.09.2012 over an area of 1.21 ha. The lessee has applied for renewal of mining lease to the State Govt. Mine Plan has been approved by of Department of Mines and Geology, Pakur, Jharkhand on dated 29.11.2014. The Project is located in Seismic zone-III. No forest land is involved in the mine lease area. Method of mining is Opencast Semi-mechanized. The operations like drilling of shot holes, sorting of stone and breaking at site will be

done manually. Muffle blasting will be adopted for precautionary measures. The overburden generated is very less and it can be used for haul road dressing. During life of mine of 10 years, the area will be worked out except 7.5 meter safety barrier. Existing land use pattern of the mining lease area is Govt. waste land. Total geological reserves are 3,97,665 Tonnes and Total Mineable reserves are 2,38,112 Tonnes. Life of Mine is 10 years. Total water requirement is about 0.35 KLD. Drinking water and water for dust suppression and plantation will be collected from nearby villages. 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 45 lakhs.

The Committee after detailed deliberations **recommended** the Proposal for environmental clearance for Mining of Stone (Minor Mineral) with proposed production capacity of **27,720 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) 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; (iii) 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; (iv) 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; (v) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and Washing of all transport vehicles should be done inside the mining lease; and (vi) "Environmental Clearance is subject to final outcome of any Court case relevant to this Project in Hon'ble Supreme Court, Hon'ble High Court of Jharkhand and Hon'ble NGT or any other Court of Law".

(3.0). Any other Matter with the permission of the Chairman.

(3.1). Silica sand mining of M/s Silica Khanij Udyog of murka silica sand mine along with crusher & washing plant located at village- Murka Tehsil-Mau, District-Chitrakoot, State-Uttar Pradesh (production capacity 50,000 TPA; mine lease area 17.15 ha).

The proposal of M/s Silica Khanij Udyog, is for mining of Silica Sand in the mine of "murka silica sand mine along with crusher & washing plant" with production capacity of 50,000 TPA of Silica Sand in mine lease area of 17.15 ha. The mine lease area is located at village- Murka Tehsil-Mau, District-Chitrakoot, State-UttarPradesh,. The Latitudes and Longitudes of the mine lease area lie between 25^o 13'12" to 25^o 13'39.5" N; and 81^o 30'57.8" to 81^o31'21.8" E", on survey of India toposheet no 63G/2. The Project is located in Seismic Zone-III. The interstate boundary between Uttar Pradesh & Madhya-Pradesh is situated at a distance 3.8 km in South west direction from mine lease area.

The Project was considered for TOR in EAC meeting held during 24-26 August, 2011. The TORs were issued by EAC vide letter no. J-11015/133/2011-IA. II (M) dated 07.05.2012. The proponent submitted Final EIA in MoEF on 27.02.2014. It was not placed before the EAC for want of clarification on violation issues. The proposed project is an open-cast manual project, confined to excavation of Silica Sand from the proposed site. The rate of production of Silica Sand will be 50,000 TPA.

Total mine lease area is 17.15 ha. The operation will be open cast manual mining method. The mining lease of Murka Silica Sand mine has been sanctioned by the State Govt. of U.P under the provisions of MMDR Act 1957 and Rule 22 of MCR 1960 over an area of 17.15 ha to M/s Silica Khanij Udyog. period of 10 years period w.e.f. 03.05.1984 to 02.05.1994. This was further renewed for 10 years period upto 02.05.2004 vide letter 1307/18-11-96-170/78 TC. The lessee vide application dated 01.03.1997 requested to extend the 10 years renewal period to 20 years as per the provisions of MMRD Act 1957 and rule 24 of MCR 1960. The State Government of U.P. vide their letter no.-4125/86-09-170/78 TC dated 25.09.2009 has extended the renewal period to 20 years and as such the ML period expires on 02.05.2014. The lessee has filed application for renewal of ML in Form J on 11.02.2013 as per the provisions of Rule 24 of MCR 1960. The Scheme of Mining and Progressive Mine Closure Plan of Murka Silica Sand Mine was approved by IBM vide letter no UP/Chitrakoot/Silica sand/M.Sch.-01/2010-11dated 06/04/2011.

Total water requirement for the project is 17 KLD, which will be met from dug wells/ bore wells of nearby site services. Project Proponent reported that no National Parks, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves exist within 10 km of the mine lease area. Project proponent also reported that there is no schedule-I Species in the study area. The baseline data was collected during Post Monsoon Season 2012 (October-December 2012). All the parameters were within permissible limits. The Public Hearing was held on 19.08.2014 at 11:00 am near project site, Murka and presided over by Mr. Santosh Kumar, ADM, Chitrakoot. The representative of Madhya-Pradesh State Pollution Control Board was also present. The Committee discussed the issues raised during Public Hearing which inter-alia,

included, socio- economic development viz. infrastructural development, Health, Education etc.; Drinking water supply, environment related issues, employment, Road & Transportation etc. As per the villager's requirements, the Company would take care of socio-economic development under Corporate Social Responsibility, Environmental Mitigation measures will be undertaken. Total cost of the Project is Rs. 2 crores. Proponent has earmarked Rs. 6 Lakhs for Environmental Protection Measures as Capital Cost and Rs. 11.70 Lakhs per annum as recurring cost.

It is reported by the project proponent that there is no court case/litigation pending against the project. However, it was noted that Mining has been done from 1990-91 to 30.06.2011. Proponent informed that this is according to Allahabad High court order in which it has been clearly mentioned that due to some dispute in as to whether minor mineral include sand/silica falling within definition of minor minerals we grant time till 30.06.2011 to carry out mining operation. Lessee has submitted certificate from DM office Chitrakoot regarding closure of mine since 01.07.2011. Mining has been done according to Allahabad high court order so this is not a violation case. The committee was also of the view that this is **not a violation case**.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance

(3.2): Enhancement of production capacity of Bauxite mining from 4,551 TPA (ROM) to 1,52,000 TPA (ROM) of Bauxite by M/s Orient Abrasives Ltd., located at village-Virpur, Taluka-Kalyanpur, District-Jamnagar, Gujarat (13.48ha)-Amendments in ToR:

The Ministry has prescribed TOR on 11.03.2015 to M/s Orient Abrasives Ltd. for Enhancement of production capacity of Bauxite mining from 4,551 to 77,400 TPA (ROM) of Bauxite, located at village-Virpur, Taluka-Kalyanpur, District-Jamnagar, Gujarat in MLA of 13.48ha.

The PP has requested to amend the TOR with respect to proposed production capacity from 77,400 TPA (ROM) to 1,52,000 TPA (ROM) of Bauxite as per revised Mine Plan. PP has submitted the revised Form I and PFR.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **recommended** the amendments in TOR with respect to production capacity from 77,400 TPA (ROM) to 1,52,000 TPA (ROM) of Bauxite.

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.

List of Participants

- | | |
|--|------------------|
| 1. Shri M.S. Nagar | Chairman |
| 2. Dr. S. Subramaniyan | Member |
| 3. Prof. L. Ajay Kumar | Member |
| 4. Shri P.K. Verdia | Member |
| 5. Prof. G.S. Roonwall | Member |
| 6. Prof. A.K. Bhatnagar | Member |
| 7. Dr. U. Sridharan, Director (Scientific), MoEFCC | Member Secretary |
| 8. Representatives of M/s Saurashtra Chemical Ltd | |
| 9. Representatives of M/s Steel Authority of India Limited | |
| 10. Representatives of M/s Atikur Rahaman | |
| 11. Representatives of M/s Tamanna Begum | |
| 12. Representatives of M/s Mohan Minerals | |
| 13. Representatives of M/s Prabhu Dayal Sharma | |
| 14. Representatives of M/s Mohd. Sher Khan | |
| 15. Representatives of M/s Shri Manoj Kumar Jain | |
| 16. Representatives of M/s Krishnaping Alloys Ltd | |
| 17. Representatives of M/s Ultra Tech Cement Ltd | |
| 18. Representatives of M/s Mahavir Vintrade Pvt. Ltd | |
| 19. Representatives of M/s West Bengal Mineral Development | |
| 20. Representatives of M/s National Stone Works | |
| 21. Representatives of M/s Ultimate Group | |
| 22. Representatives of M/s Manoj Sharma | |
| 23. Representatives of M/s Cement Manufacturing Co. Ltd | |
| 24. Representatives of M/s Muneer Enterprises | |
| 25. Representatives of M/s Indian Rare Earth Limited | |
| 26. Representatives of M/s Shree Cement Ltd | |
| 27. Representatives of M/s Basant Stone Works | |
| 28. Representatives of M/s Swastik Enterprises | |
| 29. Representatives of M/s Idio Construction and Industries India Ltd | |
| 30. Representatives of M/s Sai Krishna (India) cements private limited | |
| 31. Representatives of M/s Jaypee Himachal Cement Plant (JHCP) | |
| 32. Representatives of M/s Vermiculite Products Private Limited | |
| 33. Representatives of M/s Maroon Engineers & Consultants (P) Ltd | |
| 34. Representatives of M/s Shri Deepak Chawla | |
| 35. Representatives of M/s Balbir Singh Supa Ram | |
| 36. Representatives of M/s Shri Rakesh Choudhary | |
| 37. Representatives of M/s Jai Singh Takhur & Sons | |
| 38. Representatives of M/s Khatau Nerbheram and Co. located | |
| 39. Representatives of M/s Mysore Minerals Limited | |
| 40. Representatives of M/s Rai Bahadur Seth Shreeram Durgaprasad | |
| 41. Representatives of M/s Himachal Chemicals & Silicate Works | |
| 42. Representatives of M/s P. Gowtham Reddy | |
| 43. Representatives of M/s Vishwaksen Industries Pvt. Ltd. | |
| 44. Representatives of M/s Ambuja Cement Limited | |
| 45. Representatives of M/s Kakinada SEZ Private Limited | |
| 46. Representatives of M/s Sangam Infra Estate Pvt. Ltd | |

- 47.Representatives of M/s Gem Granites Pvt Ltd
- 48.Representatives of M/s Gold Mine Stone Crusher
- 49.Representatives of M/s Vermiculite Products Private Limited
- 50.Representatives of M/s The Ramco Cements Limited
- 51.Representatives of M/s Mohunta Mining Manufacturing Co. Pvt. Ltd
- 52.Representatives of M/s Bhartesh Construction Company
- 53.Representatives of M/s Seetharam Cements Ltd
- 54.Representatives of M/s Chandel Stone Crusher
- 55.Representatives of M/s Shri P.C. Pandey
- 56.Representatives of M/s Silica Khanij Udyog
- 57.Representatives of M/s Orient Abrasives Ltd.
