

**MINISTRY OF ENVIRONMENT & FORESTS
(IA DIVISION)**

SUMMARY RECORD OF 12th MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The 12th Meeting of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment and Forests was held during **31st October & 1st November, 2013**. The list of participants is annexed.

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

Item No. 1:

1.1 Confirmation of the minutes of the 11th EAC Meeting.

The Minutes of the 11th Meeting of EAC held during 25th - 27th September, 2013 were confirmed as circulated.

Agenda Item No. 2:

2.1 Underground mining proposal for enhancement of production from 0.35 million TPA to 1.0 million TPA of Lead-Zinc Ore by M/s Hindustan Zinc Limited, located at Village Kayar, Distt. Ajmer, Rajasthan (480.45 ha) (Consultant: VIMTA Labs Ltd, Hyderabad)-EC

The proposal of M/s Hindustan Zinc Limited is for enhancement of production from 0.35 million TPA to 1.0 million TPA of Lead-Zinc Ore in its existing underground mine at Kayar, Ajmer District, Rajasthan over a mining lease area of 480.45 ha. The mine lease area lies between latitude 26° 31' 30" N to 26° 32' 30" N, longitude 74° 41' 00" E to 74° 42' 00" E and is covered by Survey of India Topo sheet no. 45 J/10.

The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during 23-25 May, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by the Ministry vide letter no. J-11015/47/2012.IA.II (M) dated 06.07.2012. The proponent submitted the EIA/EMP report to the Ministry for seeking environmental clearance after conducting public hearing.

The Ministry has earlier accorded the environmental clearance for existing integrated cement project vide MOEF letter no. J-11011/267/2008-IA II (I) dated 11.12.2009 for 0.35 million TPA of Lead-Zinc ore. The certified compliance report of the conditions stipulated in the earlier EC was submitted by the Regional Office of MoEF, Lucknow vide letter dated 31.07.2013. The Committee deliberated the compliance status at length.

The modified mining plan with progressive mine closure plan has been approved by Indian Bureau of Mines (IBM) vide letter no. 584(5) (3) (406)/11, dated 07.05.2013. The mine lease area is 480.45 ha. Out of this 445.82ha is Agricultural land, 11.1 ha is waste land and 23.53ha is Govt. land. No forest land is involved. The Mining Lease has been sanctioned to M/s Hindustan Zinc Limited, vide letter of Government of Rajasthan no. ML No. 16/92, dated 28/02/1998 for a period of twenty years.

Mining is by mechanized underground method. The life of mine is 15 years. Proponent reported that latest mechanized equipment for development drilling, mucking, and hauling will be deployed at the mine. The blast design, stope stability and monitoring is being done under guidelines of CIMFR Dhanbad. The total water requirement for the mine will be 560 m³/day. Out of which, 75 m³/day fresh water sourced from PHED for domestic consumption, 200 m³/day of treated sewage water sourced from Ajmer city with recycled quantity of 50 m³/day from internal STP and 88 m³/day from operations and 147 m³/day mine dewatering will be reused for back filling and dust suppression. The Ore will be transported to Rampura Agucha mine for mineral beneficiation. About 143,000 m³ waste will be generated from the mine development during the Phase-I of mining and waste dumping in a specifically assigned area of 1.0 ha within the lease boundary. The waste will be used for back filling.

Proponent informed that since it is underground mining operations, hazardous situation may arise leading to accidents and accordingly as per the Metalliferous Mines Regulations, 1961, possibility of occurrence of hazards and the mitigation measures will be adopted. Proper precautions and remedial measures will be taken to prevent the occurrence of hazards.

The baseline data was generated for the period during pre-monsoon season i.e. March 2012 to May 2012. All the parameters for water and air quality were within permissible limits. The Committee noted that the base line monitoring data were prior to the issuance of TORs. PP informed the Committee that they had requested to use the base line data during the presentation in the EAC meeting held during May 23-25, 2012 to determine the TORs, however it was not reflected in the Minutes of the meeting. The Committee deliberated the issues and were of the opinion that as the base line data was well within the permissible limits as prescribed by the CPCB, the base line data could be accepted.

It was reported by the PP that no ecologically sensitive area/protected areas such as National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). However, two Reserved Forest and two Protected Forests exist within the 10 km area. One Schedule I species i.e. Peacock is reported in the study area during survey.

The Public Hearing was conducted on 25.06.2013 under the chairmanship of Mr. Gajendra Singh Rathore, Additional District Collector, Ajmer. The representative of Regional Office from the Rajasthan Pollution Control Board was also present. The Committee discussed the issues raised during the public hearing.

The total cost of the project is Rs. 350 crores. The PP has earmarked Rs. 4.30 crores towards Environmental Protection Measures. PP informed that Rs. 150 Lakhs have been earmarked towards socio-economic welfare measures for the nearby villages. PP reported that 17 petitions were filed by the appellants for higher compensation. The Committee desired that such important issues of the compensation should be sorted out mutually with the intervention of Panchayat or local Govt., if needed.

After deliberations, the Committee sought the following additional information:

- (i) Need to have site specific Environment Policy for Lead & Zinc in view of biological Impacts of lead on the food chain, animal life and human life;
- (ii) Details of ventilation plan and dust containment measures for underground mining activities;
- (iii) Details of Occupational health;
- (iv) Details of blasting pattern and safety system underground.
- (v) Details of influence of water on the proposed mining;
- (vi) Species specific wild life conservation plan;
- (vii) Commitments to the implementation of the recommendations of the Specific Studies w.r.t Mine Safety Report provided by BHU and CIMFR;
- (viii) Details of infrastructure facility for the mine workers need to provided as per TOR condition 32; and
- (ix) Details of Endangered and native species reported in the study area need to be planted and a nursery for their proliferation developed.

The Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid information is submitted in the form of an Addendum to the EIA/EMP Report.

2.2 Ankua Iron Ore Mine with production capacity of 10 million TPA of Iron Ore (ROM) by M/s JSW Steel Limited, located in village Ankua-Hatnaburu, Tehsil Manoharpura, District West Singhbhum, Jharkhand (999.90ha)- EC

The proposal of M/s JSW Steel Limited is for Iron Ore Mining with production capacity of 10 million TPA of Iron Ore (ROM). The mine is located in village Ankua-Hatnaburu, Tehsil Manoharpura, District West Singhbhum, Jharkhand. The mine lease area lies between latitude 22° 13' 44.34" N to 22° 17' 20.50"N and longitude 85° 14' 35.08" E to 85° 17' 16.66"E within the Survey of India topo sheet No.73F/3, 73F/7 and 73F/8.

The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during 22-24 July, 2008 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by the Ministry vide letter no. J-11015/1230/2007.IA.II (M) dated 04.09.2008. The proponent submitted the EIA/EMP report to the Ministry for seeking environmental clearance after conducting public hearing. The proposal was earlier considered in EAC meeting held during August 25-27, 2010 wherein it was pointed out by the Committee that being a green field project to be located in forest area for which prior forestry clearance was made a pre requisite at the stage of TOR itself and accordingly proposal was deferred. The project Proponent has obtained Forestry Clearance dated 10.05.2013 for an area of 998.07 ha covering mining and allied activities (excluding safety zone), conveyor and corridor and road widening/strengthening. Accordingly, the Ministry has decided to consider the proposal for EC.

The Mine Plan for the proposed Ankua Iron Ore Mine was approved by the Indian Bureau of Mines, Nagpur vide letter no. 314(3)/2008 MCCM (CZ)/MP-30, dated 27-01-2009. The Govt. of Jharkhand had granted Mining Lease over an extent of 999.90 ha in Saranda Forest Division of West Singhbhum, Jharkhand in September 2008. The mining block has mineable reserves of 211.31 MT of iron ore and with an estimated production of 10 MTPA, the life of the mine is 23 years. The estimated cost of the project is Rs. 1700 Crores.

The Project Proponent have mentioned that the Govt. of Jharkhand proposed that a Comprehensive Wildlife Management Plan (CWMP) for the entire Saranda Forest Division shall be prepared and have constituted an Expert Committee for the same vide Notification No. 3296 dt. 27-08-2011. The Expert Committee had since submitted the Report to the Govt. of Jharkhand and the same has been approved by the Chief Wildlife Warden, Jharkhand (CWLW). M/s JSW has already submitted an undertaking to the CWLW vide letter dated 20-08-2010 to bear the proportionate cost of implementation of the CWMP for Saranda.

The Committee noted that the EIA/EMP report has not been prepared in-line with the Annexure-III of EIA Notification, 2006. The Committee observed that Indian Council of Forestry Research and Education (ICFRE) is no longer accredited by NABET/QCI. However, ICFRE has conducted the baseline studies and prepared the EIA-EMP report during the period prior to the requirement of the accreditation by QCI came into force. Therefore, it was decided by the Committee that report is acceptable but needs to be augmented by collecting one month AAQ data (during November-December, 2013) incorporating the National Ambient Air Quality, 2009 parameters.

After deliberations, the Committee sought the following additional information:

- (i) The EIA/EMP report submitted need to revised in line with the Annexure-III of the EIA Notification, 2006 and be prepared by QCI/NABET accredited consultant;
- (ii) TORs issued were for Iron ore mining and thus the Reports should be limited to iron ore mining. Further, as per the report

submitted by PP it mentions that manganese ore is intermittently present along with iron ore. The PP need to ensure safety measures to be adopted while handling manganese and these be mentioned in the EIA/EMP report ;

- (iii) Questionnaire needs to be revised and shall be duly filled;
- (iv) Air Quality modeling results in the form of isopleths should be drawn on contour map;
- (v) The land use plan given in the EIA report is at variance with that projected in the mine plan and therefore needs to be reconciled;
- (vi) Details of public consultation/public hearing and action plan with budgetary provisions should be given and
- (vii) Details of Occupational health status and action plans should be furnished;

The Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid information is submitted in the form of an Addendum to the EIA/EMP report.

2.3 Marauli Sand/Murrum Mine of M/s Shri Prakash Chandra Dwivedi, Village Marauli, Taluka Banda, District Banda, Uttar Pradesh (150.00ha, 0.18 MTPA)-Environmental Clearance.

The project is located at village Marauli, Tehsil & District Banda of U.P. The point represented by Latitude and Longitude in the site is 25°32'05"N and 80°17'00"E, the mine site falls in survey of India topo sheet no. 63 C/6. The proposal was considered by the Expert Appraisal Committee in its meeting held on 26th August, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter J-11015/154/2011-IA-II(M), dated 07.05.2012.

The mine lease area is 60.73 ha & is river sand bed & bank. The Mining Plan is approved by DGM(UP) vide letter no. 169/MP/2013 dated 06.05.2013. Mining will be confined in the lease area in the river bed. Open cast Manual method of mining will be adopted. Total Mineable reserves as on 01.01.2012 upto a depth of 3m are 9.845 lakh m³ or 1.772 million tones. There will be 3 benches of half meter each. Drilling & blasting will not be required. 0.18 MTPA of sand/murrum will be produced from the mine. The mining will be done upto 1.5 m depth. A haul road, 4m wide will be made along the side of mine benches. Trucks/tractor, trolleys will be used for the mineral transportation. The total water requirement will be 3.3 KLD. The 0.3KLD of water will be met from the dug well / bore well for drinking purposes. 3.0 KLD of water will be taken from Ken River for water sprinkling & plantation purpose.

It was reported by Project Proponent that no national park, Wild Life Sanctuary/Tiger Reserve/Schedule I species etc. is located within 10 km of the mine. The baseline studies were carried out in October, November and

December, 2011. The Public Hearing meeting was held on 23.09.2012 in the Marauli village, Tehsil and District Banda. Public Hearing meeting was chaired by Shri K.N. Singh, ADM, Banda. The major issues raised during public hearing were to mitigate air and noise pollution by vehicles used for transportation, construction of roads, generation of employment opportunities, health check of employees & the villagers, plantation, sanitation, compensation for road construction to the owners of land etc. Budgetary provision have been made in EIA/EMP report, in addition 2.0% of revenue will be spent on rural development & welfare of the villagers.

The total cost of the project is Rs. 65 lakh. The total capital cost on environment, recurring cost on Environment and Peripheral Development work are Rs. 6.0 lakhs, 8.0 lakhs and 6.5lakhs respectively. The mine was in operation till 30.06.2011 and stopped as per the letter of Mining Officer Uttar Pradesh. The project proponent informed in the meeting that this is not a violation case as the mine was closed since 30.6.2011. As per the order of Hon'ble High Court of Allahabad in W.P. 9416 (M/B) of 2010 in matter of Mohd. Kausar Jah vs. Union of India and others, and Writ Petition No.10025 of 2010 (M/B) Shyam Bahadur Sakhya Vs. Union of India & Ors. mining was permitted upto 30.6.2011.

The Committee deliberated and was of the opinion that status on replenishment of the minor mineral, impact of local transport of raw material and revised questionnaire need to be furnished by the PP before a decision is arrived at. The PP informed that the said information is available with them and requested the Committee to allow to submit the information by evening. The committee agreed and decided that the proposal could be considered on 01.11.2013. The PP submitted the information which was deliberated and based on discussions held, the Committee **recommended** the proposal for environmental clearance.

2.4 Kanwara River Bed Sand/Murrum Mine with production capacity of 0.18MTPA of M/s Shri Prakash Chandra Dwiwedi and Shri Amitesh Kumar at Village Kanwara, Taluka Banda, District Banda, Uttar Pradesh (78.69ha)-Environmental Clearance.

The project is located at village, Kanwara, Tehsil and District Banda of U.P. The point represented by Latitude and Longitude in the site is 25°31'00"N and 80°22'00"E, the mine site falls in survey of India topo sheet no. 63 C/6. The proposal was considered by the Expert Appraisal Committee in its meeting held on 26th August, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter J-11015/152/2011-IA-II(M), dated 30.03.2012.

The mine lease area is 78.69 ha and is river sand bed. The Mining Plan is approved by DGM(UP) vide letter no. 167/MP/2013 dated 06.05.2013. Mining will be confined in the lease area. Open cast manual method of mining will be adopted. Total Mineable reserves as on 01.01.2012 upto a depth of 3m are 2.07 million tonnes. There will be 3 benches of half meter each. Drilling & blasting will not be required. 0.18 MTPA of sand/murrum will be produced from the mine. The mining will be done upto 1.5 m depth & the excavated area. A haul road,

4m wide will be made along the side of mine benches. Trucks/tractor, trolleys will be used for the mineral transportation.

The total water requirement will be 3.3KLD. The 0.3KLD of water will be met from the dug well/bore well for drinking purposes. 3.0 KLD of water will be taken from Ken River for water sprinkling & plantation purpose.

It was reported by Project Proponent that no national park, Wild Life Sanctuary/Tiger Reserve/Schedule I species etc. is located within 10 km of the mine. The baseline studies were carried out in October, November and December, 2011. The Public Hearing meeting was held on 22.09.2012 in the Kanwara village, Tehsil and District Banda and was chaired by Shri K.N. Singh, ADM, Banda. The major issues raised during public hearing were to mitigate air and noise pollution by vehicles used for transportation, construction of roads, generation of employment opportunities, health check of employees & the villagers, plantation, sanitation, compensation for road construction to the owners of land etc. Budgetary provision have been made in EIA/EMP report, in addition 2.0% of revenue will be spent on rural development & welfare of the villagers.

The total cost of the project is Rs. 65 lakh. The total capital cost on environment, recurring cost on Environment and Peripheral Development work are Rs. 6.0 lakhs, 8.0 lakhs and 6.5lakhs respectively. The mine was in operation till 30.06.2011 and stopped as per the letter of Mining Officer Uttar Pradesh. The project proponent informed in the meeting that this is not a violation case as the mine was closed since 30.6.2011. As per the order of Hon'ble High Court of Allahabad in W.P. 9416 (M/B) of 2010 in matter of Mohd. Kausar Jah vs. Union of India and others, and Writ Petition No.10025 of 2010 (M/B) Shyam Bahadur Sakhya Vs. Union of India & Ors. mining was permitted upto 30.6.2011.

The Committee deliberated and was of the opinion that status on replenishment of the minor mineral, impact of local transport of raw material and revised questionnaire need to be furnished by the PP before a decision is arrived at. The PP informed that the said information is available with them and requested the Committee to allow to submit the information by evening. The committee agreed and decided that the proposal could be considered on 01.11.2013. The PP submitted the information which was deliberated and based on discussions held the Committee **recommended** the proposal for environmental clearance.

2.5 Achhround River Bed Sand/Murrum Mine with production capacity of 0.18 MTPA of M/s Shri Prakash Chandra Dwiwedi at Village Achhround Tehsil, Banda, district Banda, Uttar Pradesh (68.29ha)- Environmental Clearance.

The project is located at village Achhround, Tehsil & Distt. Banda (U.P.). The point represented by Latitude and Longitude in the site is 25°32'05"N and 80°17'00"E, the mine site falls in survey of India topo sheet no. 63 C/6. The proposal was considered by the Expert Appraisal Committee in its meeting held on 26th August, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter J-

11015/153/2011-IA-II(M), dated 07.05.2012. The mine lease area is 68.293 ha & is river sand bed. The Mining Plan is approved by DGM (UP) vide letter no. 168/MP/2013 dated 06.05.2013.

Open cast Manual method of mining will be adopted. Total mineable reserves as on 01.01.2012 upto a depth of 3m are 1.79 million tones. There will be 3 benches of half meter each. Drilling & blasting will not be required. 0.18 MTPA sand/murram will be produced from the mine. The mining will be done upto 1.5 m depth. A haul road, 4m wide will be made along the side of mine benches. Trucks/tractor, trolleys will be used for the mineral transportation.

The total water requirement will be 3.3KLD. The 0.3KLD of water will be met from the dug well / bore well for drinking purposes. 3.0 KLD of water will be taken from Ken river for water sprinkling & plantation purpose.

It was reported by Project Proponent that no national park, Wild Life Sanctuary/Tiger Reserve/Schedule I species etc. is located within 10 km of the mine. The baseline studies were carried out in October, November and December, 2011. The Public Hearing meeting was held on 20.08.2012 in the Achhround village, Tehsil and District Banda and was chaired by Shri K.N. Singh, ADM, Banda. The major issues raised during Public Hearing were to mitigate air and noise pollution by vehicles used for transportation, construction of roads, generation of employment opportunities, health check of employees & the villagers, plantation, sanitation, compensation for road construction to the owners of land etc. Budgetary provisions have been made in EIA/EMP Report, in addition, 2.0% of revenue will be spent on rural development & welfare of the villagers.

The total cost of the project is Rs. 65 lakhs. The total capital cost on environment, recurring cost on Environment and Peripheral Development work are Rs. 6.0 lakhs, 8.0 lakhs and 6.5 lakhs respectively. The mine was in operation till 30.06.2011 and stopped as per the letter of Mining Officer Uttar Pradesh. The project proponent informed in the meeting that this is not a violation case as the mine was closed since 30.6.2011. As per the order of Hon'ble High Court of Allahabad in W.P. 9416 (M/B) of 2010 in matter of Mohd. Kausar Jah vs. Union of India and others, and Writ Petition No.10025 of 2010 (M/B) Shyam Bahadur Sakhya Vs. Union of India & Ors. mining was permitted upto 30.6.2011.

The Committee deliberated and was of the opinion that status on replenishment of the minor mineral, impact of local transport of raw material and revised questionnaire need to be furnished by the PP before a decision is arrived at. The PP informed that the said information is available with them and requested the Committee to allow to submit the information by evening. The committee agreed and decided that the proposal could be considered on 01.11.2013. The PP submitted the information which was deliberated and based on discussions held the Committee **recommended** the proposal for environmental clearance.

2.6 Renewal of mine lease and Silica Sand and Agate Mine of M/s All India Minerals with production capacity of 3,00,000 TPA/annum Silica Sand and 1,000 TPA of Agate at Village Bhimpor, Taluka Jhagadia,

District Bharuch, Gujarat (181.51 ha) (Consultant: Perfect Enviro Solutions Pvt. Ltd.)- TORs

The proposal of M/s All India Minerals is for Silica Sand and Agate Mining with production capacity of 3,00,000 TPA (ROM) of Silica Sand and 1,000 TPA (ROM) of Agate. The mine is located at Village Bhimpor, Taluka Jhagadia, District Bharuch, Gujarat.

The Proponent has informed that the lease area of 181.51 ha was sanctioned vide letter no. MCR-1561 GII, dated 15.06.1963 to Shri K. M. Akikawala. The lease was transferred to Shri S. C. Patel on 16.08.1976 and further transferred to Shri A.I. Saiyed on 17.07.1980. The lease expired in 1983 and further renewed and again expired on 13.06.2003 and the lessee has applied for renewal of the lease from 02.05.2002. The lease area of 3.29 ha have been deducted as per Govt. Order dated 07.04.2007, therefore the executed lease area is 178.22ha. The mine plan was approved by State Govt. vide letter no. CGM/MC/342/4652 dated 26.03.2013.

The Proponent has informed that the mine was operating since 2007 to June 2013 and mined out 4.72 Lakh Tonnes of Silica Sand and 530 Tonnes of Agate. The Committee noted that it is a **violation** case as the PP had started production of Silica Sand & Agate without obtaining requisite prior environmental clearance since 2007. PP informed that the mine is closed since June 2013.

Mining is by semi-mechanized opencast method with maximum depth of 16m. PP reported that there is no Wild Life Sanctuary, National Park, Biosphere Reserves, Wildlife Corridors, Tiger /Elephant Reserves within the 10 km of the mine lease area.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional condition (i) 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, (ii) Proper species specific Conservation plan for Schedule-I and II species.

2.7 Pipaljori Stone Mine 1,97,225 TPA of M/s. Basant Stone Works located at Village – Pilaljori, Thana – Pakur, Dist. Pakur, State – Jharkhand, (5.03ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)- TORs

The Proposal was **deferred** on the request of the Project Proponent.

2.8 Mineral – River Sand (Bajri) Mine with production capacity of 28,05,00 TPA (ROM) by M/s. Surya Associates, located at near villages – Basni Baghela, Bhacharna & others, Tehsil–Luni, Distt. Jodhpur, (2363 ha) (Consultant: Perfect Enviro solutions Pvt. Ltd., New Delhi)- TORs

The mine lease area is located near villages Basni Baghela, Bhacharna, Bhakrasani, Bhakri, Bhandoo Kalan, Bhandoo Khurd, Bujhawar, Chainpura Bhatan, Dhandhiya, Dhawa I, Dhigana, Dhundhara, Doli, Doli Kalani, Doodiya,

Gangana, Gelawas, Gujrawas Kalan, Gura Vishnoiyan, Heer Khera, Jatiyasani, Jhanwar, Kakani, Kharda Bhandoo, Khejarli Kalan, Khejarli Khurd, Lakhar Thumb, Loonawas Charna, Loonawas Kalan, Loonawas Khurd, Luni, Melwa, Nandwan, Narnadi, Nimbala, Piprali, Rajeshwar Nagar, Rajor, Rajpuriya, Rohila Bhandoo, Salawas, Sangasani, Satlana, Shikarpura, Singasani, Tanawara, Vishawas, Vishnu Ki Dhani, Tehsil - Luni, District-Jodhpur, Rajasthan.

The proposed production capacity is 28.05 Lakh TPA. The lease area lies on River Khari. The mine lease area is between 26°07'32.57"N, 73°15'14.79"E to 25°58'55.29"N to 72°59'43.22"E. The project is located in Seismic Zone-II. Total mine lease area of the project is 2363ha. Total length of the Khari River allotted for mining is about 76km.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The lease area has been granted vide Rajasthan State Govt. Letter of Intent (F-8(7) Khan/Group-2/13 Jaipur dated 13th June 2013.

Total water requirement will be 16 KLD. This water will be sourced from nearby wells & tube wells through water tankers for drinking, dust suppression and plantation purposes. The total project cost would be around 4.5 Crores.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.9 Mineral – River Sand (Bajri) Mine with production capacity 28,05,000 TPA (ROM) by M/s. Sher Singh Solanki, located at near village(s) – Awada, Bhamra & others, Tehsil – Reodar, Distt. – Sirohi, Rajasthan. (1286ha.) (Consultant: Perfect Enviroolution Pvt. Ltd., New Delhi)- TORs

The mine lease area is located near villages Awada, Bhamra, Bootri, Chhapol, Dangrali, Derol, Gulab Ganj, Gundwara, Hathal, Jamtha, Jawal, Jeerawal, Juadara, Kareli, Karoti, Leelora, Loonol, Makawal, Malawa, Malgaon, Marol, Meetan, Nimbora, Padroo Khera, Peepaliya, Rajgarh, Rampura, Reodar, Selwada, Thal, Vikanwas, Wasan, Tehsil - Reodar, District - Sirohi (Rajasthan). The proposed production capacity is 28.05 Lakh TPA (ROM). The lease area lies on River Sipu Nadi & Sukri Nadi. The mine lease area is between 24°41'27.02"N, 72°42'27.86"E to 24°31'13.65"N to 72°25'04.32"E. The project is located in

Seismic Zone-III. Total lease area of the project is 1286ha. Total length of the rivers allotted for mining is about 64 km (Sipu River -38.5 km, Sukri River -25.5 km).

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The lease area has been granted as per the Rajasthan State Govt. Letter of Intent (P.8 (16) Khan/Group-2/2013 Dated 27-02-2013).

Total water requirement of the project will be 16 KLD. This water will be sourced from nearby wells & tube wells through water tankers for drinking, dust suppression and plantation purposes. The total project cost would be around 5.0 Crores.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.10 Mineral – River Sand (Bajri) Mine with production capacity of 28.05 Lakh TPA (ROM) by M/s. Mangal Singh Solanki, located at near villages – Akhapura Khuni, Bar Gaon & others, Tehsil – Sheoganj Distt. – Sirohi, Rajasthan (1414 ha) (Consultant: Perfect Envirosolutions Pvt. Ltd., New Delhi)- TORs

The mine lease area is located near villages Akhapura Khuni, Bar Gaon, Chhiba Gaon, Chooli, Choteela, Jaitpura, Joyla, Khejariya, Lotiwara Bara, Lotiwara Chhota, Madani, Naradara, Posaliyan, Radbar, Rukhada, Sawali, Sutharon Ka Gurha, Ummedgarh, Tehsil - Sheoganj, District - Sirohi (Rajasthan). The proposed production capacity is 28.05 Lakh TPA (ROM). The mine lease area lies on River Khari, Sukri & Jawai River. The mine lease area is between 25°09'43.14"N, 73°02'50.44"E to 24°59'33.19"N to 72°59'28.53"E. The project is located in seismic zone-II. Total lease area of the project is 1414ha. Total length of the rivers allotted for mining is about 58.5 km (Khari River -18.5 km, Sukri River -23.4 km, Jawai River-7.5 km, Nallah-9.1 km).

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The lease area has been granted vide Rajasthan State Govt. Letter of Intent no. P.8 (15) Khan/Group-2/2013, dated 27-02-2013.

Total water requirement of the project will be 16 KLD. This water will be sourced from nearby wells & tube wells through water tankers for drinking, dust suppression and plantation purposes. The total project cost would be around 4.0 Crores.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.11 Mineral – River Sand (Bajri) Mine with production capacity of 26.40 Lakh TPA (ROM) by M/s Bharat Singh Shekhawat, located at near villages Akoona, Angore & others, Tehsil – Sirohi, Distt. – Sirohi, Rajasthan (2527 ha.) (Consultant: Perfect Envirosolutions Pvt. Ltd., New Delhi)- TORs

The mine lease area is located near Revenue village(s) of Tehsil Sirohi District - Sirohi Rajasthan. The proposed production capacity is 26.40 Lakh TPA of Sand bajri (ROM). The mine lease area lies on River(s) Khari (18.6km), Krishanawati (44km), Kapalganga (19km) & Bandi (12.8km). The project is located in seismic zone-II. Total lease area of the project is 2527ha.

Mining is by mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The lease area has been granted vide Rajasthan State Govt. Letter of Intent no. P.8 (14) Khan/Group-2/2013, dated 27-02-2013. Total water requirement of the project will be 16 KLD. This water will be sourced from nearby wells & tube wells through water tankers for drinking, dust suppression and plantation purposes.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing

lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.12 Limestone Mining with production capacity of 50,000 TPA (ROM) by M/s Dawar Cements Pvt. Ltd. located at Chakdura, Khrew, Tehsil Pampora, District Pulwama J&K State (21.106 ha) (Consultant: EQMS India Pvt. Ltd., Delhi)– TORs

The proposal of M/s Dawar Cements is for new mining of cement grade Limestone with production capacity of 50,000 TPA (ROM) in 21.106 ha. The mine lease area is located in Khasra No. 3184 min, Village Chakdura (Khrew), Tehsil Pampore, District Pulwama, Jammu & Kashmir State. The Latitudes and Longitudes of mine lease area is 34°03'15" N to 34°03'42" N and 75°00'19" E to 75° 00'44" E respectively and the lease area is covered under Survey of India Toposheet no. 43 N/4.

It is a Category 'A' project as Dachigam National Park lies within 10km radius from the mine lease boundary. The lease was granted by the J&K Government vide order no 317 IND dated 31.12.2008 in favour of Mushtaq Muzaffar Anem S/o Haji Mohd Muzaffar, one of the directors of M/s Dawar Cement. The lease period is valid for 20 years. The land use of the mine lease area is Revenue grazing/waste land. No diversion of forest land is involved.

Open cast semi-mechanized mining method will be adopted for limestone mining. Drilling will be done with the help of Jack hammer (32 mm diameter). The loading of sized limestone and other grade (undersized) is done manually and transported by tipper/dumper to the crusher located outside the mining lease. Project will produce limestone @ 0.05 million tonne per annum, which will be used as raw material for production of cement / clinker in Dawar Cement Plant. On the basis of minable reserves of 17 million tonne and production rate of 0.05 million tonnes per annum, the expected life of mine has been assessed as 337 years.

The mining lease was executed in 2009 and development of road and a few benches was carried out during last few years which produced 1, 17,812 tonnes of limestone. Total water requirement will be 10 KLD for human consumption, plantation and dust suppression, which shall be met from the ground water source i.e. tube well.

The Committee noted that it is a **violation** case as the PP had started production of limestone without obtaining requisite prior environmental clearance since 2008 to 2013. As per the PFR, the PP had mined out 1,17,812 tonnes of limestone. PP informed that the mine is closed since June 2013.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional conditions (i) 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, (ii) Proper species specific Conservation plan for Schedule-I and II species, and (iii) Necessary NBWL clearance should be

obtained.

2.13 Bajri (Minor Mineral) Mine (10 lakh TPA) of M/s Himmat Singh Located at Jila – Jodhpur, Tehsil – Osiya, State – Rajasthan. (668.96 ha)– TORs

The Proposal was **deferred** at the request of the Project Proponent.

2.14 Bajri (Minor Mineral) Mine (25 lakh TPA) in Luni River of M/s Meghraj Singh located at Merta & Degana Tehsils, District – Nagaur, Rajasthan. (408.1216 ha)– TORs

The Proposal was **deferred** at the request of the Project Proponent.

2.15 Bajri (Minor Mineral) Mine (24 Lakh TPA) of M/s Sarv Shri Kuber Associates located at District Jodhpur, Tehsil Bhopalgarh, Rajasthan. (2130 ha)– TORs

The Proposal was **deferred** at the request of the Project Proponent.

2.16 Bajri (Minor Mineral) Mine (25 Lakh TPA) in River Luni of M/s Sher Singh located at Tehsils – Parbatsar, District – Nagaur, State – Rajasthan. (415.07)- TORs

The Proposal was **deferred** at the request of the Project Proponent.

2.17 Bajri (Minor Mineral) Mine (24 Lakh TPA) of M/s Sarv Surya Associates located at Jila – Jodhpur, Tehsil – Jodhpur, State – Rajasthan. (2060 ha)– TORs

The Proposal was **deferred** at the request of the Project Proponent.

2.19 Bajri(Minor Mineral) Mine of M/s Ashu Singh Bhati, located at Vill-Devaria and others , Tehsil-Shahpura, Distt-Bhilwara, Rajasthan (624.39 hac) (Consultant: ENKAY Envrio Services Pvt. Ltd., Jaipur)– TORs

The Proposal was **deferred** at the request of the Project Proponent.

2.20 Bajri (Minor Mineral) Mine of M/s Puspchandra Gochar located at Vilage (s) Rehana and Bagli, Tehsil-Bundi, Distt-Bundi, Rajasthan (28.28 hac) (Consultant: ENKAY Envrio Services Pvt. Ltd., Jaipur) (Ramgarh Vishdhari Sanctuary)– TORs

The Proposal was **deferred** at the request of the Project Proponent.

2.21 Rampur Raighati Mustakam Sand, Bajri and Boulder mine (1,83,000 TPA) by M/s Garhwal Mandal Vikas Nigam Ltd. located at Vill. Rampr Raighati, Tehsil Laksar, Distt. Haridwar, Uttarakhand (14 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)– TORs

The Mining Lease area is located near Village Rampur Raighati, Tehsil

Laksar, District Haridwar, Uttarakhand. The proposed production capacity is 1,83,000 TPA. The lease area lies on River Ganga. The Mine Lease area consists of two blocks (Block A & B). Block A lies between 29°42'52.868"N to 29°42'34.394"N, 78°10'54.116"E to 78°11'6.743"E and Block B lies between 29°42'32.526"N to 29°42'23.746"N, 78°10'45.704"E to 78°10'42.097"E.

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Interstate Boundary between Uttarakhand & Uttar Pradesh (adjacent to the lease area) and Jhilmil Jheel Conservation Reserve (about 4 km in NNE direction) within 10 Km radius of the lease area. NBWL clearance is mandatory for the project.

The proposed project is an open-cast mining project, confined to excavation of sand, *bajri* & boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No.589/Bhu. Khani.E./2012-13 dated 23-1-2013), issued by the Govt. of Uttarakhand.

Total water requirement will be 4.1 KLD. This water will be supplied from available sources through tankers as well as from surface water sources for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 13, 30, 000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained; and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.22 Kota Muradnagar Sand, Bajri and Boulder Mine (4.37 Lakh TPA) by M/s Garhwal Mandal Vikas Nigam Ltd. Located at vill. Kota Muradnagar, Tehsil Haridwar, Distt. Haridwar, Uttarakhand. (42 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)–TORs

The Mining Lease area is located near Village Kota Muradnagar, Tehsil & District Haridwar, Uttarakhand. The proposed production capacity is 4, 37, 000 TPA. The lease area lies on River Ratmau. The Mine Lease area consists of two blocks (Block A & B). Block A lies between 30° 0'29.71"N to 30° 0'25.59"N, 77°55'20.19"E to 77°55'27.51"E and Block B lies between 30°0'14.95"N to 30° 0'4.69"N, 77°55'37.05" E to 77°55'42.33"E.

The Project is located in seismic zone-IV. It is 'A' category project due

to the presence of Rajaji National Park (about 8 km in NE direction) within 10 Km radius of the lease area. NBWL clearance is mandatory for the project.

The proposed project is an open-cast mining project, confined to excavation of sand, *bajri* & boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No.589/Bhu. Khani.E./2012-13 dated 23-1-2013), issued by the Govt. of Uttarakhand.

Total water requirement will be 5.6 KLD. This water will be supplied from available sources through tankers as well as from surface water sources for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 21, 50, 000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.23 Sand, Bajri & Boulder Mine at River Nimmi lot No. 18/1 (capacity: 1.2 lakh TPA) by M/s Garhwal Mandal Vikas Nigam Ltd. located at vill. Kotda Santor and kolhupani, tehsil Vikasnagar, Distt. Dehradun, Uttarakhand. (8.4ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)– TORs

The Mining Lease area is located near Village Kotda Santor and Kolhupani, Tehsil Vikasnagar & District Dehradun, Uttarakhand. The proposed production capacity is 1.2 Lakh TPA. The lease area lies on River Nimmi. The Mine Lease area lies between 30°20'37.94"N to 30°21'29.83"N & 77°57'52.21"E to 77°58'32.67"E.

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Doon Valley (Project site lies within Doon Valley) and Rajaji National within 11 km and Musoorie Wildlife Sanctuary in 12 km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of Sand, Bajri & Boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metres. Extraction of material will be

done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No. 589/Bhu. Khani.E./2012-13 dated 23-1-2013, issued by the Govt. of Uttarakhand).

Total water requirement will be 1.9 KLD. This water will be supplied from available sources through tankers as well as from surface water source for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 12,70,000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.24 Rampur Raighati Aithmal Sand, Bajri and Boulder mine with production capacity of 6.27 Lakh TPA (ROM) by M/s Garhwal Mandal Vikas Nigam Ltd. located at village Rampur Raighati, Tehsil Laksar, Distt. Haridwar, Uttarakhand. (61.232 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)–TORs

The Mining Lease area is located near Village Rampur Raighati, Tehsil Laksar District Haridwar, Uttarakhand. The proposed production capacity is 6.27 Lakh TPA. The lease area lies on River Ganga. The Mine Lease area lies between 29°44'0.517"N to 29°43'9.029"N, 78°11'34.939"E to 78°11'27.137"E.

The Project is located in seismic zone-IV. It is 'A' category project as the lease area is more than 50 ha and also the presence of presence of Interstate Boundary between Uttarakhand & Uttar Pradesh (adjacent to the lease area) and Jhilmil Jheel Conservation Reserve (about 1.5 km in NNE direction) within 10 Km radius of the lease area. NBWL clearance is mandatory for the project.

The proposed project is an open-cast mining project, confined to excavation of sand, bajri & boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No.589/Bhu. Khani.E./2012-13 dated 23-1-2013), issued by the Govt. of Uttarakhand.

Total water requirement will be 6.7 KLD. This water will be supplied from available sources through tankers as well as from surface water sources for dust suppression from nearby village. Silt/Clay generated as waste, will

be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 25,60,000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.25 Bajri & Boulder mining project in R iver Chor Khala Lot No. 20/16 (4.2 Lakh TPA) by M/s Garhwal Mandal Vikas Nigam Ltd. Located at Vill. Shankarpur, Tehsil Vikasnagar, Distt. Dehradun, Uttarakhand. (20 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)–TORs

The Mining Lease area is located near Village Shankarpur, Tehsil Vikasnagar District Dehradun, Uttarakhand. The proposed production capacity is 4.2 Lakh TPA of Bajri & Boulder. The lease area lies on River Chor Khala. The Mine Lease area lies between Block A: 30°23'45.69"N to 77°50'42.77"E, Block B: 30°23'44.77"N to 77°50'44.27"E, Block C: 30°23'19.25"N to 77°49'43.77"E, Block D: 30°23'23.22"N to 77°49'44.76"E. The Project is located in seismic zone-IV. It is 'A' category project as the project site lies within the Doon Valley.

The proposed project is an open-cast mining project, confined to excavation of *Bajri* & Boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No.589/Bhu. Khani.E./2012-13 dated 23-1-2013, issued by the Govt. of Uttarakhand.

Total water requirement will be 3.3 KLD. This water will be supplied from available sources through tankers as well as from surface water source for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 19,85,000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of

mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.26 Sajjanpur Sand, Bajri and Boulder mine (1.30 Lakh TPA) of M/s Garhwal Mandal Vikas Nigam Ltd. Located at vill. Sajjanpur, Tehsil Haridwar, Distt. Haridwar, Uttarakhand (10ha). (Consultant: Grass Root Research & Creation India (P) Ltd. Noida)–TORs

The Mining Lease area is located near Village Sajjanpur, Tehsil & District Haridwar, Uttarakhand. The proposed production capacity is 1, 30, 000 TPA. The lease area lies on River Ganga. The Mine Lease area lies between 29°51'22.88"N to 29°51'14.69"N, 78°10'16.22"E to 78°10'34.15"E.

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Jhilmil Jheel Conservation Reserve (about 2 km in SSE direction) and Rajaji National Park (about 8 km in NNE direction) within 10 Km radius of the lease area. NBWL clearance is mandatory for the project.

The proposed project is an open-cast mining project, confined to excavation of sand, *bajri* & boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No.589/Bhu. Khani.E./2012-13 dated 23-1-2013), issued by the Govt. of Uttarakhand.

Total water requirement will be 1.41 KLD. This water will be supplied from available sources through tankers as well as from surface water sources for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 12,95,000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.27 Jaspur Ranjeetpur Sand, Bajri and Boulder Mine (2.91 Lakh TPA) by M/s. Garhwal Mandal Vikas Nigam Ltd. Located at vill. Jaspur Ranjeetpur, Tehsil Laksar, Distt. Haridwar, Uttarakhand (20.643ha). (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)–TORs

The Mining Lease area is located near Village Jaspur Ranjeetpur, Tehsil Laksar, District Haridwar, Uttarakhand. The proposed production capacity is 2, 91, 000 TPA. The lease area lies on the River Ganga. The Mine Lease area consists of two blocks (Block A & B). Block A lies between 29°42'19.95"N to 29°42'2.23"N, 78°10'39.31"E to 78°10'24.82"E and Block B lies between 29°42'8.51"N to 29°41'50.41"N, 78°10'39.30"E to 78°10'37.43"E.

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Interstate Boundary between Uttarakhand & Uttar Pradesh (adjacent to the lease area) and Jhilmil Jheel Conservation Reserve (about 5 km in NNE direction) within 10 Km radius of the lease area. NBWL clearance is mandatory for the project.

The proposed project is an open-cast mining project, confined to excavation of sand, *bajri* and boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No. 187/Bhu. Khani.E./2012-13 dated 26-6-2013), issued by the Govt. of Uttarakhand.

Total water requirement will be 4.7 KLD. This water will be supplied from available sources through tankers as well as from surface water sources for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 17,30,000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.28 Dadubas Sand, bajri and Boulder Mine (1.87 Lakh TPA) by M/s. Garhwal Mandal Vikas Nigam Ltd. located at village Dadubas, Tehsil & Distt. Haridwar, Uttarakhand. (13.985 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TORs

The Mining Lease area is located near Village Dadubas, Tehsil & District Haridwar, Uttarakhand. The proposed production capacity is 1.87 lakh TPA. The lease area lies on River Ratmau. The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Rajaji National Park (about 6 km in NE direction) within 10 Km radius of the lease area. NBWL clearance is mandatory for the project.

The proposed project is an open-cast mining project, confined to excavation of sand, *bajri* & boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No.589/Bhu. Khani.E./2012-13 dated 23-1-2013), issued by the Govt. of Uttarakhand.

Total water requirement will be 4.14 KLD. This water will be supplied from available sources through tankers as well as from surface water sources for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 14,55,000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.29 Salempur Mehdood Sand Bajri & Boulder Mine (1.015 Lakh TPA) by M/s. Garhwal Mandal Vikas Nigam Ltd. Located at Vill Salempur Mehdood Tehsil Haridwar, District Haridwar (Area 7.702 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TORs

The Mining Lease area is located near Village Salempur Mehdood, Tehsil & District Haridwar, Uttarakhand. The proposed production capacity is 1, 01, 500 TPA. The lease area lies on River Rao. The Mine Lease area lies between 29°58'24.029"N to 29°58'13.835"N, 78° 1'53.826"E to 78° 2'6.159"E.

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Doon Valley (about 9 km in NE directions) and Rajaji National (about 3 km in NE direction) within 10 Km radius of the lease area. NBWL clearance is mandatory for the project.

The proposed project is an open-cast mining project, confined to excavation of sand from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No.589/Bhu. Khani.E./2012-13 dated 23-1-2013), issued by the Govt. of

Uttarakhand.

Total water requirement will be 4.0 KLD. This water will be supplied from available sources through tankers as well as from surface water source for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 11,15,000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.30 Sumannagar Sand Bajri & Boulder Mine (1.38 LTPA) of M/s. Garhwal Mandal Vikas Nigam Ltd. Located at khasra No.2,639, Village Sumannagar Tehsil Haridwar, District Haridwar (Area 10.350 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TOR

The Mining Lease area is located at Khasra No. 2,639, near Village Suman Nagar, Tehsil & District Haridwar, Uttarakhand. The proposed production capacity is 1, 38, 600 TPA. The lease area lies on River Rao. The Mine Lease area lies between 29°57'4.834"N to 29°57'43.644"N, 78° 0'25.391"E to 78° 0'22.581"E.

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Rajaji National Park (about 7km in N) within 10 Km radius of the lease area. NBWL clearance is mandatory for the project.

The proposed project is an open-cast mining project, confined to excavation of sand from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No. 589/Bhu. Khani.E./2012-13 dated 23-1-2013), issued by the Govt. of Uttarakhand.

Total water requirement will be 4.0 KLD. This water will be supplied from available sources through tankers as well as from surface water sources for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 13,20,000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for

undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.31 Aneki Hetampur Sand Bajri & Boulder Mine (Production capacity 8.3 Lakh TPA) by M/s. Garhwal Mandal Vikas Nigam Ltd., located at Plot/Survey/Khasra No. 1211, 1267, 1268, 1270, Village Aneki & Hetampur, Tehsil Haridwar, District Haridwar (Area 64.892ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TORs

The Mining Lease area is located near Village: Aneki, Tehsil: Haridwar, District Haridwar, Uttarakhand. The proposed production capacity is 8,30,000 TPA. The lease area lies on River Rao. The Mine Lease area lies between 29°58'10.57"N to 29°57'30.78"N, 78° 1'45.43"E to 78° 0'53.51"E.

The Project is located in seismic zone-IV. It is an 'A' category project due to the presence of Doon Valley (about 8 km in NE direction) and Rajaji National Park (about 3 km in NE direction) from the lease area. NBWL clearance is mandatory for the project.

The proposed project is an open-cast mining project, confined to excavation of Sand, Bajri and Boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No.589/bhu.Khani.E./2012-13 dated 23-1-2013, issued by the Govt. of Uttarakhand.

Total water requirement will be 8.0 KLD. This water will be supplied from available sources through tankers as well as from surface water source for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 31,40,000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.32 Budhwasahid Sand Bajri & Boulder Mine (10.5LTPA) of M/s. Garhwal Mandal Vikas Nigam Ltd. Located at Vill Budhwasahid, Tehsil Haridwar, District Haridwar (Area 104.504 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)– TORs

The proposal was earlier considered in the EAC meeting held during June 26-28, 2013 wherein the Committee rejected the proposal. The project is located adjacent to Rajaji National Park as the mine is located adjacent to Rajaji National Park.

The Ministry has examined the proposal as per the Order of Supreme Court in Writ Petition (C) No. 202 of 1995 in the matter of T.N. Godhavarman Thirumulpad Vs. Union of India and Ors. which, inter-alia, states that no mining activity can be allowed within 1 Km of distance of protected areas. Since the site is located adjacent to Rajaji National Park therefore, Ministry has earlier **rejected** the proposal.

2.33 Banjarewala Sand Bajri & Boulder Mine (4.0 Lakh TPA) by M/s. Garhwal Mandal Vikas Nigam Ltd. located at Vill Banjarewala, Tehsil Haridwar, District Haridwar (Area 72.32 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)– TORs

The proposal was earlier considered in the EAC meeting held during June 26-28, 2013 wherein the Committee rejected the proposal. The project is located adjacent to Rajaji National Park as the mine is located adjacent to Rajaji National Park.

The Ministry has examined the proposal as per the Order of Supreme Court in Writ Petition (C) No. 202 of 1995 in the matter of T.N. Godhavarman Thirumulpad Vs. Union of India and Ors. which, inter-alia, states that no mining activity can be allowed within 1 Km of distance of protected areas. Since the site is located adjacent to Rajaji National Park therefore, Ministry has earlier **rejected** the proposal.

2.34 Garh Roshanabad Sand Mine with production capacity of 1,65,200 TPA (ROM) by M/s. Garhwal Mandal Vikas Nigam Ltd., located at Vill Gad Roshanabad, Tehsil Haridwar, District Haridwar (Area 11.883 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)– TORs

The Mining Lease area is located near Village Garh Roshnabad, Tehsil & District Haridwar, Uttarakhand. The proposed production capacity is 1,65,200 TPA. The lease area lies on River Rao. The Mine Lease area lies between 29°55'43.97"N to 29°55'4.72"N, 78° 0'5.39"E to 78° 0'3.26"E.

The Project is located in seismic Zone-IV. It is 'A' category project due to the presence of Rajaji National (about 9 km in NE direction) within 10 Km radius of the lease area. NBWL clearance is mandatory for the project. Forest areas present near the project site are Haridwar Reserve Forests at 9.5 Km in NNE direction; and Dholkhand Reserve Forests at 8 km in N direction.

The proposed project is an open-cast mining project, confined to excavation of sand from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No.589/Bhu. Khani.E./2012-13 dated 23-1-2013), issued by the Govt. of Uttarakhand.

Total water requirement will be 4.0 KLD. This water will be supplied from available sources through tankers as well as from surface water sources for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 13,95,000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.35 Sand Bajri & Boulder Mine with production capacity of 87,700 TPA (ROM) by M/s. Garhwal Mandal Vikas Nigam Ltd., located at Village Galjwadi & Saliyawala, Tehsil Dehradun & Vikas Nagar, District Dehradun, (7.5ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)– TORs

The Mining Lease area is located near Village Galjwadi & Saliyawala, Tehsil Dehradun & Vikasnagar & District Dehradun, Uttarakhand. The proposed production capacity is 87,700 TPA. The lease area lies on River Noon. The Mine Lease area lies between 30°24'5.19"N to 30°23'47.22"N, 78°0'51.96"E to 78°1'35.89"E.

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Doon Valley (Project site lies within Doon Valley) and Mussoorie Wildlife Sanctuary (about 7.5 km in NNE) within 10 Km radius of the lease area. NBWL clearance is mandatory for the project.

The proposed project is an open-cast mining project, confined to excavation of sand, *bajri* & boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been amended to 7.5ha as per the Letter of Intent vide Letter No.415/Bhu. Khani.E./2013-14 dated 30-9-2013, issued by

the Govt. of Uttarakhand.

Total water requirement will be 1.76 KLD. This water will be supplied from available sources through tankers as well as from surface water source for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 11,80,000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.36 Noon Lot No 8/2 Sand Bajri & Boulder Mine (89,300 TPA) by M/s. Garhwal Mandal Vikas Nigam Ltd. located at Vill Dholas & Harriawala Khurd, Tehsil Dehradun & Vikas Nagar, District Dehradun, (Area 7.6 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TORs

The Mining Lease area is located near Village Dholas & Hariyawala Khurd, Tehsil Dehradun & Vikasnagar & District Dehradun, Uttarakhand. The proposed production capacity is 89,300 TPA. The lease area lies on River Noon. The Mine Lease area lies between 30°23'33.50"N to 30°23'01.17"N, 78° 01'34.45"E to 78° 01'09.64"E.

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Doon Valley (Project site lies within Doon Valley) and Mussoorie Wildlife Sanctuary (about 9 km in N direction) within 10 Km radius of the lease area. NBWL clearance is mandatory for the project.

The proposed project is an open-cast mining project, confined to excavation of sand, *bajri* & boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (No.415/Bhu. Khani.E./2013-14 dated 30-9-2013), issued by the Govt. of Uttarakhand.

Total water requirement will be 1.77 KD. This water will be supplied from available sources through tankers as well as from surface water source for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 11,85, 000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.37 Maror Sand Bajri & Boulder Mine with production capacity of 1.62 LTPA (ROM) by M/s. Garhwal Mandal Vikas Nigam Ltd. Located at Vill Maror, Tehsil Dhanoult, District Tehri Garhwal (Area 7.773 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TORs

The Mining Lease area is located near Village Maror, Tehsil Dhanaulti & District Tehri Garhwal, Uttarakhand. The proposed production capacity is 1, 62, 888 TPA. The lease area lies on River Yamuna. The Mine Lease area lies between 30°35'43.74"N to 30°35'24.55"N, 78° 0'49.00"E to 78° 0'33.29"E .The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Doon Valley within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of Sand, Bajri & Boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, 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 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No.589/Bhu. Khani.E./2012-13 dated 23-1-2013), issued by the Govt. of Uttarakhand.

Total water requirement will be 2.18 KLD. This water will be supplied from available sources through tankers as well as from surface water sources for dust suppression from nearby village. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 13, 70,000.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Necessary NBWL clearance should be obtained and (vii) Appropriate Disaster Management safeguards in view of the high seismicity of the area.

2.38 Silica Sand Mining and Beneficiation Plant of M/s Hari Mandir Mineral Traders, Village Chhatara, Allahabad, (U.P.) (104.21ha) (6.0 MTPA) (M/s Perfect Enviro Solutions Pvt Ltd)- Environmental clearance.

The proposal is for Environmental Clearance of existing Silica Sand Mine (ML area- 104.21 ha) with maximum production capacity of 6.0 MTPA silica sand of M/s Hari Mandir Mineral Traders. The mining lease is located near Village Chhatara, Tehsil- Bara, District- Allahabad (Uttar Pradesh). The mine lease area falls between Latitude 25°17'07"N & 25°18'35"N and Longitude 81°39'52"E & 81°40'39" E.

The proposal was considered by the Expert Appraisal Committee in its 18th meeting held during 24th-26th August, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. TORs were issued vide letter no. J-11015/110/2011-IA.II (M) dated 30th March, 2012 in the name of M/s Hari Mandir Mineral Traders. The mining lease area is 104.21 ha, out of which 78.21 ha is Govt. land and 26 ha is Private Land. The land usage is 4.18 ha Agricultural land, 14.03 ha waste land, 73.89 ha grazing land 2.29 surface water bodies and 9.82 ha for miscellaneous usage. Mining will be done only in 63.61 ha lease area. Mine lease was granted by State Government on 16.12.1969 and renewed from time to time and is running under deemed renewal. Mining Plan is approved by IBM vide letter no. MP/716/4/B/JBP-1/89, dated 12th September, 1989. The latest Mining Scheme was approved by IBM vide letter no 314(3)/2011-MCCM(CZ)/S-23/1474 dated 21st November, 2011.

The mining will be carried out by fully mechanized opencast mining method, utilizing heavy earth moving machines and with deep hole drilling and controlled blasting techniques, with proper benching of deposit to exploit the available silica sand reserves. The diameter of the hole will be 100 mm. Blasting will be done by ANFO, Slurry Explosive with detonators. Blasted limestone will be excavated out & transported to nearby beneficiation plant by truck/dumpers. Total Mineable Reserves are 32.875 million tonnes. Anticipated life of the mine is 55 years. Total water requirement for the proposed mining project will be 27 KLD, which will be sourced from Ground Water (from nearby project & Mine Sump Water (after development of pits). The mine working will not intersect ground water table at any stage of life of mine. Mine is located in the Safe category regarding water use as notified by Central Ground Water Authority.

It is reported by the Project Proponent that there is no Wild Life Sanctuary/Tiger Reserve/National Park within 10 km radius of the mining lease boundary. However Peacock which is Schedule I species is reported in study area for which Conservation plan was submitted. Only one Reserved Forest Baghla Reserved Forest (~9.5 km in SW direction) exists within 10 km radius of the study area. Two water bodies Yamuna River (~7.5 km) and Baghla jheel (~9.5km) flow in the study area.

Baseline studies were carried out during September 2011 to October 2011. Public Hearing for the mining project was conducted at Village Chhatara (PHC), Tehsil- Bara, Distt. Allahabad (Uttar Pradesh) on 13.9.2012. Public Hearing was conducted under the chairmanship of Shri Sesh Mani Pandey, CRO (ADM rank), District- Allahabad. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia, included that

the development of the socio-economic infrastructure should be done, preferential employment to the nearby villagers, should not have adverse effect on environmental pollution due to mining activities etc. As per the villager's requirements, it was informed by the PP that they would give preference to local for employment, and protection measures of environment due to mining activities etc.

Total cost of the project is Rs. 15 Crores. Capital Cost of environmental protection measures is Rs. 40.5 Lakhs & recurring cost is Rs. 21.71 Lakhs/annum at maximum production level of 6 Lakhs MT per annum. It was reported by the PP that no court case / litigation /violation is pending against the project.

The Project Proponent informed in the meeting that this is not a violation case as the mine was closed since September 2010. The closure of this mine has already been reported to Hon'ble High Court Allahabad by the mining Department of Government of U.P. through an affidavit. As per the order of Hon'ble High Court of Allahabad in W.P. 9416 (M/B) of 2010 in matter of Mohd. Kausar Jah vs. Union of India and others, and Writ Petition No.10025 of 2010 (M/B) Shyam Bahadur Sakhya Vs. Union of India & Ors. mining was permitted upto 30.6.2011.

Based on the information submitted, presentation made by the proponent and discussions held the Committee **recommended** the proposal for environmental clearance with additional specific conditions viz: (i) Adequate precautions shall be taken to protect the villages located near mine site from the impact of blasting, and (ii) In addition to the green belt around the mine lease, PP needs to develop five layer stratified green shield preferably comprising of native/endemic species adjacent to the village.

2.39 Iron Ore & Laterite Mining of M/s Benita Industries, Village Chabali, Pendlimarri Mandal, Distt. Kadapa, A.P. (163.482ha). Expansion of iron ore production capacity from 50,000 TPA to 2,64,915 TPA & Laterite production capacity from 23,328 TPA to 1,94,580 TPA. (Pioneer Enviro Laboratories & Consultants Pvt. Ltd.)- Environmental clearance.

The proposal is for Open cast mining of Low grade Iron ore Mining (2,64,915 TPA) & Laterite ore mining (1,94,580 TPA) of M/s Benita Industries Ltd. at Village Chabali, Mandal Pendlimarri, District YSR Kadapa, Andhra Pradesh (163.482 ha). The Latitude and Longitude of the site is 14° 28' 32.5" N to 14° 29' 35.1" N and 78° 34' 57.7" E to 78° 36' 1.3" E.

The proposal was considered by the Expert Appraisal Committee in its meeting held during 19-21st March, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/44/2012-IA.II(M) dated 10th July, 2012. The mine lease area is 163.482 Ha, which is Govt. waste land. The Mining scheme is approved by IBM vide Letter No. 659 (511)/LAT/IO/F. SHALE / 2004 / HYD dated 28.11.2011.

Project Proponent has proposed to carry out the mining of Iron Ore & Laterite by semi-mechanised method. The IBM has approved for enhance production capacity from 50,000 to 2,64,915 TPA of iron ore and 23,328 to 1,94,580 TPA of

Laterite. Since the deposit is shallow bedded and soft in nature, the mineral excavation is being proposed to be carried out with occasional mild blasting. As per proposals made in approved mining scheme, the mining activity will be carried out by semi-mechanised method with the help of jackhammer drilling & Blasting in Quartzite (O.B.) and using the excavator (without drilling and blasting) in shale and Ferruginous Shale with Iron Ore. Instated of pit-7, the pit-1, 2, 3, 4, 5 & 6 are being developed towards NW direction in two or three benches of 3m to 7m height. Whereas the float ore (Iron Ore) is being excavated manually with the help of hand tools on SW and NW side of the area from the pit No.8 & 9 to an average thickness of 3m from the surface. No mine workings will be carried out within 7.5m from the lease boundary and 50m on either side of the public road. The anticipated life of mine is 3.6 years.

The water requirement is estimated as 35 KLD, which will be obtained from ground water/mine pit. It was reported by the PP, The waste consisting of quartzite and shale will be generated as waste from semi mechanised mine and the soil and screen will be generated as waste from float ore mining. During the conceptual plan 9,97,654 m³ of solid waste will be generated and 81,000 m³ of OB will be generated. Mine working will not intersect the ground water table. It was reported by the PP that no Wild Life Sanctuary/Tiger Reserve/National Park/Schedule I species etc. are present within 10 km of the mine lease area.

Baseline studies were carried out during summer season i.e. March, April, May 2012. All the parameters for water and air quality were reported to be within permissible limits. The Public Hearing for the Proposed Project was conducted on 03.10.2012. The PH was chaired by Shri. P.H. Hema Sagar, District Revenue Officer and Addl. Dist. Magistrate, Kadapa, Andhra Pradesh. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, CSR activities and establishment of Beneficiation Plant. As per the villager's requirements, it was informed by the PP that they would consider of local employment; take up developmental activities in the village etc. These have been incorporated in the Project Plan with budgetary provisions. The cost of the project is Rs. 2.5 Crore. Cost for Environmental protection and occupational health is Rs. 1.55 Crores. For CSR Rs. 25 Lakhs / annum will be allocated.

The mine had operated from 2004 to April, 2012. Hence it was a violation case. As per the circular dated 12.12.12, the prosecution report was filed in the Court of Additional Judicial Magistrate, Kadapa on 31.08.2013 vide Case No. C.C. No. is 449/2013 to take cognizance of offence by the said court under section 19 of Environment (Protection) Act, which has been committed by the offending project and the affidavit dated 03.07.2012 stating that such violations of Environment (protection) Act, 1986 will not be repeated in the future.

Based on the information submitted, presentation made by the proponent and discussions held, the Committee **recommended** the proposal for environmental clearance with additional specific conditions (i) Green barrier (five stratified rows) should be raised on the boundary of MLA, (ii) 10-15% of plantation/green belt should be of endemic/endangered species

2.40 Pindrangi /Marrivalasa Quartz Mine of M/s Rashtriya Ispat Nigam Ltd., K-Kotapadu Tehsil, Distt. Visakhapatnam, A.P. (61.11ha) (0.1 MTPA) (SENES Consultants India Pvt Ltd.)-Environmental clearance.

The Marriavalasa/Pindarangi Quartz mine area is located at about 55 Kms from RINL/VSP under K.Kotapadu mandal of Visakhapatnam district, Andhra Pradesh. The geographic location of the area has been marked on the Survey of India Top sheet no.65 O/1 (1:50000 scale). The coordinates for the ML are Latitude: 83°5' 40"N to 83°6'27" N Longitude: 17°54'18"E to 17°54'48"E. The proposal was considered in the EAC meeting held during February 2011, MoEF prescribed ToR on 28th March 2011 vide letter No. J-11015/282/2010-IA.11 (M).

The total mine lease area is 61.11 ha which is government waste land. The landscape of the ML area is dominated by the Eastern Ghat range. The area is dotted with hills and formed quartz-feldspar-garnet- sillimanite gneiss and felspathic garnetiferous gneiss. The highest altitude of the area is 287 m above MSL. PP reported that there is no Wild Life Sanctuary, National Park, Biosphere Reserves, Wildlife Corridors, Tiger /Elephant Reserves within the 10 km of the mine lease area. Schedule-I species are reported in the study area, whereas the conservation plan is not prepared.

Total mineable reserves are 5.577 million tonnes. Anticipated life of mine at proposed capacity is 50 years. Opencast mining will be done by semi-mechanised method. The baseline data was collected from December 2009 to February 2010. The public hearing was held on 19.05.2012 under the Chairmanship of ADM. The estimated cost of the project is 1.0 Crores.

It was noted by the Committee that TOR were prescribed on 28th March 2011 were as baseline data, for period prior to the TOR were given in the EIA. Thus the data presented to the public is not valid. Moreover, public hearing issues were not addressed satisfactorily. The occupational health aspects were not addressed nor were reflected in the EIA/EMP Report. Based on the presentation made and discussion held, the Committee decided that the Project Proponent need to collect fresh base line data, revise EIA/EMP report and reconduct public hearing. The project till then be delisted from pending list and **deferred**.

2.41 Proposed Project of Chromite Underground Mine of M/s Balasore Alloys Ltd., Village Kaliapani, Tehsil Sukinda, Distt. Jajpur, Orissa (64.463 ha) (expansion from 0.42 MTPA to 0.6 MTPA and change in technology from opencast to opencast and underground) (Consultant: J.M. Environet Pvt. Ltd.)- Environmental clearance.

The proposal is for existing Kaliapani Chromite Mine (ML Area – 64.463 Ha.) at Village Kaliapani, Tehsil : Sukinda, District : Jajpur (Odisha). The Latitude & Longitude of the site is 21°00'07"-21°02'46"N and 85°44'12" - 85°47'22" E. The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during 25th-27th July, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/139/2012-IA.II (M) dated 11th October, 2012 in the name of M/s. Balasore Alloys Ltd.

The compliance report of the EC conditions stipulated by MoEF, New Delhi vide letter no. J -11015/341/2006-IA.II (M) dated 3rd July, 2007 were discussed. It was noted that the conditions stipulated in earlier EC were by and large complied and no specific condition is required in this regard.

The total mine lease area is 64.463 ha is Government Land. Modified Mining Scheme is approved by IBM vide letter no. 314(3)/2012-MCCM (CZ)/MS - 11 dated 17.12.2012 under rule 10 of MCDR 1988. This is a proposal for expansion in production capacity from 0.42 MTPA & 0.6 MTPA and Change in Technology from Opencast to Opencast & Underground including mining of blocked pillars in open pit mines by Drift & Fill mining method. The Opencast process will be done by mechanized method involving drilling & blasting, loading and transportation of the excavated material. Wet drilling is performed by 100 mm dia DTH drills associated with compatible size compressors. Non cap sensitive slurry of 83mm dia cartridge like Aqua dyne, as column charge and for secondary blasting Aqua dyne – 25 explosive cartridge of 25 mm dia will be adopted.

The total mineable reserves are 26.89 Million Tonnes. The anticipated life of mine is approximately 45 years. It was reported by the PP that the total waste generation at the end of the life of the mine will be 4.08 million cum. At the conceptual stage, about 32.34 ha area will be covered under waste dump. The same will be stabilized by plantation.

Total fresh water requirement for the project is 347.2 KLD, out of which 220 KLD is required for beneficiation Plant, 115 KLD for mining operations & Green belt and 12.2 KLD for Domestic/drinking purpose. The requirement is being met from mine discharge water & borewell. Necessary Clearance from CGWA, Ministry of Water Resource, Govt Of India for withdrawal of 53 KLD of water from bore well and 294.2 KLD of Mine Dewater with a total amount not exceeding 347.2 KLD has been obtained vide letter No. 21-4(44)/SER/CGWA/2008-1845 Dated 11.10.2013.

It was reported by the PP that during Underground mining, ground water table shall be intersected. NOC has been obtained from CGWA, Ministry of Water Resources, Govt. Of India Vide letter No. 21-4(44)/SER/CGWA/2008-1845 Dt.11.10.2013 for Ground water intersection.

There is no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant Reserves (existing or proposed) etc. exist within the study area (10 km radius of the mining lease boundary). There are two protected Forests and three Reserved Forests exist within 10 km radius of the mining lease boundary. Baseline data for Site-specific Micro-meteorological data, ambient air quality (PM₁₀, SO₂ and NO₂), water quality, noise level, soil and flora and fauna was collected during Post Monsoon Season 2012 (Oct to Dec-2012). Results are found within permissible limits.

The Public Hearing for the Project was conducted at Kaliapani Village on 04.04.2013. The Public Hearing was chaired by Mr. Chakrayudha Hota, Additional District Magistrate as per EIA Notification, 2006. Major issues raised during public hearing were related to treatment of Mine Drainage Water, Air pollution and control measures, ground water depletion in mining lease area,

provision of check dams for irrigation of agricultural land, deforestation and peripheral development (education, health service, drinking water supply and Employment). Total cost of the project is Rs. 599.0 Crores. Capital cost for Environment Protection Measures has been earmarked Rs. 82.5 Crores along with annual recurring cost Rs. 75.7 Lakh/year.

Based on the presentation made and discussion held, the Committee decided to **defer the proposal to be brought back** to the Committee after the following information is submitted: (i) Mine lease area as per mine plan shall be given in EIA report, (ii) Occupational health issues need to be detailed, (iii) Details of flora and fauna shall be resubmitted and authenticated by State Government, (iv) Seven schedule-I species are reported in the study area for which, species specific conservation plan needs to be submitted, (v) Action plan along with budgetary provisions regarding issues raised during public hearing shall be provided, and (vi) Commitment made by PP during the public hearing held for prior EC granted in 2007 and its compliance shall be provided.

2.42 Kolawalraipur Sand/Murrine of M/s Shri Chandrakant Omprakash Mishra Village Kolawalraipur, Distt. Banda, U.P. (43.69ha) (0.27 MTPA). (EcoMen Laboratories Pvt. Ltd.)-Environmental clearance.

The project is located at village, Kolawalraipur, Tehsil-Naraini & District Banda, U.P. The point represented by Latitude and Longitude in the site is 25°16'17"N and 80°21'29"E, the mine site falls in survey of India topo sheet no. 63 C/15. The proposal was considered by the Expert Appraisal Committee in its meeting held on 28th November, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter J-11015/209/2011-IA-II(M), dated 07.05.2012. The mine lease area is 43.69 ha and is river sand bed.

The Mining Plan is approved by DGM(UP) vide letter no. 172/MP/2013 dated 06.05.2013. Mining will be confined in the lease area in the river bed. Open cast Manual method of mining will be adopted. Total mineable reserves as on 01.01.2012 upto a depth of 3m are 1.697 million tonnes. There will be 3 benches of half meter each. Drilling & blasting will not be required. 0.27MTPA of sand/murum will be produced from the mine. The mining will be done upto 1.5 depth. A haul road, 4m wide will be made along the side of mine benches. Trucks/tractor, trolleys will be used for the mineral transportation.

The total water requirement will be 3.5KLD. The 0.5 KLD of water will be met from the dug well/bore well for drinking purposes. 3.0 KLD of water will be taken from Ken river for water sprinkling and plantation purpose. The water table is at 100 mRL and the working is from 104 mRL for a depth of 1.5m. Therefore mining will never intersect the water table.

It was reported by Project Proponent that no national park, Wild Life Sanctuary/Tiger Reserve/Schedule I species etc. is located within 10 km of the mine. The baseline studies were carried out in October, November and December, 2011. The public hearing meeting was held on 30.10.2012 in the Kolawalraipur village, Tehsil – Naraini, District Banda. Public Hearing meeting was chaired by Shri K.N. Singh, ADM, Banda. The major issues raised during public hearing were to mitigate air and noise pollution by vehicles used for transportation, construction of roads, generation of employment opportunities,

health check of employees & the villagers, plantation, sanitation, compensation for road construction to the owners of land, danger to nearby bridge etc. Budgetary provision have been made in EIA/EMP report, in addition 2.0% of revenue will be spent on rural development & welfare of the villagers.

The total cost of the project is Rs. 90 Lakhs. The total capital cost on environment, recurring cost on Environment and Peripheral Development work are Rs. 6.0 Lakhs, 8.0 Lakhs and 6.5 Lakhs respectively. The mine was in operation till 30.06.2011 and stopped as per the letter of Mining Officer Uttar Pradesh. The project proponent informed in the meeting that this is not a violation case as the mine was closed since 30.6.2011. As per the order of Hon'ble High Court of Allahabad in W.P. 9416 (M/B) of 2010 in matter of Mohd. Kausar Jah vs. Union of India and others, and Writ Petition No.10025 of 2010 (M/B) Shyam Bahadur Sakhya Vs. Union of India & Ors. mining was permitted upto 30.6.2011.

The Committee deliberated and was of the opinion that status on replenishment of the minor mineral, impact of local transport of raw material and revised questionnaire need to be furnished by the PP before a decision is arrived at. The PP informed that the said information is available with them and requested the Committee for making a presentation in the afternoon after lunch. The committee agreed to the request. The PP submitted the information which was deliberated and based on discussions held, the Committee **recommended** the proposal for environmental clearance.

2.43 Mahamaya duli Mining (Bhilai Steel Plant) for enhancement of production of Iron Ore from 0.96 MTPA to 1.46 MTPA of M/s Steel Authority of India Limited in Durg & Rajnandgaon District, Chhattisgarh (1522.67ha) (0.96 MTPA to 1.46 MTPA)-reconsideration of environment clearance.

The Proposal was considered by the Expert Appraisal Committee in its meeting held during 14-16th March, 2007. TOR were issued by MoEF vide letter no. J-11015/11/2007-IA.II(M) dated 13th April, 2007. The Proposal was appraised by the EAC in its meeting held during 25-27th July, 2012 for grant of EC. The Proposal is for renewal of mine lease which fell due on 04.11.2001 and enhancement of production of Iron Ore from 0.96 MTPA to 1.46 MTPA. Mine lease area is 1522.67 ha, which includes 84.00 ha of forestland. No National Park /Sanctuary / Wildlife Corridors are reported within 10 kms of the mine lease.

It was noted that the TOR of the Project were prescribed on 13.4.2007 and the OM No. J-11013/41/2006-IA.II(M) Dt. 22.3.2010 issued by MOEF prescribed validity of TOR as 4 years from the date of issue of TOR. Since the TOR for the Project is older than 4 years, the Project proponent requested the Committee for extension of validity of TOR. The Committee considered the request and directed the Project proponent to approach the Ministry in this regard. The Committee further directed that after obtaining extension of validity of TOR from the Ministry, the EIA may be updated with additional base-line data for at least one month covering 10 Km study area. The Committee did not feel it necessary to conduct Public Hearing again.

Based on the presentation made and discussions held, the Committee in its meeting of July, 2012 had sought information on the following:-

- (i) Year-wise production details prior to 1994 and thereafter till date should be furnished.
- (ii) Filled in Questionnaire giving correct and complete information should be provided.
- (iii) A copy of the lease document should be submitted.
- (iv) Status of forestry clearance for the forestland involved in the Project may be intimated.
- (v) Details of waste generation and its management for the lease period should be provided.
- (vi) Compliance of consent conditions should be furnished.
- (vii) Status of environment quality in the study area should be furnished.
- (viii) Action plan to address the issues raised during Public Hearing with financial allocation should be provided.

It was decided in that Meeting that the Proposal may be brought back before the Committee for its further consideration after the requisite information, as mentioned above, has been submitted. Thus as desired by the EAC on 25.07.2012, updated EIA/EMP report with one month baseline data along with other information was submitted to MoEF on 04.01.2013 for further consideration by the EAC, which was done in this Meeting.

The Committee further sought additional information on the following:-

- (i) Conservation Plan for schedule-I species should be submitted
- (ii) Forest Clearance should be obtained within 2 years as per 1st February, 2013 Notification of MoEF.

The information was submitted by M/s SAIL thereafter the project was placed in present meeting. It was noted that the conservation plan submitted by project proponent is too generalized. Based on the presentation made and discussion held, the Committee decided to **defer the proposal to be brought back** to the Committee after the following information is submitted: (i) Site and species specific conservation plan for Schedule-I species reported in the study area.

2.44 Mining of Sand stone and Bajari of M/s Sanjay Kumar, Village & PO Dabhiri, Tehsil Barsar, distt. Hamirpur, H.P. (19.4970ha) (54000 metric tonnes/year)-TOR.

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

2.45 Proposed Colour Granite Mine of M/s D.A. Bhaskar, village amudala, Distt. Chittoor, A.P. (5.00ha) (864 m³/annum) (Sri Sai Manasa Nature Tech(P) Limited, Hyderabad)-TOR.

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

2.46 Proposed expansion of production of Kirari Limestone Mine of M/s Lafarge India Pvt. Ltd., Village Kirari Chorbhatti, Distt. Janjgir –Champa, Chhattisgarh (0.36 MTPA to 0.72 MTPA) (ANACONLAB)-TOR.

The existing limestone mine having a mining lease of 167.048 ha is located in Kirari and Chorbhatti Villages of Akaltara Tehsil of Janjgir Champa District of Chhattisgarh state with Longitudes E 82°26'56.82" to E 82°28'12.16" & Latitudes N21°57'09.86" to N N21°58'36.33". Mining lease for a period of 20 years has been granted by then Government of Madhya Pradesh vide order no. 3-133/95/12/2 dt. 19.04.2000. Mining scheme for a production of 0.72 MTPA has been approved by IBM, Nagpur on 21.06.2013 for period upto 31.03.2016.

The elevation is in the range of 257- 276 m. Nearest Railway station from the project is Akaltara at 7.0 Km whereas the nearest town is Janjir at a distance of 22.0 Km. The expansion project site is at 2.03 Km from the NH 200. There is no water body within the mining lease area. Nearest water body i.e. Pawal nala is at 0.81 Km. There is no forest land within the core zone. The nearest forest land is 13.71 km away. Also there is no notified Eco-sensitive area & protected area under Wildlife Act, 1972 within the 10 Km buffer Zone. Water requirement including of existing operating mine is estimated to be 55.0 KLD which is being met by existing bore wells.

The total area is 167.048 Ha which is already sanctioned mine lease area. Mining Lease area of 167.048 comprises of 97.321 Ha Agriculture land & 69.727 Ha as Govt. land. The estimated cost of the project is Rs. 51.0 Lakhs. Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed TOR** for undertaking detailed EIA study as per Annexure-I.

2.47 Colour Granite Mine of M/s Madhucon Granite Ltd., located at Vill. meliputti mandal, distt. Srikakulam, Andhra Pradesh (10.00ha) (1,200M³/annum) (Sri Sai Manasa Nature Tech (P) Limited, Hyderabad)-TOR.

The Mine Lease area is located at Surjini Village, Meliputti Mandal, Srikakulam District (10.00 ha), Andhra Pradesh. The point represented by Latitude and Longitude in the site is N 18° 46'53.75" and E 84°14'03.34", the mine site falls in survey of India topo sheet no. 74B/1. The Project is located in Sesimic Zone – III. It is 'A' category project as the site is located within 10 Km radius i.e. Andhra Pradesh – Orissa State boundary – 1.1 km. Project proponent reported that no wild life Sanctuary/Tiger Reserve/National Park is located within 10 km radius of the mine lease.

The proposed project is Opencast semi-mechanized method for extracting of colour Granite by developing benches of 6m height. It has been proposed to produce approximately 1200 m³/ annum of Colour Granite and granite waste of 4,800 m³/ annum. It is reported that the waste will be backfilled into the mined out pit at the end of the mining.

The Director of Mines and Geology, Hyderabad has granted the quarry lease under vide Proceedings No: 37250/ R-1 /2005 dated 07-03-2007. The Assistant Director of Mines and Geology, Tekkali executed the lease for a period

of 20 Years from 05-05-2007 to 04-05-2027 vide Proceedings No:2238/Q/2005 dated 05-05-2007.

Total water requirement for the mining lease area is 7kL/d. About 3 KLD will be required dust suppression purpose and 1KLD greenbelt and about 3 KLD for domestic purpose. This water will be supplied from bore wells of the nearby area. It is reported by the project proponent that there is no court case/litigation is pending against the project. The estimated cost of the project is Rs. 40 Lakhs.

The Committee observed that this is a **violation case** as mine was operating from 2007 to 2011 without obtaining prior environmental Clearance.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed TOR** for undertaking detailed EIA study as per Annexure-I subject to fulfilling the guidelines of violation.

2.48 Vanna Sand Mining Project of M/s Patita Paban Patra Located at Village Vanna, panchayat Budura, District Gujapa, Odisha(6.60ha) (1,40000 cum of sand/year)-TOR.

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

2.49 Kamoli Sand Mine of M/s Rajesh, located at village Kamoli Khand-I Tehsil Sadar, Distt. Varanasi, U.P.(12.14ha) (50,000 MTPA)-TOR.

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

2.50 Proposed Sachuli Sand Mine Project of M/s Krishan Pratap Singh Village Sachuli, Distt. Shravasti U.P. (12.86ha) (40,000TPA)(Grass Roots Research & Creation India (P) Ltd.)- Reconsideration of TOR.

The proposed project of 12.86 ha area is of in-stream river bed sand mining and falls under Category- "A" as per EIA Notification 2006 of the Ministry of Environment and Forests, New Delhi, due to the presence of Sohelwa Wildlife Sanctuary within 10 km radius of the project site. The mining lease area is located in Village Sachuli, Tehsil Bhinga, District Shravasti, Uttar Pradesh. The proposed project activity will be carried out in the bed of the Nepali Nalla between Latitude: 27°46' 39.35" N to 27°45' 30.30" N and Longitude: 82°2'16.84" E to 82°1' 11.90" E. It has been proposed to collect approximately 40,000 Tonnes/Year sand. No mining activity will be undertaken during the monsoon season. The operation will be manual in which the material will be collected in its existing form. Sand Mining will be carried out only upto a depth of 1 m. The mining lease area falls in Survey of India 1:50,000 scale Toposheet No. 63L/01 (restricted). The number of working people will be 25, so the water requirement for drinking and for dust suppression will be around 0.7 KLD. This water will be supplied from the nearby village by tankers.

The proposal was earlier considered in EAC meeting held during January 16th -18th, 2013 wherein the Committee decided to take up the issue with

Central Pollution Control Board and ask CPCB's recommendation on the matter pertaining to in-stream mining. Meanwhile MoEF may explore its own policies pertaining to this issue. Proponent will be informed after receiving further advice in the matter.

On request of the Project Proponent the proposal was considered in the present meeting and it was informed by PP that the proposal is not for in-stream mining it is for off-stream river bed sand mining. Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan.

2.51 Limestone Mining (0.3 MTPA) by M/s Shri K. Sri Hari Rao located in villages Gorregutta and Borlakunta, District Adilabad, Andhra Pradesh (279.85ha) (Consultant: M/s Bhagavathi Ana labs Ltd.)-TOR.

The proposal is for production of 3.0 Lakh TPA Limestone from Limestone Mine with 279.85 Ha mine lease area of M/s Shri K. Srihari Rao located at villages Gorregutta and Borlakunta, Mandal Dahegaon in Adilabad District of Andhra Pradesh.

The coordinates of the mine lease area are as follows:

1. 19°16'27.31" N, 79°33'37.90" E
2. 19°16'41.31" N, 79°33'35.81" E
3. 19°16'54.50" N, 79°36'38.29" E
4. 19°16'38.72" N, 79°35'40.00" E

The proposal was earlier considered by the Expert Appraisal Committee in its meeting held during 20-22nd October, 2010 to determine the Terms of Reference (TOR) for undertaking detailed EIA study for 1.0 MTPA. During the meeting it was observed that the mine commenced operation without obtaining requisite prior Environmental Clearance as is required under EIA Notification. The committee sought a written commitment in the form of a formal resolution that violation of the Environment (Protection) Act will not be repeated vide its letter J-11015/297/2010-IA.II (M) dated 30th November 2010. The proponent has submitted the written commitment to MoEF on Non-Judicial Stamp Paper dated 29.12.2010 that the violation made as per Environment (Protection) Act, 1986 will not be repeated. Based on information submitted MoEF had issued TOR vide No J-11015/297/2010-IA.II (M) dated 31st March 2011.

However the project proponent has informed that the project was not initiated and applied for a fresh proposal with a proposed production of 0.3 million tonnes / annum.

The mine lease area is 279.85 ha (patta & revenue land). There is no forest land in the lease area. It is reported by the Project Proponent (PP) that mining will be carried out by opencast mechanised method of mining. The

interstitial waste will be directly loaded into tippers and transportation to the reject dump yard. Anticipated life of the mine is 9 years. The water requirement is estimated to be 30.0 KLD, which will be obtained from ground water.

Total Mineable Reserves are estimated to be 2.84 million tonnes. It was reported by the PP, that a total of 0.60 million m³ of OB/waste will be generated during life of mine. It was reported by the PP that the mining will not intersect ground water table in the area. 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. However, it was reported that Reserve forests viz Keslapura R. F (2.1 km), Tungada R.F (3.5 km), Hanti R.F (5.2 km), Kadamba Extension R.F (6.2 km) & Ankhora R.F (9.5 km) are located within the study area. The estimated cost of the project is Rs 200.00 Crores.

It is noted that mine was operating from 1997 to 2009 therefore, this is a **violation case**. Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I

2.52 Bahilampur Limestone and Dolomite Mine of M/s Rajakhjanderao Deshmukh located at vill-Bahilampur, Tehsil-zarijamni, Distt-Yavatmal, Maharashtra (47.12ha) capacity 0.05 MTPA or 50000 tonnes/annum of limestone/ Dolomite (Consultant Srushti Sewa Nagpur)-TOR.

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

2.53 Rajchitapur Decorative Stone Mine (6500 cu. Mt/annum) of M/s. Smt. Rashmi Jain located at Distt. Gajapati, Odisha (8.089ha)-TOR.

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

2.54 Sand Mining Project of the M/s Singareni Collieries Co. Ltd., Village gumpenapalli and ganapavaram, District khammam, A.P.(116/25ha) - Extension of validity of TOR.

The Proponent received TOR from the MoEF vide letter no. J-11015/147/2010-IA.II (M), dated 22.06.2010 which was valid up to 21.06.2012. It was noted that validity of the TOR can only be extended upto 21.06.2013.

Based on the discussions held, the Committee was of the view that validity of TOR has already expired as the maximum period of 3 years have been completed on 21.06.2013; so no further extension of TOR can be recommended by the EAC and the file may be closed and delisted from pending list.

2.55 Bhimgoda Limestone Mine of M/s K.N. Cement Ltd (80000 tonnes/annum), District Sirmour, Himachal Pradesh (24.60ha) (M/s Udaipur Min-Tech Pvt. Ltd.)- Extension of validity of TOR.

The Proponent received TOR from the MoEF vide letter no. J-11015/228/2008-IA.II (M), dated 28.11.2008 which was valid up to 27.11.2012.

The project proponent informed that the Public hearing could not be conducted; therefore, proponent was not in a position to submit the final EIA report.

Based on the discussions held, the Committee was of the view that validity of TOR has already expired as the maximum period of 4 years has been completed on 27.11.2012; so no further extension of TOR can be recommended by the EAC and the file may be closed and delisted from pending list.

2.56 Silica Sand Beneficiation Plant of M/s Mangalore Minerals (P) Ltd. (6 lakh MTPA), village chhattara, Allahabad, Uttar Pradesh (10ha) (M/s Perfact Enviro Soltions Pvt Ltd.)-Extension of validity of TOR.

The Proponent received TOR from the MoEF vide letter no. J-11015/188/2011-IA.II (M) dated 21.09.2011, which was valid up to 20.09.2013. The Project Proponent vide Letter dated 30.08.2013 requested to extend the validity of the TORs; as they anticipated delay in submission of final EIA Report to MoEF.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR as per MoEF O.M. no. J-11013/41/2006.IA.II(I) dated 22.03.2010 for additional one year i.e. from 20.09.2013 to 20.09.2014.

2.57 Jauramunda-Kulenbahal Limestone and dolomite Mine in Sundergarh district, Orissa of M/s Rungta Sons Pvt. (150.00ha) (0.15 MTPA limestone and 0.12 MTPA dolomite) (EcoMen Laboratories Pvt. Ltd.)-TOR.

Terms of Reference were prescribed by MOEF for above proposal vide Letter No. J-11015/84/2009-IA.II(M) dated 08.06.2009. The Proponent informed that they have prepared draft EIA /EMP report and submitted to Odisha State Pollution Control Board, Bhubaneswar on 11.6.2010 for conducting Public Hearing. Public hearing arranged for 3.10.2010, could not be successful due to opposition by some people and only written representation could be obtained, the public opinion was not accepted as public hearing. The Member Secretary, OSPCB informed MOEF vide letter No. 21134/Ind-II-PH-434 dated 9.12.2010 of the same. Despite requests from the Proponent to the OSPCB and MOEF the Public hearing has not been fixed as yet. Therefore the proponent requested MOEF vide letter dated 03.09.2013 for extension of validity of TOR and has also submitted Letter dated 21.10.2013 along with Form-I and PFR for issuance of afresh TOR if extension of earlier TOR is not granted.

During presentation before EAC the proponent also requested vide letter dated 01.11.2013 that they may be allowed to conduct one month monitoring of base line Environment parameters during December 2013 and include the same as addendum to the earlier submitted EIA/EMP Reports to enable them to proceed further for Public Hearing.

After detailed deliberations the Committee was of the view that the baseline data collected by PP is more than three years old; therefore, they need to collect baseline line data for a complete season i.e. from 1st December 2013 to 28th February 2014.

2.58 Bajri mine with production capacity of 22,50,000 TPA (ROM) by M/s. Ranveer singh Rathore located at Tehsil – Sayla, District Jalore, Rajasthan. (3797.588 ha) (Consultant: Vardan Envrinet, Haryana).– TORs

The proposal of M/s Ranveer Singh Rathore is for River Bajri Mining with Production Capacity of 22.50 Lakh TPA of Bajri in 3797.588 ha. The Mine lease area is located at Tehsil-Sayla, District: Jalore, Rajasthan. The lease area lies on Sukari & Bandi River bed. The Latitudes and Longitudes of the Mine Lease area are 25°10'50.18- 25°19'56.90"N and 72°3'57.14 - 72°23'38.08 "E respectively.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 3797.588 ha which non-forest land.

Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 3797.588 ha as been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 25-03-2013 for the period of 5 year to Mr. Naval Kishor Gupta. Total water requirement for the project will be 46 KLD which will be sourced from nearby villages. Total Cost of the Project is Rs. 4.65 Crores. PP informed that no court case/litigation is pending against the project.

The Committee noted that the consultant (M/s Vardan Environet, Gurgaon) who prepared the Form I and PFR report is not accredited by QCI/NABET. However, Proponent has submitted an order of CWP No. 23391 of 2012, dated 29.11.2012 of Hon'ble High Court of Punjab and Haryana at Chandigarh staying the applicability of QCI accreditation to the instant consultant. Hence, the consultant was allowed by the Committee to present the proposal.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix)The base line data shall be collected so as to represent the whole mine lease area.

2.59. Bajri mine with production capacity of 30,00,000 TPA (ROM) by M/s. Anil Joshi located at Revenue villages of Tehsil – Bhinmal, District– Jalore, Rajasthan. (2335 ha) (Consultant: Vardan Envrinet, Haryana)– TORs

The proposal of M/s. Anil Joshi for River Bajri Mining with Production Capacity of 30 Lakh TPA of Bajri in 2335 ha. The Mine lease area is located at Tehsil-Bhinmal, District: Jalore, Rajasthan. The lease area lies on Sagi & Bandi River bed. The Latitudes and Longitudes of the Mine Lease area are 25°10'2.27 to 25°0'34.18"N and 72°09'57.20"E to 72°22'15.91"E respectively.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 2335 ha which non-forest land.

Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 2335 ha as been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 10-05-2013 for the period of 5 year to Mr. Anil Joshi. Total water requirement for the project will be 57.4 KLD which will be sourced from nearby villages. Total Cost of the Project is Rs. 15.20 Crores. PP informed that no court case/litigation is pending against the project.

The Committee noted that the consultant (M/s Vardan Environet, Gurgaon) who prepared the Form I and PFR report is not accredited by QCI/NABET. However, Proponent has submitted an order of CWP No. 23391 of 2012, dated 29.11.2012 of Hon'ble High Court of Punjab and Haryana at Chandigarh staying the applicability of QCI accreditation to the instant consultant. Hence, the consultant was allowed by the Committee to present the proposal.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.60 Bajri mine with production capacity 10,50,000 TPA (ROM) by M/s. Anil Joshi located at Tehsil – Bagora, Distt.- Jalore, Rajasthan (2597.06 ha) (Consultant: Vardan Envrinet, Haryana)– TORs

The proposal of M/s. Anil Joshi is for River Bajri Mining with Production Capacity of 30 Lakh TPA of Bajri in 2597.06 ha. The Mine lease area is located at Tehsil-Bhinmal, District: Jalore, Rajasthan. The lease area lies on Sagi & Sukari River bed. The Latitudes and Longitudes of the Mine Lease area are 25°04'44.82 to 25°11'35.88"N and 72°51'7.29 to 72°5'47.18"E respectively.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 2597.06 ha which non-forest land.

Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 2597.06 ha. has been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 20-03-2013 for the period of 5 year to Mr. Anil Joshi. Total water requirement for the project will be 25.2 KLD which will be sourced from nearby villages. Total Cost of the Project is Rs. 2.61 Crores. PP informed that no court case/litigation is pending against the project.

The Committee noted that the consultant (M/s Vardan Environet, Gurgaon) who prepared the Form I and PFR report is not accredited by QCI/NABET. However, Proponent has submitted an order of CWP No. 23391 of 2012, dated 29.11.2012 of Hon'ble High Court of Punjab and Haryana at Chandigarh staying the applicability of QCI accreditation to the instant consultant. Hence, the consultant was allowed by the Committee to present the proposal.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.61 River sand Mining project with production capacity of 2.47 Lakh TPA (ROM) by M/s. Sanjay Kumar Garg, located at Revenue Village of Tehsil Dudu (Mozamabad), District Jaipur, Rajasthan (954.15075 ha) – TORs

The Committee noted that the Consultant is not accredited from QCI/NABET to present the proposal. The proposal was **deferred**. As per request made by Project Proponent to consider the proposal in the next EAC meeting, the Committee suggested to place it in the next EAC meeting scheduled to be held on 12.11.2013.

2.62 River Sand Mining with production capacity of 5,60,000 TPA by M/s Arjun Singh, located at Revenue Village(s) of Tehsil Shahpura, Distt. Jaipur, Rajasthan. (113.77 ha) (Consultant: M/s Udaipur Mintech, Pvt. Ltd., Udaipur (Raj.)– TORs

The proposal of M/s. Arjun Singh is for River sand Mining with production capacity of 5,60,000 TPA in 113.77 ha. The mine lease area is located at N/V Kumbhawas (Charasa), Kareri, Badijodi, Manoharpur, & Mamtori village in Tehsil – Shahpura & District – Jaipur, State – Rajasthan. The applied Mine Lease area is present in 5 different blocks, details are given below:

Block No.	Village	Latitude	Longitude
I	Kumbhawas (Charasa)	27° 16' 25.08" N	76° 00' 23.04" E
II	Kariri	27° 23' 27.06" N	75° 45' 27.02" E
III	Bari Jhori	27° 26' 45.60" N	75° 53' 59.58" E
IV	Manoharpur	27° 17' 39.78" N	75° 58' 23.58" E
V	Mamtori	27° 16' 38.46" N	75° 56' 35.46" E

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The applied area is Govt. land (River Bed). There is no reserves forest or protected forest land within the applied area. The letter of intent was issued by Additional Director, (Mines) Department of Mines & Geology, Jaipur, vide letter no. Anikha/jai/1/kot/bajri/khp-13/2012/81, dated 15 June 2013.

The total water requirement for the project is estimated 12 KLD which will be supplied from dug well situated in the nearby village and river. Proponent informed that no court case/litigation is pending against the project. The cost of the project is 50.0 Lac and the projected cost of EMP is 5.0 Lac per annum.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.63 River sand (Bajri) mine with production capacity of 28.05 Lakh TPA (ROM) by M/s. Sanjay Kumar Garg, Mineral located at Revenue villages of Tehsil – Mandalgarh – Bijoliya, Distt. – Bhilwara (Rajasthan) (1675.85 ha.) (Consultant: Perfect Environ solution Pvt. Ltd, New Delhi)– TORs

The proposal of M/s Sanjay Kumar Garg is River sand (Bajri) mining with production capacity of 28.05 Lakh TPA (ROM). The mine lease area is located near villages Amarpura, Asawari, Bagthala, Baroo Khera, Bedunda, Beeliya, Bhand Ka Khera, Bharliya, Bhawani Singh Ka Khera, Bilod, Chainpuriya, Chandpura, Chhitarsingh Ji Ka Khera, Chohli, Daulji Ka Khera, Devipura, Gandhari, Gariyan, Gheoriya, Golbari, Gopalpura, Govta, Harisinghji Ka Khera, Hastra, Heengwaniya, Jaliya, Jojwa, Kankoliya, Kanti, Katariyon Ka Khera, Khakhunda, Khangarji Ka Khera, Khatwara, Kherpura, Lakshmipura, Lodhiyana, Mahtaji Ka Khera, Moi, Padampura, Panderi, Peethalpura, Phalasiya, Phoolji Ki Kheri, Pratappura, Ralayata, Ramthali, Sand, Shyam Garh, Tahla, Thal Kalan, Thalkhurd, Tiroli, Ummedpura, Tehsil-Bijoliya & Mandalgarh, District - Bhilwara (Rajasthan). The Latitudes and Longitudes of mine lease area are from 25°06'58.1559"N to 25°30'23.3512"N and 75°03'57.1347"E to 75°07'13.5900"E. The lease area lies on Banas River, Berach River & Menali River.

The project is located in Seismic Zone-II. Total River stretches allotted for mining is about 78.5km comprises Banas River (47.0km), Berach River (16.0km) & Menali River (15.5km).

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The lease area has been granted as per the Rajasthan State Govt. Letter of Intent (F-7(10) Khan/Group-2/2013 Jaipur dated 5th March 2013).

Total water requirement will be 14 KLD. This water will be sourced from nearby wells and tube wells through water tankers for drinking, dust suppression and plantation purposes. No waste will be generated during mining activities. The total cost of project would be around 5.0 Crores.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of

minor minerals; and (ix)The base line data shall be collected so as to represent the whole mine lease area.

2.64 River Sand (Bajri) mine (production capacity of 1.2 Million TPA) of M/s. Jaswant Singh, Located at Revenue villages of Tehsil – Raipur, Distt.- Pali, Rajasthan. (1677 ha.) (Consultant: JM Environet Pvt Ltd, Haryana)- TOR

The Proposal was earlier considered in EAC meeting held during September 25-27, 2013 wherein the Committee prescribed the TORs and the Ministry had already issued TORs vide letter dated 17.11.2013. The proposal was inadvertently placed in this meeting.

2.65 Minor Mineral Bajri Mine with capacity 5.60 million TPA (ROM) by M/s Aman Sethi, located at Revenue villages of Tehsil-Baswa, Distt-Dausa, Rajasthan (2148.29 hac) (Consultant: Enkay Enviro Services Pvt. Ltd, Jaipur)– TOR

The Proposal was **deferred** on the request of the Project Proponent.

2.66 Minor Mineral Bajri Mine with production capacity of 0.504 million TPA by M/s Mangal Singh Solanki, located at Revenue villages of Tehsil-Niwai, Distt-Tonk, Rajasthan (104.7775 hac) (Consultant: Enkay Enviro Services Pvt. Ltd, Jaipur)– TORs

The Proposal was **deferred** on the request of the Project Proponent.

2.67 Mineral, River-Sand (Bajri) Mine with production capacity of 15 LTPA (ROM) by M/s. Satyaswaroop Singh Jadon located near villages Beerasna, Berkhera & others Tehsil – Mahwa, District – Dausa (Rajasthan). (755.02 ha) (Consultant: Perfect Envirosolution Pvt Ltd., New Delhi)– TORs

The proposal of M/s Shri Satyaswaroop Singh Jadaun is for River-Sand (Bajri) Mine with production capacity of 15 LTPA (ROM). The mine lease area is located near villages Akbarpur, Aund Goojar, Bahar khoh, Bandanpura, Beerasna, Berkhera, Bhopur Shahpur, Bhopur Tappa, Chak Vishala, Dhand, Dhol Khera, Doolhapura, Gohandi Goojar, Gohandi Meena, Hasilpur, Jaitpura, Kamalpur, Khanpur, Kherli Narayan Singh, Khoh Kalan, Khohra, Khohra Nandsingh, Kondla, Ladanpur, Langripura, Mahwa, Mandawar, Maujpur, Mohanpur, Moondphori, Motooka, Nadna, Nahida, Naugaon, Naya Gaon, Norangwara, Pahari, Palan Hera, Pali, Paloda, Paota, Patti Kayampur, Peepal Khera, Peeplipara, Raipur, Rajpur, Raseedpur, Sahida, Salempur, Salimpur, Samaspur, Samleti, Sarangpur, Sarawali, Saypur, Seet, Shahadpur, Sheeshwara, Sinduki, Teekri Jafaran, Tekra, Todra, Valeen, Vishala, Wara

Bujurg, Amolak Nagar, Veerapur, Saypur-2, Tehsil - Mahwa, District - Dausa (Rajasthan). The Latitudes and Longitudes of mine lease area are 27°00'49.4714"N to 27°05'6.2470"N and 76°46'26.8109" E to 76°59'0.3644"E. The lease area lies on Banganga River.

The project is located in Seismic Zone-III. Total area of the project is 755.02 ha. Total stretches of Banganga River allotted for mining is about 21.0km.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The lease area has been granted as per the Rajasthan State Govt. Letter of Intent (P.7 (7) Khan/Group-2/2012 Dated 15-02-2013).

Total water requirement will be 14 KLD. This water will be sourced from nearby wells and tube wells through water tankers for drinking, dust suppression and plantation purposes. No waste will be generated during mining activities. The total cost of project would be around 4.0 Crores.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.68 Mineral – River sand (Bajri) Mine with production capacity of 66LacTPA (ROM) by M/s. Shree Mateshwari Minerals, located near villages- Alipur, Udamandi & others, Tesil – khetri, Bhuhana & Neem Ka Thana (Dabla), District – Jhunjhunu and Sikar, Rajasthan. (1936.13ha) (Consultant: Perfect Envirosolution Pvt Ltd., New Delhi.)– TORs

The proposal of M/s Shree Mateshwari Minerals is for River sand (Bajri) mining with production capacity of 66 LTPA (ROM). The mine lease area is located near villages Alipur, Udamandi, Kudhaniya, Kudadwaas, Churina, Jaitpur, Dumoli Kalan, Dumoli Khurd, Dhana, Dhani Sihodiyana, Pacheri Kalan, Pacheri

Khurd, Puhaniya, Banwas, Bhodan, Muradpur, Majri, Ramsar, Ajay Nagar, Ajitpura, Ashok Nagar, Kanakrai, Kurand, Kankriya, Kali Pahadi, Kalota, Kishanpura, Kolyali, Ganeshpura, Gudineecha, Gadrata, Gothra, Godhanpura, Gaureer, Govindaspura, Khetri, Kharkada, Khatipura, Charan Singhpura, Charawas, Chirani, Chichdoli, Jmalpura, Jasrapur, Jhujharpur, Tiba, Tilawali, Thathwadi, Dadafatepura, Dhani Ilasar, Dhani Dhima, Dhani Bada, Dhani Bhaj nawali, Thosi, Tyonda, Tajija, Taal, Tihara, Dudhwa, Delalpur, Dalota, Devta, Devnagar, Dheerajpura, Nayikothi, Nangli Daledi, Nayanagar, Nangliya, Nangliya Gujrawas, Nanuwali Bawdi, Naalpur, Naurangpura, Padewa, Papurana, Pratappura, Pratibhanagar, Badau, Bnadha Ki Dhani, Babai, Burka, Basai, Basant Vihar, Besarda, Bahalwan Nagar, Bankori, Bagora, Badalwas, Bansiyal, Bilwa, Bhitara, Mukandpura, Mandawa, Mehadajatuwas, Madhogarh, Mandari, Manota Kalan, Manota Khurd, Manota Jatan, Modki, Modi, Roopawas, Rawa, Rasulpur, Rajota, Ramkumarpura, Ramnagar, Rampura, Rodasar, Rojda, Sehlana Ka baas, Laalgarh, Loyal, Hardiya, Harinagar, Shyampura, Krishnanagar, Shree Sardarpura, Shimla, Sanjay Nagar, Sunari, Sefraguwar, Sardarpura, Sihod, Dabla, Tehsil- Khetri, Bhuhana & Neem ka Thana, District - Jhunjhunu and Sikar (Rajasthan). The Latitudes and Longitudes of mine lease area are 27°47'32.9543"N to 28°09'22.4295"N and 75°42'3.8245"E to 76°05'0.0945"E. The lease area lies on Sukh Nadi, Dohan Nadi, Kantli Nadi, Chandrawati Nadi and Pawati Nala.

The project is located in Seismic Zone-II. Total river stretches allotted for mining is about 63.0km comprises Sukh Nadi (19.0km), Dohan Nadi (2.0km), Kantli Nadi (7.0km), Chandrawati Nadi (19.0km) and Pawati Nala (16.0km).

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The lease area has been granted as per the Rajasthan State Govt. Letter of Intent (F-17(23) Khan/Group-2/2013 dated 13th June 2013).

Total water requirement will be 16 KLD. This water will be sourced from nearby wells and tube wells through water tankers for drinking, dust suppression and plantation purposes. No waste will be generated during mining activities. The total cost of project would be around 7.0 Crores.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar

wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.69 Mineral – Bajri Mine with production capacity of 75.9 Lakh TPA (ROM) by M/s. Mahendra Singh Ratnawat, located at Revenue villages of Tehsil – Udaipurwati, District- Jhunjhunu, Rajasthan (2932.924ha) (Consultant: Perfect Envirosolutions Pvt. Ltd., New Delhi.)- TORs

The proposal of M/s Shri Mahendra Singh Ratnawat is for mining of Bajri with production capacity of 75.9 Lakh TPA (ROM). The mine lease area is located near villages Adwana, Udaipurwati, Kakrana, Ked, Keroth, Katlipura, Kishorpura, Keerpura, Kot, Khatkad, Khoh, Guda Dahar, Gadla Khurd, Gudhagaurji, Girawadi, Chanwara, Chapoli, Chawsari, Jagdishpura, Jaitpura, Jahaj, Jodhpura, Jgadaya Nagar, Toda, Dhani Sokdala, Dhani Kanika, Dhnai Bijarniya, Dudiya, Deeppura, Dhanawata, Nangli Nirwan, Nangli Deep Singh, Newri, Nangal, Natasa, Naharwadi, Panchlagi, Paapdakalan, Paapdakhurd, Paukh, Bajawa, Basantpura, Bagora, Bamlaas, Basri, Basbisna, Baasmana, Bhatiwaar, Bhojgarh, Mandawara, Manaksas, Mainpura, Mawta, Rajeevpura, Haripura, Hansalsar, Heerwala, Sheonathpura, Surpura, Sarai, Seethal, Kirori, Kolsiya, Khedron Ki Dhani, Chirana, Chaudhani, Tonk Chilri, Devipura, Nohra, Pujari ki Dhani, Parasrampura, Pahadela, Bagoriyon ki Dhani, Barwa, Bharwari, Bhojnagar, Rampura & Lohargal Tehsil Udaipurwati and Nawalgarh District - Jhunjhunu (Rajasthan).

The Latitudes and Longitudes of mine lease area are from 28°02'9.2784"N, to 27°40'36.6288"N and 75°33'8.8912"E to 75°23'9.4259"E. The lease area lies on Kantli Nadi, Udaipur-Lohargarh Nadi. The project is located in Seismic Zone-II. Total lease area of the project is 2932.924 ha. Total River stretches allotted for mining is about 79.0km comprises Kantli Nadi (39.0km), Udaipur-Lohargarh Nadi (40.0km).

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The lease area has been granted by Rajasthan State Govt. vide Letter of Intent (F-7(21) Khan/Group-2/13 Jaipur, dated 15th May 2013.

Total water requirement will be 22 KLD and will be sourced from nearby wells and tube wells through water tankers for drinking, dust suppression and plantation purposes. The total cost of project would be around 8.0 Crores.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for

undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.70 Mineral – Bajri Mine with production capacity of 92.625 Lakh TPA (ROM) by M/s. Parasmal Ghanchi located at Revenue villages of Tehsil-Pindwara, District - Sirohi, Rajasthan (588.14 ha). (Consultant: Perfect Envirosolution Pvt Ltd., New Delhi.)– TORs

The proposal of M/s Shri Paarasmal Ghanchi of proposed production capacity is 92.625 Lakh TPA. The mine lease area is located near villages Patumbri, Bhavari, Nadiya, Silvani, Jhadoli, Veervada, Moori, Undra, Khankharwada, Kaachhauri, Parlai, Kotra, Kojra, Bhujela, Bhimana, Watera, Kaasindra, Udvadiya, Tarungi, Achpura, Peshua, Naya Saanvada, Phulera, Dhanari, Richdi, Nanarwada, Saangvada, Bhaarja, Bhujela, Banaas, Nittauda, Kodarla, Dingaar, Aarasana, Telpur, Lautana, Janapur, Jhankar, Rohira & Wasa, Tehsil Pindwara, District - Sirohi (Rajasthan). The Latitudes and Longitudes of mine lease area are from 24°33'6.8674"N to 24°52'12.6061"N and 72°51'4.3130"E to 72°56'28.1436"E. The lease area lies on Banas River, Sukli Nadi, Hukli River, Kukri River & Gokli Nadi.

The project is located in Seismic Zone-II. Total river stretches allotted for mining is about 93.0km comprises Banas River (30.0km), Sukli Nadi (30.0km), Hukli River (5.0km), Kukri River (12.0km) & Gokli Nadi (16.0km).

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The lease area has been granted as per the Rajasthan State Govt. Letter of Intent (P8 (17) Khan/Group-2/13 Jaipur dated 13th Jun, 2013).

Total water requirement will be 22 KLD. This water will be sourced from nearby wells and tube wells through water tankers for drinking, dust suppression and plantation purposes. No waste will be generated during mining activities. The total cost of project would be around 2.0 Crore.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.71 River Bed Mining Project of Minor Mineral with production capacity 16.8 lakh TPA (ROM) by M/s Narottam Singh Jadaun, located at Revenue villages of Tehsil & Distt-Dausa, State-Rajasthan (2031.98 ha) (Consultant: Udaipur Mintech Pvt Ltd.)– TORs

The proposal of M/s Narottam Singh Jadaun is for River Bed Mining Project of Minor Mineral with production capacity 16.8 lakh TPA (ROM). The mine lease area is located at N/V Kharana, Chandrana, Borai, Jherawas, Dhai, Bapi, Chandrama ki Dhani, Lalu ki Bas, Mangabhata ka Bas, Topara, Bhajwara, Nayagoan, Bane ka barkhera, Tehsil & District – Dausa of State Rajasthan. The applied area falls in Survey of India GT sheet no. 54 B/1 & 5,(adjoining each other) and located between Latitude 26⁰55'00"E to 27⁰00'00"E and longitude 76⁰13'00"N to 76⁰28'00"N.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 2031.98 ha which non-forest land. The applied area is Govt. land (River Bed). There is no reserves forest or protected forest land within the applied area. The letter of intent was issued by Joint Secretary, Mines (Group-2), Government of Rajasthan, letter no.P.7 (6) Khan/Group-2/2013, Jaipur Dt.15 Feb. 2013.

The total water requirement for the project is estimated 25 KLD. Water for mining operation (dust suppression) and for domestic & drinking purpose will be supplied form dug well situated in the nearby village and river. No court case/litigation is pending against the project. The cost of the project is 1.92 Crores and the projected cost of EMP is 20.0 Lakh per annum.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.72 River Bed Mining Project of Minor Mineral with production capacity of 7.5 Lakh TPA by M/s Indrajeet Singh Jhala located at Revenue villages of Tehsil - Gangadhar, Distt-Jhalawar, State-Rajasthan (1179.84 ha) (Consultant: Udaipur Mintech Pvt. Ltd.)– TORs

The proposal of M/s Indrajeet Singh Jhala is for River Bed Mining Project of Minor Mineral with production capacity of 7.5 Lakh TPA. The applied mine lease area is located at N/V Parapipli, Mundla, Bishniya, Chaumahta, Gangadhar, Malharganj, Pipakheri, Uncha bardlya, Lakha kheri parmar, Chiri, Sarwar, Magal, Unhel, Kishangarh, Karmakheri, Chara, Tonkra, Tehsil – Gangadhar and Distt. – Jhalawar, Rajasthan. The lease area forms a part of Survey of India topo-sheet no.45 P/8, P/12, 46 M/5 & M/9. The lease is located at following latitude and longitudes: Latitude: 23⁰ 47' 32.21" to 24⁰ 01' 32.47" N; Longitude: 75⁰ 27' 37.45" to 75⁰ 42' 02.82"E.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The applied area is Govt. land (River Bed). There is no reserves forest or protected forest land within the applied area. The total applied area is 1179.84 ha. The letter of intent was recommended to be issued by Supdt. Mining Engineer (M III) vide his letter no. Dir/P2(A3)Jhala/Bajri/2012/274 Dt. 18-01-2013.

The total water requirement for the project is estimated 15 KLD. Water for mining operation (dust suppression) and for domestic & drinking purpose will be supplied from dug well situated in the nearby village and river, 4 KLD for plantation, 6.0 KLD for drinking & 5.0 KLD for dust suppression. No court case/litigation is pending against the project. The cost of the project is 80.0 Lacs and the projected cost of EMP is 10.0 Lacs per annum.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.73 River Bed Mining Project of Minor Mineral with production capacity 11.2 Lakh TPA (ROM) by M/s Arjun Singh, located at Revenue villages of Tehsil - Pisangan, District Ajmer, State-Rajasthan (163.4503 ha) (Consultant: Udaipur Mintech Pvt. Ltd.)–TORs

The proposal of M/s Arjun Singh is for River Bed Mining Project of Minor Mineral with production capacity 11.2 Lakh TPA (ROM). The mine lease area is located at N/V Govindgarh, Akhepura, Jaswantpura, Pisangan, Budhwada, Nuriawas, Tehsil- Pisangan & District – Ajmer of State Rajasthan. The lease area falls in Sarawati nadi Block I of 51.3618 Ha, between Latitude 26027'23.63"N to 26027'36.75"N and longitude 74023'42.90"E to 74025'14.18" E and Sagarmati nadi Block II of 112.0885 Ha, between Latitude 26022'16.96"N to 26021'57.32"N and longitude 74026'01.10"E to 74028'03.70" E in Survey of India GT sheet no. 45 J/7.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The applied area is Govt. land (River Bed). The letter of intent was issued by Additional Director, (Mines) Department of Mines & Geology, Jaipur, vide letter no. Anikha/jai/aj/bajri/khp-13/2013/884, dated 18th April, 2013.

The total water requirement for the project is estimated 20 KLD. Water for mining operation (dust suppression) and for domestic & drinking purpose will be supplied with the help dug well situated in the nearby village and river, 6 KLD for plantation, 7.0 KLD for dust suppression & 7.0 KLD for drinking & sanitation. No court case/litigation is pending against the project. The cost of the project is 66.0 Lac and the projected cost of EMP is 8.0 Lac per annum.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.74 River Bed Mining Project of Minor Mineral with production capacity of 7.5 Lakh TPA (ROM) by M/s Indrajeet Singh Jhala located at Revenue villages of Tehsil – Jhalrapatan & Ramganjmandi, Distt(s)-, Jhalawad & Kota, State-Rajasthan (1695.06 hac) (Consultant: Udaipur Mintech Pvt Ltd.)– TORs

The proposal M/s Indrajeet Singh Jhala is for River Bed Mining Project of Minor Mineral with production capacity of 7.5 Lakh TPA (ROM). The mine lease area is located at N/V Bambori, Bavrikheri, Aroliya, Biriya kheri khurd, Gindora, Jhalara-patan, Bakshpura, Bagdar, Mundalya khera, Chand loi, Sagoriya, Rup pura, Kanwara, Kanwari, Samiya, Gadari, Dhavli, Saranga khera, Narli, Binda, Jatamali, bhumari, Semli bhawani, Chanvali, Gurariya, Asondiya, Khijarpur, Bhaumara, Soyat kalan, Gugal heri, Gunjari, Achrahan, Matwasa, Gadarwara nurji, Barana, Ratanpura, Mori, Kans kheri, Kherkhera, Barodiya, Tehsil – Jhalrapatan of District – Jhalawar and Tehsil Ramganjmandi of District – Kota, Rajasthan. The lease area forms a part of Survey of India topo-sheet no. 45 P/14, P/15, 54D/2, D/3, D/4. The lease is located at following latitude and longitudes: Latitude: 24⁰ 41'24.96" to 24⁰ 12'49.56" N & Longitude: 75⁰ 59' 34.8" to 76⁰ 14' 45.78" E.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total applied area is 1695.06 ha.

The letter of intent was issued by Joint Secretary, Mines (Group-2), Government of Rajasthan, letter no.P.9 (2) Khan/Group-2/2013, Jaipur Dt.8th March 2013. The total water requirement for the project is estimated 15 KLD. Water for mining operation (dust suppression) and for domestic & drinking

purpose will be supplied with the help dug well situated in the nearby village and river, 4 KLD for plantation, 6.0 KLD for drinking & 5.0 KLD for dust suppression. No court case/litigation is pending against the project. The cost of the project is 85.0 Lac and the projected cost of EMP is 10.0 Lac per annum.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; (ix) The base line data shall be collected so as to represent the whole mine lease area; and (x) As the Lease area is spreading over two districts therefore the Public Hearing are to be conducted in both the Districts.

2.75 Mineral-Bajri mine with production capacity 32 Lakh TPA (ROM) by M/s. Satya Swaroop Singh Jadon, located at Revenue villages of Tehsil – Jalore, District – Jalore, Rajasthan (5269 ha) (Consultant: Vardan Environet, Haryana)– TORs

The proposal of M/s. Satya Swaroop singh Jadon is for River Bajri Mining with Production Capacity of 32 Lakh TPA of Bajri in 5269ha. The Mine lease area is located at Tehsil-Jalore, District: Jalore, Rajasthan. The lease area lies on Bandi, Sukari, Jawai & Khari river bed. The Latitudes and Longitudes of the Mine Lease area are 25°23'58.1"N and 72°35'32.0"E respectively (Approximate Centre of Scattered mining lease area of 5269 ha.).

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 5269ha which non-forest land.

Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 5269ha. has been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 26-04-2013 for the period of 5 year to Mr. Satya Swaroop singh Jadon. Total water requirement for the project will be 34.7 KLD which will be sourced from nearby villages. Total Cost of the Project is Rs. 11.51 Crores. PP informed that no court case/litigation is pending against the project.

The Committee noted that the consultant (M/s Vardan Environet, Gurgaon) who prepared the Form I and PFR report is not accredited by QCI/NABET. However, Proponent has submitted an order of CWP No. 23391 of 2012, dated 29.11.2012 of Hon'ble High Court of Punjab and Haryana at Chandigarh staying the applicability of QCI accreditation to the instant consultant. Hence, the consultant was allowed by the Committee to present the proposal.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.76 Mineral-Bajri Mine with production capacity of 32 Lakh TPA by M/s. Satya Swaroop Singh Jadoun, located at Revenue villages of Tehsil-Jaswantpura, District- Jalore, Rajasthan. (4710ha) (Consultant: Vardan Environet, Haryana)– TORs

The proposal of M/s. Satya Swaroop Singh Jadon is for River Bajri Mining with Production Capacity of 32 Lakh TPA of Bajri in 4710 ha. The Mine lease area is located at Tehsil-Jashwantpura, District: Jalore, Rajasthan. The lease area lies on Bandi, Rel & Dhani Nadi river bed. The Latitudes and Longitudes of the Mine Lease area 24°47'39.75 "N and 72°27'54.17"E.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 4710 ha which non-forest land.

Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 4710 ha. has been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 10-05-2013 for the period of 5 year to Mr. Satya Swaroop Singh Jadon. Total water requirement for the project will be 30.5 KLD which will be sourced from nearby villages. Total Cost of the

Project is Rs. 12.65 Crores. PP informed that no court case/litigation is pending against the project.

The Committee noted that the consultant (M/s Vardan Environet, Gurgaon) who prepared the Form I and PFR report is not accredited by QCI/NABET. However, Proponent has submitted an order of CWP No. 23391 of 2012, dated 29.11.2012 of Hon'ble High Court of Punjab and Haryana at Chandigarh staying the applicability of QCI accreditation to the instant consultant. Hence, the consultant was allowed by the Committee to present the proposal.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.77 Mineral – Bajri Mine with production capacity of 63 Lakh TPA (ROM) by M/s. Mahendra Singh Ratnawat, located at Revenue villages of Tehsil- Neem-Ka-Thana, District- Sikar, Rajasthan. (3150.07ha) (Consultant: Vardan Environet, Haryana)–TORs

The proposal of M/s. Mahendra Singh Ratnawat is for River Bajri Mining with Production Capacity of 63 Lakh TPA of Bajri in 3150.07ha. The Mine lease area is located at Tehsil- Neem-Ka-Thana, District: Sikar, Rajasthan. The lease area lies on Kantali River bed. The Latitudes and Longitudes of the Mine Lease area 27°41'25.4"N and 75°38'29.8"E respectively.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 3150.07ha which non-forest land.

Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 3150.07 ha has been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 10-05-2013 for the

period of 5 year to Mr. Mahendra Singh Ratnawat. Total water requirement for the project will be 64 KLD which will be sourced from nearby villages. Total Cost of the Project is Rs. 11.76 Crores. PP informed that no court case/litigation is pending against the project.

The Committee noted that the consultant (M/s Vardan Environet, Gurgaon) who prepared the Form I and PFR report is not accredited by QCI/NABET. However, Proponent has submitted an order of CWP No. 23391 of 2012, dated 29.11.2012 of Hon'ble High Court of Punjab and Haryana at Chandigarh staying the applicability of QCI accreditation to the instant consultant. Hence, the consultant was allowed by the Committee to present the proposal.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

2.78 Mineral – Bajri Mine with production capacity of 18 Lakh TPA by M/s Arjun Singh, located at Revenue villages of Tehsil - Ahore, District - Jalore, Rajasthan (4376.84 ha).) (Consultant: Vardan Environet, Haryana)– TORs

The proposal of M/s. Arjun Singh is for River Bajri Mining with Production Capacity of 18 Lakh TPA of Bajri in 4376.84 ha. The Mine lease area is located at Tehsil-Ahore, District: Jalore, Rajasthan. The lease area lies on Sukari, Jawai & Mithari River bed. The Latitudes and Longitudes of the Mine Lease area lies between 25°45'41.32"N-72°49'41.25"E, 25°20'34.66"N -72°41'51.43"E and 25°25'31.89"N-72°41'22.44"E.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 4376.84 ha which non-forest land.

Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 4376.84 ha. has been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 27-07-2013 for the period of 5 year to Mr. Arjun Singh. Total water requirement for the project will be 41 KLD which will be sourced from nearby villages. Total Cost of the Project is Rs. 5.17 Crores. PP informed that no court case/litigation is pending against the project.

The Committee noted that the consultant (M/s Vardan Environet, Gurgaon) who prepared the Form I and PFR report is not accredited by QCI/NABET. However, Proponent has submitted an order of CWP No. 23391 of 2012, dated 29.11.2012 of Hon'ble High Court of Punjab and Haryana at Chandigarh staying the applicability of QCI accreditation to the instant consultant. Hence, the consultant was allowed by the Committee to present the proposal.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zonal wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

Additional items with the permission of Chair:

3.1 New Umrangshu Limestone Mine with Production Capacity of 7.77million TPA (ROM) of M/s Calcom Cement India Ltd., located at Village New Umrangshu, Tehsil Umrangshu, Distt. Dima Hasao, Assam (417.50 ha) (Consultant: J.M. Enviro Net Pvt. Ltd.)-Reconsideration of EC

The proposal is of M/s Calcom Cement India Ltd. (CCIL) for Limestone mining with Production Capacity 7.77 million TPA of Limestone (ROM). The mine lease area is located at Village New Umrangshu, Tehsil Umrangshu, Distt. Dima Hasao, Assam. The Latitudes and Longitudes of the mine lease is 25°31'18.00"N to 25°32'25.20"N and 92°47'25.20"E to 92°48'32.40"E respectively.

The proposal was considered by the Expert Appraisal Committee in its meeting held during 19th-21th October, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/202/2011- IA II (M) dated 28th December, 2011. The proponent submitted the EIA/EMP report to the Ministry for seeking environmental clearance after conducting public hearing. The project proponent made a presentation with regard to compliance of TORs for mining of Limestone with a capacity of 7.77 million TPA.

The mine lease area is 417.50 ha which is a Forest land. The mining plan was approved by IBM vide letter no. 314(3)/2011-MCCM (CZ)/MP-28 dated 10th April, 2012. PP reported that 211.87ha area will be used for excavation, 72.00ha for overburden/dumps, 10.40ha for infrastructure development, 3.67ha for road, 55.00ha for Green belt development and 64.56 ha area will be the undisturbed area. PP informed that the proposal of diversion of forest land for limestone mining lease of 425.5ha of Forest Land has been submitted to the State Forest Department on 17.05.2012 and it is under consideration.

Mining is by fully mechanized opencast method. The mine working will not intersect ground water table. The process will involve drilling, blasting, loading and transportation of the excavated material. The proposed drilling & blasting will be done in a staggered pattern with 150-165 mm dia drill holes with 5.0 m burden & 7.0 m spacing. The blasting will be done by using ANFO and other high explosive in ratio of 80:20. The total estimated mineable reserves are 162.56 million tonnes and life of mine is approximately 21 years. The total overburden is estimated as Sub Grade: 17.6 million m³ and Kopili/Shale: 9.12 million m³. Topsoil generated will be 0.672 Million m³, which will be utilized for reclamation and rehabilitation. At the conceptual stage, about 72 ha area will be covered under waste dump. The same will be stabilized by plantation.

The PP informed that Lime stone will be transported via Umrangshau Road and accordingly the impact assessment report due to road transportation has been carried out and the Committee deliberated the issues involved.

The total water requirement for the project will be 100 KLD which will be sourced from Amrang Nalla. Rain water harvesting would be undertaken depending upon feasibility and availability. NOC has been obtained from DimaHasao Autonomous Council, Haflong vide letter no. DHAC/GAD/282/2011-12 dated 31.07.2012.

PP informed that the proposed mine is captive limestone mine for cement plants of CCIL. It will cater to the limestone requirement for the cement plants at village Umrangshu, DimaHasao, Assam and at village Pipulpukhuri, Lanka, Dist. Nagaon (Assam). Environmental Clearances for both the cement plants were accorded vide MoEF. No. J-11011/307/2006 – IA II (I) dated 26th July 2007

and No. J-11011/312/2006 – IA II (I) on 26th July 2007 respectively.

It was reported by the PP that no National Parks, Wildlife Sanctuaries, Tiger Reserves within 10 km radius of the mining lease boundary. However, Krungming Reserved Forest exists within the study area at ~ 2.7 km in NW direction. No Schedule I fauna was found within core & buffer zone.

The baseline data was generated for the period during Post monsoon seasons i.e. October to December 2011. The Committee noted that the base line monitoring data were prior to the issuance of TORs. PP informed the Committee that they had requested to use the base line data during the presentation in the EAC meeting held in October 19-21, 2011 to determine the TORs, however it was not reflected in the Minutes of the meeting. Some of the members recollected the decision taken in the EAC meeting held in October 19-21, 2011. The Committee deliberated the issues and were of the opinion that as the base line data collection process and coverage were conforming to the TORs on the subject and that the cardinal environmental parameters are well within the permissible limits as prescribed by the CPCB, this could be agreed to.

The Public Hearing was conducted on 10th April, 2013 under the chairmanship of Mr. Barun Bhuyan, District Magistrate, Dima Hasao District at NEEPCO Recreation Club at KHEP Colony, NEEPCO Ltd., Umrangshu, District: DimaHasao (OldNorth Cachar Hills) Assam. The representative of Regional Office from the Assam Pollution Control Board was also present. The Committee discussed the issues raised during the public hearing.

The total cost of the project is Rs. 45.50 Crores. The PP has earmarked Rs. 20 Lakhs towards Environmental Protection Measures and Rs. 5 Lakh per annum towards recurring expenses. PP informed that Rs. 120 Lakhs have been earmarked towards CSR activities. PP reported that there is no court case/litigation pending against the project.

The proposal was earlier considered in the 11th EAC meeting held during September 25-27, 2013 wherein the Committee sought the following additional information and deferred the proposal:

- (i) The Environment policy does not appear to be approved by the Board hence compliance of TORs conditions no. 4 to 6 stipulated were not fulfilled;
- (ii) Details of measures to be taken to preserve the seasonal Nalah (Amrang Nalla) passing through the mine lease; and

- (iii) As the entire MLA is forest land, the PP needs to submit certified details of flora/fauna from the State Government as the PP has informed that there is no Schedule-I /Endangered/Rare species.

The Proponent has submitted the above mentioned information/clarification w.r.t. (i) approved Environment policy by the Board; (ii) Details of measures to be taken to preserve the seasonal Nalah (Amrang Nalla) passing through the mine lease; and (iii) certified details of flora/fauna from the State Government.

Based on the information submitted, discussion held, the Committee **recommended** the proposal for environmental clearance for the mining of Limestone with Production Capacity of 7.77million TPA (ROM) subject to the submission of Stage I FC for diversion of forest land.

3.2 Bolani Iron ore Mine along with Beneficiation and pellet plant of M/s SAIL located at village Bolani, Tehsil Barbil, District Keonjhar, Odisha - (5.1 Sq. miles lease) Amendment in Environment Clearance-regarding

The Mine lease is located between latitude 22°05'N and 22°08'N and Longitude 85°17' and 85°20'E. The mine lease area is 1321.45 ha which includes 1225.78 ha of forest land. Stage-I forest clearance has been obtained on 12.11.2010 for an area of 1152.58 ha. The EC to the project was issued vide letter no. J-11015/418/2008-IA.II(M) dated 21.12.2012 for enhancement of production of iron ore from 5.65 million TPA to 12 million TPA (ROM) along with installation of a new beneficiation plant of 12 TPA throughput and pellet plant of 4 million TPA capacities. The PP requested for amendment of the condition para. 6(iii) Forest clearance for 73.20 Ha. of Safety zone has not been obtained by the project proponent and the EC was subjected to the diversion of the Safety zone within one year. In the light of guidelines issued by FC division vide their letter F. No. 11-362/ 2012-FC dated 01.02.2013 the FC for complete forest area within mine lease are shall be obtained within 2 years from the date of issue of guidelines failing which, the mining lease area will be reduced to the non forest area plus the forest area for which the project proponent has been able to obtain the FC at the end of this time period. In the case of reduction in mine lease area, the project proponent will need to get a revised mining plan approved from the competent authority for reduced area and enter into a new mining lease as per reduced lease area. The EC will be construed to be available for the mining lease area as per the revised mining lease deed. In this regard Committee **recommended** that PP may be permitted to obtain FC for 73.20 ha of safety zone by 31.01.2015.

The PP also informed that while submitting the EIA/EMP Report, it was mentioned that there are two adjacent mining leases in 'Bolani Ore Mines viz Bolani 5.1 sq. miles lease' 'Bolani 6.9 sq. Miles lease'. Bolani 5.1 sq. miles lease is the iron ore bearing area whereas Bolani 6.9 sq. miles is manganese ore

bearing. Common infrastructure, facilities for both the mines viz. railway siding & loading yard township, tailing pond, water intake point etc. are located in 6.9 sq. miles lease.' and that the mine working will be open cast fully mechanized. The Committee **recommended** the amendment in the EC letter.

Annexure-I

S. No.	Terms of Reference (TORs)
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 and mining technology 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 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)	Does the company have 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.
6)	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.
7)	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.
8)	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.
9)	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.
10)	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.
11)	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.
12)	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.
13)	The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
14)	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.
15)	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, 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 State Wildlife Department/Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished.
16)	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, 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 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.
17)	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.
18)	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).
19)	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 located in the mine lease area will be shifted or not. The issues relating to shifting of Village including their R&R and socio-economic aspects should be discussed in the report.

20)	One season (non-monsoon) primary baseline data on ambient air quality (PM ₁₀ , SO ₂ and NO _x), 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 PM ₁₀ , particularly for free silica, should be given.
21)	Air quality modelling 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 modelling 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.
22)	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.
23)	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
24)	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.
25)	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.
26)	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. 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.
27)	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.
28)	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.
29)	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.
30)	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.
31)	Details of the onsite shelter and facilities to be provided to the mine workers

	should be included in the EIA report.
32)	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.
33)	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.
34)	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.
35)	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.
36)	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.
37)	Detailed environmental management plan 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.
38)	Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
39)	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.
40)	The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.

List of Participants

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|-----|--|------------------|
| 1. | Shri M.S. Nagar | Chairman |
| 2. | Dr. S. Subramaniyan | Member |
| 3. | Dr. L. Ajay Kumar | Member |
| 4. | Dr. Ranjan Sahai | Member |
| 5. | Dr. S.K. Peshin | Member |
| 6. | Prof. G.S. Roonwall | Member |
| 7. | Prof. A. K. Bhatnagar | Member |
| 8. | Dr. Asha Rajvanshi | Member |
| 9. | Dr. D. Mohamed Kizhar Irshath | Member |
| 10. | Dr. Saroj Director, MoEF | Member Secretary |
| 11. | Dr. R. B. Lal, Deputy Director, MoEF | |
| 12. | Dr. Sonu Singh, Deputy Director, MoEF | |
| 13. | Representative of M/s Hindustan Zinc Limited | |
| 14. | Representative of M/s JSW Steel Limited | |
| 15. | Representative of M/s Shri Prakash Chandra Dwivedi | |
| 16. | Representative of M/s All India Minerals | |
| 17. | Representative of M/s Surya Associates | |
| 18. | Representative of M/s Sher Singh Solanki | |
| 19. | Representative of M/s Mangal Singh Solanki | |
| 20. | Representative of M/s Bharat Singh Shekhawat | |
| 21. | Representative of M/s Dawar Cements Pvt. Ltd. | |
| 22. | Representative of M/s Garhwal Mandal Vikas Nigam Ltd. | |
| 23. | Representative of M/s Hari Mandir Mineral Traders | |
| 24. | Representative of M/s Benita Industries | |
| 25. | Representative of M/s Rashtriya Ispat Nigam Ltd. | |
| 26. | Representative of M/s Balasore Alloys Ltd. | |
| 27. | Representative of M/s Shri Chandrakant Omprakash Mishra | |
| 28. | Representative of M/s Steel Authority of India Limited | |
| 29. | Representative of M/s Lafarge India Pvt. Ltd. | |
| 30. | Representative of M/s Madhucon Granite Ltd. | |
| 31. | Representative of M/s Krishan Pratap Singh | |
| 32. | Representative of M/s Shri K. Sri Hari Rao | |
| 33. | Representative of M/s Singareni Collieries Co. Ltd. | |
| 34. | Representative of M/s K.N. Cement Ltd. | |
| 35. | Representative of M/s Mangalore Minerals (P) Ltd. | |
| 36. | Representative of M/s Rungta Sons Pvt. | |
| 37. | Representative of M/s Ranveer singh Rathore | |
| 38. | Representative of M/s Anil Joshi | |
| 39. | Representative of M/s Sanjay Kumar Garg | |
| 40. | Representative of M/s Arjun Singh | |
| 41. | Representative of M/s Satyaswaroop Singh Jadon | |
| 42. | Representative of M/s Shree Mateshwari Minerals | |

43. Representative of M/s **Mahendra Singh Ratnawat**
44. Representative of M/s **Parasmal Ghanchi**
45. Representative of M/s **Narottam Singh Jadaun**
46. Representative of M/s **Indrajeet Singh Jhala**
47. Representative of M/s **Satya Swaroop Singh Jadon**
48. Representative of M/s **Calcom Cement India Ltd.**
