

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

SUMMARY RECORD OF 38th MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The **38th 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 **SEPTEMBER 22-24, 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 37th EAC Meeting

The Minutes of the 37th Meeting of EAC held during **August 25-27, 2015** were circulated.

(1.1) Technical Discussion on GE Power & Water process Technology – Mining & Pollution issues and solution.

A paper on the pollution issues relating to the mining projects and the possible solutions by way of using the GE Power & Water process Technology was circulated in the EAC meeting for discussion. The discussion paper describes about the chemical stabilizers/dust suppressants available to minimize the dust rising out of mining operations to improve the air quality in the mines. The paper also mentions about innovative chemical technologies which are available for treating mine drainage water to improve the water quality of the drained out mine water in certain mines. The EAC members after going through the paper circulated informed that the stabilizers for the suppression of dust are available in the market since long. However, the members observed that any new effective technology for the control of air and water pollution in the mines is very much welcome and the committee can spare sometime during the EAC meeting to discuss about the available and emerging technologies.

Day 1: 22th SEPTEMBER, 2015 (TUESDAY)

Item No. 2:

Consideration of Environmental Clearance Proposals

(2.1) Mining of River Bed Sand Bajri (Minor Mineral) with proposed production capacity of 5.60 Million TPA (ROM) by lessee Shri Aman Sethi, located at Revenue Village(s) of Tehsil Baswa, District - Dausa, Rajasthan (MLA 2148.29ha)

The proposal of lessee Shri Aman Sethi is for mining of River Bed Sand Bajri (Minor Mineral) with proposed production capacity of 5.60 Million TPA (ROM). The mine lease area is located at Revenue Villages of Tehsil Baswa, District-Dausa in the mine lease area of 2148.29 ha. The mine lease area lies on Banganga, Sanwan and Palasan Rivers. The Project site falls on Survey of India toposheet numbers 45A/2, 54A/8, 54A/16, 54B/5, 54B/9 & 54B/13. The Project is located in Seismic zone-II. The Latitudes and Longitudes of the mine lease area as below:-

Zone	Starting Point (Latitudes/Longitudes)	End Point (Latitudes/Longitudes)
I	26°58'00.26"N & 27°16'47.76"E	27°03'40.98"N
II	27°06'00.80"N & 76°24'32.60"E	&
III	27°08'38.1"N & 76°30'29.21"E	76°48'09.82"E

The proposal of TOR was considered by the Expert Appraisal Committee in its 13th Meeting held on 12.11.2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter no. J-11015/ 333/2013-IA.II (M) dated 09.12.2013. The Proponent submitted the EIA/EMP Report online to Ministry for seeking Environmental Clearance after conducting Public Hearing.

The mine lease area is 2148.29ha which is Banganga, Sanwan and Palasan Rivers. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, Bajri over an area of 2148.29 ha has been granted by the Director of Mines and Geology Department, Govt. of Rajasthan, vide letter dated 05.03.2013 for the period of 5 year. The Mining Plan is approved by Director, Mines and Geology, Govt. of Rajasthan; vide letter no. SME/JP/MP/592/13, dated 02.12.2013.

Method of Mining is open cast semi-mechanized. Excavation will be carried out up to a maximum depth of 3.0 meters from surface of deposit and not less than one meter from the water level of the Rivers whichever is reached earlier. Proponent informed that 666.55 ha area will be used for excavation and 12.0614 ha for safety zone against Bridge (2 nos.), Roads (4 nos.) and Wells (8 nos.). The site elevation is 320.486 to 235.344 MSL. The ground water depth is 8m bgl in pre-monsoon season and 5m bgl in post-monsoon season. The total water requirement is 35 KLD including water demand for domestic purpose, dust suppression and plantation development which will be met by tanker supply. No ground water interception during the mining operations is envisaged.

Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5 m of the width of the River from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45m on either side of the structure/ bridge. Project Proponent reported that there will be construction of temporary rest shelters during operational phase.

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that 1000 no. of trucks will be deployed per day (20 tonnes capacity each) which increases 250 PCUs per day and the level of service (LOS) remains as "A". Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). Department of Mines and Geology, vide letter dated 07.01.2015 has confirmed that mine lease area does not fall under Aravali Hills. There is one Schedules-I species namely Pea fowl reported in the buffer zone. The conservation plan has been prepared and the same is under approval with the Chief Wildlife Warden. The Proponent has proposed a sum of Rs. 2.0 Lakhs for conservation of Schedule species.

The baseline data was generated for the period during post monsoon season i.e. October 2013 to December 2013. All the parameters for water and air quality were within permissible limits. The Committee noted that the base line data was collected before the issuance of TOR and deliberated the baseline data collected by the Project Proponent and accepted the same. Project Proponent reported that no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearing for the proposed Project was conducted on 25.08.2014 at 11:00 AM at Meeting Hall, Tehsil Office, Tehsil – Baswa, District - Dausa. The Public Hearing was presided over by Shri B. S. Sharma, Additional District Magistrate, Dausa. The representatives from the Rajasthan 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 request to start the mining as soon as possible, no water retain in the wells, mining should be legalized, Employment, Plantation and effective implementation of measures will be adopted. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Project Proponent needs to implement the Action Plan and the Implementation Report has to be submitted to the Regional Office of the MoEFCC every six months.

The cost of the Project is Rs. 15.61 Crores (Tender Cost). The Proponent has earmarked Rs. 3.6 Lakhs towards Environmental Protection Measures towards recurring expenses. Proponent informed that Rs. 2.4 Lakhs per annum as recurring and 24 Lakhs as capital cost have been earmarked towards CSR activities for next five years of mining operation.

The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's Orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~ 3,30,438 MT of Bajri has been made during December 2013 to March 2014 and ~ 4,52,982 MT during April 2014 to March 2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri with proposed production capacity of **5.60 Million TPA (ROM) subject to submission of TOR compliance no. 20 w.r.t. analysis of free silica.**

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; and (viii) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.2) Mining of Bajri (Minor Mineral) with proposed production capacity of 2.24 million TPA (ROM) by Lessee Shri Manjeet Singh Chawla, located at village(s) KhedliKhalsa, Ghata Jharanya, Dowda Khurd, Surang, Dhunda, Dubbibind Rakkha, Jadawata, Khatkhurd, Khatkalan, Padhana, Kirpura/Odwada, Niwadi, Tehsil and District-Sawai Madhopur, Rajasthan (MLA 802.38ha)

The proposal of Lessee Shri Manjeet Chawla is for mining of Bajri (Minor Mineral)

with proposed production capacity of 2.24 Million TPA (ROM). The mine lease area is located at Village(s) KhedliKhalsa, Ghata Jharanya, DowdaKhurd, Surang, Dhunda, Dubbibind Rakkha, Jadawata, Khatkhurd, Khatkalan, Padhana, Kirpura/ Odwada, Niwadi, Tehsil and District – Sawai Madhopur in the mine lease area of 802.38 ha. The mine lease area lies on Banas River. The Latitudes and Longitudes of the mine lease area are 26°11'37.9" to 26°12'03.7" N and 76°18'19.3" to 76°32'44.8" E respectively. The lease area falls on Survey of India toposheet numbers 54 B/7, 54 B/8, 54 B/11 & 54 B/12. The Project is located in Seismic zone-II.

The proposal of TOR was considered by the Expert Appraisal Committee in its 9th Meeting held during 22nd – 24th July, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter no. J-11015/181/2013-IA.II (M) dated 13.09.2013. The Proponent submitted the EIA/ EMP Report online to Ministry for seeking Environmental Clearance after conducting Public Hearing.

The mine lease area is 802.38 ha which is Banas River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 802.38 ha has been granted by the Director of Mines and Geology Department, Govt. of Rajasthan, vide letter dated 05.03.2013 for the period of 5 year. The Mining Plan is approved by SME, Jaipur Circle, Jaipur vide letter no. SME/ JP/ MP/ 346/ 13 dated 05.09.2013.

Method of mining is semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3.0 meters from surface of deposit and not less than one meter from the water level of the River Banas whichever is reached earlier. Proponent informed that 259.96 ha area will be used for excavation; 13.05 ha for safety zone against bridge (1 nos.); 6.7 ha for permanent roads (1 nos.) and 15.24 ha for wells (6 nos.). The site elevation is 232 MSL highest and 208 MSL is lowest. The ground water depth is 8.0m bgl in pre-monsoon season and 5.0m bgl in post-monsoon season. The total water requirement is 15.0 KLD including water demand for domestic purpose and dust suppression which will be met by tanker supply. No ground water interception during the mining operations is envisaged.

Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5m of the width of the River from both the banks. No ponding will take place. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45m on either side of the structure/ bridge. Project Proponent reported that there will be temporary rest shelters during operational phase.

Mineral will be transported through road. Project Proponent has made the traffic analysis survey and reported that 400 no. of trucks will be deployed per day (20 tonnes capacity each) which increase 250 PCUs per day and the level of service (LOS) remains as "A". Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that the Ranthambhore National Park is situated at a distance of 7.4 km towards SSE from the periphery of mine site. The application has been submitted at the Office of Additional Principal Chief Conservator of Forests, Jaipur for the NBWL clearance, vide letter no. nil dated 02.05.2014. NBWL clearance is awaited. State Mines and Geology Department, vide letter dated 27.02.2015 has confirmed that mine site does not fall in Aravali Hills.

The baseline data was generated for the period during October 2013 to December 2013. All the parameters for water (except few parameters i.e. TDS, total Hardness, Calcium and Fluoride) and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearing for the proposed Project was conducted on 17.11.2014 at 11:00 PM at Tehsil Office, Sawai Madhopur. The Public Hearing was presided over by Shri Ishwar Singh Rathore, Additional District Magistrate, Sawai Madhopur. The representative from the Rajasthan State Pollution Control Board was also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, employment, stops black marketing of Bajri, generate revenue etc. Project Proponent has made the action plan with budgetary provisions. The Committee deliberated and is of the view that PP needs to implement the Action Plan and the Implementation Report has to be submitted to the Regional Office of the MoEFCC every six months.

The cost of the Project is Rs. 7.0 Crores (Tender Cost). The Project Proponent has earmarked Rs. 32.5 Lakhs towards Environmental Protection Measures per annum towards capital cost and 3.2 Lakhs as recurring expenses. Proponent informed that Rs. 7.0 Lakhs per annum as capital cost and Rs. 3.5 Lakhs as recurring cost have been earmarked towards CSR activities for next five years of mining operation.

The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's Orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~ 1,32,467 MT of Bajri has been made during December 2013 to March 2014 and ~ 2,87,931 MT during April 2014 to March 2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri with proposed production capacity of **2.24 Million TPA (ROM)**.

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical

care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; and (viii) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.3) Sitapuri Limestone Mine with proposed production capacity of 3.66 million TPA (ROM) of Limestone by M/s UltraTech Cement Ltd., located at village(s) Sitapuri, Borlai, Awral, Andiyav, Chirakhan and Udiyapura, Tehsil-Manawar, District-Dhar, Madhya Pradesh (MLA: 965ha).

The proposal of M/s. UltraTech Cement Ltd. is for Sitapuri Limestone Mine with proposed production capacity of 3.66 million TPA (ROM) of Limestone. The mine lease area is located at Village (s): Sitapuri, Borlai, Awral, Andiyav, Chirakhan & Udiyapura, Tehsil – Manawar, District–Dhar, Madhya Pradesh. The Project is located in Seismic zone-II. The Latitudes & Longitudes of the site are 22°20' 4.84" N to 22°23' 8.94" N and 75°05'49.76" E to 75°07'16.00"E respectively and falls within the Survey of India Toposheet No. 46N/3.

The Proposal of TOR was considered by the Expert Appraisal Committee in its meeting held during January 27-28, 2014 to determine the Terms of Reference (ToR) for undertaking detailed EIA study. The ToR was issued by MoEFCC vide letter no. J-11015/442/2013-IA.II (M), dated 18th December, 2014. Further, the Ministry vide letter dated 04.06.2015 has amended the TOR w.r.t. capacity from 3.655 Million TPA (ROM) to 3.66 Million TPA (ROM). Project Proponent has submitted EIA/EMP Report online to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

Project Proponent reported that M/s UTCL has proposed a Greenfield Integrated Cement Project (Clinkers-2.0 MTPA, Cement -2.5 MTPA and Captive Power Plant (Coal Based) – 40 MW, D.G. Set – 2X 6 MW and WHRS -10 MW) at Villages – Tonki, Temarni, Sondual and Goplura, Tehsil – Manawar, District – Dhar, Madhya Pradesh. In order to meet

the requirement of Limestone for manufacturing of Cement, the raw material i.e. Limestone will be obtained from Mohanpura Limestone Mine (0.80 MTPA) and Sitapuri, Limestone mine (3.66 MTPA). Project Proponent informed that the Environmental Clearance has been recommended for proposed Cement Plant by EAC (Industry) in its 23rd EAC Meeting held during September 18-19, 2014.

Total mine lease area is 965ha. Out of which 192.25ha is Govt. land, 307.19 ha is Agricultural Pvt. Land and 465.56ha is others Pvt. Land. No forest land is involved. Chief Wildlife Warden and PCCF, vide letter dated 09.04.2015 has informed that there is no forest land in the mine lease area. Project Proponent reported that 493.28ha is for excavation, 5.0ha for infrastructure development, 30ha for Roads, 100 ha for Green belt development, 336.72ha area will be undisturbed. Out of total mined-out area, about 346 ha area will be simultaneously backfilled, reclaimed, afforested and returned back for afforestation/agricultural purpose and 147.28 ha area will remain as a water reservoir. Greenbelt/plantation will be developed on 115 ha area (100 ha of unworked area will be covered under green belt along lease boundary, haul road and plantation near mine office, crusher, workshop etc. and 15 ha will be reclaimed by bench slope afforestation). Project Proponent reported that the Land is not being acquired but only Surface Rights over land required for mining being taken. This ensures that ownership of land does not change. The land after excavation of mineral will be backfilled and returned back to the owner at the end of lease period. Thus far Surface Rights over 458.442 ha land has been acquired and Surface Rights over 218.176 ha need to be acquired. Detailed R&R action plan has been submitted by the Project Proponent. The Committee deliberated the same.

Mining Lease (ML) has been granted to M/s UltraTech Cement Limited by the Government of Madhya Pradesh, vide letter F 3-46/2006/12-2, dated 03.05.2014. Mining Plan along with Progressive Mine Closure Plan has been approved by the IBM, Nagpur vide letter no DHR/LST/MPLN-1140/NGP, dated 26.03.2014. Method of Mining will be fully mechanized opencast involving drilling, blasting, loading, by Hydraulic Excavators and dumpers. Transportation of limestone to proposed Cement Plant (~8 km) will be done by covered conveyor belt. Project Proponent has reported that Ground water table is 208-224 m AMSL (29m bgl – 45m bgl) and Ultimate working depth is 242 mRL (11m bgl). Ground Water will not be intersected. Total waste generation will be 88.67 million Tonnes OB which will be temporary stacked in non-mineralized area and will be backfilled in excavated area and rehabilitated by afforestation/agricultural use at the conceptual stage. Total water requirement will be 100 KLD which will be sourced from Ground water and surface water. Necessary permission from the PHE Department for drawl of water has been obtained; vide letter no. 24, dated 09.01.2015.

Project Proponent reported that proper protection measures will be adopted to reduce the impact of drilling and blasting on nearby habitation. Controlled blasting will be done and regular vibration monitoring of all the blasts will be done and the maximum PPV will be kept within the prescribed limit of DGMS. Green belt shall be developed within the 7.5 m statutory boundary between the mining lease and ultimate pit limit all along the lease boundary which is closest to the river so as to arrest flow of dust and fly rock'. Stratified layer system of plantation will be developed along the mining lease area in

proximity to the river to ensure no adverse impact on the river and habitation due to mining.

Project Proponent reported that there is no National Parks/Wildlife Sanctuaries/Biosphere Reserves/Wildlife Corridors/Tiger/Elephant Reserve is located within the 10 km study area of the mine lease. There are Six Reserved Forests within 10 km radius of study area. No Schedule-I species reported. State Government, vide letter no 18/Mineral/2014-15, Dhar, dated 02.01.2014, has confirmed that the instant mine lease area does not fall in the Aravali Hill Range. Baseline data was collected for the period March to May 2014. The analytical results of samples collected for air and water were found within permissible limits.

Public Hearing was conducted on 07.05.2015 at village Sitapuri, Tehsil– Manawar, District–Dhar, Madhya Pradesh. The Public Hearing was presided over by Shri Manoj Khatri, Additional District Magistrate, Dhar, Madhya Pradesh. The representative Regional Officer of Madhya Pradesh State Pollution Control Board was also present. The issues raised during Public Hearing were also considered and discussed during the meeting, which inter-alia, included priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Proponent needs to implement the Action Plan and the implementation report has to be submitted to the Regional office of the MoEFCC every six months.

Total cost of the Project is Rs. 55.0 Crores. Capital Cost for Environmental Protection Measures is Rs. 1.5 Crores and Recurring cost is Rs. 13 Lakhs per annum. Project Proponent has earmarked Rs. 110 Lakhs towards CSR Action Plan [Rs. 50 Lakhs for Infrastructure Development, Rs. 20 Lakhs for education, Rs. 20 Lakhs for Health and Rs 20 Lakhs for Social cause]. Project Proponent reported that Rs. 151.615 Crores have been earmarked towards land compensations and rehabilitation Budget. Project Proponent reported that there is no court case pending against the Project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for **Sitapuri Limestone Mine with proposed production capacity of 3.66 million TPA (ROM) of Limestone.**

The Committee also **recommended additional specific conditions** viz. (i) Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area"; (ii) Project Proponent shall carry out vibration studies well before approaching any such habitats or other buildings to evaluate the zone of influence and impact of blasting on the neighborhood. Within 500 meters of such sites vulnerable to blasting vibrations, avoidance of use of explosives and adoption of alternative means of mineral extraction, such as ripper/dozer combination/rock breakers/surface miners etc. should be seriously

considered and practiced wherever practicable. A provision for monitoring of each blast should be made so that the impact of blasting on nearby habitation and dwelling units could be ascertained. The covenant of lease deed under Rule 31 of MCR 1960 provides that no mining operations shall be carried out within 50 meters of public works such as public roads and buildings or inhabited sites except with the prior permission from the Competent Authority. (iii) Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; (iv) The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (v) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (vi) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical check-up once in six months and necessary medical care/preventive measures undertaken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers should also be adopted; (vii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing; and (viii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry.

(2.4). River Bed Mining Bajri (Minor Mineral) with production capacity of 1.129 million TPA (ROM) by Lessee Shri Ramashankar Gurjar, located at Revenue villages of TehsilBansur, District-Alwar, Rajasthan (MLA 1096.56ha).

The proposal of Lessee Shri Ramashankar Gurjar is for mining of River Sand (Minor Mineral) with proposed production capacity of 1.129 Million TPA (ROM). The mine lease area is located at village (s)- Alanpur, IsraKa Bas, Ukhelheda, Onchpur, UdhoKa Bas, Ouspur, KatariyaKa Bas, Kalyan Nagar, Keharpura, Kankariya, Kothiya, Kothal, Goota, Guwada, Choola, Chaudhaniya, Chipari, Jhida, TikliKa bas, Daangiwas, Dhakla, Talbas, Devnagar, Devsan, Dheepur, Nangalthalaka, Narol, ParsaKa Bas, Paparda, Mukandpura, Mugalpur, Mahanpur, Manchi, Majraddhakoda, Majararawat, Mandha, Meerapur, Maurodi, Mauthhuka, Raghunathpura, Ramnagar, RathodaKa Bas, Ladpur, Hameerpur, Harsaura, ShahpurTehsil-Bansur; District: Alwar Rajasthan in the area of 1096.56 ha. The mine lease area lies on the Bangangaand Karnali River bed and nallah. Study area lies on Survey of India toposheet numbers 54 A/1, 54 A/2, 54 A/5, 54 A/6, 54 A/9, 54 A/10. The Project is located in Seismic zone-II.

The proposal for ToR was considered by the Expert Appraisal Committee in its 13th Meeting held on 12th November, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The ToR was issued by MoEFCC vide letter No. J-11015/411/2013-IA-II (M) dated 9th December, 2013. The Proponent submitted the EIA/EMP Report online to the Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 1096.56ha which is as per khasra numbers issued by DMG, Rajasthan in Banganga & Karnali River & Nallah. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral River Sand over an area of 1096.56ha has been granted by the Govt. of Rajasthan, vide letter No P.7 (20) Mines/ Group-2/2013 dated 29.04.2013. The Mining Plan has been approved by Director, Mines and Geology, Govt. of Rajasthan; vide letter no. SME/JAI/AL/M. PLAN/BAJRI/ P- 237/ 13/189 Dated 15.01.2014.

Mining will be by Opencast Manual cum Semi-Mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and not less than one meter above the water level of the River Channel whichever is reached earlier. The site elevation is 325 m – 351 m AMSL. Mining will be done leaving a safety distance from the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45 m on either side of the structure/bridge. There will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure. The total water requirement is 80 KLD including water demand for domestic purpose, dust suppression and plantation development which will be met by purchasing from local villagers.

Project Proponent reported that no National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). However, the Sariska Tiger Reserve falls ~2.0 km in South direction from lease area. Application for authentication of location map has been submitted to CWW, Jaipur which is under process. There are eighteen Protected Forests and Eight Reserved Forests. State Government of Rajasthan, Department of Mines and Geology, vide letter no. 1194 dated 02.05.2014 has confirmed that the lease area does not fall in Aravali range. There is three Schedules-I species namely Tiger, Leopard and Peacock reported in the study area. The conservation plan has been prepared and the same is under approval with the Chief Wildlife Warden. The Proponent has proposed a sum of Rs. 10.0 Lakhs for conservation of Schedule species.

The baseline data was generated for the period during December 2013 to February 2014. The Committee deliberated the baseline data collected by the Project Proponent and accepted the same. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

Public Hearing for project was held on 18.09. 2014 at 11:00 AM at Office of Sub-Section Officer, Bansur, Alwar. Public Hearing was presided over by Shri Harindra Singh, Additional District Collector-I, Alwar. The representative from the Rajasthan State Pollution

Control Board was also present. The issues raised during the Public Hearing were about social & employment. Project proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Proponent needs to implement the Action Plan and the implementation report has to be submitted to the Regional office of the MoEFCC every six months.

The Capital cost of the Project is Rs 50 Lakhs. An amount of Rs. 2.25 Lacs has been earmarked towards Environmental Protection Measures and Rs. 1.0 Lacs per annum towards recurring expenses. Rs. 10.0 Lacs have been earmarked towards CSR activities for next five years of mining operation. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's Orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~ 1,58,928 MT of Bajri has been made during December 2013 to November 2014 and ~ 91,994 MT during December 2014 to June 2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri with proposed production capacity of **1.129 Million TPA (ROM) subject to the submission of Authenticated location map showing the area within 10 km of mine lease so that exact distance of the Sariska Tiger Reserve can be verified.**

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; and (viii) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.5).Mining of Bajri (Minor Mineral) with proposed production capacity of 40 Lakhs TPA (ROM) by M/s Himmat Singh Shekhawat, located at Revenue village (s) of Tehsil – Bilara, District–Jodhpur, Rajasthan (2439ha).

The Proposal of M/s Himmat Singh Shekhawatis for Mining of Bajri with proposed capacity of 40.0 Lakhs TPA (ROM). The mine is located near village Ravaniyana, Jaspali, JaliwadaKhurd, RansiGaon, Malkosni, Madlia, Malawas, Bala, Kalauna, Garhsuria, Khojanagar, Borunda, Jaiti Was, Lawari, Lamba, Hariada, Hariadhana, Halpur Kalan, HalpurKhurd, Pichiank, Benad, Peepad City, Jhank, Bankalia, Padasala Kalan, Beenawas, Lunngaon Kalan, Sovanian, Ria, Sambhadia, Birawas, BiladaChak 111, Ooalavi,Nananh, Bijasani, Lunn GaonKhurd, Ramnagarkalan, Rampuria, Rawar, Anand Nagar, Binjwadia, Banjada, Barna, Devnagar, Buchkalan, Jhurli, JajhiBagh Kalan, Jaswantpura, Jailwa Tehsil–Bilara, District–Jodhpur, Rajasthan. The mine lease area falls on survey of India Topo sheet no 45F/11, 45F/12 and Block 1 26°16'52.53" to 26°30'56.43"N & 73°22'09.64" to 73°44'28.41"E and Block 2 26°09'21.58"to 26°17'21.70"N & 73°25'28.94" to 73°50'54.12"E. The project is located in Seismic Zone II.

The Proposal was considered by the Expert Appraisal Committee in its meeting held on 12thNovember, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by MoEFCC vide letter no. J- 11015/320/2013-IA.II (M), dated 9th December, 2013. EIA/EMP Report has submitted online to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

The total lease area of the Project is 2439 ha. No Forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral River Sand has been granted by the Govt. of Rajasthan, vide letter No P.8 (8) khan/ Group-2/2013 dated 05.03.2013. The Mining Plan was approved by SME, Department of Mine & Geology, Jodhpur Circle, Rajasthan vide letter no. SME/JO/CC/Jodh/ Minor/Bajri/M.L. No-30/2012/16246, dated 12.12.2013.

The mining operation will be opencast semi mechanized with use of hand tools like shovel, pan, sieves, etc. The minerals will be collected in its existing form. Excavation will be carried out only up to a depth of 3m bgl. Extraction of sand material will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 29 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. Project Proponent reported that workers will be provided dust mask, safety boot, helmet and other safety equipment. A well-equipped first aid station will be maintained at mine site. Medical check-up of the workers will be done. Mineral will be transported through road. Traffic Analysis survey has been conducted and as per survey no. of dumpers will be 678 per day. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National Parks/Wildlife Sanctuaries/ Biosphere Reserves/Wildlife Corridors/Tiger/Elephant Reserve are located within the 10 km study area

of the mine lease. State Government vide letter dated 13.01.2015 has confirmed that the instant mine lease area of 2439 ha does not fall in the Aravali Hill Range. No Schedule-I species found in the core and buffer zone.

The baseline data was generated for the period during December 2013 to February 2014. All the parameters for water and air quality were within permissible limits except fluoride. There is no R&R plan applicable for this project at this time. However, Private land will be required and suitable compensation will be given as per Govt. norms.

The Public Hearing was conducted on 06.04.2015 Rajiv Gandhi Seva Kendra, Village Aanwana, Gram Panchayat SmitiBavdi, Tehsil Osian District Jodhpur. The Public Hearing was presided over by Shri Manaram Patel ADC, Jodhpur. The representatives from the Rajasthan 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, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields. Project proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Proponent needs to implement the Action Plan and the implementation report has to be submitted to the Regional office of the MoEFCC every six month.

The cost of the Project is Rs. 2.5 Crore. Capital Cost of the EMP is Rs. 22.50 Lakhs and recurring expenditure during the stage of production is Rs. 8.10 Lakh per annum. Project Proponent has earmarked Rs. 36.10 Lakhs per annum towards CSR Activities. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~ 1,11,040 MT of Bajri has been made during December 2013 to March 2014 and ~ 5,09,572 MT during April 2014 to March 2015.

The Committee noted that Mining Plan was approved by Department of Mine & Geology, Rajasthan **wherein the method of mine mentioned as mechanized method, however the application is for semi-mechanized. In view of this the Committee is of the view that PP needs to amend the Mine Plan accordingly.**

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri with proposed production capacity of 40 Lakhs TPA (ROM) **subject to submission of amended mine plan for semi-mechanized method.**

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be

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

(2.6). Mining of River Sand (Minor Mineral) with proposed production capacity of 2.26 Lakh TPA (ROM) by M/s Shiva Corporation (I) Ltd., Located at 18 Revenue Village(s) of Tehsil & District-Chittorgarh, Rajasthan (MLA450.89ha).

The proposal of M/s Shiva Corporation (India) Ltd. for Mining of River Sand (Minor Mineral) with proposed production capacity of 2.26 Lakh TPA (ROM) in MLA of 450.89 ha. The mine lease is located at villages Mayra, Khor, Chittori, Ordi, Ochri, Chittorgarh, Manpura, Damdama, Nagri, Biliya, Lal Ji KaKheda, Ghanet Kala, Thukrava, Ghosunda, Parliya, Hapawas, Satpuda, Pipli (total 18) Revenue villages of Tehsil and District Chittorgarh, Rajasthan. The geographical extents of mining lease area are Latitudes: 25°11'8.9"N to 25°46'25.1"N and Longitudes: 74°32'6.11"E to 74°57'13.2"E on Survey of India Toposheet numbers 45K/12, 45K/16, 45L/5, 45L/9, 45L/10, 45L/13.

The proposal of TOR was considered by the Expert Appraisal Committee in its 10th Reconstituted Committee of the Expert Appraisal Committee (EAC) meeting held during 21st-23rd August, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter J-11015/228/2013.IA.II (M), dated 17th October, 2013. Further, based on the request of Proponent, the Proposal for amendments was considered by the EAC in its meeting held during March 16-18, 2015 wherein the EAC recommended the amendments in TOR w.r.t. proposed production capacity from 2.24 Lakhs TPA to 2.26 Lakhs TPA (ROM) of Sand as the Mining Plan has been approved with respect to production capacity of 2.26 Lakhs TPA (ROM). The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

Total mine lease area is 450.89 ha which is non-forest land. Letter of Intent (LOI)

has been issued by Department of Mines and Geology vide letter no P.10 (21) Mine/Group-2/2012 Dated 28.01.2013 for the period of 5 year. Mining plan and Progressive Mine Closure Plan was approved by, Department of Mines and Geology, Bhilwara Circle, Bhilwara in favor of M/s Shiva Corporation (India) Ltd., vide letter no. SME/Bhil-Circle/CC-2/Bajri/Chittor/2012/4945, dated 14.11.2013.

The proposed project is an open-cast semi-mechanized, confined to excavation of sand from the lease area consists of 450.89 ha. It is proposed to work in 03 blocks namely A, B, & C as per approved Mining Plan. Sand will be extracted without any drilling and blasting up to the maximum depth of 3 meters from river bed or 1.0 meter above the water level of the river bed whichever is reached earlier. The ground water level varies from 10.74 to 16.85 mbgl. The elevation of lease area 428 AMSL to 360 AMSL. The total water requirement is 3.0 KLD including water demand for domestic purpose, dust suppression & green belt development which shall be met by tanker supply & NOC from Gram Panchayat Mata Ji ki Pandoli vide letter No 2015-16/54 dated 18-09-2015 & Gram Panchayat Kashmor vide letter No. Gram Panchayat/2015-16/SPL/2015-16 dated 18-09-2015 also submitted. The total mineable reserves are estimated 63.00 Lakhs Tonnes and anticipated production is only 11.3 Lakhs tonnes during entire 5 Year and replenished naturally every year during rainy season. 7.5m offset left in both side of river bank and 45.0 m radius around any permanent structure will be restricted to mining to protect from any damage to permanent structure.

Mineral will be transported through existing road network. The traffic analysis survey has been made & it reveals that 80 no. of trucks (considering both loaded & unloaded trucks) will be deployed per day (20 tones capacity each) which increases about 240 PCUs per day and max. Cumulative traffic volume at connected road is anticipated are 1804 and 770 PCUs per day the level of service (LOS) remains up to "A". Transportation route map also prepared and submitted to insure that the transportation vehicle should not be allowed to pass through the inside of villages with insure to compliance of IRC guidelines. Repair and maintenance of the nearby road will be done regularly. A supervisor will be deployed to regulate the traffic movement near mining site to proper traffic management. Speed breakers and signage will be installed at all the sensitive places in consultation of concern authority and local villagers.

Project Proponent reported that there is no National Park, Tiger/Elephant corridors, migratory route for birds etc. are found within 10 km of the mine lease area. However, the Bassi Wild Life Sanctuary lies at a distance of 9 Km in East direction from lease. Proposal for NBWL clearance was submitted to Wild Life Division of the MoEFCC dated 20.01.2015. Seven Reserved forest & four PF/UC forest exists within the study area. State Government of Rajasthan, vide letter No.2014-15/93, dated 06.08.2014 has confirmed that the lease does not fall in Aravali Range. No rare endemic, endangered species & threatened species of flora within the study area. Only one Schedule-I fauna species Indian Peafowl (*Pavo cristatus*) found in the study area. Conservation Plan has been prepared and submitted to Deputy Conservator of Forest (WL) Chittorgarh on 24.09.2015. PP has earmarked a budgetary provision for the conservation of Schedule species of Rs 1.75 Lac for five years. 4000 no's plantation proposed of native species with some fruits bearing and

medicinal trees in 10.0 ha area during the five year as per schedule of greenbelt development program.

Baseline studies were carried out during October-2013 to December-2013. All parameters for air (PM₁₀, PM_{2.5}, SO₂, NO₂& CO) & Mineralogical composition for the PM₁₀ for free silica, water, soil & noise quality were found within the prescribed limits. The Committee deliberated the baseline data submitted by the Project Proponent.

Public Hearing was conducted at 11.00 AM on 06.05.2015, in the premises of Rajiv Gandhi Sewa Kendra, Village –Ghosunda, Tehsil & District–Chittorgarh. The Public Hearing was presided over by Shri Suresh Chand Sharma, Additional District Magistrate, Chittorgarh. No R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no settlement in the project area. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia included that priority to local people in employment, effective implementation of measures to control of dust pollution, conservation measures, social and other development activities. Project proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Proponent needs to implement the Action Plan and the implementation report has to be submitted to the Regional office of the MoEFCC every six months.

Total cost of the project is Rs. 65.0 Lac. The Project Proponent has earmarked Rs. 14.0 Lakhs per annum towards implementation of Environmental Protection Measures. Rs. 15.0 Lakhs per annum for CSR activities. Rs 0.50 Lakhs per annum for occupational health and safety of workers. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's Orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~ 3023 MT of Bajri has been achieved during January 2014 to March 2014 and ~ 40293 MT during April 2014 to March 2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri with proposed production capacity of **2.26 Lakhs TPA (ROM)**.

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

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

(2.7). Mining of River Sand Bajri (Minor Mineral) with proposed production capacity of 30 Lakhs TPA (ROM) by Lessee Shri Abhishek, located at village (s)-Bakarwaliya, Sinodiya, Bhadun, Palri Bhopatan, Tehsil-Kishangarh, District-Ajmer, Rajasthan (ML area: 1219.03ha).

The proposal of Lessee Shri Abhishek is for mining of Bajri (Minor Mineral) with proposed production capacity of 30 Lakhs TPA (ROM). The lease area is located in village (s) – Bakarwaliya, Sinodiya, Bhadun, Palri Bhopatan, Tehsil - Kishangarh, District – Ajmer, Rajasthan in the mine lease area of 1219.03 ha. The Mining lease area lies on River Rupangarh. The geographical extends of mining lease area are: Latitudes: 26°51'11.03"N to 26°55'56.22"N, Longitudes: 74°47'22.14"E to 74°58'0.65"E on Survey of India toposheet no 45J/13. The project is located in seismic zone-II.

The proposal of ToR was considered by the Expert Appraisal Committee in its 10th meeting held during August 21st-23rd 2013 to determine the Terms of Reference (ToR) for undertaking detailed EIA study. ToR was issued by MoEFCC vide letter No J-11015/223/2013-IA-II.(M), dated 15th October 2013. The Proponent submitted the EIA/EMP report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 1219.03 ha which is part of River Rupangarh. No forest land is involved. The Letter of Intent (LOI) for grant of mining lease over an area of 1219.03ha has been granted, vide State Government Order No. F 7(18) Khan/Group-2/2013, dated 20th March 2013. The Mining Plan has been approved by SUPDTG MINING ENGINEER, Department of Mines and Geology, Jaipur Circle, Jodhpur vide letter no. SME/JAI/MP/Bajri/F-353/13/3509 dated 28/06/2013.

Method of mining will be opencast semi-mechanized mining. Excavation will be carried out up to a maximum depth 3 meters from surface of deposit and not less than one meter from the water level of the Rupangarh River whichever is reached earlier. Proponent informed that 1208.53 ha area will be used for excavation. The elevation is 389 – 373 mRL. Ground water depth is 10-15 m in pre- monsoon and 7-10 m in post -monsoon. Total water

requirement for the project will be 18 KLD during Avg. demand and 21 KLD while peak demand including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply. No groundwater intersection during the mining operations is envisaged.

Project proponent reported that mining will be done leaving a safety distance from the banks i.e 7.5 m of the width of the river from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45 m on either side of the structure/bridge. Project proponent reported that there will be construction of temporary rest shelters during operational phase. Mineral will be transported through road. Project proponent has made the traffic Analysis survey and reported that 445 no. of truck will be deployed per day (20 tonnes capacity each) which increase 2670 PCUs per day, but the level of service (LOS) remains as "A" and "B". Project Proponent reported that roads will be repaired regularly and maintained in good condition. A supervisor will be maintained at the sensitive places.

Project Proponent reported that there is no National Park, Sanctuary, Tiger/Elephant corridors, migratory route for birds etc. are found within 10 km of the mine lease area. There are five protected forests reported in 10 km radius of the mine lease area. The State Govt. Mines and Geology Department, vide letter no. 842, dated 22.05.2015, has confirmed that mine lease does not fall in Aravali Hill range. There are one schedule-I species (Indian Peafowl- *Pavo cristatus*) found in the study area. The Conservation Plan has been prepared and deliberated by the Committee.

The baseline data was generated for the period during October, 2013 to December, 2013. The Project Proponent reported that parameters for water and air quality were within permissible limit, except some parameters of water. The Committee deliberated the baseline data collected by Project Proponent. Project proponent reported that no R&R Plan is applicable for this project as the mine lease area lies entirely on the river bed and there is no establishment on the site.

Public Hearing for the proposed project was conducted on 28.05.2014 at Govt. Secondary School, Village- Sinodiya, Tehsil- Rupangarh, District – Ajmer, Rajasthan. The Public Hearing was presided over by Shri Yashoda Nandan Srivastava, Additional District Collector II, Ajmer. The representative of the Rajasthan State Pollution Control Board was also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, mining by manual method, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields. Project proponent has made the action plan with budgetary provisions. The Committee deliberated and is of the view that Proponent needs to implement the Action Plan and the implementation report has to be submitted to the regional office of the MoEFCC every six month.

The cost of the project is Rs. 4.0 Crores. The Proponent has earmarked Rs. 24.0 Lakh towards Environmental Protection Measures as recurring expenses and Rs. 3.0 Lakhs

towards capital cost. Proponent has informed that Rs. 38.0 Lakh per annum as recurring cost have been earmarked towards CSR activities for next five years of mining operation. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (in civil Appeal no. 9703-9706 of 2013) production of 3,84,017 tonnes of Bajri has been made during December, 2013 to August 2014.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri with proposed production capacity of **30.0 Lakhs TPA (ROM)**.

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; and (viii) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.8). Mining of River Sand (Minor Mineral) with proposed production capacity of 5.60 Lakhs TPA (ROM) by M/s Shiva Corporation (I) Ltd., located at Revenue villages of Tehsil-Rashmi, District-Chittorgarh, Rajasthan (MLA 681.23ha) (Consultant: Enviro Concept (I) Pvt. Ltd. Jaipur)-Consideration for EC

The proposal of M/s Shiva Corporation (India) Ltd. is for Mining of River Sand (Minor mineral) on 681.23 ha land (Gair Mumkin Nadi & nallas) with production capacity of 5.60 Lakhs TPA (ROM). The mine lease area is located near Revenue villages of Gurjaniya,

Depura, Rashmi, Lalpura, Uncha, Pahoona, Ratankhedi, MedaKhedi, Somi, Sankhali (total 10) of Tehsil: Rashmi, District: Chittorgarh, Rajasthan The geographical extents of mining lease area are Latitude: 25°02'13.3"N to 25°11'27.26"N and Longitude: 74°18'52.02"E to 74°29'06.94"E. The lease area falls on survey of India topo sheet no. 45K/4, 45K/7, 45K/8, 45K/11, 45K/12, 45L/1 and 45L/5 & Block A coordinate 25°04'11.2" to 25°04'47.5" N, 74°21'37.3" to 74°22'03.7" E, Block B 25°05'23.4" to 25°05'57.9" N, 74°24'43.4" to 74°25'13.1" E, Block C 25°07'09.3" to 25°07'53.1" N, 74°25'49.5" to 74°26'13.9" E, Block D 25°08'29.8" to 25°08'59.2" N, 74°26'58.4" to 74°27'32.7"E Block-E 25°11'03.5" to 25°11'24.7" N, 74°28'28.2" to 74°28'28.1" E. The Project is located in seismic zone-II.

The proposal of TOR was considered by the Expert Appraisal Committee in its 10th meeting held during 21st-23th August, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA. TOR has been issued by MOEFCC, vide letter no. J-11015/218/2013-IA.II (M), dated 14.10.2013. The Proponent submitted the EIA/EMP report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The total lease area of the project is 681.23 ha. No forest land is involved. The Letter of Intent (LOI) for grant of mining lease has been granted by State Government of Rajasthan, vide Order No. P10 (23) Mine/Group-2/2012, dated 21.01.2013. The Mining Plan has been approved by the Superintending Mining Engineer, Department of Mines and Geology, Bhilwara Circle, Bhilwar, Rajasthan, vide letter no. SME/Bhil-Circle/CC-2/Bajri/Chittor/2012/4938, dated 14.11.2013.

The mining operation will be opencast semi-mechanized with use of hand. Excavation will be done only the day time and completely stopped during monsoon season. Total water requirement is 6.6 KLD including water demand for domestic purpose, dust suppression & green belt development which shall be met by tanker supply and NOC obtained and submitted for adequate water availability from Gram Panchayat Somi and Rashmi dated 13.09.2015. Project Proponent reported that workers will be provided dust mask, safety boot, helmet and other safety equipment. A well- equipped first aid station will be maintained at mine site. Medical check-up of the workers will be done. The mineral will be transported by existing road network. The traffic survey carried out and it reveals that 200 no. of trucks of 20 tonne capacity will be deployed per day (considering loaded and unloaded) which increasing cumulative traffic volume 1200 to 4920 PCUs per day on local road network and Level of Service (LOS) will be remains up to "A" (Excellence) to "B" (Very good). A supervisor will be deployed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National park, Tiger/Elephant corridors and Migratory Route for Birds etc. within 10 km study area of the mine lease. There are no Rare Endemic, Endangered species and threatened species of flora within the study area. Only one Schedule-I species Indian Peafowl (*Pavo cristatus*) found in the study area and their conservation plan has been prepared and submitted to concerned Authority for approval. State Government of Rajasthan, vide letter No.2014-15/86, dated 06.08.2014 has confirmed that the lease does not fall in Aravali Range.

The Baseline studies were carried out during October to December-2013. All the parameters for air, water and noise were within the permissible limits. No R&R plan is applicable for this project at this time. However, Private land will be required and suitable compensation will be given as per Govt. norms.

The Public Hearing was conducted on 29.05.2014, at Rajiv Gandhi Sewa Kendra, Village: Marmi, Tehsil: Rashmi District: Chittorgarh. The Public Hearing was presided over by Shri Jagveer Singh, Chief Executive Officer, Zila Parishad, Chittorgarh. The representatives from the Rajasthan 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, effective implementation of measures to control of dust pollution, conservation measures, social and other development activities and not to harm nearby fields.

Total cost of the project is Rs. 62 Lakhs. Project Proponent has earmarked Rs. 14.0 Lakhs per year towards cost for Environmental Protection Measures, Rs. 5.40 Lakhs per annum for CSR activities and Rs. 0.65 Lakhs per annum for the occupational health and safety of the workers. A budgetary provision for the conservation of Schedule species will be Rs. 2.25 Lakhs for five years.

The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of 3,32,359 MT of Bajri has been made during December 2013 to March 2014 and 4,81,875 MT during April 2014 to March 2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri with proposed production capacity of **5.60 Lakhs TPA (ROM)**.

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary

provisions during the Public Hearing; (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; and (viii) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.9). Amendment regarding life of mines in EC (Extension of validity period) for Mining of Selenite Mineral at "Thob-I Selenite Mine" by M/s Rajasthan State Mines and Minerals Limited, located near village-Thob, Tehsil-Pachpadra, District-Barmer, Rajasthan (MLA 126.77 ha) Amendment in Environment Clearance, vide no. J-11015/82/2007-IA. II (M), dated 09.08.2007

The proposal of M/s Rajasthan State Mines and Minerals Limited (RSMML) is for extension in sanctioned life of mine (extension of validity period) in EC and to reduce Selenite production capacity from 20,000 TPA to 4,000 TPA in ML area of 126.77ha. The reason for reduction in Selenite production capacity as compare to sanctioned Selenite production capacity in EC is poor and uncertain market demand of Selenite from mine. The mine lease area is located at village-Thob, Tehsil-Pachpadra, District-Barmer, Rajasthan. The latitudes and longitudes of the site are 26°03'52" N to 26°04'35"N and 72°24'56"E to 72°25'54"E respectively.

The Ministry of Environment, Forest and Climate Change has granted the Environment Clearance to M/s Rajasthan State Mines and Minerals Limited, videNo. J-11015/82/2007-IA. II (M), dated 09.08.2007 for Selenite production capacity of 20,000 TPA. The life of mine as per EC was seven years from the date of commencement of mining operation. The mining operation was commenced on 18.12.2008 and therefore the tentative validity of seven years for the sanctioned EC is completing on 17.12.2015.

The mining lease for mineral Selenite, near village-Thob-I, Tehsil-Pachpadra, District Barmer was granted in favour of RSMML by the Mines Department, Government of Rajasthan, vide order NO.P.15(52)Khan/Group-1/92, dated 07.06.1993, for a period of 20 years with effect from date of registration i.e. from 30.4.1994 to 29.04.2014. Further, the validity of mining lease has been extended up to 29.04.2044, vide order no. ME/Bar/Pradhan/ML/10/92/572, dated 23.02.2015. The Mines and Geology Department, Govt. of Rajasthan, vide letter dated 11.12.2014, has approved the Scheme of Mining with Progressive Mine Closure Plan. The project is an open-cast mining project, confined to excavation, washing, screening and loading of Selenite and allied operations from the proposed site. The operation is semi-mechanized with use of Hydraulic Excavator, Washing & Screening Equipment, Tippers/ Trucks, Tractor with Scraper etc.

Project Proponent informed that as per approved scheme of mining, the life of mine is about 33 years and proposed period for reduction in annual sanctioned production

capacity is effective from the financial year 2015-16. The total production of gypsum from mines up to 31.08.2015 is 4960.67 metric tonnes. The balance selenite reserve is about 1.28 Lakh metric tonnes.

The Committee deliberated the information submitted by PP and **recommended the proposal for Extension in life of mine (Extension of validity period) in EC up to 30 years (i.e. 08.08.2037) from the issuance of EC i.e. 09.08.2007 with reduced selenite production of 4,000 TPA.**

The Committee also **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; (ii) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (iii) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; and (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 centre; Washing of all transport vehicle should be done inside the mining lease.

(2.10). Amendment regarding life of mine in EC (Extension of validity period) for Mining of Gypsum Mineral at "Gudli Gypsum Mine" by M/s. Rajasthan State Mines and Minerals Limited, located near village-Gudli, Tehsil-Suratgarh, District-Sriganganagar, Rajasthan (MLA: 116.85ha) Amendment in Environment Clearance vide letter no. J-11015/664/2007-IA. II (M), dated 01.05.2008

The proposal of M/s Rajasthan State Mines and Minerals Limited (RSMML) is for extension in sanctioned life of mines (validity) in EC on same gypsum production capacity i.e. 40,000 TPA in ML area of 116.85 ha. The reason for extension of life of mines (extension of validity period) in sanctioned EC is discontinuation of mining operation due to contractual problems. The mine lease area is located near village Gudli, Tehsil-Suratgarh, District-Sriganganagar, Rajasthan. The latitudes and longitudes of the site are 29°11'15"N and 73°32'00"E respectively.

The Ministry of Environment, Forest and Climate Change has granted the Environment Clearance to M/s Rajasthan State Mines and Minerals Limited, vide No. J-11015/664/2007-IA. II (M), dated 01.05.2008 for Gypsum production capacity of 40,000 TPA. The tentative life of mines as per EC was five years from the date of commencement of mining operation. The mining operation was commenced on 19.10.2010 and therefore

the tentative validity of five years for the sanctioned EC is completing on 18.10.2015.

The mining lease for mineral Gypsum, near village-Gudli, Tehsil-Suratgarh, District Sriganganagar was granted in favour of RSMML by the Mines Department, Government of Rajasthan, vide order NO.P.15(2)Khan/Group-1/01, dated 13.07.2009, for a period of 20 years from 15.01.2002 to 14.01.2022. Mines and Geology Department, Govt. of Rajasthan, vide letter dated 12.06.2007, has approved the Mining Plan along with Progressive Mine Closure Plan. The project is an open-cast mining project, confined to excavation & loading of Gypsum and allied operations from the proposed site. The operation is semi-mechanized with use of Hydraulic Excavator, Tippers/ Trucks, Tractor with Scraper etc.

Project Proponent informed that as per approved scheme of mining the life of mines was about five years and due to discontinuation of mining operation, still the remaining life of mines is three years. The total production of Gypsum from mines up to 31.08.2015 is 1.12 Lakh metric tonnes against total gypsum reserve of 2.28 Lakh MT. The balance Gypsum reserve is about 1.16 Lakhs metric tonnes.

The Committee deliberated the information submitted by PP and **recommended to extend the life of mines (validity of EC) for further period of three years from 19.10.2015 to 18.10.2018 for same production capacity of 40,000 TPA of Gypsum.**

The Committee also **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; (ii) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (iii) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; and (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 centre; Washing of all transport vehicle should be done inside the mining lease.

(2.11). Amendment regarding life of mine in EC (Extension of validity period) for Mining of Gypsum Mineral at "Bhurasar Gypsum Mine" by M/s. Rajasthan State Mines and Minerals Limited, located near village-Bhurasar, Tehsil-Kolayat, District-Bikaner, Rajasthan (MLA:280.50ha)- Amendment in Environment Clearance vide no. J-11015/456/2008-IA. II (M), dated 05.08.2010

The proposal is of M/s Rajasthan State Mines and Minerals Limited (RSMML) for

extension in sanctioned life of mines in EC (extension of validity period) and to reduce gypsum production capacity from 3,00,000 TPA to 2,00,000 TPA in ML area of 280.50 ha. The reason for reduction in Gypsum production capacity as compare to sanctioned Gypsum production capacity in EC is poor demand of Gypsum from mines. The mine lease area is located near village Bhurasar, Tehsil - Kolayat, District - Bikaner, Rajasthan. The latitudes and longitudes of the site are 28°18'31" N to 28°19'35"N and 72°15'20"E to 72°16'52"E respectively.

The Ministry of Environment, Forest and Climate Change has granted the Environment Clearance to M/s Rajasthan State Mines and Minerals Limited, vide No. J-11015/456/2008-IA. II (M), dated 05.08.2010 for Gypsum production capacity of 3,00,000 TPA. The life of mines as per EC was five years from the date of commencement of mining operation. The mining operation was commenced on 20.02.2011 and therefore the tentative validity of five years for the sanctioned EC is completing on 19.02.2016.

The mining lease for mineral Gypsum, near village-Bhurasar, Tehsil-Kolayat, District Bikaner was granted in favour of M/s RSMML by the Mines Department, Government of Rajasthan, vide order NO.P.3(143)Khan/Group-2/06, dated 03.12.2010, for a period of 20 years with effect from date of registration i.e. from 04.02.2011 to 03.02.2031. The project is an open-cast mining project, confined to excavation & loading of Gypsum and allied operations from the proposed site. The operation is semi-mechanized with use of Hydraulic Excavator, Tippers/ Trucks, Tractor with Scraper etc.

Project Proponent informed that as per approved mining plan the life of mines was about five years and due to shortfall in production of gypsum as compared to sanctioned EC production capacity, still the remaining life of mines is four years. The total production of Gypsum from mine up to 31.08.2015 is 10.60 Lakh metric tonnes against total gypsum reserve of 17.11 Lakhs Metric tonnes. The balance gypsum reserve is about 6.51 Lakhs metric tonnes.

The Committee deliberated at length the information submitted by PP and **recommended to extend the life of mines (Validity of EC) for further period of four years from 20.02.2016 to 19.02.2020 for Bhurasar Gypsum Mine on reduced production capacity from 3,00,000 TPA of to 2,00,000 TPA of Gypsum.**

The Committee also **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; (ii) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (iii) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; and (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 centre; Washing of all transport vehicle should be done inside the mining lease.

(2.12). Amendment regarding life of mine in EC (Extension of validity period) for Mining of Gypsum Mineral at "Dehriya Gypsum Mine" by M/s Rajasthan State Mines and Minerals Limited, located near village-Dehriya, Tehsil - Kolayat, District-Bikaner, Rajasthan (499 ha)- Amendment in Environment Clearance No. J-11015/728/2008-IA. II (M), dated 22.02.2008

The proposal of M/s. Rajasthan State Mines & Minerals Limited (RSMML) is for extension in sanctioned life of mines in EC (extension of validity period) and to reduce gypsum production capacity from 5,00,000 TPA to 3,00,000 TPA in ML area of 499 Hectare. The reason for reduction in Gypsum production capacity as compare to sanctioned Gypsum production capacity in EC is poor market demand of Gypsum from mines. The mine lease area is located near village Dehriya, Tehsil - Kolayat, District - Bikaner, Rajasthan. The latitudes and longitudes of the site are 28°10'29" N to 28°12'41"N and 73°08'10"E to 73°11'03"E respectively.

The Ministry of Environment, Forest and Climate Change has granted the Environment Clearance to M/s Rajasthan State Mines and Minerals Limited, vide No. J-11015/728/2007-IA. II (M), dated 22.02.2008 for Gypsum production capacity of 5,00,000 TPA. The life of mines as per EC was four years from the date of commencement of mining operation. The mining operation was commenced on 05.03.2012 and therefore the tentative validity of five years for the sanctioned EC is completing on 04.03.2016.

The mining lease for mineral Gypsum, near village-Dehriya, Tehsil-Kolayat, District Bikaner was granted in favour of RSMML by the Mines Department, Government of Rajasthan, vide order NO.P.3(72)Khan/Group-2/09, dated 24.01.2011, for a period of 20 years with effect from date of registration i.e. from 30.06.2011 to 29.06.2031. The project is an open-cast mining project, confined to excavation & loading of Gypsum and allied operations from the proposed site. The operation is semi-mechanized with use of Hydraulic Excavator, Tippers/ Trucks, Tractor with Scraper etc.

Project Proponent informed that as per approved mining plan the life of mine was about four years and due to shortfall in production of gypsum as compared to sanctioned EC production capacity, still the remaining life of mines is five years. The total production of Gypsum from mines up to 31.08.2015 is 7.05 lakh metric tonnes against total gypsum reserve of 19.61 Lakh Metric tonnes. The balance gypsum reserve is about 12.56 lakh metric tonnes.

The Committee deliberated at length the information submitted by PP and **recommended to extend the life of mines (Validity of EC) for further period of five years from 05.03.2016 to 04.03.2021 for Dehriya Gypsum Mine on reduced**

production capacity from 5,00,000 TPA to 3,00,000 TPA of Gypsum.

The Committee also **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; (ii) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (iii) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; and (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 centre; Washing of all transport vehicle should be done inside the mining lease.

(2.13). Japharkheda Red Ochre and China Clay Mine with production of 25,000 TPA (ROM) of red ochre and enhancement of china clay production from 16,709 TPA to 75,000 TPA (ROM) by lessee Shri Gopal Lal Agal, located at village Japharkheda, District –Chittorgarh, Rajasthan (MLA 89.78 ha) – Reconsideration of EC.

The Proposal of lessee Shri Gopal Lal Agal is for Japharkheda Red Ochre and China Clay Mine with production of 25,000 TPA (ROM) of red ochre and enhancement of china clay production from 16,709 TPA to 75,000 TPA (ROM) in The MLA of 89.78 ha. The Mine is Located at village Japharkheda, District –Chittorgarh, Rajasthan. The Latitudes and Longitudes of the Mine Lease Area are 24°49' 10" to 24° 49' 53" N and 74° 35' 01" to 74° 35' 25" E respectively on Topo Sheet No. 45 L/09.

The proposal of EC was earlier considered by the Committee in its meeting held during May 25-27, 2011 wherein the Committee recommended the project for environmental clearance subject to following conditions (i) The provisions of Mines Act, as applicable shall be implemented; (ii) Concentration of free silica in the ambient air shall be monitored regularly and records maintained as part of post project monitoring. Necessary safeguard measures as may be required, based on monitored data of free silica, shall be taken.

The Committee also noted that it is a violation case as production from the mine was increased after 1994 and it continues to operate after renewal fell due without obtaining requisite prior environmental clearance. In this context, the Ministry has initiated credible action. The Rajasthan State Pollution Control Board vide letter dated 24.10.2013 has informed that a case has been filed in the Court of Chief Judicial Magistrate, Chittorgarh on 24.10.2013 under section 15 and 19 of the Environment (Protection) Act, 1986. State

Government of Rajasthan vide letter dated 21.09.2012 provided the production details and there was no mining activity during 2004 to 2012.

The Proposal is for Japharkheda Red Ochre and China Clay Mine with production of 25,000 TPA (ROM) of red ochre and enhancement of china clay production from 16,709 TPA to 75,000 TPA (ROM) and renewal of mine lease which fell due in 2000. TOR for this project was prescribed on 11.9.2009. The mine lease area is 89.78 ha. No forestland is involved.

Modified Mining Plan and Progressive Mine Closure Plan has been approved by IBM Udaipur, vide letter dated 23.08.2010. Mine working will be opencast with shovel dumper combination. No drilling and blasting is involved. Ultimate working depth will be 18 m bgl (409 MRL). The life of the mine is more than 100 years. It was stated by the proponent that the mine does not fall in Aravali. A letter dated 11.01.2010 from Mining Engineer, Chittorgarh has been submitted in this regard. No National Park / Sanctuary is located within 10 km of the mine lease. The baseline AAQ data was collected during October 2009 to December 2009 which showed the levels within permissible limits. Water requirement is estimated as 9 kld, which will be obtained from tube well / dug well / rainwater. The groundwater table is reported to vary between 348 mRL – 343 mRL. Mine working will not intersect groundwater table. It has been estimated that 2,19,000 m³ of waste will be generated during the lease period. It will be disposed of in the form of two external OB dumps with a maximum height of 10 m. As per the post mine land use, an area of 14.95 ha will be covered under plantation including plantation on dump and mined out benches. Total water requirement will be 9.0 KLD (2.0KLD for drinking,6.0 KLD for suppression and 1.0 KLD for Plantation). Water will be available from nearby villages. The loaded tractor trolleys / tipper trucks would carry the material to the crusher site, at a distance of about 100m from the mining site.

Public Hearing has been held on 22.04.2010. The issues raised during public hearing were also considered and discussed during the meeting. The public hearing was presided over by Shri Khiba Ram, Additional District Collector. The cost of the project is Rs. 25.0 Lakhs. The Project Proponent has earmarked Rs. 9.0 lakhs towards EMP cost as capital and Rs. 1.5 lakhs per annum towards CSR activities.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Japharkheda Red Ochre and China Clay Mine with production of 25,000 TPA (ROM) of red ochre and enhancement of china clay production from 16,709 TPA to 75,000 TPA (ROM) **subject to submission of copy of Board Resolution and documents related to compliance of MoEFCC's direction dated 20.01.2015 on violation.**

The Committee **recommended additional specific conditions** viz. (i) The provisions of Mines Act, as applicable shall be implemented; (ii) Concentration of free silica in the ambient air shall be monitored regularly and records maintained as part of post project monitoring. Necessary safeguard measures as may be required, based on monitored data of free silica, shall be taken. (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six

months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; and (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease.

(2.14). 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 AtikurRahaman S/o Hazi Abdul Gafoor, located at village-Pipakheri, Tehsil-Ramganjmandi, District-Kota, Rajasthan (72.8234ha)-(Consultant: M/s Udaipur Mintech Pvt. Ltd.)-Re-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 Topsheet 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 EC was earlier appraised by the Expert Appraisal Committee in its Meeting held during June 24-26, 2015 wherein 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 envisaged 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.

In this contest, PP vide letter dated 25.08.2015, has submitted the above mentioned information to the Ministry and accordingly the Proposal is considered in this meeting. The PP has presented the following details:-

- (a). With regard to water quality status, the PP has reported that regular water quality monitoring has been done and submitted to RO Lucknow.
- (b). With regard to detailed R&R Plan, the PP has reported that there is no human settlement within core zone. R&R Plan is applicable for private land. Out of total mine lease area, 11.23ha is private land which has already been acquired by the PP and compensation has been provided to the land owners as per State Govt. Rules.
- (c). With regard to cumulative impact of other mines, the PP has reported that there are several mines but only eight mines are in operation. PP has monitored the data and mentioned that all the parameters are well within the prescribed limits.
- (d). PP has submitted the Mines and Geology Department's letter dated 10.09.2015 and as per the details, the PP has produced a maximum of 1,00,000 Tonnes of Limestone (Building Stone) and has not enhanced the production capacity, hence no violation observed.
- (e). TOR compliance no. 38 (Action Plan on the issues raised during Public Hearing) has been resubmitted and the Committee deliberated the issues and action plan.
- (f). Revised Questionnaire has been submitted by PP.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for **Enhancement of Pipakheri Limestone (Building Stone) Mine from production capacity of 1.0 Lakh TPA(ROM) to 6.0 Lakh TPA(ROM).**

The Committee also **recommended additional specific conditions** viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; (ii) 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; and (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.

(2.15). Mining of River Sand Bajri (Minor Mineral) (Luni River Bed) with proposed production capacity of 50.40 Lakhs TPA (ROM) by Lessee Shri Bharat Singh Shekhawat, located at Revenue villages of Tehsil- Gudhamalani, District-Barmer, Rajasthan (MLA 5151.6828ha) (Consultant: Enviro Concept (I) Pvt. Ltd., Jaipur)-Reconsideration of EC

The proposal of Lessee Shri Bharat Singh Shekhawat is for mining of River sand Bajri (Minor Mineral) with proposed production capacity of 50.40 Lakhs TPA (ROM). The mine is located near village Gandhav Khurd, Paliyasi, Dangriya, PadraliKalla, Gadevi, Banta, Aalpura, Mithari, SidhasavaChouhan, Bhakharpura, Gudamalani, Ratanpura, Degwas Charnan, DedawasJagir, Nagar, GaliyaKalla, Dhandlawas, Modawas, Junakheda, Tunkiya, Jalikheda, Khudala, Lolawa, Goliyajeevraj, Bhatala, Sada, Mandawala, PailaKalla, Darguda, PailaKhurd, Dangwa, Amarpura, Bhalkhadi, Gadesara, SindhariChousira, Bhuka. Bhagatsingh, Bhuka Thansingh, Manawas, Gangali, Karna, Dandali, Girlicharnan, Aamjar and Gandhaskalla of Tehsil Gudamalani & Sindari of District Barmer, Rajasthan. The mine lease area falls on survey of India Topo sheet no 40 O/11, 40O/12, 40O/13, 40O/14, 40O/15, 40O/16, 45C/1, 45C/2, 45C/3 & Block 1 coordinate 25°30'09.8" to 25°30'21.1" N & 71°46'00.4" to 71°46'05.2" E, Block 2 25°29'47.0" to 25°29'56.1" N & 71°46'05.3" to 71°46'07.5" E, Block 3 25°29'18.6" to 25°29'25.6" N & 71°45'28.6" to 71°45'37.1" E, Block 4 25°28'17.9" to 25°28'26.5" N & 71°45'02.9" to 71°45'03.8" E. The project is located in Seismic Zone-III.

The Proposal was earlier appraised by the EAC in its meeting held during April 29-30, 2015 wherein the Committee deferred the Proposal and noted that the EIA/EMP Report has not addressed all baseline as well as other environmental parameters adequately. EIA/EMP Report has not been prepared in-line with the Annexure-III of EIA Notification, 2006. There are several deficiencies viz. (i) Monitoring stations are not justified; (ii) List of flora/fauna and endangered species are not accurate; (iii) Block-wise mining area details are not furnished; (iv) Geological profile of the area does not have the required details (and may have to be furnished afresh); (v) Traffic management study has omissions (and need to be recalculated); (vi) Questionnaire' has not adequately addressed w.r.t. s. no. 4 and 28.2 etc.; and (vii) details of Action Plan for occupational health of the workers has not been furnished.

Project Proponent has submitted the revised EIA/ EMP report online on 05.08.2015 and accordingly the Proposal is reconsidered in this meeting.

The proposal of TOR was considered by the Expert Appraisal Committee (Non-Coal Mining) in its 10th meeting held during 21st -23th August, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA. TOR has been issued by MOEFCC, vide letter No. J-11015/216/2013-IA.II (M), dated 14.10.2013.

The total lease area of the project is 5151.6828 ha. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajrihas been granted by the Director of Mines and Geology Department, Govt. of Rajasthan, vide letter dated 27.02.2013 for the period of 5 year. The Mining plan and Progressive Mine Closure Plan has been approved by office of the Superintending Mining Engineer, Dept. of Mines & Geology, Jodhpur Circle- Jodhpur, Rajasthan, vide letter no. SME/JO/CC/Bar/Minor/Bajari/M.L. No. 24/2012/11790, dated 05.08.2013.

Method of mining is semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3.0 meters from surface of deposit and not less than one meter from the water level of the River whichever is reached earlier. Proponent informed that 1090 ha area will be used for excavation; 266.9353 ha for safety zone/permanent Roads and 3794.7475 ha area will be undisturbed. The total water requirement is 10.0 KLD including water demand for domestic purpose, dust suppression and green belt development which shall be met by tanker supply, NOC from local gram panchayat has been obtained. Workers will be provided dust mask, safety boot, helmet and other safety equipment. A well- equipped first aid station will be maintained at mine site. Medical check-up of the workers will be done.

Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5m of the width of the River from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45m on either side of the structure/ bridge. Project Proponent reported that there will be temporary rest shelters during operational phase. Mineral will be transported through road and traffic analysis survey reported that about 1800 no's of truck will be deployed per day (loaded and Un-loaded) and level of services (LOS) calculated at different connected road on the basis of existing and cumulative incremental traffic volume in PCU and comes under "A" (Excellent) and "B" (Very good) on connected roads. A supervisor will be appointed to regulate the traffic movement near project site and speed breakers and signage will be installed at sensitive places.

Project Proponent reported that there is no National Park, Tiger/Elephant corridors, Migratory route for birds etc. are located within 10 km of the study area. There are no rare endemic, endangered species and threatened species of flora found within the study area. Two Schedule-I faunal species Peafowl *Pavo Cristatus* and Chinkara *Gazellabennettii* are found in the study area and their conservation plan has been prepared with budgetary provision of Rs 9.30 Lakhs per annum and submitted to concerned authority for approval, vide letter dated 29.12.2014. About 1,50,000 no's of trees to be planted of native species

with fruits and medicinal values on 375.0 ha under greenbelt development program during entire lease period. State Mines and Geology Department, vide letter dated 12.05.2014 has confirmed that mine site does not fall in Aravali Hills.

Baseline studies were carried out during October- December-2013 and additional ambient air quality monitoring done in the month of May 2015 to represent whole study area. All parameters for air, water and noise etc. were within permissible limits. Public Hearing was conducted at 10.00 AM on 18.07.2014, in the premises of Gram Panchayat: Bhukha Bhagat Singh, Panchayat Samiti: Sindhari, Tehsil: Gudhamalani, District: Barmer, Rajasthan. Public Hearing was presided over by Shri Rajendra Mishra, Chief Executive Officer (CEO), Barmer. The representatives from the Rajasthan 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, effective implementation of measures to control of dust pollution, conservation measures, social and other development activities and not to harm nearby fields. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Proponent needs to implement the Action Plan and the implementation report has to be submitted to the Regional office of the MoEFCC every six months.

Total cost of the project is Rs. 80 Lakhs. Project Proponent has earmarked Rs. 26.90 Lakhs towards Environmental Management Plant cost [Rs. 21.20 Lakhs as capital cost and Rs. 5.6 Lakhs per annum as recurring cost]. Project Proponent has also earmarked Rs. 56.60 Lakhs towards socio-economic welfare measures for the nearby villages other than R&R plans.

The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's Orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~ 22,74,262 MT of Bajri has been made during January 2014 to March 2014.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri (Minor Mineral) with proposed production capacity of **50.40 Lakhs TPA (ROM)**.

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

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

(2.16). Mining of Bajri (Minor Mineral) with proposed production capacity of 2.80 Lakh TPA (ROM) by Lessee Shri Himmat Singh Shekhawat, located at Revenue village(s) of Tehsil Nathdwara, District Rajsamand, Rajasthan (MLA-773.2797 ha) (Consultant: Enviro Concept (I) Pvt. Ltd., Jaipur)-Re-Consideration of EC

The proposal of Lessee Shri Himmat Singh Shekhawatis for Mining of Bajri (Minor Mineral) with proposed capacity of 2.80 Lakh TPA (ROM). The Mine is located near village Namana, Khedana, KumariyaKheda, Ulpura, Kothariya, Kallakhedi, KarjiyaGhati, Gunjol, Kuncholi, Kunthwa, Bagol, Gudla, Dhanyla, Paneriyo Ki Madri, Joshiyo Ki Madri, Tantol, Sarsuniya, Khamnor, Molela, Khedi, Dabun, Saloda, Karai, Sema, ChotaBhanuja, BadaBhanuja of Tehsil: Nathdwara, District: Rajsamand,Rajasthan. The mine lease area falls on Survey of India topo sheet numbers 45H/9, 45H/13, 45G/12 & 45G/16 & Block A coordinate 24°58'16.8" to 24°58'21.6"N, 73°43'54.5" to 73°43'57.1 E , Block B 24°58'28.4" to 24°58'30.5"N, 73°46'08.1" to 73°43'14.7E , Block C 24°58'57.0" to 24°58'59.0"N, 73°46'40.7" to 73°46'51.5 E, Block D 24°59'20.5" to 24°59'24.7"N, 73°47'30.4" to 73°47'33.8E , Block E 24°59'55.4" to 24°59'56.1"N , 73°45'44.0" to 73°45'46.7E. The project is located in Seismic Zone-II.

The Proposal was earlier appraised by the EAC in its meeting held during April 29-30, 2015 wherein the Committee deferred the Proposal and noted that the EIA/EMP Report has not addressed all the baseline as well as other environmental parameters adequately. EIA/EMP Report has not been prepared in-line with the Annexure-III of EIA Notification, 2006. There are several deficiencies viz. (i) Monitoring stations are not justified; (ii) List of flora/fauna and endangered species are not accurate; (iii) Block-wise mining area details are not furnished; (iv) Geological profile of the area does not have the required details (and may have to be furnished afresh); (v) Traffic management study has omissions (and need to be recalculated); (vi) Questionnaire' has not adequately addressed w.r.t. s. no. 4 and 28.2 etc.; and (vii) details of Action Plan for occupational health of the workers has not been furnished.

Project Proponent has submitted revised EIA/ EMP report online and accordingly the Proposal is reconsidered in this meeting.

The proposal of TOR was considered by the Expert Appraisal Committee in its meeting held during August 21-23, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by MOEFCC, vide letter no. J-11015/211/2013-IA.II (M) dated 14.10.2013. Project Proponent submitted EIA/EMP report online to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

The total lease area of the project is 773.2797ha. No forest land is involved. Letter of Intent (LOI) has been issued by Department of Mines and Geology vide letter no. P10 (3) Mine/Group-2/2013 dated 05.03.2013. Mining Plan and Progressive Mine Closure Plan has been approved by the Superintending Mining Engineer, Dept. of Mines & Geology, Rajsamand-Circle, Rajsamand, Rajasthan, vide letter no. SME/RAJ-CIR/Minor/Bajari/Raj-II/F-SMEUDR-1/2013/597, dated 11.12.2013.

Method of mining is semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3.0 meters from surface of deposit and not less than one meter from the water level of the River Banas whichever is reached earlier. Proponent informed that 33.50 ha area will be used for excavation; 59.18 ha for safety zone/permanent Roads and 680.59 ha area will be undisturbed. Excavation will be done only the day time and completely stopped during monsoon season. The total water requirement is 5.0 KLD including water demand for dust suppression, green belt development & domestic purpose which will be sourced from nearby village with proper permission from the Gram Panchayat. Project proponent reported that workers will be provided dust mask, safety boot, helmet and other safety equipment. A well- equipped first aid station will be maintained at mine site. Medical check-up of the workers will be done.

Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5m of the width of the River from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45m on either side of the structure/ bridge. Project Proponent reported that there will be temporary rest shelters during operational phase.

The mineral will transported by existing road network. The traffic survey carried out reveals that 100 No's trucks (considering both loaded and unloaded trucks) will be deployed per day which increase 2608 PCUs (Max.) per day and the level of service (LOS) remains as "A". Roads will be repaired regularly and maintained in good condition. A supervisor will be deployed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that there is no National Park, Tiger/Elephant corridors, Migratory route for birds etc. located within 10 km of the study area. There are no rare endemic, endangered species and threatened species of flora found within the study area. One reserved forest, ten protected forests and two unclassified forests exist within the study area. Three *Schedule-I* fauna species namely Indian Peafowl (*Pavocristatus*), Panther

(*Pantherapardus*) and Rock Python (*Python molurus*) and one *schedule-II* species Common Langur (*Presbytis entellus*) were found in study area and their conservation plan has been prepared and submitted to Deputy Conservator of forest (WL), Rajsamand which is under approval. State Government of Rajasthan, vide letter No. ME/Raj-II/Bajri/ML-28/2013/2014-15/1425, dated 11.12.2014 confirmed that the lease does not fall in Aravalli Hill Range.

Baseline studies were carried out during October to December-2013 and additional ambient air quality data was collected in the month of May 2015 to represent the whole study area. All parameters for air, water and noise were permissible limits. No R&R plan is applicable for this project at this time. However, Private land will be required and suitable compensation will be given as per Govt. norms.

Public Hearing was conducted on 25.11.2014 at Panchayat Samiti Office, Khamnor, Tehsil: Nathdwara, District: Rajsamand. The Public Hearing was presided over by Shri Govind Singh Ranawat, Additional District Magistrate, Rajsamand. The representatives from the Rajasthan 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, effective implementation of measures to control of dust pollution, conservation measures, social and other development activities and not to harm nearby fields. Project proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Proponent needs to implement the Action Plan and the implementation report has to be submitted to the Regional office of the MoEFCC every six months.

Total cost of the project is Rs. 68 Lakhs. Project Proponent has earmarked Rs. 19 Lakhs towards Environmental Management Plan cost [Rs. 7.75 Lakhs as capital cost per annum and Rs. 11.25 Lakhs per annum as recurring cost]. Project Proponent has also earmarked Rs. 11.60 Lakhs towards socio-economic welfare measures for the nearby villages, other than R&R plans. Project Proponent has also earmarked Rs. 34.70 Lakhs for the conservation of Scheduled species for five years. About 4,000 no's (@800 per Annum) of native species will be planted for fruits and medicinal trees in 10.0 ha area during the next five years under greenbelt development program.

The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of 41,482 MT of Bajri has been done during April 2013 to March 2014 and 71,979 MT during April 2014 to March 2015. **The Committee noted that the Project Proponent had mined out bajri since April 2013, however the Mining Plan was approved by Director, Mines and Geology, Govt. of Rajasthan on 11.12.2013 i.e. PP has continued the mining operation since April 2013 without approved mine plan.**

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri (Minor Mineral) with proposed production capacity of **2.80 Lakhs TPA (ROM) subject to the**

submission of (i) Comments of Mines and Geology, Govt. of Rajasthan w.r.t. violation done by the Project Proponent i.e. mining of Bajri since April 2013 without approved Mining Plan.

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; and (viii) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.17). Mining of River Sand (Minor Mineral) with production capacity of 52 Lakhs TPA (ROM) by Lessee Shri Abhimanyu Singh, located near village(s)- Barli, MatajiKa Kheda, Deoliya Kalan, Guda Khurd, Gudha Kalan, and Kitab, Tehsil Bhinay, District- Ajmer, Rajasthan (MLA: 342.08 ha) (Consultant: Perfect Enviro Solutions Pvt. Ltd.)-Re-consideration of EC

The proposal of Lessee Shri Abhimanyu Singh is for mining of Bajri (Minor Mineral) with proposed production capacity of 52 Lakh TPA (ROM). The mining lease area is located in village(s) – Barli, MatajiKa Kheda, Deoliya Kalan, GudaKhurd, Gudha Kalan, and Kitab, Tehsil Bhinay, District – Ajmer, Rajasthan in the mine lease area of 342.08 ha. The Mining lease area lies on River Khari. This is a fresh mining lease applied for mining of mineral River Sand. The geographical extends of mining lease area are: Latitude: 25°55'22.29"N to 25°52'30.64"N, Longitude: 74°42'19.90"E to 74°53'16.98"E on survey of India topo sheet no 45K/9,45K/13. The project is located in seismic zone-II.

The Proposal was earlier appraised by the EAC in its meeting held during

December 22-23, 2014 wherein the Committee deferred the proposal and concluded that the Project Proponent needs to revise the EIA/EMP Report and also set right the deficiencies including details on well wise ground water level data, occupational health management plan, disaster management plan and Public Hearing Action Plan in tabular form etc.

The proposal of ToR was considered by the Expert Appraisal Committee in its 10th meeting held during August 21st-23rd 2013 to determine the Terms of Reference (ToR) for undertaking detailed EIA study. The ToR was issued by MoEF vide letter No J-11015/224/2013-IA-II (M) Dated 15th October 2013. The proponent submitted the EIA/EMP report online to ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 342.08 ha which is part of river Khari. No forest land is involved. The letter of Intent (LOI) for grant of mining lease for minor mineral sand, Bajri over an area of 342.08 ha. has been granted by the State Government vide Order No. F 7(3) Khan/Group-2/2013, dated 13th February 2013. The Mining Plan has been approved by SUPDTG MINING ENGINEER, Department of Mines and Geology, Jaipur Circle, Jodhpur vide letter no. SME/JAI/MP/Bajri/F-287/13/3539 dated 28/06/2013.

Method of mining will be opencast semi-mechanized mining. Excavation will be carried out up to a maximum depth 3 meters from surface of deposit and not less than one meter from the water level of the Khari river whichever is reached earlier. Proponent informed that 303 ha area will be used for excavation. The elevation is 396 – 371 mRL. Ground water depth is 8-10 m in pre- monsoon and 6-8 m in post -monsoon. Total water requirement for the project will be 12 KLD during Average demand and 15 KLD while peak demand including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply. No groundwater intersection during the mining operations is envisaged.

Project proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5 m of the width of the river from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45 m on either side of the structure/bridge. Project proponent reported that there will be construction of temporary rest shelters during operational phase.

Mineral will be transported through road. Project proponent has made the traffic Analysis survey and reported that no. of truck deployed will be 745 per day (20 tonnes capacity each) which increase 4470 PCUs per day, but the level of service (LOS) remains as "A" and "B". Project proponent reported that roads will be repaired regularly and maintained in good condition. A supervisor will be maintained at the sensitive places.

Project Proponent reported that there is no National Park, Tiger/Elephant corridors, Migratory route for birds etc. located within 10 km of the study area. There is only one protected forest in 10 km radius. There are no rare endemic, endangered species and threatened species of flora found within the study area. One *Schedule-I* fauna species,

namely Indian Peafowl (*Pavocristatus*) found in study area and its conservation plan has been prepared and submitted for approval. State Government of Rajasthan, vide letter dated 05.01.2015 confirmed that the lease does not fall in Aravalli Hill Range.

The baseline data was generated for the period during October, 2013 to December, 2013. The Project Proponent reported that parameters for water and air quality were within permissible limit, except some parameters of water. The Committee deliberated the baseline data collected by project proponent. Project proponent reported that no R&R Plan is applicable for this project as the mine lease area lies entirely on the river bed and there is no establishment on the site.

Public Hearing for the proposed project was conducted on 30.05.2014 at Gram Panchayat Sabha Bhavan, Village - Barli, Tehsil - Bhinay, District – Ajmer, Rajasthan. The Public Hearing was presided over by Shri YashodaNandan Srivastava, Additional District Collector II, Ajmer. The representatives from the Rajasthan State Pollution Control Board, was also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, mining by manual method, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields. Project proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Proponent needs to implement the Action Plan and the implementation report has to be submitted to the Regional office of the MoEFCC every six months.

The cost of the project is Rs. 5.0 Crores. The Proponent has earmarked Rs. 28.0 Lakhs towards Environmental protection measures towards recurring expenses. Proponent has informed that Rs. 45.0 Lakhs per annum as recurring cost have been earmarked towards CSR activities for next five years of mining operation. The Project Proponent has also made a submission that in accordance with Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (in civil Appeal no. 9703-9706 of 2013) production of 1,28,244 tonnes of Bajri has been made during December, 2013 to February 2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri (Minor Mineral) with proposed production capacity of **52 Lakhs TPA (ROM)**.

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and

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

(2.18). River Sand Mining (Shivpura River-a tributary of Luni River) with proposed production capacity of 2.24 Lakh TPA (ROM) by Lessee Shri Paras Sethi, located at Revenue village(s) of Tehsil-Chohtan, District-Barmer, Rajasthan (MLA-54.68ha) (Consultant: Enviro Concept (I) Pvt. Ltd., Jaipur)-Re-Consideration of EC

The proposal of Lessee Shri Paras Sethi for Mining of River Sand (Minor Mineral) with production capacity of 2.24 Lakh TPA (ROM). The mine is located near revenue village Shivpura of Tehsil: Chohtan, District: Barmer, Rajasthan. The geographical extents of mining lease area are Latitudes: 25°31'47.6" to 25°32'56.8"N and Longitudes: 71°13'43.9" to 71°14'38.9"E on Survey of India Toposheet number 400/2, 400/3, 400/6, 400/7 and One Block 1, Coordinate 25°31'47.6" to 25°32'56.8" N & 71°13'43.9" to 71°14'38.9" E.

The EC Proposal was earlier appraised by the EAC in its meeting held during December 10-11, 2014 wherein the Committee noted that there are several deficiencies viz. (i) EIA/EMP Report along with Mining Plan/Scheme has not been circulated to the Committee Members and that the Committee experienced difficulty in appraising the Proposal for EC; (ii) There are 03 threatened species and 06 Schedule-I species as per Report for which conservation plan with funding provision has not been provided adequately; (iii) List of flora/fauna and endangered species are not accurate, a conservation plan for Endangered Plant species be submitted; (iv) Geological profile of the area may be furnished; (v) details of Action Plan for occupational health of the workers has not been furnished; (vi) Environment Policy has not been submitted; and (vii) detailed Action plan with budgetary allocation on issues raised during the Public Hearing has not been submitted.

Proponent submitted the revised EIA/EMP Report online to Ministry for seeking environmental clearance after incorporating the deficiencies observed by the EAC and accordingly, the Proposal is considered in this meeting.

The proposal of TOR was considered by the Expert Appraisal Committee in its 10th meeting held during 21st -23th August, 2013 to determine the Terms of reference (TOR) for undertaking detailed EIA. The TOR has been issued by MOEFCC, vide letter no. J-11015/217/2013-IA.II (M) dated 14.10.2013.

The total lease area of the project is 54.68 ha. No forest land is involved. Letter of Intent (LOI) has been issued by Department of Mines and Geology vide letter no. SME/Jodhpur/CC/Barmer/Tender/2012-13/2896, dated 18/02/2013 for the period of 5 year. Mining Plan and Progressive Mine Closure Plan is approved by office of the Superintending Mining Engineer, Dept. of Mines & Geology, Jodhpur Circle, Jodhpur (Raj.) in favor of Shri Paras Sethi vide letter no. SME/JO/CC/ Bar/Minor/ Bajri/ML No.25/2012/11762 dated 05-08-2013.

Method of mining is semi-mechanized opencast. Excavation will be carried out up to a maximum depth of 3.0 meters from surface of deposit and not less than one meter from the water level of the River whichever is reached earlier. The total water requirement is 5.0 KLD including water demand for domestic purpose, dust suppression and green belt development which will be sourced from nearby village with proper permission from the Gram Panchayat. Project Proponent reported that Workers will be provided dust mask, safety boot, helmet and other safety equipment. A well- equipped first aid station will be maintained at mine site. Medical check-up of the workers will be done. The mineral will be transported by existing road network, The traffic survey carried out reveals that 80 trucks (Considering both loaded & unloaded trucks) will be deployed per day which increase 920 PCUs per day and the level of service (LOS) remains up to "A". Village road will be repaired regularly and maintained in good condition. A supervisor will be deployed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5m of the width of the River from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45m on either side of the structure/ bridge. Project Proponent reported that there will be temporary rest shelters during operational phase.

Project Proponent reported that No National park, Tiger/Elephant corridors, and migratory route for birds within the study area. No rare endemic, endangered species and threatened species of flora are found within the study area. State Government of Rajasthan, vide letter No. ME/Bar/Bajri/ML/25/12/793, dated 12.05.2014, has confirmed that the lease does not fall in Aravalli Hill Range. Two Schedule-I species Indian Peafowl (*Pavocristatus*) and Chinkara (*Gazellabennettii*) are found in the study area and their Conservation Plan has been prepared and submitted to the Deputy Conservator of Forest, Barmer on 29.12.2014 which is under approval.

The Baseline data was generated for the period during October to December-2013. All parameters for air, water and noise were within the permissible limits. No R&R plan is

applicable for this project as the mine lease area lies entirely on the river bed. Public Hearing was conducted at 03.00 PM on 17.07.2014 in the premises of Shri Vankal Viratra Temple, Viratra, village & Post: Dhok, Tehsil: Chohtan, District: Barmer. The Public Hearing was presided over by Shri Harbhan Meena, Additional District Collector, Barmer. The representatives from the Rajasthan 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, effective implementation of measures to control of dust pollution, conservation measures, social and other development activities and not to harm nearby fields. Project Proponent has made the action plan with budgetary provisions. The Committee deliberated and is of the view that PP needs to implement the action plan and the Implementation Report has to be submitted to the Regional Office of the MoEFCC every six months.

Total cost of the project is Rs. 50 Lakhs. The Project Proponent has earmarked Rs. 17.30 Lakhs towards implementation of EMP cost. Rs. 5.50 Lakhs per year towards CSR activities and Rs. 0.40 Lakhs per year under for OHS. Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of 3890 MT of Bajri has been mined out from January 2014 to March 2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri (Minor Mineral) with proposed production capacity of **2.52 Lakhs TPA (ROM)**.

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining

lease; and (viii) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.19). Mining of Bajri (Minor Mineral) on Luni River bed with proposed production capacity of 25.2 Lakhs TPA (ROM) by Lessee Shri Raman Sethi, located at Village (s) of Tehsil-Pachpadra, District-Barmer, Rajasthan (MLA 3056.6181 ha) (Consultant: Enviro Concept (I) Pvt. Ltd.)- Consideration of EC

The Proposal of Lessee Shri Raman Sethi is for mining of Bajri (Minor Mineral) with production capacity of 25.2 Lakhs TPA (ROM). The mine lease area is located near village(s)-Bithuja, Bhimarlai, Bajawas, SodhokiDhani, Golsodha, Kitnod, Jasol, Balotara, Saran, SinliJagri, BhindaKurna, Khed, Bhandawas, Bamsin, Temawas, Shobhawa, Tilwara, Borawas, Than Malinath, Kapuriya&Kanana (total 21) Tehsil: Pachpadra, District: Barmer, Rajasthan. The lease area falls on survey of India Topo sheet no 450/13, 45C/1, 45C/2, 45C/5, 45C/6 and Block 1 coordinates 25°46'56.7" To 25°47'01.4" N , 72°22'47.6" To 72°24'01" E, Block 2 25°47'31.5" To 25°48'20.1" N , 72°20'2.7" To 72°21'00.8" E, Block 3 25°48'19.3" To 25°49'0.6" N, 72°15.5'3.8" To 72°17'11.2" E, Block 4 25°51'17.4" To 25°52'2.6" N, 72°04'12.7" To 72°06'23.2" E , Block 5 25°49'37.2" To 25°50'53.8" N, 72°00'41.1" To 72°01'49.7" E.

The EC Proposal was earlier placed in the EAC in its meeting held during May 27-29, 2015 wherein the Committee 333deferred the proposal as the Proponent requested to defer the proposal indicating their inability to attend the meeting. Now, the Proposal is again placed in this meeting.

The proposal was considered by the Expert Appraisal Committee in its 10th meeting held during 21st -23th August, 2013 to determine the terms of reference (TOR) for undertaking detailed EIA.TOR has been issued by MOEF&CC, vide letter no. J-11015/213/2013-IA.II (M) dated 14.10.2013.

The total lease area is 3056.6181 ha. No forest land is involved. Letter of Intent (LOI) has been issued by Department of Mines and Geology vide letter dated 27.02.2013 for the period of 5 years. Mining Plan was approved by SME, Dept. of Mines & Geology, Jodhpur Circle, Jodhpur (Raj.) vide letter no. SME/JO/CC-2/Bar/Minor/Bajri/ML No.23/2012/11735, dated 05.08.2013. Method of mining is semi-mechanized opencast. Excavation will be carried out up to a maximum depth of 3.0 meters from surface of deposit and not less than one meter from the water level of the River whichever is reached earlier. Excavation will be done only during day time and completely stopped during monsoon season. The total water requirement is 10.0 KLD for dust suppression, green belt development & domestic purpose, which will be sourced from nearby villages with proper permissions from the Gram Panchayat.

Project Proponent reported that workers will be provided dust mask, safety boot, helmet and other safety equipment. A well- equipped first aid station will be maintained at

mine site. Medical check-up of the workers will be done. The mineral will be transported by road. Proponent has reported that the village roads will be repaired and maintained regularly in consultation with local authorities and villagers. A Supervisor will be deployed to regulate traffic management near the site. Speed breakers and signage will also be maintained at sensitive places.

Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5m of the width of the River from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45m on either side of the structure/ bridge. Project Proponent reported that there will be temporary rest shelters during operational phase.

Project Proponent reported that No National park, Tiger/Elephant corridors, and migratory route for birds within the study area. No rare endemic, endangered species and threatened species of flora found within the study area except two Schedule-I species Indian Peafowl (*Pavocristatus*) and Chinkara (*Gazellabennettii*) found in the study area. Proponent has prepared the conservation plan and submitted to concerned Authority on 29-12-2014 which is under approval. State Government of Rajasthan, vide letter No. 23/12/791, dated 12.05.2014, has confirmed that the lease does not fall in Aravalli Hill Range.

The Baseline data was generated for the period during October to December-2013 and additional one month of Ambient Air Quality in the month of May 2015 to be representative of whole study area. All parameters for air water and noise were within the permissible limits. No R&R plan is applicable for this project at this time. However, Private land will be required and suitable compensation will be given as per Govt. norms.

Public Hearing was conducted on 18.07.2014, at Sarvajanic Maidan, Near Sheetla Mandir, Gram-Kanana, Tehsil: Pachpadra, District: Barmer. The Public Hearing was presided over by Shri Bhanu Prakash Atru District Magistrate, Barmer. The representatives from the Rajasthan 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 priority to local people in employment, effective implementation of measures to control of dust pollution, conservation measures, social and other development activities and not to harm nearby fields. Project Proponent has made the action plan with budgetary provisions. The Committee deliberated and is of the view that PP needs to implement the action plan and the Implementation Report has to be submitted to the Regional Office of the MoEFCC every six months.

Total cost of the project is Rs. 72 Lakhs. The Project Proponent has earmarked Rs. 26.90 Lakhs towards cost for Environmental Protection Measures [Rs. 21.20 Lakhs as capital cost and Rs. 5.70 Lakhs as annual recurring cost]. Project Proponent has earmarked Rs. 24.0 Lakhs for socio economic welfare measures for nearby villagers other than R&R plan. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of 2,90,221 MT of Bajri has been made during

December 2013 to March 2014 and 10,98,752 MT during April 2014 to March 2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri (Minor Mineral) with proposed production capacity of **25.2 Lakhs TPA (ROM)**.

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; and (viii) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

Consideration of Terms of Reference

(2.20). Expansion of Dolomite from 0.156 Million TPA to 0.75 Million TPA (ROM) by M/s Andhi Marble Private Limited, located at Village Rayanwala, Tehsil- Jamwa Ramgarh, District- Jaipur, Rajasthan (MLA 55.8064ha) (Consultant: J.M. EnviroNet Pvt. Ltd.) - TOR

The Proposal of M/s Andhi Marble Pvt. Ltd. is for expansion of dolomite mine with proposed production capacity of 0.75 Million TPA (ROM) (from 0.156 Million TPA now) in the mine lease area of 55.8064ha. The mine lease area is located near Village- Rayanwala, Tehsil- Jamwa Ramgarh, District- Jaipur, Rajasthan. The mine site falls on Survey of India Toposheet no.- 54 A/ 4. The Latitudes of mine lease are 27°04' 32.3" N to 27°04' 56.8" N and Longitude: 76°10'52.08" E to 76°12'16.4" E.

Total Mining Lease Area comprises of Govt. waste land. The Mining Lease was granted by Govt. of Rajasthan for Soapstone & Dolomite in favor of M/s Rajasthan Khanij Agency over an area of 103.42 ha on 23.07.1970. The first renewal of the lease was sanctioned in favor of M/s. Rajasthan Khanij Agency vide order F 2(41) Mines/Group-2/89, dated 20th May, 1992 for the period from 23rd July, 1990 to 22nd July, 2000. The Jamwa Ramgarh Wildlife Sanctuary is located at a distance of ~100 m from the mine site. There are 12 Reserved Forests and 3 Protected Forests falling within 10 km radius of the mine site. Mining lease was transferred to M/s Andhi Marble Pvt. Ltd., vide order number DMG/JP/CC-4/F. 1(1)/5/89/30-39, dated 14th February, 1995. The 2nd renewal for the period of 23.07.2000 to 22.07.2010 was sanctioned vide order no.- F- 2 (41) Khan/ Group-2/ 89- Part- II dated 15.10.2003 for Dolomite (Marble) over an area of 55.8064ha. Project Proponent has informed that as per MMDR Ordinance 2015, the period of mining leases has been extended upto 22.7.2020.

Method of mining is open cast semi-mechanized and will be adopted with excavator, loader, cranes, wire saw and other sophisticated machinery. Loading of mineral into trucks is being/will be done by hydraulic loaders and cranes. Drilling will be done on regular basis. Total water requirement after the proposed expansion will be 55 KLD which will be sourced from mine sump. Drinking water will be sourced from nearby villages. Total manpower requirement for the proposed expansion is 320 persons. Total cost of the Project is Rs. 85 Crores. There is no Court case/litigation pending against the project. The Project Proponent requested to start the collection of baseline data from post monsoon season i.e. October, 2015 to December 2015. The Committee accepted the request of Project Proponent

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

(2.21). Building Stone quarry with proposed production capacity of 4.5 Lakhs TPA by M/s Wimrock Granite Pvt. Ltd., located at Vadasserikkara Village, Ranni Taluk, Pathanamthitta, District, Kerala (7.8541 ha)- TOR

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

Day 2: 23rd SEPTEMBER, 2015 (WEDNESDAY)
CONSIDERATION OF EC PROPOSALS

(2.22)J-11015/370/2010-IA.II (M) Sand, Gravel quarry of M/s Department of industries and Commerce, Village & Tehsil Phillour, District Jalandhar, Punjab (13.06 ha)(Consultant: Grass Roots Research & Creation India (P) Ltd).

The proposal of DIC, Punjab is for collection of river bed sand from the River Satluj with proposed production capacity of 1.17 lakh TPA (ROM). The mining lease area is located in Village: Phillour Taluka: Phillaur, District: Jalandhar, Punjab. The proposed activity will be carried out in the bed of the River Satluj, between Latitude 30°59'53.46"N to 31° 0'13.56"N and Longitude: 75°51'13.25"E to 75°51'36.70"E and is included in the Survey of India

Toposheet No. 44M/16 & 43J/13. The MLA is 13.06 ha and it is a Category 'B' project as the area is less than 50 ha and no general conditions are applicable.

The proposal was submitted on 26th October, 2010. The ToR was issued by EAC, MoEF & CC vide letter No. J- 11015/370/2010-IA.II (M) dated 4th March, 2011, during its meeting held on December 22-24, 2010, as the State Level Authority (SEIAA) was not in place, therefore the proposal was considered at the Central Level in MoEF.

It was noted by the Committee that this is a Category 'B' project. The Committee **recommended** the transfer of the proposal to SEIAA, Punjab for further consideration as per EIA notification 2006.

(2.23) J-11015/361/2010-IA.II (M) Sand, Gravel quarry of M/s Department of industries and Commerce, Village Lassara, Tehsil Phillour, District Jalandhar, Punjab (22.40 ha)(Consultant: Grass Roots Research & Creation India (P) Ltd).

The proposal of DIC, Punjab is for collection of river bed sand from the River Satluj with proposed production capacity of 6.048 lakh TPA (ROM). The mining lease area is located in Village: Lassara Taluka: Phillaur, District: Jalandhar, Punjab. The proposed activity will be carried out in the bed of the River Satluj, between Latitude : 31° 0'34.19"N to 31° 0'52.52"N and Longitude: 75°55'31.82"E to 75°56'2.69"E and is included in the Survey of India Toposheet No. 44M/16. The MLA is 22.40 ha and it is a Category 'B' project as the area is less than 50 ha and no general conditions are applicable.

The proposal was submitted on 26th October, 2010. The TOR was issued by EAC, MoEF & CC vide letter No. J- 11015/361/2010-IA.II (M) dated 4th March, 2011, during its meeting held on December 22-24, 2010, as the State Level Authority (SEIAA) was not in place, therefore the proposal was considered at the Central Level in MoEF.

It was noted by the Committee that this is a Category 'B' project. The Committee **recommended** the transfer of the proposal to SEIAA, Punjab for further consideration as per EIA notification 2006.

(2.24) J-11015/371/2010-IA.II (M) Sand, Gravel quarry of M/s Department of industries and Commerce, Village Kadiana, Tehsil Phillour, District Jalandhar, Punjab (32.21 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd).

The proposal of District Industries Centre, Punjab is for collection of river bed sand from the River Satluj with proposed production capacity of 2.9 lakh TPA (ROM). The mining lease area is located in Village: Kadiana Taluka: Phillaur, District: Jalandhar, Punjab. The proposed activity will be carried out in the bed of the River Satluj, between Latitude 31°0'30.63"N to 31°0'49.95"N and Longitude: 75°52'19.52"E to 75°53'2.81"E and is included in the Survey of India Toposheet No. 44M/16. The MLA is 32.21 ha and it is a Category 'B' project as the area is less than 50 ha and no general conditions are applicable.

The proposal was submitted on 26th October, 2010. The TOR was issued by EAC, MoEF & CC vide letter No. J- 11015/371/2010-IA.II (M) dated 4th March, 2011, during its meeting held on December 22-24, 2010, as the State Level Authority (SEIAA) was not in place, therefore the proposal was considered at the Central Level in MoEF.

It was noted by the Committee that this is a Category 'B' project. The Committee **recommended** the transfer of the proposal to SEIAA, Punjab for further consideration as per EIA notification 2006.

(2.25) J-11015/270/2010-IA.II (M) Sand, Gravel Minor Mineral of M/s Department of Industries and Commerce, village Pandwala, District S.A.S. Nagar, Punjab (28.36 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd)

The proposal of DIC, Punjab is for collection of river bed sand from the River Ghaggar with proposed production capacity of 46,600 TPA (ROM). The mining lease area is located in Village: Pandwala Taluka: Dera Bassi, District: S.A.S Nagar, Punjab. The proposed activity will be carried out in the bed of the River Satluj, between Latitude 30°37'42.67"N to 30°37'58.01"N and Longitude: 76°52'44.49"E to 76°53'27.43"E and is included in the Survey of India Toposheet No. 43K/14. The MLA is 28.36 ha and it is a Category 'A' project due to the presence of interstate boundary Punjab and Haryana within 5 km.

The proposal was considered by EAC in its meeting held during August 25-27, 2010. The TOR was prescribed vide letter No. J- 11015/153/2010-IA.II (M) dated 28th February, 2011. It was noted that final EIA/EMP report was submitted online on 27.02.2015 before the expiry of TOR. The total mine lease area of the project is 13.06 ha. No forestland is involved. The method of mining is semi-mechanized, open-cast method without drilling and blasting. It is confined to collection of sand/gravel from the river bed and transporting the mineral by covered trucks. The Government of Punjab has approved the Mining Plan. The sand mining will be carried out up to a depth of 3 m bgl of the river bed or above groundwater level whichever is less. The proposed capacity is 1.4 lakh tonnes of sand (ROM). Approximately 186 TPD of sand will be transported. The area displays a plain terrain with general elevation ranging from 301 m to 305 m above mean sea level.

There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, and Wildlife Corridors, Tiger / Elephant Reserves (existing or proposed) etc. falling within 10 km of the mining lease area. Total water requirement for the project is approx. 2.13 KLD. Baseline data on Ambient Air Quality, Water Quality, Soil Quality and Noise Quality has been collected for pre monsoon i.e. March-May, 2011. The PP also submitted one month baseline data collected during May 2015.

The Public Hearing was held on 05.08.2014 and presided over by Smt. Poonamdeep Kaur, ADM, S.A.S Nagar. The issues raised during the Public Hearing were also considered and discussed during the meeting. The capital cost of the project is Rs. 38 lakhs and the annual cost towards the environmental protection measures is proposed as Rs. 5.12 lakhs.

This covers cost towards periphery development, environment care, plantation and social welfare etc. There is no court case related to the project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining Sand, Gravel Minor Mineral of M/s Department of Industries and Commerce, village Pandwala, District S.A.S. Nagar, Punjab (28.36 ha).

The Committee **recommended** additional specific conditions viz. (i) Transport of mineral will not be done through village; (ii) Project Proponent shall plant native plant species of Amla, Tamarind, Neem, Arjun, Bauhinia and other local species as suggested by villagers/specialist; (iii) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly; (iv) Implementation of the Recommendations of National Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (v) 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 sand extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals shall be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing shall be undertaken. The Proponent shall complete all the tasks as per the action plan submitted with the budgetary provisions during the Public Hearing; (vii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table; (viii) The pollution due to transportation load on the environment shall be effectively controlled & water sprinkling shall also be done regularly. Vehicles with PUC only shall be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; and (xi) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Punjab on the mentioned case".

(2.26) J-11015/192/2014-IA.II (M) Extraction of Sand, Bajri, Boulder (minor mineral) from Sobhan Khad(Swan Khad), a tributary of River Beas of M/s Anita Kumari located at Village Mauja Kotla Mohal, Ranoh, Tehsil Jaswant (T) District Kangra, Himachal Pradesh (14.25ha) (1,42,200 TPA)

The proposal of M/s Anita Kumari is for the mining of Sand, Bajri, Boulder from "Sobhan Khad (Swan Khad), a tributary of River Beas" with production capacity of 1,42,200

TPA. The mining areas are located at village(s)–Mauja Kotla Mohal, Tehsil - Jaswan, District – Kangra, Himachal Pradesh in mine lease area of 14.25 ha. The mining area lies in the bed of Beas River. The geographical limits of the mining area in river bed are from Latitudes- 31° 51' 49.19" N to 31° 52' 16.34" N Longitudes-75° 57' 5.82" E to 75° 57' 24.57" E. Toposheet No. of the area 44 M/13 with highest 431 m AMSL to lowest 418 m AMSL in River bed. The Project was considered as category A as it is located in the interstate border of Himachal Pradesh and Punjab.

The Proposal of TOR was considered by the Expert Appraisal Committee in its Meeting held on August 26th-27th, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF&CC vide letter no. J-11015/192/2014-IA.II (M), dated 8th October, 2014. The Letter of Intent has been issued by the Director of Mines and Geology, State Govt. of Himachal Pradesh, Shimla, vide letter no. Udyog-Bhu (Khani-4) Laghu-407/2009-8084 dated 19.11.2013. Mine Plan has been approved by Department of Mining & Geology, Himachal Pradesh vide letter no. Udyog-Bhu (Khani-4) Laghu-407/2009-12852 dated 22/2/2014.

Method of mining will be Manual opencast mining in river bed. Excavation on River bed will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier. No drilling and blasting shall be adopted. There will be no mining in river bed during monsoon season. Total water requirement will be 1.5 KLD which will be used in sprinkling, plantation and domestic purposes. Water will be supplied with the help of private water tankers from nearby villages. Mineral will also be transported through road.

Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at all the sensitive places. Project Proponent reported that there is Pong Lake Wildlife Sanctuary located within 10 km radius of the proposed mine, NBWL clearance as applicable needs to be obtained. There are one Schedule-I species namely Leopard (*Panthera Pardus*) and Six Schedule-II species namely Common langur, Rhesus Macaque, Jackal, Swamp lynx, Jungle cat & Indian Kobra found in buffer zone. The conservation plan has been approved by the Chief Wildlife Warden, Himachal Pradesh vide letter dated 08.09.2015.

The base line data of one Season (Post–monsoon) was collected from October- 2014 to December-2014. The parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent.

Public Hearing for the proposed Project was conducted on 17.04.2015 at 11:00 AM at Village-Ranoh, P.O-Kanpur, Tehsil-Jaswan, District-Kangra, H.P The Public Hearing was presided over by Sh. Rakesh Sharma, ADM, Kangra. 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, effective implementation of measures to control dust pollution, green belt development, social and other village development activities and

not to harm nearby fields. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that PP needs to implement the Action Plan and the Implementation Report has to be submitted to the Regional Office of the MoEF&CC every six months. The cost on environment protection measures will be Rs. 7.25 Lakhs. Project Proponent reported that there is a no Court case pending against the project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining Bajri, Boulder (minor mineral) from Sobhan Khad(Swan Khad), located at Village Mauja Kotla Mohal, Ranoh, Tehsil Jaswant (T) District Kangra, Himachal Pradesh with proposed production capacity of 1,42,200 TPA (ROM).

The Committee **recommended** additional specific conditions viz. (i) Transport of mineral will not be done through village; (ii) Project Proponent shall plant native plant species of Amla, Tamarind, Neem, Arjun, Bauhinia and other local species as suggested by villagers/specialist; (iii) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly; (iv) Implementation of the Recommendations of National Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (v) 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 sand extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing shall be undertaken. The proponent shall complete all the tasks as per the action plan submitted with the budgetary provisions during the Public Hearing; (vii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table; (viii) The pollution due to transportation load on the environment shall be effectively controlled & water sprinkling shall also be done regularly. Vehicles with PUC only shall be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; and (xi) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Himachal Pradesh on the mentioned case".

(2.27)J-11015/238/2012-IA.II(M) Amlor Khadar Sand/Moram Mining from River Ken (57.59 ha) of M/s Manoj Tiwari at Village Amlor Khadar, Tehsil, Banda, District, Banda, Uttar Pradesh State.

The Proposal of Amlor Khadar Sand/Morum Mining Project is for collection of river bed sand from the River Ken with proposed production capacity of 3,00,000 TPA (ROM). The mining lease area is located in Village: Amlor Khadar, Tehsil: Banda, District: Banda, Uttar Pradesh. The proposed activity will be carried out in the bed of the River Ken, between Latitude 25° 43' 36.73" N to 25° 44' 18.60" N and Longitude: 80° 21' 10.53" E to 80° 20' 59.24" E and is included in the Survey of India Toposheet No. 63C/6.

The Expert Appraisal Committee (EAC) for mining projects considered the project during its meeting held during 21-23, November, 2012. Based on the information contained in the documents submitted and the presentation made, the TOR was prescribed vide letter number J-11015/238/2012-IA.II (M) dated 9th January, 2014.

The mine plan is approved by Department of Mines & Geology, DOI, Uttar Pradesh, vide letter No. 1050/ Mine plan /15 dated 10/09/2015. The Mining Officer, Banda vide letter no. nil dated 30.09.2015 has clarified that the draft EIA report placed during public hearing dated 05.08.2014 and final mining plan has no material except few typographical and language changes. The proposed project is an open-cast mining project, confined to extraction of sand/moram from the proposed site. All the activities will be carried out by manual method i.e. excavation & loading the trucks/trolley/carrying vehicles will be done manually by the working people. There is no power requirement for the project as the mining will be done manually. Mining will be started at the farthest downstream end, moving upstream from there. At the cross section of the flood plain at the downstream end, the mining will be initiated from the middle of the cross section of the river bed. Mining will be done up to 3 meters in layers of 1 m each and opposite to stream flow which will avoid ponding effect. Mining will be done in such a way that the process of mining remains confined to the middle of the flood plain. To start with it may be covered with wooden plank or metal sheet if required to prevent any sagging. Having excavated that, the process will be continued to the flanks, alternating from one side to the other every time. After the first layer is excavated, the process will be repeated for the next layers.

It was reported by the PP that there is no Wild Life Sanctuary/Tiger Reserve/National Park/Schedule I species etc. within 10 km of the mine lease area. Total water requirement for the project is approx. 3.8 KLD. Baseline studies were carried out during 2014 (Mar-2014 to May-2014). All the parameters for air, water, soil & noise quality were reported to be within permissible limits. The public hearing for this project was held at Almor Kahder village, Dist-Banda, State- Uttar Pradesh on 28.11.2014. The public hearing was presided over by Shri Kripa Shankar Pandey, ADM, Banda district. The issues raised during the Public Hearing were also considered and discussed during the meeting.

The cost of the project is Rs. 32 lakhs and Rs 5.1 lakh is allotted for EMP implementation. This covers cost towards periphery development, environment care, plantation and social welfare etc. There is no court case related to the project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining Sand/Moram from River Ken over the mine lease area of 57.59 ha.

The Committee **recommended** additional specific conditions viz. (i) Transport of mineral will not be done through village; (ii) Project Proponent shall plant native plant species of Amla, Tamarind, Neem, Arjun, Bauhinia and other local species as suggested by villagers/specialist; (iii) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly; (iv) Implementation of the Recommendations of National Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (v) 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 sand extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing shall be undertaken. The proponent shall complete all the tasks as per the action plan submitted with the budgetary provisions during the Public Hearing; (vii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table; (viii) The pollution due to transportation load on the environment shall be effectively controlled & water sprinkling done regularly. Vehicles with PUC only shall be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; and (xi) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Uttar Pradesh on the mentioned case".

(2.28)J-11015/251/2012-IA.II (M) Bhuredi Sand /Moran Mining project of M/s Sri Dilip Kumar Singh for renewal of Mining lease for Sand/Moram extraction of 13,00,000 TPA (205.95 ha) Buredi & Buredi, Tehsil Banda, District Banda, Uttar Pradesh.

The proposal of Bhuredi-Duredi (Khand 12) is for collection of river bed sand from the River Ken with proposed production capacity of 13 Lakh TPA (ROM). The mining lease area is located in Village: Bhuredi-Duredi Tehsil: Banda, District: Banda, Uttar Pradesh. The proposed activity will be carried out in the bed of the River Ken, between Latitude 25° 28' 18.397" N to 25° 27'15.079" N and Longitude: 80° 18' 40.436" E to 80° 18' 7.003" E and is

included in the Survey of India Toposheet No. 63C07. The MLA is 205.95 ha and it is a Category 'A' project.

The proposal was considered by the Expert Appraisal Committee in its meeting held on 21-23 November, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued vide letter no. J-11015/251/2012-IA.II (M) dated 12th February, 2013. The mine plan is approved by Department of Mines & Geology, DOI, Uttar Pradesh, vide letter No. 1051/ Mine plan /15 dated 10/09/2015. The Mining Officer, Banda vide letter dated 30.09.2015 has clarified that the draft EIA report placed during public hearing dated 04.08.2014 and final mining plan has no material except few typographical and language changes. The proposed project is an open-cast mining project, confined to extraction of sand/moram from the proposed site. The operation will be manual with use of hand tools like shovel, pan, sieves, etc. Sand will be separated by sieving process. Excavation will be carried out up to a maximum depth of 1.5 meter. Total material handling in a year would be 13 Lakh TPA and the total reserve is calculated as 1,11,21,300 tonnes. The extraction of sand/moram material will be done only during the day time and completely stopped during the monsoon season. Mining will be done leaving a safety distance from the banks i.e. 15% of the width of the river will be left for bank stability from both the banks.

It was reported by the PP that there are no Protected Areas viz. Wild Life Sanctuary/Tiger Reserve/National Park/Schedule I species etc. within 10 km of the mine. Total water requirement for the project is approx. 4.56 KLD. Baseline studies were carried out during 2013 (Mar-2013 to May-2013). All the parameters for air, water, soil & noise quality were reported to be within permissible limits.

The public consultation for this project was held on at Dist-Banda, State- Uttar Pradesh on 4th December, 2014. Public hearing was presided over by Shri DS Pandey Additional District Magistrate. The issues raised during the Public Hearing were also considered and discussed during the meeting. The cost of the project is Rs. 80 lakh and Rs 5.51 lakh is allotted for EMP implementation. This covers cost towards periphery development, environment care, plantation and social welfare etc. There is no court case related to the project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining Sand/Moram from River Ken over the mine lease area of 205.95 ha.

The Committee **recommended** additional specific conditions viz. (i) Transport of mineral will not be done through village; (ii) Project Proponent shall plant native plant species of Amla, Tamarind, Neem, Arjun, Bauhinia and other local species as suggested by villagers/specialist; (iii) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly; (iv) Implementation of the

Recommendations of National Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (v) 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 sand extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The proponent shall complete all the tasks as per the action plan submitted with the budgetary provisions during the Public Hearing; (vii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table; (viii) The pollution due to transportation load on the environment shall be effectively controlled & water sprinkling done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; and (xi) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Uttar Pradesh on the mentioned case".

(2.29) J-11015/55/2014-IA-II(M) Mining of Mineral Boulder, Gravel and Sand (Minor Mineral) in the Mine of "Yamuna Nagar Unit2" with production capacity of 12 Million TPA (ROM) by M/s Astin Excavation & Mining Pvt. Ltd. located at Villages – Gorabani, District- Yamuna Nagar, Haryana (495.50 ha).

The proposal of M/s Astin Excavation & Mining Pvt. Ltd. is for mining of Boulder, Gravel & Sand (Minor Mineral) with proposed production capacity of 120 Lakh TPA (ROM). The mine lease area is located at District: Yamunanagar, Haryana. The mine lease area lies on river bed of River Fandi Rao, SombNadi and BoliNadi. The mine lease area consists of four blocks. The Latitudes and Longitudes of the Block YNR-4: Gorabani lies between 30°23'34.94"N to 30°21'34.94"N and 77°24'29.55"E to 77°23'18.00"E, Block YNR -5: Manakpur Block YNR -5: Manakpur 30°21'25.48"N to 30°19'48.17"N and 77°23'12.15"E to 77°23'35.06"E, Block YNR-6: Ranjitpur 30°26'57.02"N to 30°21'6.77"N and 77°20'45.87"E to 77°21'12.91"E, Block YNR-7: Pammuwala 30°28'9.48"N to 30°24'57.03"N and 77°16'3.28"E to 77°15'15.69"E on Survey of India toposheet numbers 53F/7, 53F/8(site), 53F/11, 53F/12. The Project is located in Seismic zone-III.

The proposal was considered by the Expert Appraisal Committee in its meeting held during 20-21st March, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by EAC vide letter no. J-11015/55/2014-IA.II (M) dated 5th May, 2014 and further amended on 14th July, 2015.

The project proponent made a Final EIA/EMP report with regard to compliance of TOR for mining of Boulder, Gravel & Sand with a capacity of 120 Lakhs TPA for an area of 554.13 ha. Later proponent has surrendered 58.63 ha of mine lease area due to the involvement of Forest Land. The revised LOI has been issued by Mines & Geology Department, Haryana on 5th October, 2015. The request for surrendering the Forest area has been accepted by State Government and reduced the area to 495.50 ha from 554.13 ha.

The mine plan is approved by Department of Mines & Geology, Haryana, Chandigarh vide letter No. DMG/HY/YNR-2/M.Plan/5800 dated 22/12/2014. The method of mining is by semi-mechanized, open-cast method without drilling and blasting. It is confined to collection of sand from the river bed and transporting the sand by covered trucks. The sand mining will be carried out up to a depth of 3 m bgl or above groundwater level whichever is less of the river bed. The proposed capacity is 120 lakh tones of Boulder, Gravel & Sand (ROM). The deposits occur in the bed of the river. It was reported by the PP that Kalesar Wildlife Sanctuary & Simbalbara Wildlife Sanctuary is located at a distance of 2.5 km and 7 km respectively. There is no requirement of water for industrial purpose. Total water requirement for the project is approx. 21.22 KLD. Baseline data on Ambient Air Quality, Water Quality, Soil Quality and Noise Quality has been collected for pre monsoon i.e. March-May, 2014.

The Public Hearing was held on 03.12.2014 and presided over by Sh. S.S Saini, Additional Deputy Commissioner, Yamunanagar. The issues raised during the Public Hearing were also considered and discussed during the meeting. The Capital Cost of the Project is 585 Rs. in lakhs, and Recurring Cost is 766.14 Rs in lakhs and the annual Capital Cost- 30 Rs. in lakhs, Recurring Cost- 15 Rs in lakhs towards the environmental protection measures. This covers cost towards periphery development, environment care, plantation and social welfare etc. There is no court case related to the project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining Boulder, Gravel and Sand (Minor Mineral) in the Mine of "Yamuna Nagar Unit2" with production capacity of 12 Million TPA (ROM) over the mining lease area of 495.50 ha.

The Committee **recommended** additional specific conditions viz. (i) Transport of mineral will not be done through village; (ii) Project Proponent shall plant native plant species of Amla, Tamarind, Neem, Arjun, Bauhinia and other local species as suggested by villagers/specialist; (iii) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly; (iv) Implementation of the Recommendations of National Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (v) 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 sand extraction and supply activity. Project Proponent shall

ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The proponent shall complete all the tasks as per the action plan submitted with the budgetary provisions during the Public Hearing; (vii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table; (viii) The pollution due to transportation load on the environment shall be effectively controlled & water sprinkling be done regularly. Vehicles with PUC only shall be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; and (xi) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Haryana on the mentioned case".

(2.30) J-11015/417/2013-IA-II(M) Rowale Bauxite Mine of M/s Ashapura Minechem Limited located at village Rowale Taluka Dapoli, Dist. Ratnagiri, Maharashtra (218.285ha) Expansion of Bauxite Mining from 2.5LTPA to 8.0 LTPA) Bhagavathi Ana Labs Pvt Ltd

The proposal is for expansion of Bauxite Mining from 2.5 LTPA of Bauxite to 8.0 LTPA from 218.285 ha Mine lease area located at Village-Rowale, Taluka Dapoli, District Ratnagiri in Maharashtra. The Survey No 15-21, 27-31, 34-35, 56-59, 69, 70 & 74 of Rowale Village. The latitude and longitude of the site are 73° 04'42.07"E to 17°54'41.77"N and 73° 06' 38.50" E to 17° 54'37.70"N.

The proposal was considered in the EAC meeting held during 16- 17th December 2013 and further considered in EAC meeting held during May 28th-30th, 2014. TOR was issued vide MoEF Lr. No J-11015/417/2013-IA.II (M) dated 15th July 2014. The Certified Compliance report of prior Environmental Clearance dated 31.10.2008 no. J-11015/274/2007-IA. II(M) was also submitted and discussed during the meeting.

The mine lease area is 218.285 ha which, is a private non-forest waste land. There is no forest land in the lease area. The Scheme of Mining with PMCP for years 2010 -11 to 2014 - 15 is approved vide IBM Lr No: MS/RTNG/GOA (MAH)/BX-50-SZ/325 dated 01/07/2011. The latest scheme of mining for the project is approved for 2015-16 to 2019-20 by IBM vide Lr. No MSH/MECH-84 (MAH)/GOA/2014-15 dated 20.07.2015.

The open cast mechanized mining method will be adopted to operate the lease area. Average depth of the pit is 6 mts and average height of the bench will be maintained up to 6 m depend upon the depth of bauxite deposit. Since, the maximum annual production is 8,00,000 tpa, the fully mechanized mining method will be followed during the plan. Mining Plan for production and development Bench will have slope angle of 65°. Access road will be

taken to the pit area. Pits will be roughly rectangular in shape and will have box like appearances after the excavation; 2-3 faces may be worked simultaneously for handling during present scheme period; however it is envisaged in future based on outcome of proposed exploration. Drilling / blasting combination will be adopted to loosen the ore. The operations involved are drilling by using 115 mm dia drilling machine, for drilling holes of 5 to 6 mts depth. Blasting will be done using slurry explosives in conjunction with delay detonators. Loosened ore will be excavated and loaded into the tipper by hydraulic excavator. Tipper will transport the ore to the processing plant. Ore will be crushed here. Processed ore will be loaded into trucks for destination. The Life of the mine is 12 years. The water requirement is estimated as 80 KLD, which will be sourced from Ground water.

It is reported by the PP that total Geological & inferred reserves are 11.618 million tonnes and mineable Reserves: 8.897 million tonnes. Conceptual mine development will be carried out in 155.21 ha, area for green belt will be 6.89 ha, roads will occupy 1.49 ha & statutory buildings will occupy 0.01 ha, Area for future development will be 54.88 ha. About 80 KLD of water will be required which will be sourced through Ground water.

It was reported by the PP that the surface topographical elevation is 320m MSL to 50m MSL. The water table in the locality is at a depth of 15- 20 m below the surface level within lease area. The mine workings are expected to reach to a depth of 6 m. 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. As per the survey carried out, no Schedule – I species is reported in the study area. The Baseline studies were carried out during post monsoon 2014 by M/s Bhagavathi Ana Labs Pvt. Ltd. All the parameters for air, water, and noise quality were reported to be within prescribed standards. The Public Hearing for the Rowale Bauxite Mine was conducted on 07.05.2015 at Mines office of Ashapura Minechem Ltd at Umbershet Village. The PH was chaired by Shri. B. Radhakrishnan, District Collector. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia, included that proponent should take road development and maintenance into consideration and villagers should be taken into confidence and employment should be given to locals instead of outsiders. As per the villager's requirements, it was informed by the PP that they would take care of local issues. These have been incorporated in the Project Plan with budgetary provisions.

The cost of the project is Rs 4.65 Crores. Capital budget for environmental protection measures is Rs57.50 lakhs and recurring cost is Rs 47.70 lakhs. Out of the above cost CSR cost: (Rs Lakhs: Capital Rs: 17.50 + Recurring Rs12.20). It was reported by the PP that there is no court case/litigation pending against the project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for expansion of production capacity from 2.5LTPA to 8.0 LTPA 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 shall be promoted and reducing use of explosives; (v) Concurrent reclamation of mined out areas shall be done; (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 shall be undertaken; and (vii) Implementation of Action Plan on the Issues raised during Public Hearing shall be undertaken.

(2.31) J-11015/418/2013-IA-II(M) Umbershet Bauxite mine of M/s Ashapura Minechem Ltd. located at village umbersher, Taluka Dapoli, District – Ratanagiri, Maharashtra (99.8619 ha),(Expansion of Bauxite mining from 2.26 LTPA to 5.0 LTPA)

The proposal is for expansion of Bauxite Mining from 2.26 LTPA of Bauxite to 5.0 LTPA from 99.8619 ha Mine lease area located at Village-Umbershet Taluka Dapoli, District Ratnagiri in Maharashtra. The latitude and longitude of the site are:

1	17°55'28.89"N	73°05'35.18"E
2	17°55'24.47"N	73°05'15.73"E
3	17°55'33.92"N	73°05'24.80"E

The proposal was considered in the EAC meeting held during 16-17th December 2013 and further considered in EAC meeting held during May 28th – 30th, 2014. Based on recommendation of EAC the TOR was issued vide MoEF letter No J-11015/418/2013-IA.II (M) dated 17th July 2014. The Certified Compliance of Prior Environmental Clearance dated 31.10.2008 no. J-11015/275/2007-IA. II (M) was also submitted and discussed during the meeting.

The mine lease area is 99.8619 ha which, is private non-forest waste land. There is no forest land in the lease area. Modification in Mining Plan is approved by IBM vide letter no. MP/MAN-568(MAH)/GOA/2004-05 Vol. II dated 09.05.2014. It is proposed to continue opencast mechanized method with drilling and blasting operation for the proposed production of 5.0 LTPA of Bauxite and the depth of the pit varies 3.75m to 6.1m along the plateau slope, with an average depth of about 5.5m. Single bench of height of 3.75 to 6.1m depending on the proved depth shall be maintained. The depth of bauxite mineralization varies from of 3.0 to 6.1m depth with average depth of 5.5m. Thus, within the pit there shall be only a single bauxite bench of average depth of 5.5m with the slope of bench around 70°. The gradient of level roads shall be kept at 1:16. The mining operations shall be carried out in single shift of 8 hours for 200 days in a year. The top soil encountered, if

any, will be stacked separately and utilized for afforestation purposes.

The anticipated life of the mine is 14 years. The water requirement is estimated as 50 KLD, which will be sourced from Ground water. It is reported by the PP that Total mineable Reserves are 7.739 million tonnes. Conceptual mine development will be carried out in 78.7974 ha, area for green belt will be 4.6876 ha, roads will occupy 2.02 ha & statutory buildings will occupy 0.01 ha, Area for future development will be 14.3469 ha. It was reported by the PP that no overburden waste will be generated; it is only top lateritic wastes (6.9%) which will be backfilled simultaneously. It was reported by the PP that the surface topographical elevation is 267m MSL to 162m MSL. The water table in the locality is at a depth of 15-20 m below the surface level. The mine workings are expected to reach to a depth of 6 m. 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. As per the survey carried out there are no Schedule – I species in the study area. The Baseline studies were carried out during post monsoon 2014 by M/s Bhagavathi Ana Labs Pvt Ltd. All the parameters for air, water, and noise quality were reported to be within prescribed standards.

The Public Hearing for the Umbershet Bauxite Mine was conducted on 07.05.2015 at Mines office of Ashapura Minechem Ltd at Umbershet Village. The Public Hearing was chaired by Shri. B. Radhakrishnan, District Collector-Ratnagiri Dist. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia, included that proponent should take road development and maintenance into consideration and villagers should be taken into confidence and employment should be given to locals instead of outsiders, blasting operations to be taken care off, indiscriminate use of plastic to be avoided and community developmental works to be undertaken. As per the villager's requirements, it was informed by the PP that they would take care of local issues. These have been incorporated in the Project Plan with budgetary provisions.

The estimated cost of the project is Rs. 3.00 Crores. Capital budget for environmental protection measures is Rs. 49 lakhs and recurring cost for the environmental protection measures is Rs 30 lakhs. It was reported by the PP that there is no court case/litigation pending against the project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for expansion of production capacity from 2.26 LTPA to 5.0 LTPA 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 shall be promoted and reducing use of explosives; (v) Concurrent reclamation of mined out areas shall be done; (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 shall be undertaken; and (vii) Implementation of Action Plan on the Issues raised during Public Hearing shall be undertaken.

(2.32) J-11015/120/2011-IA.II (M) Chilhati Lime Stone mine of M/s SKS Cement Limited (A subsidiary of SKS Ispat & Power Ltd) located at Bilaspur District, Chhattisgarh.

The proposal of M/s SKS Cement Limited is to open new captive lime stone mine with a capacity of 2.25 MTPA at villages Chilhati, Loharabore, Sukulkari, Godadih MN 1, Belha, Bhurkunda, Bilaspur district, Chhattisgarh and an integrated cement plant production capacity of 3.0 MTPA, clinkering capacity of 1.4 MTPA, coal washery capacity of 0.96 MTPA and a captive power plant of capacity 40 MW (2x20 MW) at Patadih Village (Semradih Panchayat), Masturi Tehsil, Bilaspur District, Chhattisgarh State. The capital cost of the proposed mine is about Rs. 150 Crores. The lease area lies between Latitudes No 21°47'30" N to 21°49'00" N Longitude: 82°17'30" E to 82°19'30" E respectively MSL: 248 – 259 m above msl.

The proposal was considered in EAC meeting was held during 21st-23rd June, 2011 for determining TOR for the preparation of EIA/EMP report. The TOR was issued vide letter No. J-11015/120/2011-IA II (M) dated 29th July 2011. The proposal for extension of validity of TOR was submitted by the project proponent which, was considered by EAC during 22nd – 24th July 2013 and accordingly one year TOR validity extension was granted on 16th September 2013. The validity of TOR was extended from 29.07.2013 to 28.07.2014. Public hearing was conducted on dated 25 July 2014 and the final EIA/EMP report was submitted by the project proponent on 08.12.2014. The Committee considered the proposal for grant of EC in its meeting held during January 15-16, 2015 and during the meeting it was observed that the public hearing was completed well within the validity of TOR but the final EIA/EMP was submitted after the expiry of validity of TOR. Hence EAC members advised the project proponent to apply for extension of validity of TOR as per MoEF circular no. No.J-1013/41/-IA-II (I) dated 07.11.2014 for the period of 29.07.2014 to 28.07.2015. Further project proponent again applied for extension of validity of TOR which was considered by the Expert Appraisal Committee in its meeting held during March 16-18, 2015. The project proponent informed that the submission of final EIA report was delayed due to delay in conducting the public hearing due to land issues. The report covers the primary data collected from October 2011 to December 2011 therefore the fresh baseline data for the period 1st March 2015 to 31st May 2015 was also collected. After incorporating the fresh baseline data the Final EIA/EMP report was submitted at MOEF on 11th July 2015.

Out of the total ML area of 299.751 ha, 215.77ha is barren land (Government land 65.687 Ha, private land 149.590 ha & 84.474 ha (Chhote Bade Jhad Ke Jungle Revenue

Forest). PP reported that there are no notified protected areas as per wildlife protection Act within 10 km radius of Mine lease area. The water requirement of 150 m³/day for initial stage will be met from Sheonath River located at about 5.0 Km in south- Southwest direction from the site and as the mining starts the requirement of water will be met from seepage water as well as Rain water harvesting.

The rating capacity of the proposed mine is 2.25 MTPA and will be operated on mechanized open cast method. Mineable reserves as per the mine plan are about 115.91 MT of total 127.24 MT geological reserves. The overburden generated for first five years will be about 1,80,000 m³ with a stripping ratio of 1:0.055 (LS to OB). The working depth of the mine is 24 m. The life of the mine is 50 years. Mining Plan has been approved by Indian Bureau of Mines vide letter no. 314(3)/2008-MCCM(CZ)/MP-51 dated 19.06.2009. Forest land clearance application has been filed and registration code is allotted by CCF on 7th June 2011. The land acquisition application has been filed with Collector Office and is under process. The public hearing was conducted on 25th July, 2014 at village Pataidih, Masturi, Chhattisgarh. The Public Hearing was presided over by Additional Collector, Bilaspur. The issues raised during the Public Hearing were discussed by the EAC the major issues, inter alia, included the issues of land acquisition, employment, pollution, education, health, electricity, water, road etc. The action plan on public hearing was also submitted by the PP. The estimated cost of the project is 150 Crores.

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 the mining will intersect the ground water table therefore permission of CGWA shall be submitted;
- (b) The lease involves land acquisition. 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) The Stage-I forest clearance of the forest area involved in the mining lease shall be submitted; and
- (e) Revised Questionnaire needs to be submitted.

RECONSIDERATION OF ENVIRONMENT CLEARANCE

(2.33)J-11015/72/2010-IA-II(M) Enhancement of production of Saruabil Chromite Mines from 0.136 million TPA to 0.35 million TPA of M/s Misrilall Mines Pvt. Ltd. located in village Saruabil in Tehsil Sukinda, District Jajpur of Odisha State (246.858 ha)

The proposal is for enhancement of production of Chromite Ore in Saruabil Chromite Mines from 0.136 million TPA to 0.35 million TPA along with beneficiation plant as well as 3rd renewal of Mining Lease of M/s Misrilall Mines Pvt. Ltd. The mine is spread over in villages Saruabil, Kamarda and Talangi in Sukinda Tehsil under Jajpur district of Odisha. The Area falls in survey of India Toposheet No. 73G/16 and bounded by Latitudes 21^o 01' to 21^o 05' N

and Longitudes 85⁰45' to 85⁰50' E.

The proposal was earlier considered by the Expert Appraisal Committee in its meeting held during April 28-30, 2010 to determine Terms of Reference (TORs) for undertaking detailed EIA study. The TORs were issued by the MoEF vide letter no. J-11015/72/2010-IA.II (M) dated 31st May 2010. The Proponent submitted its application to the Ministry for seeking environmental clearance after conducting Public Hearing. The Committee noted that the TOR had expired on 30.05.2012 and PP had applied for extension but matter was not taken up by the Committee due to oversight; therefore the proposal was considered keeping in view the fact that PP had submitted EIA report prior to the outer validity of 3 years i.e. 30.05.2013 The project proponent made a presentation with regard to compliance of TORs for mining of Chromite Ore.

The mining lease area is 246.858 ha which includes 224.633 ha of forest land and 22.225 ha non-forest land. Forest clearance for 224.633 ha has been obtained vide MoEF letter no. 8-100/95-FC dated 16.01.2007. Mine Plan has been approved by IBM vide letter No. 314(3)/2009-MCCM (CZ)/MS-50 dated 31/05/2010. The life of the mines is 9 years. Project Proponent informed that the said Mine had earlier obtained Environmental Clearance for production capacity of 0.136 million TPA from MoEF vide letter no. J-11015/7/2007-IA.II (M) dated 15th February, 2009.

The mining is by open cast mechanized method on double shift basis during the proposed plan period. The existing 20 TPH Beneficiation Plant is proposed to be expanded to 30 TPH. The process being wet, no dust will be generated during the processing of ore. However, dust generation is anticipated during dumping and truck movement, which will be suppressed by sprinkling of water at regular interval using a water tanker on haul-road. The permission for ground water drawl of 350 KLD, has been obtained from Central Ground Water Authority, Govt. of India, Ministry of Water Resources, New Delhi, vide letter no. 21-4 (73)SER/CGWA/2008-1300 dated 24.10.2008. The PP informed that the mine will intersect the ground water and the Hydro Geological study has been carried out. From the field investigation and well inventory studies carried out, it has been revealed that the depth of water table over the larger parts of the valley area lies between 3 to 6 m.

PP reported that there is no Wild Life Sanctuary, National Park, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves Schedule - I species within 10 kms of the mine lease area. However, the Committee was of the view that as MLA has major forest area and therefore, the information provided by PP needs to be re-assessed and fresh primary data of flora and fauna of study area to be carried out by subject area specialist and submitted.

Baseline data was generated for the Post Monsoon season (September-November, 2011). All the parameters for water & air quality were seen to be within permissible limits. Public Hearing was (PH) was conducted on 29.01.2013 under the Chairmanship of Sri Chakrayudha Hota, Additional District Magistrate, Kalingnagar, Jajpur and the representative of Regional Officer, State Pollution Control Board, Odisha were present. The issues raised during the Public Hearing were discussed during the meeting which inter-alia, included Treatment of mine drainage water, groundwater depletion and provision of Rain Water

Harvesting, Over Burden (OB) dump management, Deforestation, Peripheral development i.e. education, health, drinking water supply & employment etc. As per the villagers requirement, PP informed that all issues have been taken care of and will be continued to be taken care of during expansion.

The cost of project is Rs. 900.00 Lakhs only for expansion project and budget for EMP is Rs. 201.47 Lakhs. The developmental activities under CSR activities in the surrounding villages for the year 2008-09 to 2012-13 were worth Rs.184.230 Lakhs. There is no Court Case/litigation pending against the project.

The proposal was considered by EAC in its meeting held during August 21st-23rd, 2013. The Committee sought the following additional actions/information:

- (i) Fresh primary data of flora and fauna of study area to be carried out and certified by the State Government.
- (ii) An additional monitoring station for ambient air quality may be set in the East direction of the mine lease area and confirmed in writing; and
- (iii) Action plan on the issues raised during Public Hearing with budgetary provisions be prepared in a tabular Form and submitted;

The proposal was considered in the EAC meeting held during 27-28 October, 2014 it was noted that the list of flora and fauna of study area were not certified by the State Government. After deliberations, the Committee desired that the Proponent shall furnish the following information/clarification for further consideration by the Committee:-

- (i) Data of flora and fauna of study area should be certified by the Subject Specialist.
- (ii) The mine lease has entered third renewal and presently there is no valid mine lease. The documents of valid mine lease shall be submitted.
- (iii) The morbidity test in respect to Cr⁶ shall be done and report submitted as agreed by the PP.

On submission of information the proposal was considered in the present meeting the Committee deliberated on the information submitted by the PP and **recommended** the proposal for grant of environmental clearance subject to submission of valid lease documents.

CONSIDERATION OF TOR PROPOSALS

(2.34)J-11015/179/2009.IA-II (M) Kavdoli Bauxite Mine (ML area 55.79 ha and expansion from 18,000 to 2,00,000 TPA of Bauxite) of M/s Shri Dinesh Trikanand at Village-Kavdoli, Taluka Dapoli, District Ratnagiri, Maharashtra

The proposal is for enhancement of Bauxite ore production from 18,000 TPA to 2,00,000 TPA (M.L. area 55.79 ha) located at Village-Kavdoli, Taluka Dapoli, District Ratnagiri in Maharashtra. The latitude and longitude of the site is N 17^o 54'37.7" & E 73^o 06' 38.5". The mine lease area is 55.79 ha which is private non-forest waste land. There is no

forest land in the lease area. The mining plan for the project is approved by IBM vide Lr. No MSH/MECH-83(MAH)/GOA/2014-15 dated 02.07.2015.

It is proposed to work this deposit by mechanized opencast mining method using drilling and blasting. The average depth of the pit will be 6m. There will be only one bench with slope angle of 65°. No overburden is present in the mine lease. Anticipated life of the mine is 28 years. The water requirement is estimated as 45 KLD, which will be sourced from Ground water. The water table in the locality is at a depth of 15 - 20 m below the surface level within lease area. The mine workings are expected to reach to a depth of 4 - 6 m from top. 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. As per the survey carried out there are no Schedule - I species in the study area.

The estimated cost of the project is Rs. 3.10 Crores. It was reported by the PP that there is no court case/litigation pending against the project. Based on the information furnished and presentation made by the PP and discussions held, the Committee **prescribed** the TORs as per Annexure-I.

(2.35)J-11015/254/2015-IA-II(M) Mining of Sand (minor mineral) of M/s Routes & Journeys located at Village Bir Tapu, District Yamunanagar, Tehsil Jagadhri Block/YNR B 7, Haryana, (14.45 Ha.)

The Proposal is for Sand (minor mineral) mining from Yamuna (river) proposed By M/s Routes & Journeys located at Village Bir Tapu, District Yamuna Nagar, Tehsil Jagadhri Block/YNR B 7, Haryana. The mining lease area is 14.45 ha, the proposed production is for 6,15,000 TPA. The Geographical Co- ordinates for the mine site are Latitude- 32° 06' 46" to 30° 06' 56" N & Longitude-77°23'40" to 77°24'06" E. The Project is category 'A' project due to the location of interstate boundary of Haryana-Uttar Pradesh at a distance of 0.1 Km from the mine lease area.

The total Mine lease area is 14.45 ha. Method of mining will be open cast and semi mechanized. No mining would be permissible in a river-bed up to a distance of five times of the span of a bridge on up-stream side and ten times the span of such bridge on down-stream side, subject to a minimum of 250 meters on the up-stream side and 500 meters on the down-stream side. LOI has been granted to M/s Routes & Journeys by District Mining Officer, Chandigarh, Haryana vide memo no. No. /HY/cont/ B.Tapu Block/YNR B 7/2015/3921 dated 19.06.2015 for the period of 07 years.

Geological reserves is 8,67,000 MT. The National Highway NH-73 is 6.22Km in SW direction from the mine site. The highest and lowest elevation in the area is 272m AMSL and 269m AMSL creating a level difference of 3.0m. It was reported by 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 of the proposed project is Rs. 19.25 Crore.

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 following: (i) Replenishment and drainage study from a 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) 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.

AMENDMENT OF ENVIRONMENT CLEARANCE

(2.36)J-11015/12/2000-IA. II (M) Mining of Chromite ore in village Kalipapani, tehsil Sukhinda, district jaipur Orissa of M/s Jindal Strips Ltd.

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

(2.37)J-11015/393/2008- IA. II (M) Mining and processing of Gold Ore ROM 0.4 MTPA and Ore Processing Plant of 0.3 MTPA of M/s Geomysore Services (India) Pvt. Ltd. located at jonnagiri Village, Tuggali Mandal, Kurnool District, Andhra Pradesh

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

(2.38)J-11015/407/2008-IA.II(M) South Kaliapani Chromite Mining Project of M/s The Orissa Mining Corporation Limited located in Village (s) Kaliapani, Gurujangpal, Sukurangi and Saruabil, Tehsil Sukinda, District Jajpur, Orissa.

The proposal is for amendment of Environment clearance of south Kaliapani Chromite mining project, Chromite Ore mining [1.40MTPA] and area [552.457ha). The project is located at village (s) Kaliapani, Gurujangpal, Sukurangi and Saruabil, Tehsil Sukinda, District Jajpur, Odisha. The environmental clearance was granted in 2010 vide no. J-11015/407/2008-IA.II(M) dated 20th July 2010. Amendment of EC is requested for 'Shifting of Tailing Pond' area, the proposed new tailing pond ensures: Life time sufficiency of tailings containment, no risk to local community /habitant. Better safety of dyke structure as no risk if collapse of OB dump. Tailings shall be treated for Cr+6 COB plant itself before transporting to the tailing pond. It was informed by the PP that the changed location is already approved by IBM in the Scheme of mining.

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

- i. Certified compliance report of prior Environmental Clearance from RO, Bhubaneswar; and
- ii. Geological Maps of the area shall be submitted.

(2.39)J-11011/1170/2007.-IA.II(I) Integrated Cement Plant (Clinker, 3.0 MTPA, Cement 10.0 MTPA), Limestone mine (4.8 MTPA, 267.695 ha and 281.339 ha) and Captive Power Plant (40 MTPA) of M/s J.K. Lakshmi Cement Limited at Village Semaria, Ghikuria and nandani Kundani, Tehsil Dhamda, District Durg, Chhattisgarh.

The project of J.K. Lakshmi Cement Ltd. located at Village Semaria, Ghikuria and nandani Kundani, Tehsil Dhamda, District Durg, Chhattisgarh has been granted Environmental clearance vide F. No. J-11011/1170/2007-IA.II (I) dated 13th May, 2009. The proposal is for opening 2nd pit in mining lease (267.695ha) to facilitate use of low grade limestone (Mineral Conservation) for blending with high grade limestone to optimize life of mines.

The PP submitted that after analysis of the scout holes samples of both block –I & II. Blending ratio of present working pit of block –I & Block-II will be 70:30. The slight variation in blending ratio of Block-II is inevitable as per the ROM quality of Block-I. Opening of 2nd Pit is justified by utilization of low grade mineral which contains high silica & low lime, would result in huge Conservation. Development of two pits simultaneously will enhance the life of mine by about 2 years. The production capacity 4.8 MTPA of limestone will remain same. The proposal therefore is in the interest of mineral conservation, sustainable and scientific development of the mine and also in line with practices to use low grade limestone. The Committee deliberated at length and **deferred** the Proposal and sought the following information/clarifications for further consideration:-

- i. Certified compliance report of prior Environmental Clearance from RO, Nagpur; and
- ii. Revised mining scheme as per the amendment sought in the EC letter shall be submitted.

(2.40)J-11015/150/2008-IA.II (M) Budhwada Limistone mine (ML area 160.0 ha and production capacity 1.10 MTPA) of M/s Madras Cements limited at village budawada, Jaggayyapeta Taluk, Krishan District, Andhra Pradesh.

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

(2.41)J-11015/17/2009- IA. II (M) Expansion of Captive Rawan-Jhipan Limestone mine of M/s Grasim Industries ltd. located at village Rawan, Tehsil Simga, District Raipur Chhattisgarh.

The proposal is for change in of name the project was inadvertently placed in the meeting. The Committee was of the view that the proposal may be dealt on file in the Ministry as it is not a technical issue.

AMENDMENT OF TOR

(2.42)J-11015/194/2011-IA.II (M) River Bed Mining Project of Sand, Bajri and Stone (minor mineral) of M/s Smt. Roshni Devi, Village Androla Uparla and Androla Nichala, Tehsil Nalagarh, District Solan, Himachal Pradesh.

The Proposal of Smt. Roshani Devi is for Sand, Bajri & Stone (Minor Minerals) Mining with production enhancement from 30640 Tons/ Annum to 62600 Tons/ Annum (ROM) in the MLA of 19.6 ha. The mine is located at village Androla Uparla and Androla Nichala, P.O. & Tehsil Nalagarh, District Solan, Himachal Pradesh. The Latitude and longitude of the mine lease area are 31° 07' 54" to 31° 08' 32" and 76° 38' 12" to 76° 40' 12" respectively on topo sheet no. 53A/16 & 53A/12.

The proponent submitted the EIA/EMP Report to Ministry for seeking environment clearance after conducting public hearing. After Final submission of EIA-EMP Report ministry vide its letter J - 11015/194/2011 - IA.II (M), Dt. 09.01.2012 informed that, this is a violation case & it can be further processed only after when State Govt. has initiated credible action on the violation against the PP. The PP has submitted the Board Resolution in form of affidavit dated 20.10.2011 that such violation will not be repeated in future. The Mining Officer, Solan vide letter dated 07.08.2015 no. Udyog/SLN/MM/lease/2014-624 has informed that mining operations had been stopped w.e.f. since November, 2011. The prosecution report has been filed in the Court of Ld. Chief Judicial Magistrate, at Nalagarh District Solan, HP on 8.01.2015 vide Case No.PCB/148/M/s. Rama Stone Crusher/14-23746 to take cognizance of offence by the said court under section 15 of Environment (Protection) Act, which has been committed by the offending project and the same have been taken on record.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for one year i.e. **from 09.01.2015 to 08.01.2016.**

(2.43)J-11015/193/2011-IA.II(M) River Bed Mining Project of Sand, Bajri and Stone (minor mineral) of M/s Shri Lachmi Chand, Village Tikkari Bohri and Ambdahar, P.O. Lodhimajra, Tehsil Nalagarh, District Solan, Himachal Pradesh.

The Proposal of Shri Lachmi Chand is for Sand, Bajri & Stone (Minor Minerals) Mining with production enhancement from Up To 94500 Tons/ Annum (ROM) in the MLA of 17.92 ha. The mine is located at Village- Tikkari Bohari & Ambdahar, P.O.- Lodhimajra, Tehsil Nalagarh, District Solan, Himachal Pradesh. The Latitude and longitude of the mine lease area are 76° 37' 44' - 76° 37' 58' & 31° 12' 12' - 31° 12' 20' respectively on topo sheet no. 53A/11 & 53A/12. The TOR was issued on 30.04.2012.

The proponent submitted the EIA/EMP Report to Ministry for seeking environment clearance after conducting public hearing. After Final submission of EIA-EMP Report informed that, this is a violation case & it can be further processed only after when State Govt. has initiated credible action on the violation against the PP.

It was noted that it is a violation case as the mine lease renewal fell due in 2011. PP has submitted the Board Resolution in form of affidavit dated 21.02.2011 that such violation will not be repeated in future. The Mining Officer, Solan vide letter dated 07.08.2015 no. Udyog/SLN/MM/lease/2012-627 has informed that mining operations had been stopped w.e.f. since November, 2011. The prosecution report has been filed in the Court of Ld. Chief Judicial Magistrate, at Nalgarh District Solan, HP on 8.01.2015 vide Case No. PCB/148/M/s. Rama Stone Crusher/14-23746 to take cognizance of offence by the said court under section 15 of Environment (Protection) Act, which has been committed by the offending project and the same have been taken on record.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for one year i.e. **from 30.04.2015 to 29.04.2016.**

(2.44)J-11015/192/2011-IA.II(M) River Bed Mining Project of Sand, Bajri and Stone (minor mineral) of M/s Smt. Asha Rani Dang, Village Baddi Shitapur, Landewal, Kalyanpur & Kainduwal, Tehsil Nalagarh, District Solan, Himachal Pradesh.

The Proposal of Smt. Asha Rani Dang is for Sand, Bajri & Stone (Minor Minerals) Mining with production enhancement up to 132765 Tons/ Annum (ROM) in the MLA of 71.9312ha. The mine is located at River – Sirsa (villag- Baddi, Shitalpur, Landewal, Kalyanpur,Kainduwal), P.O. & Tehsil Nalagarh, District Solan, Himachal Pradesh.The Latitude and longitude of the mine lease area are 76° 45' 51''E to 76° 47' 27''E and 30° 54' 49''N to 30° 56' 35''N respectively on topo sheet no. 53 A /16 & 53 B /13

The proponent submitted the EIA/EMP Report to Ministry for seeking environment clearance after conducting public hearing. After Final submission of EIA-EMP Report ministry vide its letter J – 11015/192/2011 – IA.II (M), Dt. 01.05.2012 informed that, this is a violation case & it can be further processed only after when State Govt. has initiated credible action on the violation against the PP.

It was noted that it is a violation case as the mine lease renewal fell due in 2012. PP has submitted the Board Resolution in form of affidavit dated 17.01.2012 that such violation will not be repeated in future. The Mining Officer, Solan vide letter dated 22.09.2015 no. Udyog/SLN/MM/lease/2011-832 has informed that mining operations had been stopped w.e.f. since November, 2011. The prosecution report has been filed in the Court of Ld. Chief Judicial Magistrate, at Nalgarh District Solan, HP on 8.01.2015 vide Case No.PCB/148/M/s. Rama Ston Crusher/14-23746 to take cognizance of offence by the said court under section 15 of Environment (Protection) Act, which has been committed by the offending project and the same have been taken on record.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for one year i.e. **from 01.05.2015 to 30.04.2016.**

Day 3: 24th SEPTEMBER, 2015 (THURSDAY)

CONSIDERATION OF TOR PROPOSALS

(2.45) J-11015/258/2015-IA.II(M) Mining of Boulder, Gravel and Sand of **M/s Saharanpur Mines Management Services Pvt. Ltd.** located at Village - Mandewala Block/ YNR B-38, Tehsil- Chhachhrauli District - Yamuna Nagar, State - Haryana (15.00 Ha.) **IA/HR/MIN/29938/2015.**

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

(2.46). Sand, Bajri, Boulder mining from River Bed of Song with production capacity of 4,68,000 TPA (ROM) by M/s Uttarakhand Forest Development Corporation, located at Raipur forest range, Village – Saura- Saroli & Raipur, Tehsil & District - Dehradun, Uttarakhand (64ha) (Consultant: Mantec Consultants Pvt. Ltd., New Delhi)-TOR

The proposal of M/s Uttarakhand Forest Development Corporation (UKFDC) is for mining of Sand, Bajri and Boulder in the River bed of Song with production capacity of 4,68,000 TPA (ROM) of Sand, Bajri & Boulder in mine lease area of 64 ha. The mine lease area is located in Raipur forest range near Village – Saura- Saroli, Tehsil & District Dehradun, and Uttarakhand. The Latitudes of mine lease are 30° 18' 4.37" N to 30° 17' 27.32" N and 30° 17' 6.48" N to 30° 16' 27.54" N and Longitude: 78°07'6.45" E to 78° 07'2.37" E and 78°07'25.01" E to 78° 07'30.54" E on toposheet no 53 J 3, 53 J 4. The project is located in seismic zone-IV.

The proposed Project is an open-cast mine, confined to extraction of sand bajri and boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pan, sieves, etc. Sand will be separated from bajri and boulders by sieving process. Excavation will be carried out up to a maximum depth of 1.5 meter. Extraction of sand, bajri and boulder will be done only during day time In non-monsoon seasons only.

The lease area has been decided as per the letter of intent (letter no. 100/Khanan/LOI/FDC/Bhu-Khani-E/2014-2015 dated 15 April 2015. Life of mine is 5 years. The total water requirement is 10 KLD including water demand for domestic purpose, dust suppression & Green Belt development which shall be met by tanker supply. The total cost of project would be around Rs. 15 Lakhs Approximately.

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 a 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) 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.

(2.47). Chobe ki Guwari Sand Stone Mining Project of M/s Shri Bhoji Lal Jain is situated near village Chobe ki Guwari, Tehsil Sapotra, District Karoli, State Rajasthan 62.76 ha (M.L. No. 26R-01/2001)

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

(2.48) J-11015/288/2015-IA.II(M) Laterite Mine of M/s Pavan Kumar, located at Sy No: 473, Thattepally Village, Peddamul Mandal, Ranga Reddy District Telangana. (4.047 Ha). IA/TG/MIN/30024/2015

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

(2.49). Silon Salaiya Pyrophyllite Mine with proposed production capacity of 25,000 TPA (ROM) by M/s Khajuraho Minerals, located at Village Silon Salaiya, Tehsil- Bijawar, District- Chhatarpur, Madhya Pradesh (5 ha)- (Consultant :ENVIRTA Sustainable Solutions India Pvt. Ltd.)- TOR

The Proposal of M/s Khajuraho Minerals for Mining of Pyrophyllite with proposed production capacity of 25,000 TPA (ROM). The mine is located at Village –Silon Salaiya, Tehsil- Bijawar, District- Chhatarpur, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at 2.4 Km in South Direction to the Panna National Park. NBWL clearance is required for the project. The Geographical Co- ordinates for the mine site are Latitude- : 24⁰ 40' 18.6" to 24⁰ 40' 28.4" North & Longitude- : 79⁰ 46' 18.5" to 79⁰ 46' 30.3" East. The mine site falls on Survey of India Topo sheet no.- 54P/14.

The total lease area is 5.0 ha which is forests land. The ML area was previously sanctioned under mining lease for 10 years expiring on 11.04.2006. The lessee applied for renewal of mining lease for 20 years period under the provisions of Rule 24 of MCR 1960. The forest clearance was accorded by the Government of India, MoEFCC, vide letter no.:- 6-MPC022/2006-BHO/4371 dated 26.11.2007 and forest department vide letter no.:- D/4160/4454/2007/10-3, dated 24.12.2007. The State Govt. of Madhya Pradesh, vide order no.:-3-39/2008/12-1 dated 09.07.2008 renewed the ML area for 20 years period. Further, the Mines and Geology Department vide letter dated 30.04.2015 has extended the validity of mine lease upto 11.04.2046.

The operation will be opencast other than by fully mechanized method. The bench height is proposed at 6 meters and width will be 6 meter considering the semi mechanized workings. Blasting will be done as and when required. The transportation and overburden dumping is proposed by tippers /tractors. The ultimate depth of mining is up to 15m bgl. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 8 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The

total cost of the Project is Rs. 2 Crores. There is no Court case/ litigation 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**.

(2.50) J-11015/290/2015-IA.II(M) Sagasahi Iron and Manganese Mine of M/s Pradhan Associates Village -Sagasahi, Kashira & Ghodabhudni, Bonai Tehsil of Sundargarh District, Orissa. (484.750 Ha) IA/OR/MIN/30032/2015

The project was inadvertently placed in the agenda. The carrying capacity study of the area is pending therefore it was suggested that PP may consider applying after decision on carrying capacity study.

(2.51). Expansion of Captive Nimbeti Limestone Mines with proposed production capacity of 25.3 Million TPA (ROM) by M/s Shree Cement Ltd., located at near Village–Nimbeti & Jawangarh (from 19.6 MTPA), Tehsil – Jaitaran, District – Pali, Rajasthan. (750 ha)- TOR

The proposal of TOR was earlier appraised in the 35th EAC meeting held during June 24-26, 2015 wherein the Committee prescribed the TOR and accordingly the Ministry has issued the TOR vide letter No. J-11015/226/2015-IA.II(M) dated 11.08.2015. **The proposal was placed in this meeting inadvertently.**

(2.52). Parewar Limestone Mines with proposed production capacity of 2.4 Million TPA (ROM) and Overburden 0.85 million m³/annum (ROM) by M/s Lafarge India Pvt. Ltd., located at Village– Parewar SN-II, Tehsil and District– Jaisalmer, Rajasthan (M.L. Area- 832.0ha) (Consultant: J.M. EnviroNet Pvt. Ltd.)-ToR

The proposal of M/s Lafarge India Pvt. Ltd. is for Parewar Limestone Mine SN - II with proposed Limestone production capacity of 2.4 Million TPA (ROM) and Overburden 0.85 million m³/annum (ROM) in the mine lease area of 832.0ha. The mine lease is located in Village(s)–Parewar and Joga, Tehsil and District–Jaisalmer (Rajasthan). The Latitudes and Longitudes of the site are 27°19'26.5"N to 27°21'23.00"N and 70°40'41.5"E to 70°42'23.4"E respectively and study area falls within the Survey of India Toposheet No. 40 I/11, 40 I/12, 40 I/15 and 40 I/ 16.

Total mine lease area is 832.0ha. No forest land is involved in the lease area. Letter of Intent (LOI) has been obtained from the Government of Rajasthan, vide letter no. P.3 (144) Mine/Group-2/2014, dated 31st December, 2014. Method of Mining will be opencast mechanized using drilling and blasting forming benches of about 8 m and maintaining an overall pit slope of 45°. Limestone will be sent to the crusher for crushing and further use.

Total water requirement for the project is 90 KLD, which will be sourced from nearby villages. Total Manpower requirement for the project is 114 persons. There is no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife Corridor, Tiger/Elephant Reserve, within 10 km radius of the mine site. One protected forest (~9.5 km in SSE direction) exists within 10 km radius of mine site. Indira Gandhi Canal is present at a distance of approx. 7.5 km in North direction from the mine site. Total cost of the Project is Rs. 46 Crores. Capital Cost for environmental protection measures is Rs. 2 Crores and Recurring cost is Rs. 60 Lacs per annum. There is no litigation 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**.

(2.53)J-11015/293/2015-IA.II(M) Pathari Sand/Moram Mining Project of M/s Sh. Shivsaran Singh located at Village : Pathari Tehsil: Banda District: Banda State: Uttar Pradesh (83.08 Ha) IA/UP/MIN/30055/2015

The proposal of Pathari Sand Mining Project is for collection of river bed sand from the River Ken with proposed production capacity of 23, 85,000 TPA (ROM). The mining lease area is located in Village: Pathari, Tehsil: Banda, District: Banda, Uttar Pradesh. The proposed activity will be carried out in the bed of the River Ken, between Latitude 25°38.02.44"N to 25°36.44.93"N and Longitude: 80°18'12.62"E to 80°17'30.40"E and is included in the Survey of India Toposheet No. 63C06. The MLA is 83.08 ha and it is a Category 'A' project.

The proposed project is to mine Sand/ Moram from the proposed lease area. The mining is confined to extraction of Sand/Moram from the river bed. Sand/Moram Mining will be carried out only upto a depth of 3 m, using hand tools like shovel, pan, sieve etc. Mining will be carried out only during the day time. Extraction of river bed material will be completely stopped during the monsoon season.

It was reported by PP that there is no Wild Life Sanctuary/Tiger Reserve/National Park/Schedule I species etc. within 10 km of the mine lease area. Total water requirement for the project is approx. 10.49 KLD. The estimated cost of the project is Rs. 35 lacs. It was informed by the PP that there is no court case related to the project. The PP informed that the proposal was earlier considered in EAC meeting held during November 2012 (agenda 2.41) the proposal was considered as violation case. However, it is not violation case as per the order of Hon'ble High Court of Allahabad passed in writ Petition No. 9416(MB) of 2010, Md. Kausar Jah Vs Union of Indian & Others on 29.4.2011, mining of minor minerals was permitted upto 30.6.2011. The mine has not operated thereafter. The PP therefore requested for consideration of the Monitoring data period of March to May 2014 for the preparation of EIA report. The EAC agreed to the request of the PP.

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 a 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.

(2.54) J-11015/294/2015-IA.II(M) Hahaladdi Iron ore mine of M/s Monnet Ispat & Energy Ltd. located at Village – Hahaladdi Tehsil Bhanupratappur, Dist-Kanker (Chhattisgarh) (78.90 Ha) IA/CG/MIN/30056/2015

The proposed Hahaladdi Iron ore mine of M/s Monnet Ispat & Energy Ltd. will have a production of 0.15 MTPA. It will be a new open cast mine. Iron ore which will be extracted will be used in the Company's integrated steel plant at Mandir Hasaud, near Raipur. Applied mining lease area 78.90 Ha is located in the jurisdiction of Forest range of Hahaladdi of Tehsil Bhanupratappur, Dist-Kanker (Chhattisgarh). The lease hold area forms a part of Survey of India Toposheet No. 64D/16.

Latitude - 20°13'40" to 20°14'45" N

Longitude - 80°53'15" to 80°54'00" E

The Committee noted that the proposal has already been considered and recommended by EAC in May, 2011 and is pending for Stage-I forest clearance. The Committee therefore suggested the PP to apply for consideration after obtaining Stage-I forest clearance.

(2.55) J-11015/295/2015-IA.II(M) Stone along with Associated minor minerals of M/s Kayden Infra Engineering Private Limited located at Village- Ramalwas, Tehsil- Dadri, District - Bhiwani, Haryana (12.25 Hect) IA/HR/MIN/30076/2015

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

(2.56) J-11015/296/2015-IA.II(M) Mining of Stone along with Associated minor minerals of M/s Hari Har Mining Company located at Vill- Maikalan and Maikhurd, Tehsil- Dadri, District Bhiwani, State- Haryana (3.65 Ha.) IA/HR/MIN/30094/2015

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

(2.57) J-11015/297/2015-IA.II(M) Chuchrangpur-Amlidih Limestone Deposit of M/s Jaiprakash Associates Limited (JAL) located at Villages - Chuchrangpur, Amlidih & Chhirahi, Tehsil - Palari, Distt.- Baloda Bazar,

State – Chhattisgarh (125.00 ha) IA/CG/MIN/30143/2015

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

(2.58)J-11015/298/2015-IA.II(M) Guma Pasauri limestone mine of M/s Monnet Ispat & Energy Ltd located at villages Guma & Pausari, district Baloda Bazar, Chhattisgarh (252.552 Ha) IA/CG/MIN/30145/2015

The Proposal of Guma Pasauri limestone proposed By M/s Monnet Ispat & Energy Ltd located at villages Guma & Pausari, district Baloda Bazar, Chattisgarh. The mining lease area is 252.552 ha, the proposed production of with a maximum rated capacity of 1.3 MTPA. The Geographical Co- ordinates for the mine site are Latitude - 21°35'10.9" to 21°36'22.9" N Longitude - 82°03'17.2" to 82°04'33.2" E The mine site falls on Survey of India Toposheet No. 64K/2.

Total Mine lease area is 252.552 ha. It will be a new open cast mine. Limestone will be used for captive use in Company's cement plant. Mining will be mechanized open-cast method adopting a system of benches. Water Requirement is 132cum/day. Total geological reserves are 117.24 MT and proved mineable reserve is 69.96 MT. The waste water generated within the mine lease would be the sanitation waste water which would be disposed in septic tanks. The waste generated will be mainly sub grade and Lateritic topsoil/waste. The total waste generated during plan period will be about 1.390 MT and 6.996 MT in the mine life period. It was reported by PP that there is Reserve Forest 2.10 Km Dhabbadih, Latwa 12.2 km. Expected cost of the Project is Rs. **140Cr**. No Court case is pending against the Project.

It was noted by the Committee there is a canal passing through the lease area and a pond is located on the southern boundary. The habitation is adjacent to mine lease boundary and villagers would be using these water resources. The Committee was of the view that looking to the sensitivity of the mining lease the **TOR cannot be prescribed** to the project and PP should look for alternatives.

(2.59)J-11015/299/2015-IA.II(M) Gaitra Limestone Mine of M/s Monnet Ispat & Energy Ltd. located at villages Gaitra, Pasauri, Bharsela & Bharseli , district Baloda Bazar, Chattisgarh. (278.144 Ha) IA/CG/MIN/30146/2015

The proposed Gaitra limestone deposit of M/s Monnet Ispat & Energy Ltd is for 1.3 MTPA production. The proposal is regarding new open cast mine. The mining lease area is 278.144 ha, located in the villages Gaitra, Pasauri, Bharsela & Bharseli district Baloda Bazar, Chattisgarh. The lease hold area forms a part of Survey of India Toposheet No. 64K/2. The coordinates of the project are Latitude - 21° 40' 22" to 21° 41' 30" North and Longitude - 82° 06' 10" to 82° 07' 44" East.

Proposed method of mining will be mechanized open-cast method adopting a system of benches. Bench height will be maintained at 9 m. Total geological reserves are 79.09 MT and proved mineable reserves are 61.08 MT. Source of water will be ground water which

will be used for industrial use and drinking purpose. Electric power will be sourced from Kukurdih Substation of Chhattisgarh State Electricity Board.

It was noted by the Committee that it is a forest area, a nala passes through the lease and three ponds are located in the mine lease. The ground water intersection is also envisaged. The habitation is adjacent to mine lease boundary and villagers would be using these water resources. The Committee was of the view that looking to the sensitivity of the mining lease the **TOR cannot be prescribed** to the project and PP should look for alternatives.

(2.60) J-11015/300/2015-IA.II(M) River bed minor mineral mine of M/s Nasib Singh s/o sh. Hardeep Singh situated near Village Gorakhnath, Tehsil kalka. District Panchkula and State Haryana (12.94 ha.) IA/HR/MIN/30208/2015

The Proposal of M/s Nasib Singh s/o Sh. Hardeep Singh is for Boulder, Gravel and Sand (Minor Mineral) with proposed production capacity of 4.78 Lakhs TPA (ROM). The mine is located at Gorakhnath (M.L. No- PKL B 1&2) in Village - Gorakhnath, Tehsil- Kalka, District-Panchkula, Haryana. It is category 'A' Project as it lies near Interstate Boundary of Haryana & Himachal Pradesh at 0.38 Km and 2.7 Km between Haryana and Punjab State. The Geographical Co- ordinates for the mine site Gorakhnath Block - Latitudes: 30° 54' 7.48" N - 30° 53' 50.08" N & Longitude : 76° 48' 25.70" E -76° 48' 32.95" E Lehrondi Block - Latitudes: 30° 53' 32.28" N - 30° 53' 25.27" N & Longitudes : 76° 49' 0.93" E -76° 49' 0.30" E , Khuda Bax Behnoi Block Latitudes: 30° 52' 52.8" N - 30° 52' 58.92" N & Longitudes : 76° 53' 15.95" E -76° 53' 43.38" E . The mine site falls on Survey of India Toposheet no.- H43K13. The project site Gorakhnath Block & Lehrondi Block lies on Marhanwali Nadi and Khuda Bax Behnoi Block lies on Ramnagar Nadi.

The total lease area of the Project is 12.94 ha. LOI for the Mining Lease of Gorakhnath (M.L. No- PKL B 1&2) was awarded to Sh. Nasib Singh S/o Sh. Hardeep Singh vide letter no DMG/Hy/Cont./G.Nath Block/PKL B 1 & 2/2015/3669 dated 09/06/2015. The Project Proponent reported that no National Park, Wildlife Sanctuary and other eco-sensitive area are located at a distance of 10 Km from the mine blocks. There is no Forest land within the ML Areas. The operation will be opencast semi mechanized method. The minerals will be collected in its existing form. Total water requirement for the Project is 12.74 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 65 Lakhs. The cost for Environmental Protection Measures is 3.25 Lacs.

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.

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 a 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.

(2.61)J-11015/301/2015-IA.II(M) River Sand Mining Project for mining of ordinary sand in Godavari river basin of M/s Telangana State Mineral Development Corporation Limited located at Eturunagaram Village, Eturunagaram Mandal Warangal District, Telangana (21.25 Ha) IA/TG/MIN/30217/2015

The Proposal is of River Sand Mining from Godavari river basin of M/s Telangana State Mineral Development Corporation Limited located at Eturunagaram Village, Eturunagaram Mandal Warangal District, Telangana. The mining lease area is 21.25 ha, the proposed production of (850m³/Day), 2,12,500 m³ for a period of one year. The Geographical Co-ordinates for the mine site are Latitude- 18°21'18.7"N, 18°21'02.8"N, 18°21'00.3"N Longitude 80°27'26.8"E, 80°27'29.9"E, 80°27'15.7"E. The mine site falls on Survey of India Toposheet No. 65B/7. The Project is category 'A' project due to the location of Eturnagaram Wildlife Sanctuary-3.13 Km (W,NW) within 10 Km radius.

Total Mine lease area is 21.25 ha, method of mining will be open cast and semi mechanized. The national Highway NH-202 Hyderabad to Warangal is 3.0 km in S Side. The Rammana gudem village is 1.1 Km (West) Nearest habitation. The total water requirement is 5.0 KLD.

The mine area is an undulating River bed. The entire mining site lies within the bed of Godavari River. The cost of the proposed project is Rs. 30.25Lakhs. Based on the information furnished and presentation made by the PP and discussions held, the Committee **prescribed** the TORs as per Annexure-I. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) Replenishment and drainage study from a 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.

(2.62)J-11015/302/2015-IA.II(M) River bed minor mineral mine of M/s Sh. Ranbir Singh S/O Sh. Mohinder Singh located at village Mandlai, Tehsil Raipur Rani, Dist. Panchkula, Haryana (13.20 ha) IA/HR/MIN/30223/2015

The Proposal of M/s Sh. Ranbir Singh S/o Sh. Mohinder Singh is for Boulder, Gravel and Sand (Minor Mineral) with proposed production capacity of 5.70 Lakhs TPA (ROM). The mine is located at Mandlai 1 Block/PKL B 21 in Village - Mandlai, Tehsil- Raipur Rani, District-Panchkula, Haryana. It is category 'A' Project located near Interstate boundary between Haryana & Himachal Pradesh at 0.21 Km from the lease area. The Geographical Co-ordinates for the mine site Latitudes: 30° 34'18.09" to 30° 33'33.43" North & Longitude: 77°06'25.98" to 77°06' 31.34" East. The mine site falls on Survey of India Toposheet no.- H43K13. The project site lies on Begna Nadi.

The total lease area of the Project is 13.20 ha. LOI for the Mining Lease of Mandlai 1 Block/PKL B 21 was awarded to Sh. Ranbir Singh S/o Sh. Mohinder Singh vide letter no DMG/Hy/Cont./Mandlai 1 Block/PKL B 21/2015/3675 dated 09/06/2015. The Project Proponent reported that no National Park, Wildlife Sanctuary and other eco-sensitive area are located at a distance of 10 Km from the mine blocks. There is no Forest land within the ML Areas. The operation will be opencast semi mechanized method. The minerals will be collected in its existing form. Excavation will be carried out only up to a depth of 3m bgl. Extraction of Boulder, Gravel and Sand material will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 13.11 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 70 Lakhs. The cost for Environmental Protection Measures is 3.50 Lacs.

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.

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 a 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.

(2.63) J-11015/303/2015-IA.II(M) Sand and Boulder/Gravel Mining of M/s Sri.

Hans Enterprises located at Village – Dhanaura, Block Bilaspur, District-Yamuna Nagar, State – Haryana (18.18 ha) IA/HR/MIN/30159/2015

The proposed project is for mining of 4,34,300 cu.m per year boulder, gravel and sand mineral by opencast semi-mechanized method without drilling and blasting. The project has been initiated by Sri. Hans Enterprises, who got the LoI vide Letter no. DMG/HY/Cont/Dhanaura Block/YNR B 18/2015/7084 Dated 20.07.2015 from Director General, Mines & Geology Department, Government of Haryana over an area of 18.18 hectares in the dried river bed of River Somb in Village – Dhanaura, Block- Bilaspur, District-Yamuna Nagar, State - Haryana.

The proposed mining case is a Category 'A' project as Himachal Pradesh state boundary falls at 1.4 Km NE in the buffer zone. The mining lease has been granted for a period of 10 years. The mining lease is in 18.18 ha, which is a non-forest Government land. The lease has 3.98Ha of agriculture land and rest 14.2 Ha is dried Somb river bed. The highest and lowest altitude of M.L area is observed as 343 and 338 mRL. However the mining area after leaving 1/4th area around river bed and leaving 7.5m boundary in agriculture land as per LoI. The total area left for mining is 13.52 ha i.e. 10.65 ha in river bed and 2.87 ha in agriculture land. It does not involve any forest land. Mining plan for the proposed mining project is under preparation and shall be duly approved. The lease area is located near NH-72A and Barara R.S. is 40 km in SW; Chandigarh Airport is at 62 km NW. Kalesar wildlife a sanctuary exists at about 7 km NE.

Mining will be done by excavator loader combination. In river bed upto 2.5m shall be done by excavator and rest 0.5m will be dug manually. In agriculture land mechanized method will be used upto 9m. Loading in both the areas will be done by loader. Total 85 workers will be hired from among the population living in the vicinity. The raw material requirements of the project will be diesel upto 800Lit/day and 14KLD of water. These shall be sourced locally. There will be meager amount of top soil generated shall be used for development of green belt and backfilling the pit. Since the land is forest Gair mumkin land or Government land. The project cost is Rs.350 Lakhs.

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 a 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.

(2.64). Tigoda Dolomite Mine with proposed production capacity of 10.00 lakhs TPA (ROM) by M/s Hira Power and Steels Ltd., located at Village:Tigoda, Tehsil: Shahgarh, DistrictSagar, Madhya Pradesh. (MLA 72.15 ha) – TOR

The proposal of M/s Hira Power & Steels Ltd. is for Tigoda Dolomite Mine with proposed production capacity of 10.00 lakhs TPA (ROM) in the mine lease area of 72.15ha. The mine lease is located in Village: Tigoda, Tehsil: Shahgarh, District Sagar, Madhya Pradesh. The Latitudes and Longitudes of the site are 24⁰21'34.42"N to 24⁰22'55.5"N and 79⁰9'37.0"E to 79⁰11'2.4"E respectively and study area falls within the Survey of India Topo sheet No. 54 P/3.

Total mine lease area is 72.15ha. No forest land is involved in the lease area. Letter of Intent (LOI) has been granted by State Government of Madhya Pradesh, vide letter dated 04.03.2014. Method of Mining will be opencast mechanized using drilling and blasting. Life of mine is 72 years. Water requirement will be 45 KLD. Total project cost is Rs. 2 Crores. There is no litigation 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**.

(2.65)J-11015/305/2015-IA.II(M) Siddavaram silica sand mine of M/s Mangalore Minerals (P) Limited, located at S.No. 20 & 38, Siddavaram village, Kota Mandal, Nellore District, Andhra Pradesh (105.22 Ha.) IA/AP/MIN/30147/2015

The proposed project is for mining of Silica sand mineral by semi mechanized opencast method. The lessee is M/s Mangalore Minerals (P) Ltd. The proposed project is a captive mine with its beneficiation plant located at Momidi. The said mining project is Siddavaram Silica sand mine situated at Siddavaram Village, Kota mandal, Nellore district, Andhra Pradesh. It is a Government land. The mining lease for silica sand, over an extent of 105.22 Ha was granted to the company by State Government vide G.O. Ms.No. 236, dated 6-8-2003, issued by Industries & Commerce (M-III) Dept. Government of Andhra Pradesh and it was executed by the Asst. Director of Mines and Geology, Nellore, vide their proceeding No. 2188/M2/98, dated 28/2/2004 for a period of 20 years i.e. from 09-09-2003 to 08-09-2023. The mining plan was approved vide letter no. 39449/MP-II/ 02, dated 23-05-2003 for 5 years period grant of mining lease. The 1st Scheme of mining was approved with letter no. 5466/MP/NLR/2010, dated 14-06-2011 for 2 years upto 2013. The 2nd Scheme of mining was approved vide letter no. 562/MS/NLR/2015, dated 15-04-2015.

The proposal for expansion of mining project from 17,820 TPA to 3,00,000 TPA was earlier presented in the MOEF &CC meeting dated 26-28 June 2013. The project was appraised for a proposed production of 3 lakh MTPA. During the presentation the ministry observed that this case is a violation case since the mine was in operation without EC grant up till 2012. In this regard ministry sent a letter no.J-11015/149/2013-IA.II (M) dated 13.02.2014. The PP has submitted the Board Resolution in form of affidavit dated 20.12.2014 that such violation will not be repeated in future. The PP has informed that mining operations had been stopped w.e.f. 1.05.2013. The prosecution report has been filed in the Court of 2nd Addl. Judicial Magistrate of First Class, at Nellore on 11.03.2015 vide

Case No.CC 301/15 to take cognizance of offence by the said court under section 15 of Environment (Protection) Act, which has been committed by the offending project and the same have been taken on record.

The project is located from longitude 80°6'5.8" E and latitude 14°7'13.7" N to longitude 80°5'35.9" E and latitude 14°5'54.3" N and Toposheet no. 66 B/4 (restricted toposheet) marks the lease area. All the land is flat, sandy and barren. The Swarnmukhi River (3.10 km E) , Bay of Bengal (3.38 km E) Kunta Pond (60m W) Buckingham canal (610m W), Kothapatnam reserve forest (2.65 km NE) marks the sensitivity of the area.

The anticipated life of mine is about 20 years. Method adopted will be semi mechanized open cast mining, during mining, no waste will be generated. There is no displacement of habitat. After mining is over green belt will be developed in the statutory width of 7.5m in 4500m². There is a provision of construction of office building and rest shelter provided with medical aid. The project cost is about Rs. 500 lakhs. Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the Standard TOR for undertaking detailed EIA study as per Annexure-I.

(2.66)J-11015/306/2015-IA.II(M) River Sand Mining of M/S Telangana State Mineral Development Corporation Limited Project for ordinary sand in Godavari river basin is located at Chalpaka Village,Eturunagaram Mandal of Warangal District. Telangana. (7.00 Ha.) IA/TG/MIN/30241/2015

The Proposal of River Sand Mining from Godavari river basin proposed By M/s Telangana State Mineral Development Corporation Limited located at Chalpaka Village, Eturunagaram Mandal of Warangal District. Telangana. The mining lease area is 7.00 ha, the proposed production of 70,000m³ for a period of one year. The Geographical Co- ordinates for the mine site are Latitude- 18°24'1.5"N to 18°24'05.1"N Longitude 80°21'51.08"E, to 80°21'53.09"E. The mine site falls on Survey of India Toposheet No. 65B/7. The Project is category 'A' project due to the presence of Eturnagaram Wildlife Sanctuary-0.3 Km (SW, S, SE) is coming within 10 Km radius.

The Committee noted that the mine lease area is located within one kilometer of protected area and was of the view that the proposal **cannot be considered** as per the direction of the Hon'ble Supreme Court interim order dated 04.08.2006 in I.A. 1000 in Writ Petition 202 of 1995 (T.N. Godavarman Vs. Union of India) and in its order in Writ Petition 435 of 2012 in the matter of Goa Foundation Vs Union of India.

(2.67)J-11015/307/2015-IA-II(M) Kaliapani Chromite Mine of M/s Balasore Alloys Ltd., Village Kaliapani, Tehsil Sukinda, District Jajpur, Orissa (64.463 ha) (expansion from 0.6 MTPA to 1.692 MTPA using opencast and

underground technology (64.463 ha) IA/OR/MIN/30273/2015

M/s Balasore Alloys Limited proposes enhancement of Chromite Ore Production from 0.6 MTPA to 1.692 MTPA is planned through opencast and underground mining method within the existing mine lease namely Kaliapani Chromite Mine (ML Area 64.463 ha) at Kaliapani, Tehsil Sukinda, District Jajpur, Odisha. The estimated cost of the project is about 1500 Crores.

Mining operation started from September 2000 in 64.463 ha ML area in non-forest Govt. land as per all valid statutory documents available since inception. However, as per MoEF guideline dated 10.3.2015 as well as the subsequent circular dated 30.03.2015 issued by Govt. of Odisha and land detail available from DFO, Cuttack basing on certified land schedule as per Sabik settlement received from concerned Tehsildar, the M.L. Area of 64.463 ha includes, 64.119 ha Forest Land and 0.344 ha road. The Scheme of Mining along with progressive mine closure plan of Kaliapani Chromite mine over 64.463 Ha has been approved by IBM vide letter no. MS/FM/27-ORI/BHU/2014-15/4853 dated 27.03.2015.

Environmental clearance for the project has been received from Ministry of Environment, Forests & Climate Change with an annual production capacity of 0.6 MTPA of Chrome ore by opencast and underground including mining of blocked pillars in open pit mines by Drift and Fill mechanized mining method vide Letter No J-11015/139/2012-IA.II (M) Dated 22nd August 2014.

The project site is geographically located in between Latitude: 21°02'9.82" to 21°01'33.05" N and Longitude : 85°45'29.24" to 85°46'28.24"E. The site elevation: 121 to 182 above msl. The nearby water bodies are Damsal nala (0.7 km, NNW), Patna nala 1.3 km, N, Nadibarana nala (seasonal) 3.4 km W, Pond near Ragada village (4.0 km, NW), Pandara nala (seasonal) (5.0 km ,S). The proposed expansion is in existing acquired area of mining lease 64.463 ha. No additional land is required for the proposed 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.

(2.68)J-11015/308/2015-IA.II(M) Kalyanpur Limestone Mine of M/s Kalyanpur Cements Limited located at village Kalyanpur, District Rohtas , State Bihar (40.45 Ha) IA/BR/MIN/30249/2015

The proposed project is for mining of Lime Stone by mechanized opencast mining method. The lessee is M/s Kalyanpur Cements Limited. The proposed project is a captive mine with its Cement plant located within lease area 500m away from it. The said mining project is Kalyanpur Limestone mine situated at Kalyanpur Village, Rohtas district, Bihar. The land belongs to the Ms Kalyanpur Cement Ltd.

In year 1952 Kalyanpur lime & cement works (now known as Kalyanpur Cement Ltd) allotted a lease of 40.45 Ha in village Kalyanpur district Rohtas in state Bihar for 20 years

(1.04.1952 to 31.03.1972). In year 1972 they have applied for the 1st renewal of the lease area (40.45 Ha) for 20 years, and was granted 01-04-1972 for 20 years (1972-92). In year 1992 they have again applied for the 2nd renewal of the lease area (40.45Ha) for 20 years, and was granted for year (1992-2012). Now the lessee has filled for 3rd renewal for year 2012-2032, which is pending with the state government. The proposal for Environmental clearance of mining project which is mandatory at the time of renewal for any lease. However as per the latest amendment in the MMDR act 1952 the captive mine leases have been allowed to operate 50 years from the date of the original grant of the mining lease or year 2030 whichever is later. The project is for a proposed production of Lime Stone 2 lakh MTPA, the waste generation will be and the intercalated waste will be 63158 MTPA.

The lease area falls in Survey of India Toposheet No. No. 63P/14(part) and 72 D/2 (Part) with Latitude 24° 39'57.41" to 24°40'28.39" N and Longitude 83° 59'12.09" to 83°59'41.08" E . The lease area is in village Kalyanpur District- Rohtas, in Bihar state. Geological reserves and the mineable reserve as per ASOM are 15766728 MT and 1015563 MT (Lime Stone). Method adopted will be mechanized open cast mining; during mining waste will be generated. The raw materials required for working includes water, diesel and explosives. About 43 KLD water will be required per day. The project cost is about Rs. 560.50 lakhs.

The Committee noted that the mine lease area is located within one kilometer of protected area (Kaimur wildlife Sanctuary) and was of the view that the proposal **cannot be considered** as per the direction of the Hon'ble Supreme Court interim order dated 04.08.2006 in I.A. 1000 in Writ Petition 202 of 1995 (T.N. Godavarman Vs. Union of India) and in its order in Writ Petition 435 of 2012 in the matter of Goa Foundation Vs Union of India.

(2.69) J-11015/309/2015-IA. II(M) Siddavaram Silica Sand Mine of M/s Smt. Rama S. Mendon, located at S.No. 2, Siddavaram village, Kota Mandal, Nellore District, Andhra Pradesh (52.76 Ha.) IA/AP/MIN/30272/2015

The Proposal of Silica Sand Mine proposed By M/s Smt. Rama S. Mendon, located at village, Kota Mandal, Nellore District, Andhra Pradesh. The mining lease area is 52.76, the proposed production of 8600 TPA – 204585 TPA A (maximum in third year) of Silica sand per year. The Geographical Co- ordinates for the mine site are longitude 80° 4' 45" E and 14° 4' 41"N latitude. The mine site falls on Survey of India Toposheet No. 66 B/4. The 1st Mining scheme was approved by the Joint Director of Mines and Geology vide their letter No. 442/MS/NLR/2013, dated 27-05-2013. The Second scheme of mining is being prepared for 5 years period from 2015-16 to 2019-20.

The proposal for expansion of mining project to 3,00,000 TPA was earlier presented in the MOEF &CC meeting dated 26-28 June 2013. During the presentation the ministry observed that this case is a violation case since the mine was in operation without EC grant till June, 2013. In this regard ministry sent a letter no.J-11015/186/2013-IA.II (M) dated 13.12.2013. PP has submitted the Board Resolution in form of affidavit that such violation will not be repeated in future. The PP informed that mining operations had been stopped

w.e.f. 01.07.2013. The prosecution report has been filed in the Court of 2nd Addl. Judicial Magistrate of First Class, at Nellore on 11.03.2015 vide Case No.CC 299/15 to take cognizance of offence by the said court under section 15 of Environment (Protection) Act, which has been committed by the offending project and the same have been taken on record. Revised second mining scheme (mine plan) has now proposed production from the mine to the extent of only 204585 MTPA.

The magnitude of operation shall be production of 175300 MT per annum with maximum production of 204585 MT in 2018-19. All the land is flat, sandy and barren. The Swarnmukhi River (2.5 km S) , Bay of Bengal (5.1 km E) Buckingham canal (0.12 km E), Kothapalem lake (7 km SW), Kothapatnam reserve forest (4.09 km NE) marks the sensitivity of the area.

Geological reserves and the mineable reserve as per ASOM are 1861393 MT and 1824165 MT respectively. The life of mine is about 11 years. Method adopted will be semi mechanized open cast mining, during mining, no waste will be generated. The raw materials required for working includes water and diesel. Machinery for mining will be loader, tippers, sprinkler, jeep etc. The daily consumption of diesel in the mine will be around 600 ltrs. About 24 KLD water will be required per day.

After mining is over green belt will be developed in the statutory width of 7.5m in 0.765 ha. The project cost is about Rs. 145 lakhs. The estimated production cost is Rs 112/MT and selling cost is estimated as Rs 200/MT.

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

(2.70). Enhancement of production capacity of Majhgawan Limestone Mine of M/s Jaiprakash Associates Ltd. from 1.25 MTPA to 2.70 MTPA located at Villages Majhgawan, Sarda, Patna, Kariajhar, Piprav, Malgaon and Dhorhara, Rampur Naikin Tehsil, Sidhi District, Madhya Pradesh (362.680 Ha.)

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

(2.71) J-11015/311/2015-IA.II(M) Ranavav Limestone Mine of M/s Saurashtra Chemicals (a unit of Nirma Group), located at village- Ranavav, Taluka- Ranavav, District- Porbandar, Gujarat (31.28ha) IA/GJ/MIN/30288/2015

Saurashtra Chemicals (a unit of Nirma Group), has proposed project of Ranavav Limestone Mine for expansion in production capacity from 10,000 to 2,00,000 TPA of limestone from an area of 31.28 ha at survey no. 37/2p & 55/1p, village Ranavav, Taluka Ranavav, District Porbandar, State Gujarat. As per the MoEF, Government of India Gazette Notification dated 14th September 2006 and its subsequent amendments, the proposed project has been classified as Category "A", because general condition is applicable to the

project due to the presence of Barda Wildlife Sanctuary within 5km radius of the mine lease area.

The mine is at a distance of 2.97 km from the Barda Wildlife Sanctuary. Jambuvanti cave, an archeological site, is at a distance of about 4.5 km from the mine lease. NOC from Directorate of Archaeology, Government of Gujarat has been obtained vide letter no. ARL/7/2007/43/2120 dated: 03-04-2008. Sea is at 14.60km distance from the mine lease. Naliadhar Reserve Forest is 1.4 km NE. The mine lease area of the project is classified as Government waste land. The lease area does not involve any forest area. The topography of the area is flat to undulating and reported to lie between 21°40'44.87" to 21°41'8.54" N Latitude and 69°45'17.6" to 69°45'46.32"E Longitude. The general elevation of the lease area varies from 26-32 m AMSL. The ultimate pit bottom will be at 7m bgl. The mine working will be opencast and semi-mechanized method involving drilling and blasting. Only manual sizing will be done. The mine working will not intersect groundwater table. The peak water requirement for the project is estimated as 6.5 KLD, which will be sourced from company's nearby Dharampur-Kajawadri Limestone mine and groundwater.

The life of mine is 12 yrs. It is estimated that 20,000 TPA of undersized limestone will be generated, which will be waste and will be stacked out of mined out pit area and will be sold to the cement industries as sweeter with permission of the government. There will be no external overburden dump. At the end of mine life, an area of 5.98 ha will be covered under plantation and an area of 25.3 ha will be covered under water body.

The capital cost of the project is Rs. 25.0 Lakh and the annual recurring cost for the environment protection measures is proposed as Rs. 6.0 Lakh including pollution control and monitoring. Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the Standard TOR for undertaking detailed EIA study as per Annexure-I.

(2.72). Mudhera Stone/Gitti Stone Quarry Project with proposed production of 26,070 cum per annum by Shri Amit Aarya, located at village Mudhera, Tehsil Gaurihar, District Chhatarpur, Madhya Pradesh (3.675 ha)- (Consultant :ENVIRTA Sustainable Solutions India Pvt. Ltd.) – TOR

The Proposal of Shri Amit Aarya is for Mining of Stone Quarry in Mudhera with proposed production capacity of 26,070 cum. per annum. The mine is located at village - Mudhera, Tehsil- Gaurihar, District-Chhatarpur, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located 3.63 Km from interstate boundary between Uttar Pradesh & Madhya Pradesh and also combined area of other mines located within 500m radius of project site is >5 ha. The Geographical Co- ordinates for the mine site are Latitudes- : 25° 16'51.1" to 25° 16'52.0" North and Longitudes- : 80° 02'11.4" to 80°02'19.8" East. The mine site falls on Survey of India Topo sheet no.- 63C/3.

The total lease area is 3.675ha. LoI has been granted by State Government of Madhya Pradesh. Life of mine is 7 years. The operation will be opencast semi mechanized

method. The bench height is proposed at 6 meters and width will also be 6 meters. All operations of mining i.e. excavation, sorting, sizing and loading will be done by manual means. The transportation and overburden dumping is proposed by tippers & tractors. The mineral will be collected in its existing form. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers.

The Project Proponent reported that no National park and other eco-sensitive areas are located within a distance of 10 Km from the mine blocks. There is no Forest Land within the ML Areas. Total water requirement for the Project is 4.5 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 60 Lakhs. There is no Court case/ litigation 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, subject to submission of legible letter of Intent/ lease documents.**

(2.73) J-11015/313/2015-IA.II(M) Mining of Garhi Stone Mine of M/s. Haryana mining Company located at Vill- Garhi, Tehsil- Narnaul, Dist.- Mahendergarh, State- Haryana (6.70 Ha) IA/HR/MIN/30311/2015

It was noted that the proposal is a category 'B' project therefore the proposal may be transferred to concerned SEIAA.

(2.74) J-11015/314/2015-IA.II(M) Sand, Bajri and Stone from Sirsa River of M/s Shri Bidhi Chand S/o Shri Tari Ram, located at Village- Jhakoli, P.O- Lodhi Majra, Tehsil – Nalagarh, Distt. – Solan, Himachal Pradesh (85.5344ha.) IA/HP/MIN/30314/2015

The Proposal of Shri Bidhi Chand is for Sand, Bajri & Stone (Minor Minerals) mining with production enhancement up to 1,24,200 tonnes / annum (ROM) in the MLA of 85.5344 ha. The mine is located at village Androla Uparla and Androla Nichala, P.O. & Tehsil Nalagarh, District Solan, Himachal Pradesh. The Latitude and longitude of the mine lease area are N 31°08'50" to N 31°10'50" and E 76°40'07" to E 76°41' 06" respectively on topo sheet no. 53 A/12.

The total mine lease area is of 85.5344 ha which is classified as Govt. waste land. River bed will be excavated in slice of 1 m thickness leaving statutory barrier. Material will be replenished each year during the Monsoon. So no change in form of pit will occur 12 KLD (5.0 KLD for water spray for dust suppression, 5.0 KLD for green belt development & 2.0 KLD for drinking & others uses). Water will be sourced from dug well of nearby villages. The loaded tractor trolleys / tipper trucks would carry the material to the crusher site. About 428 tonnes of stone and Bajri would be required to be moved daily. Project proponent reported that no National Park, Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). The cost of the project is Rs. 53.00Lakhs .the capital cost of

EMP will be Rs. 5.0 lakhs and amount earmarked for social fund is Rs. 5.0 lakhs for plan period.

It was noted that it is a violation case, PP informed that violation proceeding has been completed. The prosecution report has been filed in the Court of the Chief Judicial Magistrate, at Nalgarh District Solan, HP on 8.01.2015 vide Case No.PCB/148/M/s. Rama Ston Crusher/14-23746 to take cognizance of offence by the said court under section 15 of Environment (Protection) Act, which has been committed by the offending project and the same have been taken on record.

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 a 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.

(2.75)J-11015/315/2015-IA.II(M) Sand, Bajri and Stone from Sirsa River of M/s Shri Shashi Adlakha and Shri Pritam Singh located at Near Village-Bersan, Tehsil-Nalagarh (T), District-Solan, Himachal Pradesh (79.3616 ha) IA/HP/MIN/30317/2015

The Proposal of Smt. Shanshi Adlakha is for Sand, Bajri & Stone (Minor Minerals) Mining with production enhancement up to 3,25,000 Tons/ Annum (ROM) in the MLA of 79.3616 ha. The mine is located at Village- Bersan, Tehsil Nalagarh, Distt. Solan, Himachal Pradesh. The Latitude and longitude of the mine lease area are N 30°59'30" to N 31°01'00"E 76°42'03" to E76°43' 03"respectively on topo sheet no. 53B/13 & 53B/9. The mine lease area is 79.3616 ha. Government of Himachal Pradesh granted lease area vide registration No. 168/2011 dated 26-02-2011. The method of mining will be manually opencast method with the use of JCB with tractor. Extraction of minerals/ working shall be started from the centre towards the bank periphery in ½ m slice so that the river course could not get affected. The net mineable reserve is 16,25,000 tonnes. The life of the mine is 5 years. Water requirement is 6.0 KLD. Project proponent reported that no National Park, Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). The estimated cost of the project is Rs.53.0 Lakhs.

It was noted that this is a violation case, PP informed that violation proceeding has been completed. The prosecution report has been filed in the Court of the Chief Judicial Magistrate, at Nalgarh District Solan, HP on 8.01.2015 vide Case No.PCB/148/M/s. Rama Ston Crusher/14-23746 to take cognizance of offence by the said court under section 15 of Environment (Protection) Act, which has been committed by the offending project and the same have been taken on record.

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 a 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.

(2.76)J-11015/316/2015-IA.II(M) Sand, Bajri and Stone of M/s Shri Gurcharan Singh located at Near Village- Mauza Kishanpura, Tehsil-Nalagarh (T), District- Solan, Himachal Pradesh (25.3664 h) IA/HP/MIN/30333/2015

The Proposal of Shri Gurcharan Singh is for Sand, Bajri & Stone (Minor Minerals)Mining with production enhancement from 48,922 Tons/ Annum to 11,400 Tons/ Annum (ROM) in the MLA of 25.3664 ha. The mine is located at village Haripur Sandholi, Tehsil Nalagarh, Dist. Solan, Himachal Pradesh. The Latitude and longitude of the mine lease area are N 30°57'41" to N 30°58'09" and E 76°44'41" to E76°45' 04"respectively on topo sheet no. 53B/13 & 53A/1. The proposal was considered as category 'A' as inter-state boundary of Punjab and H.P. is located at a distance of 2.0 km.

The mine lease area is 25.3664 ha. Government of Himachal Pradesh has granted lease area vide registration No. 384/2007 dated 2-3-2007. The method of mining will be mechanized opencast method with the use of JCB with tractor. Extraction of minerals/ working shall be started from the centre towards the bank periphery in ½ m slice so that the river course could not get affected. The net mineable reserve is 567000 tonnes. Water requirement is 6.0 KL/day. The project cost is Rs.53.0 Lakhs.

It was noted that this is a violation case, PP informed that violation proceeding has been completed. The prosecution report has been filed in the Court of the Chief Judicial Magistrate, at Nalgarh District Solan, HP on 8.01.2015 vide Case No.PCB/148/M/s. Rama Ston Crusher/14-23746 to take cognizance of offence by the said court under section 15 of Environment (Protection) Act, which has been committed by the offending project and the same have been taken on record.

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 a 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.

(2.77). Chanavada Soapstone Mine with Enhancement of production capacity form 15,000 TPA to 2,00,000 TPA (ROM) by M/s Krishna Miners and Traders, located at Near village Chanavada, Tehsil Girwa, District Udaipur. Rajasthan (83.491 ha) (Consultant: Udaipur Min-Tech Pvt. Ltd.) – TOR.

The Proposal of M/s Krishna Miners and Traders is for Chanavada Soapstone Mine with Enhancement of production capacity form 15,000 TPA to 2,00,000 TPA (ROM). The mine is located near village Chanavada, Tehsil Girwa, District Udaipur, Rajasthan. The Latitudes and longitude of the mine lease area are N 24°16'30" to N 24°17'25"E 73°42'38" to E73°43' 03" respectively on topo sheet no. 45 H/11.

Mine lease area is of 83.491ha, out of which 24.63ha is forest land. The MoEFCC, vide letter No. 8-91/97-FC dated 21.09.1999, has issued the FC and diverted the 25.63ha of forest land. The second renewal of mining lease was sanctioned by the State Government vide letter dated 10.10.2001 for an area of 83.491ha for the period of 31.12.2000 to 30.12.2020. The Ministry has earlier accorded the Environmental Clearance vide letter J-11015/250/2005 IA-II(M) dated 21.02.2007 for mining of Soapstone @ 15,000 TPA.

Method of mining will be open cast semi mechanized forming benches up to 6.0 meter high and 6-8 m wide. The slope of the benches will be kept at 80° inclination. Heavy Earth Moving Machinery will include 0.9 m³ shovels, 20 tonnes capacity dumpers, Dozer etc. The net mineable reserve is 63,54,593 tons. Life of the mine is 31.7 years. Water requirement is 7.0 KLD. The project cost is Rs.500 Lakhs. There is no Court case/ litigation 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 subject to submission of (i) Details of court cases as mentioned in earlier EC letter; and (ii) Production details of minerals since 2007 to check the violations, if any, made by the Project Proponent.**

(2.78) J-11015/318/2015-IA.II(M) Building Stone & Road Metal mine of M/s Manikanta Major Minerals located at Pallamalli Village, Chimakurthy Mandal, Prakasam District, Andhra Pradesh (35.916 Ha.) IA/AP/MIN/30344/2015

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

(2.79). Ochre, White Earth, Bauxite and Laterite Mine with proposed production capacity of 40,000 TPA (ROM) of M/s Rakesh Agencies, located at Khasra

No-43P, Village Kumhra (Judhwani), Tehsil - Semaria, District- Rewa, Madhya Pradesh (15.789ha).

The Proposal of M/s Rakesh Agencies is for Mining of Ochre, White Earth, Bauxite and Laterite in Kumhra (Judhwani) with proposed production capacity of 40,000 TPA (ROM). The mine is located at Khasra No-43P Village-Kumhra (Judwani), Tehsil- Semaria District- Rewa, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at 3.6 Km from interstate Boundary between Uttar Pradesh and Madhya Pradesh and Ranipur Wildlife Sanctuary at 3.6 Km. NBWL clearance is required for this project. The Geographical Co-ordinates for the mine site are Latitudes- : 24° 51' 32.1" to 24° 51' 53.9" North and Longitudes- : 81° 07' 05.6" to 81° 07' 23.2" East. The mine site falls on Survey of India Topo sheet no.- 63H/1.

The total lease area is 15.789ha. State Government has approved the mining scheme vide letter dated 06.01.2014. The operation will be by opencast 'other than fully mechanized' method. Total water requirement for the Project is 11 KLD. Total cost of the Project is Rs. 1 Crore. There is no Court case/ litigation pending against the project as informed by the Project Proponent.

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 subject to submission of (i) Legible LOI/ lease documents and (ii) distance certificate w.r.t. Ranipur Wildlife Sanctuary from the Competent Authority.**

(2.80) J-11015/320/2015-IA.II(M) Mining of Mineral Diatomite and White Clay of M/s. Shree Minerals located at Near Village Kharsaliya, Taluka: Ghogha, District: Bhavnagar, Gujarat IA/GJ/MIN/30362/2015

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

(2.81) J-11015/321/2015-IA.II(M) Mining of Stone, Sand & Bajri Lessee-Pawan Singh Prop. M/s Mahadev Stone Crusher located at Khasra No. 731/3 Mauza: Maira Doomal Tehsil: Nupur District : Kangra State : Himachal Pradesh (5.4007 ha) IA/HP/MIN/30378/2015

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

(2.82) Ghatania Ochre, White Earth and Bauxite Mine with proposed production capacity of 40,000 TPA (ROM) by M/s Madhya Pradesh Mineral Supply

Company, located at village Ghatania, Tehsil Majhgawan, District Satna, Madhya Pradesh (5.005ha)-(Consultant :ENVIRTA Sustainable Solutions India Pvt. Ltd.) – TOR

The Proposal of M/s Madhya Pradesh Minerals Supply Company is for Mining of Ochre, White Earth and Bauxite with proposed production capacity of 40,000 TPA (ROM). The mine is located at Khasra No.-9,4/1,5,7/1,7/2,7/3,50, Village - Ghatania, Tehsil- Majhgawan, District-Satna, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at 3.6 Kms from Interstate Boundary between Uttar Pradesh and Madhya Pradesh and Ranipur Wildlife Sanctuary is at 3.6 Km. NBWL clearance is required for the Project. The Geographical Co-ordinates for the mine site are Latitudes- : 24⁰ 53'31.1" to 24⁰ 53'42.1"North & Longitudes- : 81⁰ 01'06.3" to 81⁰ 01'20.9"East. The mine site falls on Survey of India Topo sheet no.- 63H/1.

The total mine lease area is 5.005ha. The State Government of Madhya Pradesh, vide letter dated 18.08.2015, has mentioned that the extension of mine lease is under consideration with the State Government. Method of mining will be open cast semi mechanized. The transportation and overburden dumping is proposed by tippers & tractors. The minerals will be collected in its existing form. The ultimate depth of mining is up to 6m bgl. The mining will be restricted above ground water table. Extraction of mineral will be done only during day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 7 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs.1Crore. There is no Court case/ litigation pending against the Project as informed by the Project Proponent.

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 subject to submission of (i) Legible LOI/ lease documents and (ii) distance certificate w.r.t. Ranipur Wildlife Sanctuary from the Competent Authority.**

(2.83). Ghatania Ochre, White Earth, Laterite, Silica Sand and Bauxite Mine with proposed production capacity of 20,000 TPA (ROM) by M/s Madhya Pradesh Mineral Supply Company, located at village Ghatania, Tehsil Majhgawan, District-Satna, Madhya Pradesh (1.68ha)-(Consultant :ENVIRTA Sustainable Solutions India Pvt. Ltd.)-TOR

The Proposal of M/s Madhya Pradesh Minerals Supply Company is for Mining of Ochre, White Earth, Laterite, Silica Sand and Bauxite Mine with proposed production capacity of 20,000 TPA (ROM). The mine is located at Village – Ghatania, Tehsil- Majhgawan, District-Satna, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at 3.6 Km from interstate boundary between Uttar Pradesh and Madhya Pradesh and Ranipur Wildlife Sanctuary is at 3.6 Km and also combined area of other mines located within 500m radius of Project site is >5 ha. NBWL clearance is required for this mining project. The Geographical Co-ordinates for the mine site are Latitudes-: 24⁰53'32.7" to 24⁰53'39" North

and Longitudes- : 81⁰01'14.1" to 81⁰01'19.8" East. The mine site falls on Survey of India Topo sheet no.- 63h/1.

The total lease area is 1.68ha. The State Government of Madhya Pradesh has renewed the mine lease which was valid upto 16.07.2012. Method of mining will be open cast semi mechanized. Total water requirement for the Project is 5 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 25 Lakhs. There is no Court case/ litigation pending against the project as informed by the Project Proponent. The transportation and overburden dumping is proposed by tippers & tractors. The minerals will be collected in its existing form. The ultimate depth of mining is up to 8m bgl. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers.

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 subject to submission of (i) Legible LOI/ lease documents; (ii) distance certificate w.r.t. Ranipur Wildlife Sanctuary from the Competent Authority; and (iii) Details of production done since 1994.**

(2.84). Ghatania Ochre, White Earth and Bauxite Mine with proposed production capacity of 20,000 TPA (ROM) of M/s Madhya Pradesh Minerals Supply Company, located at Village Ghatania, Tehsil- Majhgawan, District- Satna (3.845 ha)- (Consultant :ENVIRTA Sustainable Solutions India Pvt. Ltd.)- TOR

The Proposal of M/s Madhya Pradesh Minerals Supply Company is for Mining of Ochre, White Earth and Bauxite Mine with proposed production capacity of 20,000 TPA (ROM). The mine is located at Village-Ghatania, Tehsil- Majhgawan, District-Satna, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at 3.6 Km interstate boundary between Uttar Pradesh and Madhya Pradesh and Ranipur Wildlife Sanctuary at 3.6 Km. NBWL clearance is required for this mining project and combined area of other mines located within 500m radius of project site is >5 ha. The Geographical co-ordinates for the mine site are Latitudes- : 24⁰ 53'29.1" to 24⁰53'38.7" North & Longitude- : 81⁰ 01'00.6" to 81⁰ 01'13.0" East. The mine site falls on Survey of India Toposheet no.- 63H/1.

The mine lease area is 3.845ha. The State Government of Madhya Pradesh has renewed the mine lease which was valid upto 24.07.2002 and valid upto 06.08.2015. Method of mining will be open cast semi mechanized. The bench height is proposed 3 meters and width will be 3.0 to 10.0 meters. The transportation and overburden dumping is proposed by tippers and tractors. The minerals will be collected in its existing form. The ultimate depth of mining is up to 6m bgl. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 10 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 1 Crore. There is

no Court case/ litigation pending against the project as informed by the Project Proponent.

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 subject to submission of (i) Legible LOI/ lease documents; (ii) distance certificate w.r.t. Ranipur Wildlife Sanctuary from the Competent Authority; and (iii) Details of production done since 1994.**

Any other matters with the permission of Chair

(3.1) Hatgacha Black Stone Mine with proposed production capacity 0.8 Million TPA (ROM) by M/s West Bengal Mineral Development and Trading Corporation Ltd., located at village: Hatgachia, P.S.– Mohammad Bazar, Mouza- Jethia, District – Birbhum, West Bengal (MLA 43.9205ha)(Consultant: Superintendence Company of India Ltd.)-TOR

The Proposal of M/s West Bengal Mineral Development and Trading Corporation Ltd. is for Hatgacha Black Stone Mine with proposed production capacity of 0.8 Million TPA (ROM). The mine is located at Village–Hatgachia, P.S. – Mohammad Bazar, Mouza- Jethia, District – Birbhum, West Bengal.

Total Mine Lease area is 43.9205ha and the interstate boundary is 5.5 km from Jharkhand and West Bengal. Hence as per the EIA Notification, 2006 and its amendments on 25.06.2014, it is a category 'B' Project and has to be appraised at SEIAA level. The **Committee recommended the transfer of the Proposal to SEIAA, West Bengal.**

(3.2) Hatgacha (JL No. 1)-Jethia(JL No. 4) Black Stone Mine with proposed production capacity 0.8 Million TPA (ROM) by M/s West Bengal Mineral Development and Trading Corporation Ltd., located at village: Hatgachia, P.S.–Mohammad Bazar, Mouza-Jethia, District–Birbhum, West Bengal (MLA 71.20ha) (Consultant: Superintendence Company of India Ltd.)-TOR

The Proposal of M/s West Bengal Mineral Development and Trading Corporation Ltd. is for Hatgacha Black Stone Mine with proposed production capacity 0.8 Million TPA (ROM). The mine is located at Village –Hatgachia, P.S. – Mohammad Bazar, Mouza- Jethia, District – Birbhum, West Bengal in the lease area 71.20ha. The Geographical Co- ordinates for the mine site are Latitudes- : 24⁰06'54.55" to 24⁰07'16.78" North and Longitudes- : 87⁰ 35'20" to 87⁰36'0.85" East. The mine site falls on Survey of India Toposheet no.- 72P/12.

The total lease area is 71.20ha which is non-forest land. Mine Lease was granted on 25.02.2011 for a period of 20 years. The operation will be by opencast semi mechanized method using blast hole drill with compressor, hydraulic excavators, tippers, rock breakers and bull dozer etc. Crushing unit is proposed to be set up to produce sized products. The mining will be restricted above ground water table. Extraction of mineral will be done only during day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 10 KLD. The total

cost of the Project is Rs. 14.36 Crores. There is no Court case/ litigation pending against the project as reported by the Proponent.

The Committee noted that Project Proponent has not prepared Form I and PFR adequately and the same needs to be revised and resubmitted.

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 subject to submission of letter of Intent/ lease documents and revised Form I and PFR.**

(3.3) J-11015/264/2013-IA.II(M) Virpur Kenedy Bauxite Mine capacity 8,39,398 TPA of M/s Prabhudas Vithaldas – II located at village- Virpur & Kenedy, Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat area 70.8216 ha (reduced area 56.6573 ha)-Amendment of TOR.

The mine lease is located at village- Virpur & Kenedy, Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat. The Mine Lease area is between 22°14' 53.1" to 22°16' 10.9"N & 69°17' 3.7" to 69°19' 51.6" E. The project is located in seismic zone- IV. Marine National Park & Marine Sanctuary, Eco Sensitive Zone lies within 5 km of study area.

The mining lease was executed in favour of M/s Prabhudas Vithaldas – II over 70.8216 ha. The Mining Lease was granted over an area of 70.8216 ha in village- Virpur & Kenedy, Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat vide order no. MNL / 1558 (G-II) on dated 30.05.1963 which was executed on 15.10.1963 for a period of 30 years. Lessee has applied for 1st renewal to Govt. of Gujarat on 31.10.1992 for a period of 20 years and Second renewal was applied to Industries and Mines Department Gandhinagar, Gujarat dated 05.06.2012 and lease is valid as per new MMDR Ordinance 2015. Modified Mining Plan has been approved by IBM vide letter. 682(23) MS 405/2007 MCCM (N) UDP dated 07.09.2015. As per Modified Mining Plan production capacity is revised as 8, 39,398 TPA from 11, 95,803 TPA with mining working area is 56.6573 ha as blocks are falling in the Eco Sensitive Zone (ESZ) as per the notification issued by MoEC&CC dated 22.08.2013.

The method of mining will be Opencast Semi mechanized mining method. Total water requirement for drinking and operations will be 14.88 KLD from nearby villages. The waste generated will be backfilled simultaneously. The estimated cost of the project is Rs. 22.98 lakhs. The Project Proponent has informed that the baseline monitoring has been conducted for summer season March to May-2015 based on ToR conditions and the same is informed to the Ministry vide letter no. PV-II/MoEF&CC/15-16/299 dated 22.04.2015.

Ministry had accorded ToR to the project vide letter no. J-11015/264/2013-1A-II(M) dated 27.01.2015. The PP has requested to amend the TOR with respect to proposed production capacity from 11, 95,803 TPA (ROM) to 8,39,398 TPA (ROM) of Bauxite and area 70.8216 ha with mining working area 56.6576 ha as per Modified Mine Plan. PP has submitted the revised Form-I and PFR. The PP submitted that they have moved application for surrendering the mine lease area falling within the Eco-sensitive Zone, which is under

consideration with the State Government. The Committee informed the PP that the application for EC shall be considered only after the revised LOI/lease document excluding the area falling in the ESZ of Marine national Park and Sanctuary.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **recommended the Amendment in TOR** with respect to production capacity from 11, 95,803 TPA (ROM) to 8, 39,398 TPA (ROM) and reduced area from 70.8216 to 56.6573 ha.

(3.4) J-11015/120/2013-IA.II(M) Virpur (Gunawali) Bauxite Mine capacity 1, 51,875 TPA of M/s Smt Pushpaben Prabhudas Makhecha located at village- Virpur (Gunawali), Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat 55.2520 ha (reduced area 37.1670 ha)-Amendment of TOR.

The mine lease is located at village Virpur (Gunawali), Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat. The mine lease area is between 22°15'38.7" N to 22°16'17" N and 69°17'43.6" E to 69°18'25.5" E, Survey No. 110/P. It is a category A Project, and Marine National Park & Marine Sanctuary is present within 5 km of the study area.

The mining lease was executed in favour of M/s Smt Pushpaben Prabhudas Makhecha over 55.2520 (reduced area 37.1670 ha). The Mining Lease was granted over an area of 55.2520 ha in village Virpur (Gunawali), Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat vide Govt. order no. MCR-1584(M-40)/5883 CHH dated 01.02.1992 and executed on 27.06.1994 for a period of 20 years. Lessee has applied for renewal on 16.06.2012 and lease is valid as per new MMDR Ordinance 2015. Modified Mining Plan has been approved by IBM vide letter 682 (23) (M.P.-522/2009-II MCCM (N) Udaipur dated 03.09.2015. As per Modified Mining Plan production capacity is revised as 1,51,875 TPA from 8,18,418 TPA with mining working area is 37.1670 ha as blocks are falling in the Eco Sensitive Zone (ESZ) as per the notification issued by MoEC&CC dated 22.08.2013.

The method of mining will be Opencast Semi mechanized mining method. Total water requirement for drinking and operations will be 8 KLD from nearby villages. The waste generated will be backfilled simultaneously. The estimated cost of the project is Rs. 23.98 lakhs. The Project Proponent has informed that the baseline monitoring has been conducted for summer season March to May-2015 based on ToR conditions and the same is informed to the Ministry vide letter no. PPM/MoEF&CC/15-16/300 dated 22.04.2015.

Ministry has accorded ToR to the project vide letter no. J-11015/120/2013-1A-II (M) dated 04.02.2015. The PP has request to amend the TOR with respect to proposed production capacity from 8,18,418 TPA (ROM) to 1,51,875 TPA (ROM) of Bauxite, area 55.2520 ha with mining working area 37.1670 as per Modified Mine Plan. PP has submitted the revised Form-I and PFR. The PP submitted that they have moved application for surrendering the mine lease area falling within the Eco-sensitive Zone, which is under consideration with the State Government. The Committee informed the PP that the application for EC shall be considered only after the revised LOI/lease document excluding the area falling in the ESZ of Marine national Park and Sanctuary.

Based on the information furnished and presentation made by the project proponent and discussions held, the **Committee recommended the Amendment in TOR** with respect to production capacity from 8,18,418 TPA (ROM) to 1,51,875 TPA (ROM) and reduced area from 55.2520 to 37.1670 ha.

(3.5) J-11015/244/2013-IA.II(M) Virpur, Mewasa , Kenedy & Mota Asota Bauxite Mine capacity 5, 99,300 TPA of M/s Prabhudas Vithaldas – I located at village- Virpur, Mewasa, Kenedy & Mota Asota, Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat 67.1827 ha (reduced area 59.0889 ha)- Amendment of TOR.

The mine lease is located at village Virpur, Mewasa, Kenedy & Mota Asota, Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat. The co-ordinate of Virpur Mewasa, Kenedy & Mota Asota Blocks and Kenedy block of the Mine Lease area are 22°13'46.5" N to 22°17'24.6" N & 69°18'03.7" E to 69°20'31.7" E and 22°04'01.5" N to 22°05'14.4" N & 69°18'20" E to 69°18'48.6" E respectively. The project is located in seismic zone- IV. Marine National Park & Marine Sanctuary, Eco Sensitive Zone lies within 5 km of study area.

The mining lease was executed in favour of M/s Prabhudas Vithaldas – I over 67.1827 ha (reduced area 59.0889 ha). The Mining Lease was granted over an area of 67.1827 ha in village Virpur, Mewasa, Kenedy & Mota Asota, Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat vide Govt. order no. MNL-1559/202648-MNG dated 12.11.1959 for 30 years.

The Lessee submitted the first renewal application (Form-"J") to the competent authority dated 14.02.1989. Lessee has applied for second renewal on 11.11.2008 for a period of 20 years and lease is valid as per new MMDR Ordinance 2015. Mining Scheme has been approved by IBM vide letter. 682(23) (726)/2010-MCCM (N) Udaipur dated 31.07.2015. As per Mining Scheme production capacity is revised as 5, 99,300 TPA from 10, 13,260 TPA with mining working area is 59.0889 ha as blocks are falling in the Eco Sensitive Zone (ESZ) as per the notification issued by MoEC&CC dated 22.08.2013. The Project Proponent has informed that the baseline monitoring has been conducted for summer season March to May-2015 based on TOR conditions.

Ministry has accorded ToR to the project vide letter no. J-11015/244/2013-1A-II (M) dated 20.02.2015. The PP has request to amend the TOR with respect to proposed production capacity from 10, 13,260 TPA (ROM) to 5, 99,300 TPA (ROM) of Bauxite, area 67.1827 ha with mining working area 59.0889 ha as per Mine Scheme. PP has submitted the revised Form-I and PFR. The PP submitted that they have moved application for surrendering the mine lease area falling within the Eco-sensitive Zone, which is under consideration with the State Government. The Committee informed the PP that the application for EC shall be considered only after the revised LOI/lease document excluding the area falling in the ESZ of Marine national Park and Sanctuary.

Based on the information furnished and presentation made by the project proponent and discussions held, the **Committee recommended the Amendment in TOR** with respect to production capacity from 10,13,260 TPA (ROM) to 5,99,330 TPA (ROM) and reduced area from 67.1827 to 59.0889 ha.

(3.6) J-11015/192/2010-IA.II(M) Varda Bauxite Mine with the production capacity 3,24,430 TPA of (ROM) by M/s Orient Abrasives Ltd. , located at Village-Mewasa, Taluka-Kalyanpur, District –Jamnagar(Dev Bhoomi Dwarka) Gujarat (37.2098 ha)-Amendment of TOR.

The Proposal of M/s Orient Abrasives Ltd. is for enhancement of production capacity to 3,24,430 TPA (ROM) of Varada Bauxite Mine with the total mining area of 37.2098 ha falling in 2 adjoining blocks of survey no.330/p, village-Mewasa, Taluka-Kalyanpur, District-Devbhoomi Dwarka, Gujarat. Latitudes and Longitudes of the Varada Bauxite Mine cluster are 22°14'18.0"N to 22°14'48.9"N and 69°17'58.8"E to 69°19'12.6"E. The mining lease lies at a distance of 2.6 km from Marine Sanctuary and 15.7 km from Gaga Bird Sanctuary. It is a category 'A' Project as the Mine area is located within 5km of Protected Area.

Method of mining is open cast Semi Mechanized. The lease area is a Government Waste Land and as per new Mining Ordinance 2015, these mining leases are valid up to 2030. Man power requirement is 98. Total water requirement for drinking domestic and dust suppression is 46.83 KLD. Total cost of the project is 68.42 lakhs. The Project Proponent has informed that the baseline monitoring has been conducted for both the adjoining leases for summer season March to May-2015 based on ToR conditions.

PP has requested for Amendment in ToR and issue a single ToR by considering Cluster Approach for both adjoining Varada-I & Varada-II mining leases for which ToR was issued and baseline monitoring data already carried out from March-2015.

PP presented that the importance of cluster approach for their both 2 small adjoining mining projects were based on Techno-Economic conditions and considering Mining in Systematic and Scientific manner, amalgamation proposal consideration with State Government, New Mining Ordinance stating lease validity period up to 2030 for captive use industry and considering the amendments in EIA Notification, 2006 on 7th October, 2014, for group of leases fall within the radius of 500m. The details of lease area are as follows:-

Name of Cluster	Name of Lease	Lease Area (Ha)	Cluster Area (ha)	Distance from Eco Sensitive Areas		Distance Between leases
				Distance From ESZ	Distance from Marine Sanctuary	
Varada Bauxite Mine	Varada-I	11.33	37.2098	2.1	3.1	Adjoining leases
	Varada-II	25.8798		1.6	2.6	

PP has submitted revised Form-I and PFR for Varada Mine Cluster with production

capacity 3,24,430 TPA (ROM), area 37.2098 ha. The Committee informed the PP that the application for EC shall be considered only after the revised LOI/lease document amalgamating both the lease is submitted by PP.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **recommended the proposal for grant of fresh TOR** for amalgamated mine lease as per annexure-I taking into consideration that the baseline monitoring data is already carried out from March-2015.

(3.7) River bed minor mineral mine of M/s Barwala Royalty Company located at village Mandlai, Tehsil Raipur Rani, Dist. Panchkula, Haryana (13.40 ha; 4,98,000 TPA) – Consultant : ENVIRTA Sustainable Solutions India Pvt Ltd.

The Proposal of M/s Barwala Royalty Company is for Boulder, Gravel and Sand (Minor Mineral) with proposed production capacity of 4.98 Lakhs TPA (ROM). The mine is located at Kiratpur Block /PKL B 5 & 6 in Village Kiratpur and Paploha, Tehsil- Kalka, District- Panchkula, Haryana. It is category 'A' Project lies near Interstate boundaries between Haryana & Punjab located at 4.91 Km and between Himachal Pradesh & Haryana state boundaries is located at 4.83 Km from project site. The Geographical Co-ordinates for the mine site Block A Latitude: 30° 50' 45.19" N & Longitude: 76°52'49.52" East. Block B Latitude: 30° 50' 45.43 " N & Longitude: 76° 52' 10.13 E. The mine site falls on Survey of India Toposheet no.- H43K13. The project site lies on Kiratpur Nadi.

The total lease area of the Project is 13.40 Ha. LOI for the Mining Lease of Kiratpur Block /PKL B 5 & 6 was awarded to M/s Barwala Royalty Company vide letter no DMG/Hy/Cont./K.pur Block/PKL B 5&6 /2015/3671 dated 09/06/2015. The Project Proponent reported that no National Park, Wildlife Sanctuary and other eco-sensitive area are located at a distance of 10 Km from the mine blocks. There is no Forest land within the ML Areas. The operation will be opencast semi mechanized method. The minerals will be collected in its existing form. Excavation will be carried out only up to a depth of 3m bgl. Extraction of Boulder, Gravel and Sand material will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 12.60 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 70 Lakhs. The cost for Environmental Protection Measures is 3.50 Lacs.

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.

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 a 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.

The meeting ended with the vote of thanks to the Chair.

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

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|-----|---|------------------|
| 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. S. K. Peshin | Member |
| 8. | Dr. U. Sridharan, | Member Secretary |
| 9. | Representative of M/s GE Power & Water process Technology | |
| 10. | Representative of M/s Aman Sethi | |
| 11. | Representatives of M/s Manjeet Singh Chawla | |
| 12. | Representatives of M/s Ultra Tech Cement Ltd | |
| 13. | Representatives of M/s. Shri Ramashankar Gurjar | |
| 14. | Representatives of M/s Himmat Singh Shekhawat | |
| 15. | Representatives of M/s Shiva Corporation (I) Ltd | |
| 16. | Representatives of M/s Abhishek | |
| 17. | Representatives of M/s Rajasthan State mines and Minerals Limited | |
| 18. | Representatives of M/s Shri Gopal Lal Agal | |
| 19. | Representatives of M/s Atikur Rahaman | |
| 20. | Representatives of M/s Bharat Singh Shekhawat | |
| 21. | Representatives of M/s Himmat Singh Shekhawat | |
| 22. | Representatives of M/s Abhimanyu singh | |
| 23. | Representatives of M/s Paras Sethi | |
| 24. | Representatives of M/s Raman Sethi | |
| 25. | Representatives of M/s Andhi Marble Private Limited | |
| 26. | Representatives of M/s Wimrock Granite Pvt. Ltd | |
| 27. | Representatives of M/s Department of industries and Commerce | |
| 28. | Representatives of M/s Anita Kumari | |
| 29. | Representatives of M/s Manoj Tiwari | |
| 30. | Representatives of M/s Sri Dilip Kumar Singh | |
| 31. | Representatives of M/s Astin Excavation & Mining Pvt. Ltd. | |
| 32. | Representatives of M/s Ashapura Minechem Limited | |
| 33. | Representatives of M/s SKS Cement Limited | |
| 34. | Representatives of M/s Misrilall Mines Pvt. Ltd. | |
| 35. | Representatives of M/s Shri Dinesh Trikanan | |
| 36. | Representatives of M/s Routes & Journeys | |
| 37. | Representatives of M/s Geomysore Services (India) Pvt. Ltd. | |
| 38. | Representatives of M/s Orissa Mining Corporation Limited | |
| 39. | Representatives of M/s J.K. Lakshmi Cement Limited | |
| 40. | Representatives of M/s Grasim Industries ltd. | |

41. Representatives of M/s Smt. Roshni Devi
42. Representatives of M/s Shri Lachmi Chand
43. Representatives of M/s Smt. Asha Rani Dang
44. Representatives of M/s Uttarakhand Forest Development Corporation (UKFDC)
45. Representatives of M/s Khajuraho Minerals
46. Representatives of M/s Pradhan Associates
47. Representatives of M/s Shree Cement Ltd.
48. Representatives of M/s Lafarge India Pvt. Ltd
49. Representatives of M/s Sh. Shivsaran Singh
50. Representatives of M/s Monnet Ispat & Energy Ltd.
51. Representatives of M/s Nasib singh s/o sh. Hardeep singh
52. Representatives of M/s Telangana State Mineral Development Corporation Ltd.
53. Representatives of M/s Sh. Ranbir Singh S/O Sh. Mohinder Singh
54. Representatives of M/s Sri. Hans Enterprises
55. Representatives of M/s Hira Power & Steels Ltd.
56. Representatives of M/s Mangalore Minerals (P) Limited
57. Representatives of M/s Balasore Alloys Ltd
58. Representatives of M/s Kalyanpur Cements Limited
59. Representatives of M/s Smt. Rama S. Mendon
60. Representatives of M/s Saurashtra Chemicals Ltd
61. Representatives of M/s Shri Amit Arya
62. Representatives of M/s Shri Bidhi Chand S/o Shri Tari Ram
63. Representatives of M/s Shri Shashi Adlakra and Shri Pritam Singh
64. Representatives of M/s Shri Gurcharan Singh
65. Representatives of M/s Krishna Miners & Traders
66. Representatives of M/s Rakesh Agencies
67. Representatives of M/s Madhya Pradesh Mineral Supply Company
68. Representatives of M/s West Bengal Mineral Development and Trading Cor. Ltd.
69. Representatives of M/s Prabhudas Vithaldas
70. Representatives of M/s Pushpaben Prabhudas Makhecha
71. Representatives of M/s Orient Abrasives Ltd.
72. Representatives of M/s Barwala Royalty Company
