

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

SUMMARY RECORD OF 1st MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The **First Meeting** of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during **December 21-22, 2015**. The list of participants is annexed.

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

Item No. 1:

(1.1). Circulation of the Minutes of the 39th EAC Meeting

The Minutes of the 39th Meeting of EAC held during **October 26-28, 2015** were circulated.

(1.2). Presentation on the provisions of the EIA Notification, 2006

Initially, the Member Secretary of the EAC welcomed the new members and briefed about the basics of the non-coal mining sector in the Ministry and the process involved in organizing EAC meetings. Subsequently, Dr. R.B. Lal, Joint Director of the Ministry gave a power point presentation on the provisions of the EIA Notification, 2006 and also on the online submission process involved in the Environmental clearance of the non-coal mining sector. Finally, Dr. Sonu Singh, Joint Director of the Ministry gave a brief on conducting EAC meetings and the procedures involved in the functioning of the committee. After this, the Chairman of EAC Dr. Ajai Kumar, welcomed the members and gave an introductory speech and points to be noted for the committee members. The Chairman has agreed to nominate Shri B. Ramesh Kumar as the Vice Chairman of the EAC (Non-coal Mining).

Item No. 2: Consideration of Environmental Clearance Proposals

(2.1). Mining of Bajri (Minor Mineral) with proposed production capacity of 28.05 Lakh TPA (ROM) by lessee Sher Singh Solanki, located at Revenue village(s) of Tehsil-Reodar, District – Sirohi, Rajasthan (MLA 1286ha)- [Consultant:-M/s Perfect Enviro Solutions Pvt. Ltd.]-Re-consideration of EC.

The proposal of lessee Sher Singh Solanki is for mining of River Sand (Minor Mineral) with proposed production capacity of 28.05 Lakh TPA (ROM). The mine lease area is located at village 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 Reodhar, District Sirohi, Rajasthan in the mine lease area of 1286 ha. The mine lease area lies on Sipu and Sukli River bed. The Latitudes and Longitudes of the mine lease area lies between 24° 31'13.65"N to 24°41'27.02"N and 72° 25'04.32"E to 72°42'27.86"E on Survey of India Topo sheet numbers 45 D/6 & 45D/10.

The proposal of ToR was considered by the Expert Appraisal Committee in its 12th meeting held during 31st October, 2013 to 1st November, 2013 to determine the Terms of Reference (ToR) for undertaking detailed EIA study. The ToR was issued by MoEF vide letter No J-11015/309/2013-IA.II (M), dated 22nd November, 2013. The Proponent submitted the EIA/EMP report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The Proposal of EC was earlier appraised by the 34th EAC in its meeting held during May 27-29, 2015, wherein the Committee deferred the proposal and concluded that the Project Proponent needs to revise the EIA/EMP Report and also set right the deficiencies including (i) PP has not done the replenishment study; (ii) List of flora/fauna and endangered species are not accurate; (iii) There are Schedule I species, however the conservation plan has not prepared; (iv) The EIA/EMP Report has different contents than the presentation made during the EAC; (v) Online EIA/EMP Report and hard copy submitted are different; (vi) organization Structure is not adequate; (vii) Action Plan along with budgetary provisions on the issues raised during Public Hearing are not prepared adequately; (viii) There is no page numbers mentioned in the EIA/EMP Report; (ix) Forest land and Aravali NOC has not submitted; (x) Geological profile of the area does not have the required details (and may have to be furnished afresh); (xi) Traffic management study has not made and cumulative joint traffic study is to made as the other mines are located nearby; (xii) Questionnaire' has not adequately addressed w.r.t. s. no. 4 and 28.2 etc.; and (xiii) details of Action Plan for occupational health of the workers has not been furnished.

In this context, the Project Proponent, vide letter dated 23.07.2015 has submitted the revised the EIA/EMP Report and accordingly the Proposal is considered in the present meeting.

The mine lease area is 1286 ha which is part of the river Sipu and Sukari. No forest land is involved. The letter of Intent (LOI) for grant of mining lease for minor mineral sand, Bajri over an area of 1286 ha has been granted in favour of Lessee Sher Singh Solanki, vide State Government Order No. P.8 (16) Khan/Group-2/2013 Dated 27-02-2013. The Mining Plan has been approved by Department of Mines and Geology, Govt. of Rajasthan, Jodhpur Circle, vide letter no. SME/JO/CC/Sirohi/Minor/Bajri/M.L.No. -12/2012, dated 22.10.2013.

Method of mining will be opencast semi-mechanized mining method. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. Proponent informed that 299.0 ha area will be used for excavation. The elevation is 279 – 205 AMSL. Ground water depth is 10-15 m in pre- monsoon and 8-13 m in post -monsoon. Total water requirement for the project will be 16 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply. No groundwater intersection during the mining operations is envisaged.

Project proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5 m of the width of the river from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45 m on either side of the structure/bridge. Project proponent reported that there will be construction of temporary rest shelters during operational phase. Mineral will be transported through road. Project proponent has made the traffic Analysis survey and reported that no. of trucks deployed will be 350 per day which increase 2900 PCUs per day, but the level of service (LOS) remains as "A" and "B". Project proponent reported that roads will be repaired regularly and maintained in good condition. A supervisor will be maintained at the sensitive places.

Project proponent reported that the Mount Abu Wildlife Sanctuary is located 7.1 km in the East direction from the lease area. There are two reserved forests. State Government of Rajasthan, vide letter no ME/Sirohi/Minor/Bajri/2015/2260, dated 12.03.2015 has confirmed that the lease does not fall in Aravali range. There are three Schedule-I species found in the study area.

The baseline data was generated for the period during December, 2013 to February, 2014. The project proponent reported that parameters for water and air quality were within permissible limit. The Committee deliberated the baseline data collected by Project Proponent. Project proponent reported that there is no R&R Plan is applicable for this project as the mine lease area lies entirely on the river bed and there is no establishment on the site.

Public Hearing for the proposed project was conducted on 01.09.2014 at 11:00 A.M. at office of subsection Officer, Tehsil- Reodar, District – Sirohi, Rajasthan. The Public Hearing was presided over by Shri V. Sarwan Kumar, District Collector. The representatives from the Regional officer of Rajasthan State Pollution Control Board, Pali were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields. Project proponent has made the action plan with budgetary provisions. The Committee deliberated and is of the view that Project Proponent needs to implement the Action Plan and the Implementation Report has to be submitted to the regional office of the MoEFCC every six month.

The cost of the project is Rs. 5.0 Crore. The Proponent has earmarked Rs. 20.50 Lakh towards Environmental Protection measures towards recurring expenses. Proponent has informed that Rs. 23.50Lakh per annum as recurring cost have been earmarked towards CSR activities for next five years of mining operation. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (in civil Appeal no. 9703-9706 of 2013) production of 43,245 tonnes of Bajri has been made during December, 2013 to March, 2014 and production of 3,71,116tonnes of Bajri has been made during April, 2014 to March 2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Bajri (Minor Mineral) with proposed production capacity of **28.05 Lakhs TPA (ROM)**.

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) The number of trips of the trucks shall not exceed the estimated quantity of 350 trucks trips per day. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all

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

(2.2). Mining of Sandstone (Minor Mineral) with production capacity of 0.8 Million TPA (ROM) of Sandstone by Lessee Smt. Rashmi Sharma, located near village: Sirrondh Tehsil-Roopwas, District-Bharatpur, Rajasthan (MLA 10 ha) (Consultant: M/s. Overseas Min-Tech Consultant)-Consideration of EC.

The proposal of Lessee Smt. Rashmi Sharma is for Mining of Sandstone (Minor Mineral) with production capacity of 0.8 Million TPA (ROM) of Sandstone in MLA of 10 ha. The MLA is located at near village: Sirrondh Tehsil-Roopwas, District-Bharatpur, Rajasthan. The Latitudes & Longitudes of the site are 26°55'26.67" to 26°55'31.07" N and 77°27'38.74" to 77°27'45.31" E respectively & part of study area falls within the Survey of India Topo sheet No. 54F/5, 54F/9, 54E/8 & 54E/12.

The proposal of TOR was considered by the Expert Appraisal Committee (Non-Coal Mining) in its 19th meeting held during April 29-30, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA. TOR has been issued by MOEFCC, vide letter no. J-11015/70/2014-IA.II (M) dated 11.06.2014. The Proponent submitted the EIA/EMP Report online to the Ministry for seeking environmental clearance after conducting Public Hearing.

The Project Proponent informed that the mining lease over an area of 10.00 ha was initially granted in favour of Shri Vasudev Katara S/o Shri Saligram Sharma for 10 years w.e.f. 23.07.1990, for the mining of minor mineral Sandstone vide State Govt. letter no.359-64. The Mining Lease period was extended for 30 years as per the State Govt. policy and the application submitted by the lessee. The lease was transferred in favour of Smt. Rashmi Sharma (the proponent) vide letter no. 2322-24 dtd. 17.07.2013. The rider agreement was executed on 19.07.2013 and registered on 23.07.2013. The Mining Lease was hence transferred to Smt. Rashmi Sharma W/o Shri Narendra Tiwari vide State Govt. Memorandum no. ME/Bharat/ RE/Minor Mineral/ML-42/2000/2416 dated 02.08.2013. So this Mining Lease is effective from 19.07.2013 in favor of Smt. Rashmi Sharma.

Mining Plan & Progressive Mine Closure Plan for the proposed minor mineral

mining project of sandstone (ML area 10.0 ha) has been approved with SME, DMG, Bharatpur vide letter no. SME/BP/M.Sch-/ame/Roop/F-1 (114)10/1990(42/2000R) dated 18.03.2015. Mining method will be semi mechanized opencast for Production of minor mineral in the mine of sandstone of 0.8 Million TPA (ROM) by digging, sorting of minerals & transportation by trucks/dumpers. Mineral will be sorted and graded manually and transported through trucks. Total water requirement for the project is 7.5 KLD. The Public Hearing was conducted on 13th February, 2015 at 11:00 am at Panchayat Bhawan, village Sirrondh, Tehsil: Roopwas & District: Bharatpur, Rajasthan.

The Committee noted that the Members had not received the EIA/EMP report and also the Project Proponent could not provide the distance certificate w.r.t. Sanctuary as well as Interstate boundary to determine the category of project i.e. 'A' or 'B'. The Committee deliberated and **deferred** the Proposal and suggested to place the project in subsequent EAC meeting for further consideration.

(2.3). Mining in "Khuh Limestone Mine" with production capacity of 4,75,095 TPA (ROM) of Limestone and 1,01,061 TPA (ROM) of Sandstone by M/s Cement Manufacturing Co. Ltd., located at village-Lumshnong, Tehsil-Khliehriat, District - East Jaintia Hills, Meghalaya (9.66 ha) (Consultant: Perfect Enviro Solutions Pvt. Ltd., New Delhi) -Consideration of EC.

The proposal of M/s Cement Manufacturing Co. Ltd., is for Mining in "Khuh Limestone Mine" with production capacity of 4,75,095 TPA (ROM) of Limestone and 1,01,061TPA (ROM) of Sandstone in the mine lease area 9.66ha. The mine lease area is located at village-Lumshnong, Tehsil-Khliehriat, District-East Jaintia Hills, Meghalaya. The Latitudes and Longitudes of the site is North 25^o 9'48" to 25^o10'4.3"N and 92^o22'05.3" to 92^o22'23.6"E respectively on the Survey of India Topo sheet no. 83 C/8 (Restricted Topo sheet). It is a category 'A' project as the Narpuh Wildlife Sanctuary is located at 3.96 km in SE direction from the mine lease area.

Project Proponent reported that project was earlier presented in SEIAA Meghalaya and TOR was issued by the SEIAA, Meghalaya, vide letter No. SEIAA/PR-20/2012/6, dated 24.04.2013. After TOR, the Narpuh Reserve forest was declared as Wild Life Sanctuary, vide no. FOR.128/2013/20, dated 10th June 2014. The project is at a distance of 3.96 km from the Narpuh Wild life Sanctuary. The general condition has applied to the project and accordingly considered as Category 'A' as per EIA Notification 2006. The Project Proponent has submitted the Application for revalidation and extension of validity of TOR and accordingly, the proposal of Revalidation of TOR was considered by the Expert Appraisal Committee in its 35th Meeting held during June 24th – 26th, 2015. The revalidation of TOR was issued by MoEFCC, vide letter No. J-11015/192/2015-1A.II (M), dated 4th August, 2015. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance with one month revalidated data.

The proposal is for Limestone Mining with proposed production of 475,095 TPA (ROM) of Limestone and 1,01,061 TPA (ROM) of Sand Stone in the mine lease area of 9.66 ha. All the land within the lease area is private non forest land; it is a hillock of rocky barren nature. The State Govt. granted two mining leases for Khub-I, 4.96 ha & Khub-II, 4.70 ha to CMCL for meeting the limestone requirement of the cement plant CMCL. The two pre-existing mines were applied for amalgamation, which was granted in the year 2009 vide letter no. MG.-98/2008/23 dated 01.04.2009 (and thereby become 9.66 ha) from Govt. of Meghalaya in favour of Cement Manufacturing Company Ltd. Validity of Lease period is up to 16.01.2025.

Baseline studies were carried out during 2013. The revalidated baseline data was generated for the period May, 2015. All the parameters for water and air quality were within permissible limits. The total mineable reserves of limestone are of the order of 5.36 million tones. The annual production of limestone is 475,095 TPA and sandstone 1,01,061 TPA. The life of mine is about 12 years. There is no overburden in plan period. The entire land is owned by CMCL. At present 8.09 ha is mined out land and remaining 1.57 ha land is virgin or undisturbed. Topography of the ML area and its surroundings are rugged and mountainous. Maximum and minimum contours passing through the area are 546 m and 520 m respectively. South-Western part of the area is at a higher elevation with respect to south-eastern part. A perennial nallah flows about 400 m South of the southern lease boundary. The climate in the study area is typically tropical. The study area of buffer zone is having social infrastructure facilities like hospital, schools, electricity, potable water, transport facilities, post & communication etc. These facilities have been strengthened under CSR activities.

Public Hearing was conducted on 12.06.2014. The Public Hearing was presided over by Smt. D. Phawa MCS, ADC, East Jaintia Hills District, Meghalaya. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, hiring people of nearby area, effective implementation of measures to control dust pollution. Final EIA/EMP report was submitted to SEIAA on 29.10.2014. Further, the Narpuh Reserve forest was declared as Wild Life Sanctuary, vide no. FOR.128/2013/20, dated 10th June 2014. The project is at a distance of 3.96 km from Narpuh Wild life Sanctuary. The general condition has applied to the project and considered as Category 'A' as per EIA Notification 2006. Conservation plan for scheduled species has been approved by PCCF, Meghalaya vide no. MFG. 16/50/CMCL/Vol.I/II,031 dated 28.11.2013 and supplementary plan approved vide no. MFG. 16/50/CMCL/Vol.II, 404 dated 12.11.2015. The Principal Chief Conservator of Forests, State Government of Meghalaya, Department of Forests and Environment, vide letter no. MFG.16/50/CMCL/Vol.II/13852, dated 7th December, 2015, has verified that the notified boundary of Narpuh Wild life Sanctuary is 3.96 km and distance from the Draft Eco sensitive zone is 3.77km.

Method of Mining will be done by fully mechanized opencast method involving drilling and blasting will be undertaken with the help of Excavator/loader and dumper. Bench height will be kept at 6 m & width 9 m. Ultimate working depth will be 430 mRL in Khub I and 450 mRL in Khub II. Dust suppression will be carried out in working area and haul roads by sprinkling of water with water tanker. Wet drilling will be practiced to reduce noise generation and PPE will be provided to the mine workers. Green belt has been developed in safety zone and plantation will be carried out. Besides this, plantation drive in the surrounding ML area has been undertaken with the total involvement of community, for better survival rate. The total water requirement is 43 KLD, out of which 3 KLD for drinking purpose, 25 KLD for mining & allied activities including dust suppression, and 15 KLD for plantation. The water shall be met by Cement Plant of CMCL. No ground water interception during the mining operations is envisaged.

Project Proponent reported that the production from Khub-I (4.96 ha) started in 2004 and from Khub-II in 2006. So far 1,893,565.299 MT of limestone produced from Khub-I and 3,042,248.486 MT from Khub-II (upto May, 2014). The production is as per the total quantity permitted as per approved mining plan.

The cost of the Project is Rs. 675 Lakhs. The Proponent has earmarked Rs. 33 Lakhs per annum towards recurring expenses for Environmental Protection Measures. Proponent informed that Rs. 37.00 lakh have been earmarked towards CSR and Rs. 21.00 lakhs per annum embarked for CSR activities. Project Proponent has reported that there is not court case/litigation pending against the Project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for **Mining of Limestone with production capacity of 4,75,095 TPA (ROM) and Sandstone with production capacity of 1,01,061 TPA (ROM).**

The Committee **recommended additional specific conditions** viz. (i) Implementation of species specific conservation plan for Schedule I species; (ii) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities; (iii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The PP shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing; (iv) The mining operations shall be restricted to above ground water table and it should not

intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry; (v) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres;(vi) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board;(vii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and(viii) Washing of all transport vehicle should be done inside the mining lease.

(2.4). Mining of River Bed Material (Minor Mineral) in the Mine of "Jagatpur Sand Unit" with proposed production capacity of 9.0 Lakhs TPA (ROM) by Lessee Shri Mohan Paul Singh Pannu, located at Village -Jagatpur, Tehsil -Kathua, District-Kathua, Jammu & Kashmir (19.941 ha) (Consultant: M/s ENVIRTA Sustainable Solutions India Pvt. Ltd.) – Consideration of EC

The proposal of Lessee Shri Mohan Paul Singh Pannu is for mining of River Bed Material (Minor Mineral) on Ravi River with proposed production capacity of 9.0 Lakhs TPA(ROM) in the mine lease area 19.941 ha. The mine lease area is located at village- Jagatpur, Tehsil and District – Kathua, Jammu & Kashmir. It is category "A" project as the mine lease area is located 0.4 Km from the inter-state boundary of Jammu & Kashmir and Punjab. The mine lease area lies on river bed of River Ravi. The Latitudes and Longitudes of the River Bed Block : 32°22'19.31"N to 32°21'56.75"N and 75°34'23.67"E to 75°34'5.65"E on Survey of India Topo sheet numbers 43P/11 (Site), 43P07. The Project is located in Seismic zone-IV.

The proposal of TOR was considered by the Expert Appraisal Committee in its meeting held during 16-18th March, 2015 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by the MoEFCC vide letter no. J-11015/35/2015-IA-II (M), dated 15th April 2015. The Proponent submitted the EIA/EMP Report online to the Ministry for seeking environmental clearance after conducting Public Hearing.

Total mine lease area 19.941 ha. Project Proponent reported that there is no forest land involved. State Government of Jammu & Kashmir has issued Letter of Intent in favor of Shri Mohan Paul Singh Pannu under Jammu & Kashmir Mineral Concession Rule, 1962, vide letter 1430/MCC/DGM/ML/12/1051, dated

12.06.2014. The Mining Plan was approved by Directorate of Mines and Geology, Srinagar, Govt. of Jammu & Kashmir, vide letter DGM/F-435/AoMP/89-92, dated 18.10.2014.

Method of mining will be opencast semi-mechanized. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5 m of the width of the River from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45m on either side of the structure/ bridge. Project Proponent reported that there will be construction of temporary rest shelters during operational phase. Project Proponent has informed that Replenishment of Sediments will be occurred every year. Total water requirement for the project is 12.28 KLD.

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that 262 no. of trucks will be deployed per day and the level of service (LOS) remains as "B" on NH-1A and SH-Nagri Road. Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area i.e. 10 km radius of the mine boundary. Divisional Forest Officer, Kathua, Forest Department, vide letter No KFD/NOC/2014-15/5118 dated 11.02.2015 has confirmed that mine lease area does not fall under Forest Land. There are no Schedules-I species in the study area.

Baseline data on Ambient Air Quality, Water Quality, Soil Quality and Noise Quality has been collected for summer season i.e. March 2015-May 2015. The Committee deliberated the baseline data collected by Project Proponent. Project proponent reported that there is no R&R Plan is applicable for this project as the mine lease area lies entirely on the river bed and there is no establishment on the site.

Public Hearing was conducted on date 05.10.2015 at 10.00 AM at Village-Jagatpur, Tehsil & District Kathua. The Public Hearing was presided over by Shri Ramesh Kumar, District Magistrate, Kathua, Jammu & Kashmir. The representatives from Jammu and Kashmir State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting.

The total cost of the Project is Rs. 60 Lakhs. Proponent reported that the annual capital cost is Rs. 5.0 lakhs and Recurring cost is Rs. 1.0 lakhs towards the Environmental Protection measures. Proponent informed that Rs. 1.80 Lakhs

per annum has been earmarked towards CSR activities for next five years of mining operation. Project Proponent has reported that there is not court case/litigation pending against the Project.

The Committee deliberated at length the information submitted by PP and **recommended the Proposal for Environmental Clearance for Mining of River Bed Material (Minor Mineral) with proposed production capacity of 9.0 Lakhs TPA (ROM).**

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) The number of trips of the trucks shall not exceed the estimated quantity of 262 trucks trips per day. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; and (viii) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.5). Mining of River Bed Material (Minor Mineral) in the Mine of "Kedyan Gandyal Sand Unit" with proposed production capacity of 11.0 Lakhs TPA (ROM) by Lessee Shri Mohan Paul Singh Pannu, located at Village - Kedyan Ganyal, Tehsil – Kathua, District-Kathua, Jammu & Kashmir (19.942 ha) (Consultant: M/s ENVIRTA Sustainable Solutions India Pvt. Ltd.) – Consideration of EC.

The proposal of Lessee Shri Mohan Paul Singh Pannu is for mining of River Bed Material (Minor Mineral) on Ravi River with proposed production capacity of 11.0

Lakhs TPA(ROM) in the mine lease area 19.942 ha. The mine lease area is located at village- Kedyan Gandyal, Tehsil and District – Kathua, Jammu & Kashmir. It is category "A" project as the mine lease area is located 0.3 Km from the inter-state boundary of Jammu & Kashmir and Punjab. The mine lease area lies on river bed of River Ravi. The Latitudes and Longitudes of the River Bed Block : 32°21'30.54"N to 32°21'9.56"N and 75°33'13.41"E to 75°33'25.07"E on Survey of India Topo sheet numbers 43P/11 (Site). The Project is located in Seismic zone-IV.

The proposal of TOR was considered by the Expert Appraisal Committee in its meeting held during 16-18th March, 2015 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by the MoEFCC vide letter no. J-11015/43/2015-IA-II (M), dated 15th April 2015. The Proponent submitted the EIA/EMP Report online to the Ministry for seeking environmental clearance after conducting Public Hearing.

Total mine lease area 19.942 ha. Project Proponent reported that there is no forest land involved. State Government of Jammu & Kashmir has issued Letter of Intent in favor of Shri Mohan Paul Singh Pannu under Jammu & Kashmir Mineral Concession Rule, 1962, vide letter 1431/MCC/DGM/ML/12/1050, dated 12.06.2014. The Mining Plan was approved by Directorate of Mines and Geology, Srinagar, Govt. of Jammu & Kashmir, vide letter DGM/F-435/AoMP/85-88, dated 18.10.2014.

Method of mining will be opencast semi-mechanized. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5 m of the width of the River from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45m on either side of the structure/ bridge. Project Proponent reported that there will be construction of temporary rest shelters during operational phase. Project Proponent has informed that Replenishment of Sediments will be occurred every year. Total water requirement for the project is 13.28 KLD.

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that 262 no. of trucks will be deployed per day and the level of service (LOS) remains as "B" on NH-1A and SH-Nagri Road. Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area i.e. 10 km radius of the mine boundary. Divisional Forest Officer, Kathua, Forest Department, vide letter No KFD/NOC/2014-15/5117 dated 11.02.2015 has confirmed that mine lease area

does not fall under Forest Land. There are no Schedules-I species in the study area.

Baseline data on Ambient Air Quality, Water Quality, Soil Quality and Noise Quality has been collected for summer season i.e. March 2015-May 2015. The Committee deliberated the baseline data collected by Project Proponent. Project proponent reported that there is no R&R Plan is applicable for this project as the mine lease area lies entirely on the river bed and there is no establishment on the site.

Public Hearing was conducted on date 06.10.2015 at 10.00 AM at Village-Kedyan Gandyal, Tehsil & District Kathua. The Public Hearing was presided over by Shri Ramesh Kumar, District Magistrate, Kathua, Jammu & Kashmir. The representatives from Jammu and Kashmir State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting.

The total cost of the Project is Rs. 60 Lakhs. Proponent reported that the annual capital cost is Rs. 3.5 lakhs and Recurring cost is Rs 1.0 lakhs towards the Environmental Protection measures. Proponent informed that Rs. 1.80 Lakhs per annum has been earmarked towards CSR activities for next five years of mining operation. Project Proponent has reported that there is not court case/litigation pending against the Project.

The Committee deliberated at length the information submitted by PP and **recommended the Proposal for Environmental Clearance for Mining of River Bed Material (Minor Mineral) with proposed production capacity of 11.0 Lakhs TPA (ROM).**

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) The number of trips of the trucks shall not exceed the estimated quantity of 262 trucks trips per day. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all

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

(2.6). Rajmahal Kaolinised Sandstone Mine with production capacity of 1,47,881 TPA (ROM) of sand stone and washing plant by M/s Dalmia Agencies Pvt. Ltd., located at Village –Kasba, PS Rajmahal, Taluka Rajmahal, District Sahibganj, Jharkhand (MLA 24.281 ha) (Consultant: M/s Udaipur Min-Tech Pvt. Ltd.)- Consideration of EC.

The proposal of M/s Dalmia Agencies Private Limited is for mining of kaolinised sandstone with Production capacity of 1,47,881 TPA (ROM) of sand stone and washing plant in the mine lease of 24.281ha. The mine lease area is located at near village Kasba, P.S. Rajmahal, District: Sahibganj, Jharkhand. The Latitudes and Longitudes of the mine lease area lies between 25°04'3.37" to 25°04'29.93" N & 87° 46'58.16 to 87°46'58.52"E in the Survey of India Topo sheet No. 73 O/16. It is a category 'A' project as the Interstate boundary between Jharkhand & West Bengal is at a distance of 1 Km from lease area. The Udhuwa Bird Sanctuary is located at a distance of 5.2 Km from the lease area.

The proposal for TOR was considered by expert Appraisal committee in its 5th meeting during 13th – 15th meeting 2013 to determine the TOR for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter No vide letter no. J-11015/337/2012-IA.II (M) dated 15.09.2014. The EIA/EMP Report submitted online to Ministry for Seeking Environment Clearance after conducting Public Hearing.

The mine lease area is 24.281ha. No forest land is involved. Initially the Mining Lease was granted in favour of M/s Orissa Cement Ltd. on 21.02.1966 for a period of 10 years (up to 20.02.1976). First renewal of ML was granted on 05.11.1976 for a period of 10 years from 21.02.1976 to 20.02.1986 for the same area and in the name of same lessee. Mine Lease area was then transferred in the name of M/s Dalmia Agencies Pvt. Ltd. on dated 02.11.1977 as per approval by State Govt. Second renewal of ML was typed on 20.02.1985 but received by Competent Authority on 22.4.1985 i.e. delayed by 2 months and 2 days. This application was rejected by the State Govt. on 18.11.1985 for said grounds. The Proponent filed a revision against the order dated 18.11.1985 before Central Govt. The Central Govt. set aside the order of State Govt. and remanded back the case to State Govt. with the directions to pass a speaking order on merits. The

State Govt. did not decide the case so far. Third renewal was applied on 02.02.2005. Third renewal was also pending & lease was under deemed renewal stage as per Rule 24(A) sub Rule (6) of MCR-1960 & now as per the MMDR Amendment Act, 2015 under section 8A (6), the lease period has been extended up to 31st March 2020.

Method of mining is done by opencast mechanized (Other than fully mechanized). No blasting is required as the overburden and mineral is soft in nature. Height of the bench varies depending on the thickness of the concerned strata, the maximum height is kept below 6m where the thickness of the mineral exceeds this limit an additional bench is opened. Width of the benches will be kept more than the height. There is a Washing Plant in the mine lease having area 0.91 ha. Kaolinised Sandstone invariably requires to be washed to remove the impurities like quartz, unkaolinised feldspar, mica etc., before putting into use. Washing Plants will be worked by manual and mechanical process. The Mining Plan has been approved by State Government of Jharkhand, vide letter No ADM(R)/SBG/KS/MP/2015-44/M, Ranchi, dated 27.02.2015.

Project Proponent reported that 9.72ha area will be used for excavation, 3.54ha area will be backfilled and planted, 0.19 ha area will be used for soil dump and 0.81 ha will be used for green belt development. There is a washing plant in the lease area having an area of 0.91 ha. Anticipated life of mine is 20 years. The mined out material will be transported through road by tippers/trucks to the stockyard located at a distance of 50m from mine. The ground water depth is 40-45mbgl. Water requirement for the proposed project for domestic use, dust suppression and plantation, will be approx. 6.5 KLD, which will be met from private tankers, and water requirement for washing unit is 93.5 KLD out of which 70% is recycled, so the net fresh water requirement for washing unit is 28.05 KLD. The total water consumption in the Mine lease area is about 34.55 KLD.

Project Proponent reported that the Udhuwa Bird Sanctuary is located at 5.2 Km from mine lease area and they had applied for NBWL clearance to the Divisional Forest Officer, Wildlife Division of the State Govt. in March 2013. The NBWL approval is under approval. There is no Schedule –I species reported in the study area. The base line data was generated for the period during October 2014 to December 2014. All the parameters for water and air quality were within the permissible limits.

The Public Hearing for the proposed project was conducted on 06.06.2015 at 2.0 PM at Village Kasba, Rajmahal, District Sahibganj, Jharkhand. The Public Hearing was presided by Shri Niranjana Kumar, Additional Collector. The representatives from Jharkhand State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, include the priority to local people in employment, effective implementation of measure to control dust pollution, water conservation measure, social and other village developed activity and not to harm nearby fields.

The cost of project is Rs. 1.4 Crores. The Proponent has earmarked Rs. 7.5 Lakhs towards Environmental Protection measure and Rs. 4.7 Lakhs per annum towards recurring expenses. This was a violation case as the mine continued to work after it fell due for renewal in 02.02.2005, without obtaining prior Environmental Clearance. Ministry had initiated actions on violation. A prosecution report has been filed in the Court of Additional Chief Judicial Magistrate, Rajmahal, District Sahibgunj on 02.09.2013 vide OCR No. 67 of 2013 to take cognizance of offence by the said court under section 15 of the Environment (Protection) Act, 1986 which has been committed by the offending project. The Project Proponent has also submitted the Board Resolution vide letter No. DAPL/MOEF/13-14/59, dated 22nd November, 2013 which is taken on record. Project Proponent has also submitted the compliance of MoEFCC's direction dated 10th January, 2014 vide letter No. DAPL/MoEF/14-15/51 dated 08th May, 2014

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for **Rajmahal Kaolinised Sandstone Mine with production capacity of 1,47,881 TPA (ROM) of sand stone subject to submission of distance certificate from the Chief Wildlife Warden of the State Government w.r.t. Udhuwa Bird Sanctuary.**

The Committee **recommended additional specific conditions** viz. (i) Implementation of species specific conservation plan for Schedule I species; (ii) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities; (iii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The PP shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing; (iv) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry; (v) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution

testing centres;(vi)There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board;(vii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and(viii) Washing of all transport vehicle should be done inside the mining lease.

CONSIDERATION OF TOR PROPOSALS

(2.7). Mining of River Sand mineral of Bajari with Production Capacity of 0.43 Million TPA (ROM) by M/s Mateshwari Mintech Pvt. Ltd., located at Revenues Village(s) of Tehsil- Laxmangarh, District: Alwar, Rajasthan (MLA 237.20 ha) (Consultant: J.M. Enviro Net Pvt. Ltd.)- Consideration of TOR

The proposal of M/s Mateshwari Mintech Pvt. Ltd. is for mining of River Bed of Bajri with production capacity of 0.43 Million TPA (ROM) in the mine lease area 237.20ha. The mining lease area is located near village(s) Adoli, Agra Ki, Khedli Bhadar, Kheda Ka Bas, Kheda Mangal Singh, Kheda Sarangpuri, Khudiyana, Kohara, Gaonri, Ghat, Chamarwara, Jatwara, Telakpur, Diwali Pahari, Thodoli, Naswari, Narnol Khurd, Palan of Tehsil: Laxmangarh, District: Alwar (Rajasthan). The Geographical Coordinates for the mine site are Latitudes- 27⁰17'12.04" N to 27⁰33'44.80" N & Longitudes- 76⁰47'50.72" E to 77⁰01'11.25" E. The mine site falls on Survey of India Topo sheet no.- 54 A/10, 54A/11, 54 A/14, 54 A/15, 54 A/16, 54 E/2, 54 E/3.

Total M.L. Area is 237.20 ha which is Gair mumkin Nadi and Nallah (comprises of Govt. land only). No forest land is involved in the lease area. Letter of Intent (LOI) has been granted for Bajri mining over an area of 237.20 ha by the Joint Secretary Department of Mines, Government of Rajasthan, vide letter no. P. 6 (2)/ Mine/ Group- 2/ 2014 dated 05.12.2014 for a period of five years. Mining Plan and Progressive Mine Closure Plan has been approved by the Superintending Mining Engineer, Department of Mines & Geology, Jaipur, Government of Rajasthan, vide letter no. SME/JP/MP/312/2015/999 dated 07.10.2015.

Mining will be done by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. The proposed area is a part of Gair Mumkin Nadi and Nallah. No mining activity will be undertaken during the monsoon season. Total water requirement for the proposed project will be 25 KLD which will be sourced from nearby villages. Total manpower requirement for the proposed project will be 340 persons (including workers for all purposes viz. loading, unloading and transportation etc.).

There is no National Park, Wildlife Sanctuary, Biosphere Reserve, Protected Forests, Wildlife corridors, Tiger/Elephant Reserves, Ramsar Site within 10 km

radius of the mine site. There are three Reserved Forests falling within 10 km radius of the mine site. Total cost of the project is Rs. ₹ 1 Crore/-. Capital Cost for Environmental Protection Measures is ₹ 20 Lakhs/-. Recurring cost is ₹ 2.5 Lakhs/ annum. There is no Court case/ litigation pending against the project.

The Project Proponent mentioned that they had started collection of base line data since October 2015 and requested to monitor the baseline data on post-monsoon season i.e. **October 2015 - December 2015**. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

(2.8). Mining of River Sand mineral of Bajari with Production Capacity of 1.65 Million TPA (ROM) by M/s Mateshwari Mintech Pvt. Ltd., located at revenue Village(s) of Tehsil- Ramgarh, District: Alwar, Rajasthan (M L Area-581.28 ha) (Consultant: J.M. Enviro Net Pvt. Ltd.)- Consideration of TOR

The proposal of M/s Mateshwari Mintech Pvt. Ltd. is for mining of River Bed project of Bajri with Production Capacity of 1.65 Million TPA(ROM) in the mine lease area 581.28ha. The mining lease area is located near revenue village(s) Aklempur, Utwala, Odela, Odoka, Kamalpur, Kaririya, Keshavnagar, Kesroli, Kanor Kala Ghata, Khuteta Kalan, Khunteta Khurd, Kharkhada, Khushpuri, Khalsa Nagar, Lhojoka, Ihodakarmali, Lhohar, Googd of Tehsil- Ramgarh, District: Alwar (Rajasthan). The Geographical Co- ordinates for the mine site are Latitude- 27°26'54.09"N to 27°45'50.57"N & Longitude- 76°56'52.43"E to 76°40'42.06"E. The mine site falls on Survey of India Topo sheet no.- 54A/9, 54A/10, 54A/11, 54A/13, 54A/14, 54A/15, 54E/1, 54E/2, & 54E/3.

Total M.L. Area is 581.28 ha which is Gair mumkin Nadi and Nallah (comprises of Govt. land only). No forest land is involved in the lease area. Letter of Intent (LOI) has been granted for Bajri mining over an area of 581.28 ha by the Joint Secretary Department of Mines, Government of Rajasthan, vide letter no. P. 6 (3)/ Mine/ Group- 2/ 2014 dated 05.12.2014. Mining Plan & Progressive Mine Closure Plan has been approved by the Superintending Mining Engineer, Department of Mines & Geology, Jaipur Government of Rajasthan, vide letter no.-

Mining will be done by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. The proposed area is a part of Gair Mumkin Nadi and Nallah. No mining activity will be undertaken during the monsoon season. Total water requirement for the proposed project will be 40 KLD which will be sourced from nearby villages. Total manpower requirement for the proposed project will be 480 persons (including workers for all purposes viz. loading, unloading and transportation etc.).

There is no National Park, Wildlife Sanctuary, Biosphere Reserve, Protected Forests, Wildlife corridors, Tiger/Elephant Reserves, Ramsar Site within 10 km radius of the mine site. There are five Reserved Forests and Eight Protected Forests falling within 10 km radius of the mine site. Total cost of the project is Rs. ₹ 1 Crore/-. Capital Cost for Environmental Protection Measures is ₹ 20 Lakhs/-. Recurring cost is ₹ 2.5 Lakhs/ annum. There is no Court case/ litigation pending against the project.

The Project Proponent mentioned that they had started collection of base line data since October 2015 and requested to monitor the baseline data on post-monsoon season i.e. **October 2015 - December 2015**. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

(2.9). Mining of River Sand mineral of Bajari with Production Capacity of 0.342 Million TPA (ROM) by M/s Mateshwari Mintech Pvt. Ltd., located at revenue Village(s) of Tehsil & District: Alwar, Rajasthan (MLA 247.10 ha) (Consultant: J.M. Enviro Net Pvt. Ltd.) –Consideration of TOR

The proposal of M/s Mateshwari Mintech Pvt.Ltd.is for Mining of River Bed of Bajri with Production Capacity of 0.342 Million TPA (ROM) in the mine lease area 247.10ha. The mining lease area is located near village(s)Ahirbas, Indragarh, Ulabedi, Kairwara, Kairwari, Kairwa Jat, Kairwawal, Kesarpur, Khedli Saiyad, Khedli Pichnaut, Kharkhara, Gujuki, Gajika, Ghegholi, Ghatla, Chomu,

Chhajurampura, Jatoli, Dhhakpuri of Tehsil & District: Alwar, Rajasthan. The Geographical Co-ordinates for the mine site are Latitude- 27°19'17.84"N to 27°39'13.10"N & Longitude- 76°31'42.26"E to 76°46'28.40"E. The mining lease area falls in Survey of India 1:50,000 scale Topo sheet No. 54A/6, 54A/7, 54A/10, 54A/11, 54A/12, 54A/14 & 54A/15.

Total M.L. Area is 247.10 ha which is Gair mumkin Nadi and Nallah (comprises of Govt. land only). No forest land is involved in the lease area. Letter of Intent (LOI) has been granted for Bajri mining over an area of 247.10 ha by the Joint Secretary Department of Mines, Government of Rajasthan, vide letter no. P. 6(4)/Mine/Group- 2/2014 dated 05.12.2014. Mining Plan & Progressive Mine Closure Plan has been approved by the Superintending Mining Engineer, Department of Mines & Geology, Jaipur, Government of Rajasthan vide letter no. SME/JP/MP/312/2015/993 dated 06.10.2015.

Mining will be done by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. The proposed area is a part of Gair Mumkin Nadi and Nallah. No mining activity will be undertaken during the monsoon season. Total water requirement for the proposed project will be 30 KLD which will be sourced from nearby villages. Total manpower requirement for the proposed project will be 290 persons (including workers for all purposes viz. loading, unloading and transportation etc.).

There is no Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves, within 10 km radius of the project site. Sariska National Park is present within 10 km study area in West direction from the site. There are twenty six Reserved Forests and nine Protected Forests falling within 10 km radius of the mine site. Total cost of the project is Rs. 1 Crore/-. Capital Cost for Environmental Protection Measures is 20 Lakhs/-. Recurring cost is 2.5 Lakhs/annum. There is no Court case/ litigation pending against the project.

The Project Proponent mentioned that they had started collection of base line data since October 2015 and requested to monitor the baseline data on post-monsoon season i.e. **October 2015 - December 2015**. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

- (iv) Impact of all existing mining on the present land use in the study area; and
- (v) Details of excavation schedule & sequential mining plan.

(2.10). Mining of River Sand Bajari (Minor Mineral) with proposed production capacity of 31,62,386 TPA (ROM) by Lessee Shri Mohammed Nisar S/o Shri Khalil Mohammed, located at Tehsil-Sangod District –Kota, Rajasthan (MLA: 1662.30ha) (Consultant: ENVIRTA Sustainable Solutions India Pvt. Ltd.) –Consideration of TOR

The Proposal of lessee Shri Mohammed Nisar S/o Mr. Khalil Mohammed is for Mining of River Sand Bajari (Minor Mineral) in Parwan, Ujad and Kalisindh Rivers with proposed production capacity of 31,62,386 TPA (ROM). The mine is located at Parwan, Ujad and Kalisindh Rivers of Tehsil –Sangod, District – Kota, Rajasthan. The mine site falls on Survey of India Topo sheet no.- 54 D01, 54 D05, 54 C04, 54 C08. The Geographical Co- ordinates for the mine site are :-

| River | Latitudes | Longitudes |
|-----------|-------------------------------------------------------------|------------------------------------------------------------|
| Parwan | 24 ⁰ 54'9.393" to 25 ⁰ 07'26.988" | 76 ⁰ 12'3.417" to 76 ⁰ 29'29.232" |
| Kalisindh | 25 ⁰ 07'31.495" to 24 ⁰ 46'13.952" | 76 ⁰ 11'17.42" to 76 ⁰ 12'51.071" |
| Ujad | 24 ⁰ 56'59.14" to 24 ⁰ 53'57.47" | 76 ⁰ 16'20.10" to 76 ⁰ 17'14.67" |

The total lease area is 1662.30 ha. Letter of Intent was awarded by Govt. of Rajasthan, vide letter no. P.9(9)/Khan/Group-2/2013, dated 03/12/2014. Mining will be done by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. All operation of mining i.e. excavation, sorting, sizing and loading will be done by manual means. No drilling/blasting is needed. The minerals will be collected in its existing form. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 24.0 KLD which will be sourced from tanker supply by nearby village with proper permission from the Gram Panchayat.

The Project Proponent reported that no National park is located at a distance of 10 Km from the mine blocks. There is Bapawar Kalan (Protected Forests) – South (12km) from Parwan river, Khandgaon (Reserved Forests) - West (7.5km) from Kalisindh river and Dabri (Reserved Forests) - South (1km) from Parwan river within the ML Areas. The project site lies on three Rivers: Parwan, Kalisindh and Ujad. The total cost of the Project is Rs. 2.5 Crores. Project Proponent reported that there is no Court case/ litigation pending against the project.

The Project Proponent mentioned that they had started collection of base line data since December 2015 and requested to monitor the baseline data on winter season i.e. **December 2015 - February 2016**. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

(2.11). Phatterpur Sand Mining Project with proposed production capacity of 4,23,549 TPA (ROM) of Sand (Minor Mineral) by M/s Sarc Infracon India Limited, located at Village: Phatterpur, Tehsil: Gaurihar, District Chhaterpur, Madhya Pradesh(MLA: 9 ha)(Consultant: M/s Udaipur Mintech Pvt. Ltd.)-Consideration of TOR

The proposal of M/s Sarc Infracon India Ltd. is for Phatterpur Sand Mining Project with proposed production capacity of 4,23,549 TPA (ROM) of Sand (Minor Mineral) in the mine lease area of 9.0 ha. The mining Lease is located on the dry river bed of River Ken of Village: Phatterpur, Tehsil: Gaurihar, District: Chhatarpur, Madhya Pradesh. Latitudes and Longitudes of the site is Pillar 1: 25° 16'40.30" N to 80°20'38.50" E; Pillar 2: 25°16'37.80" N to 80°20'58.50" E; Pillar 3: 25° 16'36.00" N to 80°20'36.70" E; and Pillar 4: 25° 16'33.30" N to 80°20'57.40" E; respectively. The mine lease area falls on Survey of India Topo sheet no. 63 C/7 & 63 C/8. The Project is located in Seismic Zone-II. It is Category 'A' project as the site is located adjacent Interstate boundary of Madhya Pradesh and Uttar Pradesh lies adjacent to the River Ken.

The Letter of Intent has been issued after auction by Government of Madhya Pradesh, Bhopal vide order no. 10603-53/ret/neelami-2015, dated 27.06.2015. Mining will be done by manual opencast method. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. The total sum of all Ghats mine of lease area is 9.0 ha which is classified as Govt. land. Extraction of sand material will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. The total water requirement is 5.61 KLD for drinking & dust suppression, which will be made available through private tankers. The capital cost of the proposed project will be approx. Rs. 340 Lakhs including auction cost. Project Proponent reported

that there is no Court case/ litigation pending against the project.

The Project Proponent mentioned that they had started collection of base line data since October 2015 and requested to monitor the baseline data on post-monsoon season i.e. **October 2015 - December 2015**. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

(2.12). Mining of Sand, Bajri, and Boulder (Minor Mineral) from River Bed of Yamuna Nadi Baya Kinara with proposed production capacity of 3,60,000 TPA (ROM) by M/s Uttarakhand Forest Development Corporation, located at village- Timli, Tehsil- Vikasnagar, District-Dehradun, Uttarakhand (MLA 40 ha) (Consultant: Mantec Consultants Pvt. Ltd.)-Consideration of TOR

The proposal of M/s Uttarakhand Forest Development Corporation is for mining of sand, boulder and bajri (Minor Mineral) with proposed production capacity of 3,60,000 TPA (ROM) from the river bed of Yamuna Nadi Baya Kinara river, located in mine lease area of 40 ha. The mine is located at Village-Timli, Tehsil-Vikasnagar, District-Dehradun, Uttarakhand. The lease area lies between Latitudes 30°24' 56.29"N to 30°23' 58.43"N and Longitudes 77°34' 46.54"E to 77°34' 41.80"E. The lease area located in Seismic zone-IV. The project activity has been categorized as Category 'A' due to presence of Himachal Pradesh (0.10 km), Haryana (2.11 km) and Uttar Pradesh (0.21 km) interstate boundaries, and Kalesar National Park (1.5 km, South) within 5 km radius of mine lease area.

Mine lease area is 40ha which is forest land. Letter of Intent was issued by the Geology and Mining Unit, Directorate of Industries, vides letter no. 475/Khanan/L.O.I/V.VI/BHU.Khani/2014-15, dated 26.05.2015. The project has been proposed for an annual production of 3,60,000 TPA (ROM) of Sand/Bajri/Boulder by open cast manual extraction method in riverbed. The highest point of the lease area is at 367.5 AMSL while lowest is at 363 m AMSL creating a level difference of 4.5 m. The mine will be worked in the day shift only. This project will provide employment to 400 laborers. Total water requirement will be 10.0 KLD for domestic purpose, dust suppression and green belt development

which shall be met by tanker supply. Silt/Clay generated as waste, will be disposed of as filling in low lying area, for plantation & as spreading in agriculture fields. As the mine site is near to the Kalesar National Park, hence the Project Proponent has applied for Wild Clearance which is under process. Project Proponent reported that there is no Court case/ litigation pending against the project.

The Project Proponent mentioned that they had started collection of base line data since December 2015 and requested to monitor the baseline data on winter season i.e. **December 2015 - February 2016**. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the **Standard TOR** for undertaking detailed EIA study as per Annexure-I with additional TOR 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, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Appropriate Disaster Management safeguards in view of the high seismicity of the area; and(vii) Authenticated map with regard to distance of Sanctuary/National Park from the mine lease area.

(2.13). Mining of Sand, Boulder and Bajri (Minor Mineral) with proposed production capacity of 46,20,000 TPA (ROM) in Nandhaur/Kailash River Bed by M/s Uttarakhand Forest Development Corporation, located at village(s)-Chorgalia, Amkhera, Dharampur, Ghunsapur, Maira Barahrana, Tehsil-Haldwani District-Nainital & Udham Singh Nagar, Uttarakhand (468 ha) (Consultant: Mantec Consultants Pvt. Ltd.)-Consideration of TOR

The proposal of M/s Uttarakhand Forest Development Corporation is for mining of sand, boulder and bajri (Minor Mineral) with proposed production capacity of 46,20,000 TPA (ROM) from the river bed of Nandhaur/Kailash river, located in 468 mine lease area. The area is located at village-Chorgalia, Amkhera, Dharampur, Ghunsapur, Maira Barahrana Tehsil : Haldwani District :Nainital & Udham Singh Nagar, Uttarakhand. The lease area lies between 29° 02' 4.7" N to 29° 07' 15.8" N, and 79° 41'40.8" E to 79° 42' 51.0" E. The lease area located in Seismic Zone-IV.

Mine lease area is 468ha which is forest land. The Letter of Intent was issued by the Geology and Mining Unit Directorate of Industries, Govt. of Uttarakhand, vide letter no. 238/Khanan/L.O.I/V.VI/BHU.Khani/2014-15 dated 23 July, 2015. The project has been proposed for an annual production of 46,20,000 TPA (ROM) of Sand/Bajri/Boulder by open cast manual extraction method in riverbed.The

highest point of the lease area is at 318 MRL while lowest is at 228 m creating a level difference of 90 m. The mine will be worked in the day shift only. This project will provide employment to 4410 laborers. Total water requirement will be 18.0 KLD for domestic purpose, dust suppression & green belt development which shall be met by tanker supply. Silt/Clay generated as waste, will be disposed of as filling in low lying area, for plantation & as spreading in agriculture fields. As the mine site is a part of forest land, hence the Project Proponent has applied for forest clearance which is under process. The Nandhaur Wild Life Sanctuary is located at 2.947 km from the mine site. PP has applied the NBWL clearance which is under process. Project Proponent reported that there is no Court case/ litigation pending against the project.

The Project Proponent mentioned that they had started collection of base line data since December 2015 and requested to monitor the baseline data on winter season i.e. **December 2015 - February 2016**. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the **Standard TOR** for undertaking detailed EIA study as per Annexure-I with additional TOR 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, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Appropriate Disaster Management safeguards in view of the high seismicity of the area; and(vii) Authenticated map with regard to distance of Sanctuary/National Park from the mine lease area.

(2.14). Mining of River Bed Sand (Minor Mineral) Mine with production capacity of 0.42 Million TPA (ROM) by Lessee Shri Mukesh Sharma, located at Revenue village(s) of Tehsil: Baran, District – Baran, Rajasthan (MLA: 360.97 ha) (Consultant - Enkay Enviro Services Pvt. Ltd., Jaipur) – Consideration of TOR.

The proposal of lessee Shri Mukesh Sharma is for mining of River Bed Sand (Minor Mineral) with production capacity of 0.42 Million TPA (ROM) in the mine lease area of 360.97 ha. The mine is located at revenue village(s) - Kagla bamori, Mehrawata & Rani badaud, Tehsil: Kishanganj & village(s): Ulthi, Majwata, Kalyanpura ghata, Ghinsri, Hanotiya, Koyla and Shahgrah in Tehsil: Baran, District – Baran, Rajasthan. The geographical co-ordinates of the site are: Latitudes - 25°15'13.07" N to 25°03'47.68" N & Longitudes - 76°35'22.26" E to 76°37'58.58" E and is covered by Survey of India Topo sheet No.54C/11, 54C/12 & 54D/9. Lease area is situated within the river bed which is a seasonal river and classified as a Gair Mumkin Nadi Nallah.

Mine lease area is 360.97ha which is non-forest land. Letter of Intent was issued by the State Govt. of Rajasthan, vide letter dated 03.12.2014. Mine Plan was approved by the DMG, State Govt. of Rajasthan, vide letter dated 12.10.2015. The method of mining will be opencast semi-mechanized. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. No permanent change in land use and land cover is envisaged and the bed will be replenished naturally up to some extent after rainy season. The estimated project cost (tender amount) is 75 lakhs. The mineral will be transported through tractor-trolley. It was reported by the Project Proponent that there is no court case/ litigation pending against the project.

The Project Proponent mentioned that they had started collection of base line data since December 2015 and requested to monitor the baseline data on winter season i.e. **December 2015 - February 2016**. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

(2.15). Rawarda Sandstone Mining with proposed production capacity of 48,092 TPA (ROM) by Lessee Shri Bhopal Singh Ostwal, located at Village: Rawarda, Tehsil- Begun, District- Chittorgarh, Rajasthan (MLA: 4.2360 ha)(Consultant: M/s Overseas Min-Tech Consultants)-Consideration of TOR

The Proposal of Lessee Shri Bhopal Singh Ostwal is for Rawarda Sandstone Mining with proposed production capacity of 48,092 TPA (ROM) in MLA: 4.2360ha. The site is located at Village: Rawarda, Tehsil- Begun, District- Chittorgarh, Rajasthan.

The Committee noted that **the Consultant has not filled properly the Form 1 and PFR** as per the provisions of the EIA Notification, 2006. The Committee **deferred** the Proposal and suggested that the Project Proponent shall revise the documents and submit the same online and **the Proposal to be brought back to the Committee for further** consideration.

(2.16). Mining of Soap Stone and China Clay with proposed production capacity of 1,50,000TPA (ROM) [M.L. No. 443/2010 (old ML NO. 1/90)], by M/s Mahadev Mining Works, located near Village: Nathun, Tehsil- Jahazpur, District- Bhilwara, Rajasthan (MLA: 67.875 ha)(Consultant: M/s Overseas Min-Tech Consultants) –Consideration of TOR

The proposal of M/s Mahadev Mining Works is for Mining of Soap Stone and China Clay Mining Project with proposed production capacity 1,50,000TPA (ROM), M.L. No. 443/2010 (old ML NO. 1/90), in the Mine Lease Area 67.875 ha. The mining is located Near Village: Nathun, Tehsil -Jahazpur District-Bhilwara (Rajasthan). The Latitudes & Longitudes of the site are 25°30'21.97" to 25°31'12.15"N and 75°17'58.51"to 75°18'38.58"E respectively & part of study area falls within the Survey of India Topo sheet No. 45 O/6. Total mineable reserves are (31, 52,618 Tonnes).

The Committee noted that the **Consultant has not filled properly the Form 1 and PFR** as per the provisions of the EIA Notification, 2006. The Committee **deferred** the Proposal and suggested that the Project Proponent shall revise the documents and submit the same online and **the Proposal to be brought back to the Committee for further** consideration.

(2.17). Rawarda Sandstone (Minor Mineral) with proposed production Capacity of 38,432.TPA (ROM) by M/s Jogniya Stone, located at Village-Rawarda (Haripur Badliya), Tehsil – Begun, District – Chittorgarh, Rajasthan (MLA: 4.0671 ha) (Consultant: M/s. Overseas Min-Tech Consultants) – Consideration of ToR

The proposal of M/s Jogniya Stone is for Mining of Sandstone (Minor Mineral) with proposed production Capacity of 38,432.TPA (ROM) in MLA of 4.0671 ha. The mine is located at Village-Rawarda (Haripur Badliya), Tehsil – Begun, District – Chittorgarh, Rajasthan. The Latitudes & Longitudes of the site are 25°02'55.31" to 25°03'09.47" N and 75°11'01.20" to 75°11'12.58" E respectively & part of study area falls within the Survey of India Topo sheet No. 45 O/4, 45 O/8, 45 P/1 & 45 P/5.

The Committee noted that the **Consultant has not filled properly the Form 1 and PFR** as per the provisions of the EIA Notification, 2006. The Committee **deferred** the Proposal and suggested that the Project Proponent shall revise the documents and submit the same online and **the Proposal to be brought back to the Committee for further** consideration.

(2.18). Mining of Sinla Limestone (Cement Grade) with production capacity 1.5 Million TPA (ROM) by M/s Nirma Ltd., located at village – Sinla (Nimbol), Tehsil – Jaitaran, District – Pali, Rajasthan. (140.50 ha)(Consultant: M/s Udaipur Mintech Pvt. Ltd.)-TOR

The Proposal of M/s Nirma Ltd.is for Lime stone mining with production

capacity of 1.5 Million TPA (ROM) in the area of 140.50ha. The mine lease is located at near Village Sinla (Nimbol), Tehsil- Jaitaran, District- Pali, Rajasthan. The Latitude and longitude of the mine lease area lie between 26°18'36.16"N to 26°19'41.17" N and 73°49'49.71"E to 73°50'37.57"E respectively on Topo Sheet no. 45F/15.

Project Proponent has reported that the Letter of Intent (LOI) has been issued in favour of, M/s Siddhi Vinayak Cement Pvt. Ltd. (SVCPL) vide letter no. P.3 (2)KHAN/GR.-2/2014 dated 22.12.2014 for grant of mining lease over an area of 140.50ha. In pursuance to the order of Honorable High Court of Gujarat, M/s Siddhi Vinayak Cement Pvt. Ltd. (SVCPL) has been amalgamated with M/s Nirma Limited (NL) with an appointment date of 1st April 2014. In pursuance to the order with effect from 10th June 2015 being the date on which scheme coming into effect. All the assets and liabilities including entire businesses of Siddhi Vinayak Cement Pvt. Ltd. (SVCPL) without any further act or deed, stood transferred to and vested into the M/s Nirma Ltd. Consequent upon the amalgamation, Siddhi Vinayak Cement Pvt. Ltd. would now be known as "NIRMA LIMITED".

Total Mine lease area is 140.50ha. Out of which 116.57 ha is Private land & 23.93 ha is Govt. Waste Land. The mining will be done opencast mechanized method with drilling and blasting with the use of drill machines, and truck/dumper used for loading and transportation of overburden and lime stone. The total water requirement will be 16 KLD (2.0 KLD for drinking, 8 KLD for suppression and 6.0 KLD for Plantation). The ultimate depth of mining is 21 m bgl & proposed working will not intersect Ground water table.

Project Proponent reported that there is no National Park, Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). The nearest water body's are Luni (Seasonal River) 2 km in south from lease area. Project Proponent informed that site is located away from the critical polluted area. The cost of the project is Rs. 13.17 crores the capital cost of EMP will be Rs 1.0 Crores and amount earmarked for social fund is Rs. 5.2 lacks/annum for plan period. It was reported by the Project Proponent that there is no court case/ litigation pending against the project.

The Project Proponent mentioned that they had started collection of base line data since December 2015 and requested to monitor the baseline data on winter season i.e. **December 2015 - February 2016**. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the **Committee prescribed the Standard TOR subject to submission of Letter of Intent from State Govt. of Rajasthan in the name of M/s NIRMA Ltd. and (ii) Letter from SPCB/CPCB mentioning that the Project area does not fall under Critically Polluted Area of District Pali** for undertaking detailed EIA study as per **Annexure-I**. Further, the

Project Proponent along with EC proposal should also furnish the followings: (i) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography; and (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Impact of all existing mining on the present land use in the study area.

(2.19). Mining of Sinla Limestone (Cement Grade) with production capacity 2.0 Million TPA (ROM) by M/s Nirma Ltd., located at village – Sinla (Nimbol), Tehsil – Jaitaran, District – Pali, Rajasthan. (100.7528ha)(Consultant: M/s Udaipur Mintech Pvt. Ltd.)-Consideration of TOR

The Proposal of M/s Nirma Ltd. is for Lime stone mining with production capacity 2.0 Million TPA (ROM) in the area of 100.7528 ha. The lease is located at near village Sinla (Nimbol), Tehsil- Jaitaran, District- Pali, Rajasthan. The Latitude and longitude of the mine lease area are 26°18'36.05"N to 26°19'40.61"N and 73°49'4.96"E to 73°49'59.71"E respectively on Topo Sheet no. 45F/15.

Project Proponent has reported that the Letter of Intent (LOI) has been issued in favour of, M/s Siddhi Vinayak Cement Pvt. Ltd. (SVCPL) vide letter no. P.3 (20)KHAN/GR.-2/2014 dated 05.12.2014 for grant of mining lease over an area of 126.075 ha. In turn, ME, DMG, Sojat City has demarcated the area jointly with surveyor, Patwari Digrana & Nimbol after excluding gaucher land and adjoining area and prepared demarcation report for an area measuring 100.7528 ha excluding gaucher land and adjoining area and accordingly State Govt. has issued the revised LOI vide order no. P.3 (20)KHAN/GR.-2/2014 dated 21.07.2015 for over an area of 100.7528 ha. In pursuance to the order of Honorable High Court of Gujarat, M/s Siddhi Vinayak Cement Pvt. Ltd. (SVCPL) has been amalgamated with M/s Nirma Limited (NL) with an appointment date of 1st April 2014. In pursuance to the order with effect from 10th June 2015 being the date on which scheme coming into effect. All the assets and liabilities including entire businesses of Siddhi Vinayak Cement Pvt. Ltd. (SVCPL) without any further act or deed, stood transferred to and vested into the Nirma Ltd. Consequent upon the amalgamation, Siddhi Vinayak Cement Pvt. Ltd. would now be known as " M/s NIRMA LIMITED".

Total mine lease is 100.7528 ha. Out of which Private land is 81.4573 ha & Govt. Waste Land is 19.2955 ha. The mining shall be done opencast mechanized method with drilling and blasting with the use of drill machines, and truck/dumper used for loading and transportation of overburden and lime stone. The total water requirement will be 16 KLD (2.0 KLD for drinking, 8 KLD for suppression and 6.0 KLD for Plantation). The ultimate depth of mining is 38.88 mbgl & proposed working will not intersect Ground water table.

Project Proponent has reported that there is no National Park, Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine

boundary). Project Proponent informed that site is located away from the critical polluted area. The nearest water body is Luni (Seasonal River) 2 km in south from the lease area. The cost of the project is Rs. 13.17crores the capital cost of EMP will be Rs. 1.0 crore and amount earmarked for social fund is Rs. 5.2 lacks for plan period. It was reported by the Project Proponent that there is no court case/ litigation pending against the project.

The Project Proponent mentioned that they had started collection of base line data since December 2015 and requested to monitor the baseline data on winter season i.e. **December 2015 - February 2016**. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the **Committee prescribed the Standard TOR subject to submission of (i) Letter of Intent from State Govt. of Rajasthan in the name of M/s NIRMA Ltd.; and (ii) Letter from SPCB/CPCB mentioning that the Project area does not fall under Critically Polluted Area of District Pali** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography; and (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Impact of all existing mining on the present land use in the study area.

(2.20). Mining of Nathara Ki Pal I-A Soapstone Mine with production capacity 10,855 TPA (ROM) by M/s Nalwaya Mineral Industries Pvt. Ltd., located at Village – Nathara Ki Pal, Tehsil- Sardar, Dist– Udaipur, Rajasthan. (97.13 ha)(Consultant: M/s Udaipur Min-Tech. Pvt. Ltd.)- Consideration of TOR.

The Proposal of M/s Nalwaya Mineral Industries Pvt. Ltd. is for Mining of Nathara Ki Pal I-A Soapstone Mine with production capacity 10,855 TPA (ROM) in the ML Area of 97.13ha. The mine lease area is located at Village Nathara Ki Pal, Tehsil- Sardar, District- Udaipur (Rajasthan). The Latitude and longitude of the mine lease area are 24°13'54" to N 24°14'34"N and 73°46'16" to E 73°47' 12"E respectively on Topo Sheet no. 45 H/16.

The total mine lease area is of 97.13 ha. Out of which Govt. waste land is 95.78 ha and Agriculture Land is 1.35 ha. Originally the lease was granted over an area of 97.13 ha for a period of 20 years w.e.f. 01.09.1959. The mining lease was renewed for a period of 20 years from 01.09.1979 to 31.08.1999, vide Govt. order No. F-5(38) Khan/Group-3/79 dated 08.06.1979. The Lessee Shri Ranjeet lal Nalwaya expired on 29.06.1992. The Mining lease was mutated by the State Government in the name of M/s Nalwaya Mineral Industries Pvt. Ltd. by an order

no.P-5137 /Khan/Gr-2/93 dated 20.01.1994.

The mining will be done opencast manually with drilling and blasting with the use of drill machines, and truck for loading and transportation of overburden and soapstone. The total water requirement will be 4KLD (1.0 KLD for drinking, 2 KLD for suppression and 1.0 KLD for Plantation). Water will be available from nearby villages. Project Proponent reported that there is no National Park, Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary).

The cost of the project is Rs. 20.00 Lakhs the capital cost of EMP will be Rs. 12 lacs and amount earmarked for social fund is Rs. 1.5 lakhs for plan period. It was reported by the Project Proponent that there is no court case/ litigation pending against the project.

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

(2.21). Mining of Kakrolia Soapstone and China Clay Mine with production capacity 11,175 TPA (ROM) by M/s Golcha Minerals Private Limited, located at Village: Kakrolia, Tehsil: Kotri, District- Bhilwara, Rajasthan, (232.5ha) (Consultant: Udaipur Min-Tech Pvt. Ltd., Udaipur) – Consideration of TOR.

The Proposal of M/s Golcha Minerals Pvt. Ltd. is for Soapstone and China Clay mining with production capacity 11,175 TPA (ROM) in the MLA of 232.5ha. The mine lease area is located at Village Kankrolia, Tehsil- Kotri, District- Bhilwara, Rajasthan. The Latitude and longitude of the mine lease area are 25°24'22" to 25°23'15"N and 75°00'58" to 75°02'18"E respectively on Topo Sheet no. 45 O/03.

The total mine lease area is of 232.5ha. Out of which Govt. waste land is 122.45ha, Agriculture Land is 67.33ha and grazing land 42.72ha. The mining lease area was sanctioned for soap stone and china clay by Rajasthan State Government Vide Order No-Pa-9 (Khan)/Group/-2/84 date 25.04.1984, for an area of 232 ha from 06.06.1990 to 05.06.2010 in favor of Sh. Ganpat Lal Surya. The lease area transferred to present lessee M/s Golchal Minerals Pvt. Ltd. by Rajasthan State Government Vide order No- DMG/BHL/CC III P-1(1) 10/83/3020 date 29-09-2010.

The mining will be done opencast mechanized with drilling and blasting method with the use of drill machines, truck for loading and transportation of overburden and soapstone. The total water requirement will be 7KLD (2.5 KLD for drinking, 3 KLD for suppression and 1.5 KLD for Plantation). Water will be available from nearby villages. About 37 tons of soapstone would be required to be moved daily. Project Proponent is reported that there is no National Park, Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). All the parameters for water and air quality are within permissible limits.

The cost of the project is Rs. 53.00 Lakhs .the capital cost of EMP will be Rs. 8.00 lacs and amount earmarked for social fund is Rs. 5.00 lacs for plan period.It was reported by the Project Proponent that there is no court case/ litigation pending against the project.

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

(2.22). Mining of Umrangshu Limestone with production capacity 1.5 Million TPA (ROM) by M/s Assam Mineral Development Corp, Ltd., located at Village Panchayat – Umrangshu, Tehsil- Umrangshu, Dist – Dima Hasao (N.C. Hills), Assam (200 ha)(Consultant: Udaipur Min Tech Pvt. Ltd., Udaipur)– Consideration of TOR.

The Proposal of M/s Assam Mineral Development Corp. Ltd. is for Limestone mining with production capacity 1.5 Million TPA (ROM) in the MLA of 200 ha. The mine is located at River – Kopili River, Amreng nalla, Langyen Nadi, Village Panchayat – Umrangshu Zila parishad – Dima Hasao (N.C.Hills) Assam. The Latitude and longitude of the mine lease area are 92°46'17.79" to 92°46'58.74"E and 25°31'26.61" to 25°32'23.50"N respectively on Topo Sheet no. 83 C/14.

The total mine lease area is of 200.0 ha. This is classified as Govt. waste land. LOI has been granted in favor of M/s Assam Mineral Development Corp. Ltd. latter no- AMDC/P.235/2009/1534 on dated 17.11.2009.The mining will be done opencast mechanized with drilling and blasting method with the use of drill machines, excavators and dumpers for loading and transportation of overburden and limestone. The total water requirement will be 17.0 KLD (2.0 KLD for drinking, 10.0 KLD for suppression and 5.0 KLD for Plantation). Water will be available from nearby villages. About 5000 tons of limestone would be required to be moved daily. 18 dumpers will be able to move this material.

Project Proponent is reported that there is no National Park, Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). The cost of the project is Rs. 625.00 Lakhs .the capital cost of EMP will be Rs. 7.00 lacs and amount earmarked for social fund is Rs. 5.00 lacs for plan period. It was reported by the Project Proponent that there is no court case/ litigation pending against the project.

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

AMENDMENTS IN TOR

(2.23). Mining of River Bed Material (Minor Mineral) by M/s Dhyan Singh S/o Shri Harpal Singh with proposed production capacity of 5,91,018.75 TPA (ROM), located at Village Pandorei, Tehsil Kathua, District Kathua, Jammu & Kashmir(36.0 ha)(Consultant: ENVIRTA)- Amendment in TOR

The Ministry has prescribed TOR on 11.06.2015 to M/s Dhyan Singh S/o Shri Harpal Singh for Mining of River Bed Material (Minor Mineral) with proposed capacity of 5,91,018.75 TPA (ROM) in the mine lease area of 36.0ha. The MLA is located at Pandorei, Tehsil Kathua, District Kathua, Jammu & Kashmir.

The Project Proponent requested to amend the TOR with respect to wrong address which is provided herein below:

M/s Springway mining Pvt. Ltd.
A-301, Rajanigandha, Green Garden Estate,
Near S.P. Office, Gwalior-474011
Madhya Pradesh

The Correct Proponent address is:

M/s Dhyan Singh
S/o Shri Harpal Singh,
R/o Village Bhallesar,
R.S. Pura, District Jammu & Kashmir

Based on the information furnished, the Committee noted that it is a typographical error and **recommended** the amendments of address from "M/s Springway mining Pvt. Ltd., A-301, Rajanigandha, Green Garden Estate, Near S.P. Office, Gwalior -474011, Madhya Pradesh" to "**M/s Dhyan Singh S/o Shri Harpal Singh, R/o Village Bhallesar, R.S. Pura, District Jammu & Kashmir**" respectively.

(2.24). Ahirgaon Limestone Mine with production capacity of 3.75 million TPA by M/s Talavadi Cements Ltd., located at Village(s): Bhumkahar, Ahirgaon, Bachwai, Karhi Kothar, Gaura, Rampur Chaurasi, Bhad, Sagma and Majhgawan Tehsil – Raghuraj Nagar, District–Satna, State- Madhya Pradesh(MLA 2130.015ha)-Extension of validity of ToR.

The Ministry has prescribed TOR on 29.01.2014 to M/s Talavadi Cements Ltd. for Ahirgaon Limestone Mine with production capacity of 3.75 million TPA, located at Village(s): Bhumkahar, Ahirgaon, Bachwai, Karhi Kothar, Gaura, Rampur Chaurasi, Bhad, Sagma and Majhgawan Tehsil – Raghuraj Nagar, District–Satna, State- Madhya Pradesh.

The PP, vide letter dated 13.10.2015 requested the extension of validity of TOR, as the submission of final EIA report was delayed due to delay in conducting the Public Hearing.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for one year i.e. **from 29.01.2016 to 28.01.2017.**

Day 2: 22nd DECEMBER, 2015 (TUESDAY)

(2.25). J-11015/198/2015-IA-II (M) Barauli Unit-3 Sand Mine of M/s Sangam Infra Estate Pvt. Ltd located at Village – Barauli & Basaudi, District-Sonapat, State-Haryana (Area: 62.25 ha, Capacity: 25.40 Lakhs TPA)

The proposal of M/s Sangam Infra Estate Pvt. Ltd is for mining of Sand (Minor Mineral) in "Barauli-3 Sand Unit" with proposed production capacity of 25,40,000 TPA (ROM) in the mine lease area of 62.25 ha. The mine lease area lies on Yamuna River & its Palaeochannel. The Latitudes and Longitudes of the mine lease area lies between Barauli- 3 River bed Block 29°1'13.55"N to 29°0'54.02"N and 77°10'18.52"E to 77°11'8.32"E & Basaudi- Outside River Bed Block 29°0'40.63"N to 29°0'27.42"N and 77°9'20.77"E to 77°09' 8.25"E on Survey of India Topo sheet numbers H43R4 (SITE), 53H11. The Project is located in Seismic zone- III.

The proposal for TOR was considered by the Expert Appraisal Committee in its 35th meeting held during 24th-26th June, 2015 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MOEF vide letter no.J-11015/198/2015-IA-II (M) dated 4th August, 2015. The lease area on the river bed is 52.25 ha and on the paleochannel is 10.00 ha and proposed production is 24, 00,000 TPA and 1,40,000 TPA respectively.

It was informed by PP that no forest land is involved, the Letter of Intent (LOI) for grant of mining lease for minor mineral Sand over an area of 62.25ha has been granted from State Mining Engineer, Govt. of Haryana vide letter dated

02.01.2015 for the period of 10 years to M/s Sangam Infra Estate Pvt. Ltd, village: Barauli & Basaudi, Tehsil & District: Sonipat, Haryana. The mine plan is approved by Mine Plan has been approved by Department of Mines and Geology, Haryana, Chandigarh, Memo No. DMG/HY/M. Plan/SNP/Barauli-3/3956-3959 dated 19-06-2015. The mining is proposed by mechanized opencast method. Manual Mining will be carried out in riverbed part and mechanized mining will be carried out on the off riverbed (paleochannel) part of the lease area. Mining will be done in scientific and systematic manner as planned in a rotational way. Excavation will be carried out up to a maximum depth of 3 meters in riverbed and 9 meters in palaeochannel from surface of deposit and or above the ground water level whichever is reached earlier. Mining will be done leaving sufficient safety barrier of 1/5th of width of the Yamuna River for bank stability. Restoration of banks will be done. Mineral will be transported through road.

The proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries, and Tiger Reserves falls within the study area (10 km radius of the mine boundary). However, Interstate boundary between Haryana and Uttar Pradesh lies within 5 km radius of the lease area therefore the proposal is Category "A" along with its area. The total water requirement is 25.0 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply.

The ground water depth at the project site was found to be 4m to 24.46 m. However, no intersection with ground water will take place. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that frequency of trucks will be deployed 423 per day which increase 3810 PCUs per hour for two highways NH2 and SH11. The level of service (LOS) for SH11 will change from "A" to "B" and for NH-2 it will remain as "A". Project Proponent reported that haul roads will be repaired regularly and maintained in good conditions.

The Baseline studies were carried out during 2015 (March, 2015-May, 2015). All the parameters for air, water, soil & noise quality were reported to be within permissible limits. The public consultation for this project was held at village: Barauli, Tehsil: Sonipat, District: Sonipat, Haryana on 29th September 2015. The Public hearing was presided over by Sh. Shiv Prasad Sharma, Additional Deputy Commissioner District-Sonipat, Haryana. The issues raised during the public hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, transportation, water conservation measures, village development activities and do not harm nearby fields and social development of village. The estimated capital cost of the Project is Rs. 75 Lakhs.

There is no court case against this project, however there is a court case in the matter of Mr. Rajbir Singh v/s State of Haryana and others [CWP No. 27700 of

2013], wherein the petitioner had challenged the conditions of the auction notice and the rules relating to payment of rent and compensation to the land owners. The State Government (Dept. of Mines and Geology) has issued LoI subject to the outcome of this case. The above mentioned case is dismissed by Hon'ble Punjab and Haryana High Court, order dated 19.10.2015. It was informed by the PP that they have not filed any court case against any department neither they are party in this case.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Mineral Sand (Minor Mineral) in the river bed only (52.25 ha) and not in the paleochannel/agricultural land with proposed production capacity of **24 Lakhs TPA (ROM)**. The committee has decided to exclude agriculture land in view of the representations stating that the mining in the paleochannel/agricultural land will result in deterioration of agricultural land, drainage pattern of the area resulting into the ponding effect.

The Committee also **recommended** additional specific conditions viz. (i) Project Proponent shall implement the Disaster Management Plan as the mine lease area is located in Seismic Zone-IV. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) The number of trips of the trucks shall not exceed the estimated quantity of 423 trucks trips per day. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered

trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) Washing of all transport vehicle should be done inside the mining lease; and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.26). J-11015/112/2015-IA.II(M) Mining of Sand (Minor Mineral) in the Mines of "Jainpur-2 Sand Unit" with Production Capacity of 16 Lakh TPA Sand (Minor Mineral) by M/s Yodha Mines and Minerals located at Vill.-Jainpur, Tehsil and District-Sonipat, Haryana (Mine Lease area 44.40 Ha.).

The proposal of M/s Yodha Mines and Minerals is for Sand (Minor Mineral) Mining with annual production capacity 16.0 Lakh Tons of Sand (Minor Mineral) in 44.40 Ha. The mine lease (ML) area lies mainly on the bed of River Yamuna (34.40 Ha) and partly in outside riverbed (10.0 Ha) over an area of 44.40 Ha of District - Sonipat, State - Haryana. The Latitudes and Longitudes of MLA in River bed are North 29°03'56" N, 29°03'56" N, 29°03'24" N and 29°03'24" N and East 77°09'36" E, 77° 09'56" E, 77°09'59" E and 77°09'54" E; in outside river bed are North 29°03'39" N, 29°03'39" N, 29°03'23" N and 29°03'23" N and in East 77°07'35" E, 77°07'40" E, 77°07'40" E and 77°07'32.5" E on Survey of India Topo sheet (OSM) numbers H43R4, H43X1, H43R8. The Project is located in Seismic zone-IV. As per EIA Notification dated 14th September, 2006 this project falls under Category "A" or Activity- 1 (a), due to interstate boundary of Haryana and Uttar Pradesh at a distance of 1.0 Km East.

The proposal was considered by the Expert Appraisal Committee in its 33rd EAC Meeting held during May 15, 2015 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF&CC vide letter No. J-11015/112/2015-IA-II (M) dated 05-06-2015.

The land use of the lease area is Govt. waste land *i.e.* Gair mumkin nadi nallah in riverbed of Yamuna river and Private land in outside riverbed. No forest land is involved. The Letter of Intent (LOI) of mining lease was granted to M/s Yodha Mines and Minerals on 9th March 2015 for 9 years by Director, Department of Mines & Geology, Haryana vide letter No. DMG/Hy/Cont/Jainpur-2/2015/855. The Mining Plan is approved by Director General, Mines and Geology Department, Govt. of Haryana; vide letter no. DMG/Hy/MP/SNP/Jainpur-2/7079 dated 20/07/2015. The proposed production in riverbed is 14.40 lakh TPA and outside river bed is 1.60 lakh TPA.

Proposed method of mining is manual opencast method in riverbed and opencast mechanized outside riverbed. The total water requirement is 19 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by hired tanker. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. No ground water

interception during the mining operations is envisaged as ground water table is 5-10 m bgl in the riverbed and 15-20 m bgl in outside riverbed. The percentage of replenishment in riverbed is 100% every year. The maximum depth of mining in the riverbed will not exceed 3m from the un-mined bed level at any point of time with mining restricted to the central 3/4th width of the river. A safety margin of 2m will be maintained above the ground water table and no mining operation will be permitted below this level.

Project Proponent submitted that mining will be done leaving a safety distance from the banks. Mining will be done only during day time and completely stopped in monsoon season. The site elevation is 215 to 209 m AMSL.

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that frequency of trucks will be deployed 480 per day which increase 180 PCUs per hour for three highways NH1, SH11 and SH57. The level of service (LOS) for NH1 will remain same as "D", for SH11 it will be same as "C" and for SH57 it will change from "B" to "C". Project Proponent reported that haul roads will be repaired regularly and maintained in good conditions. The NH-1 is currently 6-lane Highway and it is proposed to be 8-lane Highway. The expansion (widening of lanes) of highway is going on and will be completed within 3-4 months. Then the scenario of the LOS will be improved positively from D to C.

Project Proponent reported that no National Parks, Wildlife Sanctuaries, Tiger Reserves, eco sensitive Zones falls within study area (10 km radius of the mine boundary). Baseline data has been collected from Pre-Monsoon (March to May 2015) within 10 Km radius of the study area. All the physical parameters *i.e.* air, water noise and soil were within permissible limit. The public hearing for the Proposed Project was conducted on 30.09.2015 at 10:00 am at mine site in village-Jainpur, Tehsil and Distt.- Sonipat, Haryana. The Public hearing was presided over by Sh. Shiv Prasad Sharma, Additional Deputy Commissioner District-Sonipat, Haryana. The issues raised during the public hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, village development activities and do not harm nearby fields and social development of village.

The capital cost of the project is Rs. 14.46 Crores; cost for Environmental Protection is Rs. 18.0 Lakhs; Budget for Occupational Health and Safety is Rs. 10.0 Lakhs. A budget of Rs. 22.0 Lakhs has been proposed for the conservation of wildlife in the area. A budget of Rs. 5.50 Lakhs per annum is earmarked for plantation and its maintenance. For CSR Rs. 20.0 Lakhs/annum will be allocated. The project proponent will deposit 10% of the annual contract money *i.e.* Rs. 87.0 Lakhs to the Mines and Minerals Development, Restoration and Rehabilitation Fund.

There is no court case against this project, however there is a court case in the matter of Mr. Rajbir Singh v/s State of Haryana and others [CWP No. 27700 of

2013], wherein the petitioner had challenged the conditions of the auction notice and the rules relating to payment of rent and compensation to the land owners. The State Government (Dept. of Mines and Geology) has issued LoI subject to the outcome of this case. The above mentioned case is dismissed by Hon'ble Punjab and Haryana High Court, order dated 19.10.2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Mineral Sand (Minor Mineral) in the river bed (34.40) and not in the paleochannel/agricultural land with proposed production capacity of 14.40 **Lakhs TPA (ROM)**. The committee has decided to exclude agriculture land in view of the representations stating that the mining in the paleochannel/agricultural land will result in deterioration of agricultural land, drainage pattern of the area resulting into the ponding effect.

The Committee also **recommended** additional specific conditions viz. (i) Project Proponent shall implement the Disaster Management Plan as the mine lease area is located in Seismic Zone-IV. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) The number of trips of the trucks shall not exceed the estimated quantity of 480 trucks trips per day. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing

centre; (ix) Washing of all transport vehicle should be done inside the mining lease; and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.27). J-11015/446/2013-IA.II (M) Lodhva Mining with production capacity 1.5 million TPA of Limestone by M/s Ambuja Cements Ltd., located at village-Lodhva, Tehsil-Sutrapada, District Gir-Somnath, Gujarat (591.1389 ha)

The proposal is of M/s Ambuja Cements Ltd. for Lodhva Limestone Mining Project (Area: 591.1389 ha) with production capacity of Limestone 1.5 MTPA (new mine). The mine lease is located at Village: Lodhva, Taluka: Sutrapada, District: Gir Somnath (Erstwhile Junagadh) (Gujarat). The Latitudes and Longitudes of the mine lease area lies between 20°48'46"N to 20°50'41"N and 70°34'07"E to 70°35'38"E. The study area falls within the Survey of India Topo sheet No. 41 L/9 (Restricted). The Project is located in Seismic zone-III.

The Proposal was considered by the Expert Appraisal Committee in its meeting held during January 27-28th, 2014 to determine the Terms of Reference (ToR) for undertaking detailed EIA study. TOR was issued by MoEF&CC vide letter no. J-11015/446/2013-IA.II (M) dated 14th March, 2014.

This is a proposed Limestone mining project with production capacity of 1.5 MTPA. Govt. of Gujarat (GoG) issued LOI over an area of 591.1389 ha vide letter no. MCR-1599-3748-CHH dated 20.9.2013. The Mining Plan & Progressive Mine Closure Plan for 591.1389 ha area has been approved by Regional controller of Mines, Indian Bureau of Mines, Udaipur vide their letter no. 682 (23) MP 579/2008 dated 25th September, 2014. Limestone Mining will be done by mechanized open-cast method by deploying eco-friendly Surface Miner and Dozer. Drilling and Blasting is not involved. The limestone produced from the mine will be transported by covered tippers from mine to cement plant at Ambujanagar in Kodinar Taluka.

The mine lease area is 591.1389 ha, out of which 479.9511 ha is private land, 85.4550 ha is Govt Gaucher land and 25.7328 ha is Govt waste land. Gaucher land is presently not planned for mining activity. Utilization of Gaucher land for mining shall be done as per the policy of Government of Gujarat. At the conceptual stage, out of the total mining lease area (i.e. 591.1389 ha), total mined-out area will be 442.7446 ha which will be converted into water bodies. Land procurement is under progress and around 70.7 ha land has been purchased by Ambuja Cements Ltd.

It was reported by the PP that no National Parks/Wildlife Sanctuaries/Biosphere Reserves/Wildlife Corridors/Tiger/Elephant Reserve are located within the 10 km study area of the mine lease. There are two Forests within 10 km radius study area. No forest land is involved in project (mining lease) area. State Forest Dept vide letter no WLP/32/A/1322-23/2015-16 dated 16.10.2015 has confirmed that no forest land is there in the lease area. It was

reported by the PP that project area is located 22 kms from Gir Sanctuary and 24 kms from Gir National Park. The Conservation and Management Plan for Schedule-I species reported from study area has been approved by PCCF, Govt. of Gujarat and necessary fund allocation has been made by the project proponent. The project area is near to the sea coast and is located outside CRZ boundary. The Baseline data was collected for the period March to May, 2014. The analytical results of samples collected for all parameter were found within permissible limits.

The Public Hearing was conducted on 06th June, 2015 at Shree Kanya Shala Maidan (Girls School Compound), Village Lodhva, Taluka-Sutrapada, District-Gir Somnath. The Public Hearing was presided over by Smt K.J. Trivedi, The Additional Collector & Additional District Magistrate, Gir Somnath. The issues raised during Public Hearing were also considered and discussed during the meeting, which inter-alia, included drinking water facility, Water resources Development and Salinity ingress prevention, Medical Assistance, Sanitation Programme, Plantation Programme, Education facility and village infrastructure, skill / vocational training to youth in Lodhva and surrounding villages and providing assistance for employment, Veterinary and agriculture support services, Mining Technology & Conservation & Management of Wildlife species. Total cost of the Project is Rs. 150 crores. Capital Cost for environmental protection measures is Rs. 3 crores- & recurring cost is Rs. 25 Lacs/annum and CSR cost is Rs. 94.58 lacs for five years. It was informed by the PP that there is no court case related to the project.

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

- (i) The detailed action plan on public hearing issues along with the budgetary provisions.
- (ii) A detailed report and action plan on occupational health and public health of the adjoining habitation of the area.
- (iii) The grazing land is part of mine lease area and will practically be unavailable to the cattle once mining will commence. Considering the issues raised by public the alternative grazing land should be provided to the villagers for feeding the cattle.
- (iv) A report on the salinity control in the area along with detailed action plan.

(2.28). J-11015/45/2014-IA.II (M) Proposed 4.0 MTPA Iron Ore Beneficiation Plant at Bacheli Complex, Dist. South Bastar Dantewada & 150 KM Slurry Pipeline System from Bacheli to Nagarnar, Dist. Bastar, Chhattisgarh of National Mineral Development Corporation Ltd. (NMDC)

The proposal of M/s National Mineral Development Corporation Ltd., (NMDC), is for installation of Iron Ore Beneficiation Plant to produce 4 MTPA Iron Ore concentrate (in slurry form) & slurry pipeline of 150 km long and 22 inch dia from Bacheli to Nagarnar to transport ore concentrate in Slurry form. The Beneficiation Plant of 4 MTPA capacity is located in Bacheli Complex, Village – Bacheli, Tehsil – Dantewada,

District – South Bastar Dantewada, Chhattisgarh. The Coordinates of the plant boundary are:

(A) 18°41'14.23"N, 81°14'36.32"E (B) 18°41'31.90"N, 81°14'31.22"E
(C) 18°41'41.07"N, 81°14'41.16"E (D) 18°41'37.50"N, 81°14'50.99"E
(E) 18°41'24.77"N, 81°14'55.22"E (F) 18°41'15.71"N, 81°14'40.76"E

The start point of slurry pipeline is Beneficiation plant at Bacheli and end point is at Nagarnar. The co-ordinates at end point are 19°04'56.02" N and 82°11'20.59" E.

The proposal for TOR was considered by the Expert Appraisal Committee in its meeting held on 21.03.2014 to determine the Terms of Reference (TOR) for undertaking the detailed EIA study. The TOR was issued by MoEF & CC vide letter no.J-11015/45/2014-IA.II (M) dated 05.05.2014.

The Beneficiation Plant of 4 MTPA capacity shall be installed in an area of 33 ha which is forest land in Bacheli Complex, Village – Bacheli, Tehsil – Dantewada, District – South Bastar Dantewada, Chhattisgarh. Forest clearance was obtained for diversion of 33 ha forest land from MoEF & CC, RO, Nagpur vide letter no: FC-II/CH-17/2015-NGP dated 2/11/2015. The online F.C. application for diversion of 109.254 ha forest land falling within slurry pipeline corridor submitted in MOEF & CC portal, which was approved by Nodal Officer, Forest Deptt, Raipur on 16.10.2015 and allotted registration number FG/CG/OTHERS/7694/2014.

The Beneficiation Plant will produce Blast Furnace grade Pellet feed concentrate (iron ore concentrate in slurry form) having chemical composition: Fe>64.5%, Alumina < 1.80, Silica < 3.00%. The concentrate from concentrate thickener of ore processing plant is pumped to agitated slurry tanks. A series of pumps are provided to pump the slurry through pipelines up to Nagarnar. A pressure monitoring station(s) is provided at a pre-determined location(s) to ensure proper pressure is maintained during pumping. Cathodic protection is provided to the pipeline to prevent corrosion.

The NMDC intends to develop Slurry Pipeline transportation system as an alternate mode of transport for transportation of iron ore fines in slurry form. The feed for the proposed ore processing plant shall be available from Deposit-5 and the required slimes are met through de-silting of the tailing dam pond. Slurry pipeline line will be laid underground starting from Beneficiation Plant at Bacheli to the end point at Nagarnar, Tehsil Jagdalpur, District Bastar. The alignment moves along the road crossing Dantewada to join NH-16 near Geedam, moving east along N.H, the route takes a detour to avoid Jagdalpur main city and terminates at the terminal at Nagarnar. The capacity of Slurry Pipeline is designed for carrying 15 MTPA keeping in view of total evacuation requirement of iron ore from Bailadila Sector. GoI has published Gazette Notification on 03.08.2012 to lay slurry pipeline. The evacuation of iron ore concentrate in slurry form shall be accomplished through a slurry pumping & pipeline system consisting of 22 inch Slurry Pipeline & Piston Diaphragm pumps. The pipeline system shall be complete with mainline pipes, external corrosion protection coating, mainline valves, cathodic protection systems (TCP & PCP), insulating joints,

flow tees, LR bends, pigging (scraper launcher & receiver) facilities, telecom & SCADA systems. Pumping facilities shall comprise slurry storage / feed tanks with agitators, pump station building, centrifugal charge pumps, mainline PD pumps, safety (test) loops, instrumentation & control facilities and station piping, valves, etc. The Pipeline will be laid around 1 to 1.5m below ground level.

NMDC will take corridor of land for ROW/ROU to lay slurry pipeline. In this regard, GoI published Gazette Notification under Petroleum and Mineral (Acquisition of land users) Act 1962 on 23.8.12 to lay the slurry pipeline.

There will be following crossings on pipeline route of 150 km: (a) Railway lines – 3 nos. (b) N.H = 5 Nos. (c) S.H. = 5 nos. (d) Bituminous road = 44 nos. (e) Earthen, Gravel & concrete road = 61 nos (f) Major river = 3 nos (g) Nala, Drain and ditch = 61 nos (h) Canal = 5 Nos.

The rivers would be crossed using HDD methods, which would install the pipeline well below the active river bed (below scour depth). As a result, direct disturbance to the river bed, fish, aquatic animals and plants, and river banks would be avoided. The feed for the proposed ore beneficiation plant shall be available from Deposit-5 (3.740 MTPA Iron ore fines) and the required slimes (1.00 MTPA) are met through de-silting of the tailing dam pond. The following are the major steps involved for producing Iron ore concentrate (in slurry form) in the Iron ore Beneficiation Plant.

- Iron ore fines and Dry slimes from Tailing Dam are mixed in a fixed proportion.
- The blended material is subjected to spiral classifier for classification.
- The sand of classifier & de-sliming hydro cyclone U/F shall be fed to primary grinding to achieve -0.5 mm size.
- This ground material is subjected to spirals /Magnetic separator for up gradation of Fe content by reduction of silica and alumina.
- The concentrate obtained is subjected to secondary grinding to achieve the desired product size of 44 microns.
- Ground (-) 0.044 mm product discharge of secondary grinding is fed to concentrate thickener for recovering water from concentrate. This concentrate is pumped to slurry holding tanks for slurry transportation whereas the recovered water is re circulated for process use.
- 0.74 MTPA lean tailing will be generated, which will be impounded in existing Tailing dam-1.
- The extent of lean tailing generation (0.74 MTPA) is envisaged to be less than the slimes (1.0 MTPA) consumed from TD-1. Hence no separate Tailing dam is required for impoundment of lean tailings.
- Lean Tailings generated in the process will be impounded in existing Tailing dams. (Capacity of T.D-1 is 19.37 lakh cu.m).

It was reported by PP that there is no protected area viz Wild Life Sanctuaries / Tiger Reserve / National Park / etc. within 10km of the beneficiation plant area. The proposed slurry pipeline passes through Dantewada and Bastar forest divisions. In Bastar District, about 10km length of pipeline is falling within 10km zone (8.2 Km

apprx. Away) from boundary of Kanger National Park. Application submitted to CCF (Wildlife), Jagdalpur on 9/5/15 for obtaining approval under WLP Act, 1972. (Proposal No. FP/CG/Others/7694/2014).

However, wildlife conservation plan for entire Dantewada Forest Division prepared and got approval of CWLW, Raipur on 05.12.2013 for total financial outlay of Rs.15.50 Cr. The amount deposited with CAMPA A/C on 30.04.2014. The bio-diversity conservation plan prepared for core and buffer zone of iron ore mining projects at Bacheli with financial outlay of Rs. 12.93 Cr.

The Baseline environmental quality data generated during summer season (March to May, 2014). All the parameters for water and soil quality were within permissible limits (Except Nitrate & Hardness at Dantewada in ground water). The ambient air quality was also within permissible limits as there will be no transport involved and the process is wet process and also the feed will be through conveyor.

The Public consultation held at two places, on 29.04.2015 at Geedam for Dantewada district and on 04.07.2015 at Tokapal for Bastar district. Action plan for issues raised by public was submitted by NMDC. The major issues raised during the Public Hearing were tree felling, land use rights, development works in the affected villages, compensation for affected crop land and owners, local employment; air & water quality; what happens if the pipeline explodes etc.

Estimated indicative cost of project is Rs.1,595.00 Cr. The makeup water will be around 656.00 m³/hr and water source will be river Sabari near Tiria. A pipeline will be laid in same trench of proposed slurry pipeline for supplying the water from Nagarnar to Beneficiation plant at Bacheli. The power will be sourced from CSPDCL Grid substation.

The Committee deliberated at length the information submitted by PP and noted that proposal involved the beneficiation and transportation through slurry pipelines. The proposal does not involve the mining component therefore, the committee was of the view that the proposal shall be **referred to the industry EAC** for further consideration as per EIA notification, 2006 as it is a stand-alone beneficiation plant project.

CONSIDERATION OF TOR

(2.29). Kutingpadar Semi Precious Stone of M/s Manikeswari Gems Pvt Ltd Village – Kutingpadar No. 189, Tehsil - Junagarh, District- Kalahandi State - Odisha. IA/OR/MIN/31811/2015(M. L. Area – 14.394 Ha)

The Proposal of M/s Manikeswari Gems (P) Ltd is for Mining of Semi Precious Stone (Iolite) with proposed production capacity of 0.2 MTPA. The ROM excavation will be done for 13367 cubic meters/annum of Cordierite Schist from which 0.2 MTPA Iolite(Semi Precious Stone) will be manually extracted for use in jewelry industry.

The mine is located at Village – Kutingpadar No. 189, Tehsil - Junagarh, District- Kalahandi State – Odisha. It is a Category 'A' project as Karlapat Wildlife sanctuary exist at distance of 1.2 Km from the mine lease area. The Geographical Co-ordinates for the mine site are Latitude- : 19°46'38.6" to 19°46'49.1" North & Longitude- : 83°02'22.1" to 83°02'45.2" East. The mine site falls on Survey of India Topo sheet no.- 65 M-1. The total lease area is 14.394 Ha. The Project Proponent reported that Karlapat wild life sanctuary exist at distance of 1.2 Km from the mine lease area. Bhatrajore reservoir 7.4 Km in NW direction also exist.

The mining lease was granted for 20 years period. Mining lease was awarded to the project proponent by District Magistrate, Kalahandi vide letter dated. 19.12.2011 for mining on 14.394 ha of area. The operation will be opencast other than fully mechanized method. The bench height is proposed 3 meters and width will be 6.0 to 10.0 meter. The haul road is extended upto the working face at gradient of 1 in 16. All operation of mining i.e. excavation, sorting, sizing and loading will be done by manual means. No drilling/blasting is needed.

The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 8.7 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 1 Crore. There is no Court case/ litigation pending against the project.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee decided to **defer** the Proposal and sought the following information/clarifications for further consideration:-

- (i) Revised form-I and PFR indicating the exact mineral in term of ROM to be excavated with a uniform unit.
- (ii) A certificate from CWLW regarding the distance of mine lease from Karlapat Wildlife sanctuary.

(2.30). Semi-Precious Stone (Iolite) Ore of M/s Manikeswari Gems Pvt Ltd Village Bandoguda No. 66, Tehsil Junagarh District Kalahandi Orissa. IA/OR/MIN/31808/2015 (M. L. Area – 52.795 Ha)

The Proposal of M/s Manikeswari Gems (p) Ltd is for Mining of Semi Precious Stone (Iolite) with proposed production capacity of 3.59 MTPA of Iolite. The ROM excavation will be done for 36,237.5 cubic meters/annum of Cordierite Schist from which 3.67 MTPA Iolite (Semi Precious Stone) will be manually extracted for use in jewelry industry.

The mine is located at Village – Bandoguda No. 66, Tehsil - Junagarh, District- Kalahandi State – Odisha. The Geographical Co-ordinates for the mine site are Latitude- : 19° 48' 51" to 19° 49' 30" North & Longitude- : 83° 02' 33" to 83° 02' 57" East. The mine site falls on Survey of India Topo sheet no.- 65 M-1. The Project Lies in seismic zone II. The total lease area is 52.795 Ha. The Project Proponent reported that

Karlapat wild life sanctuary exist at distance of 1.0 Km from the mine lease area. Bhatrajore reservoir 4.4 Km in NW direction also exist.

The Govt. of Orissa, Department of Steel and Mines had issued terms and conditions vide Letter No. 4483/ SM, Bhubaneswar, dated 25.06.2004 proposing to grant the mining lease for Iolite over 59.617 ha for a period of 20 years. The applicant moved to get the permission to surrender 6.822 ha of forest land from the granted area.

The transportation and overburden dumping is proposed by tippers & tractors. The minerals will be collected in its existing form. No impoundment or damming is involved in the project. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 15.1 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 1.5 Crore. There is no Court case/ litigation pending against the project.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee decided to **defer** the Proposal and sought the following information/clarifications for further consideration:-

- (i) Revised form-I and PFR indicating the exact mineral in term of ROM to be excavated with a uniform unit.
- (ii) A certificate from CWLW regarding the distance of mine lease from Karlapat Wildlife sanctuary.

(2.31). J-11015/642/2007-IA.II(M) Bhavanipuram Limestone Mine-3 of M/s Deccan Cements Ltd. located at Village Ravipahad, Naredcheria Mandal, Huzur Taluk, Nalgonda District, State Andhra Pradesh (183.11 ha)

The proposal of M/s Deccan Cements Ltd. is to enhance Limestone production of Bhavanipuram Limestone Mine – 3 from 0.3 to 2.3 MTPA to meet the limestone requirement of Cement Plant due to exhaust of reserves at Bhavanipuram Limestone Mine – 2.

Bhavanipuram limestone mine – 3 falls between 16°42'27.00" N - 16°43'17.00" N Latitude and 79°42'37.00" E - 79°44'13.00" E Longitude, which is spread over an area of 183.11 Ha. with about proved mineral reserves of 80.62 Million Tonnes which will last for 35 years with proposed production capacity of 2.3 MTPA.

Fully Mechanized method of mining will be adopted. The benches are 6 m height. The limestone produced from the mine will be transported from the mines to the crusher inside the plant by dumpers. The mine lease is part of Saidulnama Reserved Forest (Compartment No. 26 & 27). Forest Clearance was obtained vide letter No. Rc.No.31015/2007/F2, dated 13.08.2013. It was reported by the PP that no National Parks/Wildlife Sanctuaries/Biosphere Reserves/Wildlife

Corridors/Tiger/Elephant Reserve are located within the 10 km study area of the mine lease. No top soil or waste is envisaged from the mine. The soil as and when generated from the mining will be used for greenbelt development. The water requirement for the mine at 2.3 MTPA limestone production is about 120 m³/day for dust suppression, plantation and domestic purposes. This requirement will be sourced from River Krishna. The capital Investment Cost is estimated as Rs 2.0 crores.

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

(2.32). River Bed Mining project of minor mineral (Sand, Bajri and Stone) of M/s Ramsons located at Near Village – Manpura , Tehsil – Nalagarh Distt – Solan, Himachal Pradesh. (20.0861 ha; 33,750 Tons/ Annum) IA/HP/MIN/31468/2015.

The Proposal of **M/s Ramsons Partner- Shri Naveen Goyal**, is for Minor mineral (Sand, Bajri & Stone) mining with production capacity 33,750 Tons/ Annum (ROM) in the MLA of 20.0861 ha. The mine is located at River – Sirsa (Village & P.O- Mauza Manpura & Chanal Majra, & Tehsil-Nalagrah, District –Solan (HP). The Latitude and longitude of the mine lease area are N 30°59'05" to N 30°58'55" and E76°44'55" to E76°45' 15" respectively on Topo Sheet no. 53 B/13. The proposal was considered as Category 'A' project as interstate boundary of Punjab and Himachal Pradesh is at a distance of 4 km from mine lease boundary.

The total mine lease area is of 20.0861 ha. This is classified as Govt. waste land. The mining lease deed was executed for Sand, Bajri and Stone by Himachal Pradesh Government vide registration No. 354/2007 dated 28-2-2007, for an area of 20.0861 hectare from 20-12-2006 to 19-12-2011 in favor of M/S Ramsons.

The mining shall be done manually. No mining machinery shall be deployed. Material will be replenished each year during the Monsoon. The total water requirement will be 3.0KLD. It was reported by the PP that no national park, wildlife sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). The cost of the project is Rs. 53.00Lakhs.

The PP submitted the proof of court case which has been filed by State Board against River Bed Mining Projects including that of PP in the court of Ld. Chief Judicial Magistrate, Nalagarh, District Solan, H.P. Having lease area more than 5 hectare as per the violation of Environment (Protection) Act 1986 and EIA notification, 2006 without obtaining the mandatory Environment clearance. The mining has been suspended since November, 2011 a letter dated 10.12.2015 from the mining Officer, Solan to this effect was also submitted.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee decided to **defer** the Proposal and sought the following information/clarifications for further consideration:-

- (i) Board resolution/affidavit by the PP that no such violation shall be repeated in the future.
- (ii) Valid LOI or lease document.

(2.33). River Bed Mining Project of Minor Minerals (Sand, Stone & Bajari) of M/s Shri Harbhajan Singh located at Mauza Kishanpura, Tehsil-Nalagarh, Dist. Solan, Himachal Pradesh. (40.00 ha; 52,920 tons/ annum) IA/HP/MIN/31532/2015.

The Proposal of Shri Harbhajan Singh S/o Sh. Lajja Ram, is for Sand, Bajri & Stone (Minor Minerals) mining with production enhancement up to 52,920 Tons/Annum (ROM) in the MLA of 40.00ha. The mine is located at River – Sirsa (Village & P.O- Mauza Kishanpura, & Tehsil-Nalagrah, District –Solan (HP). The Latitude and longitude of the mine lease area are 76° 43' 29' ' - 76° 43' 54' 'N&30° 59' 32' ' - 30° 58' 54' 'E respectively on Topo Sheet no. 53 B/13. The proposal was considered as Category 'A' project as interstate boundary of Punjab and Himachal Pradesh is at a distance of 2.1 km from mine lease boundary.

The total mine lease area is of 40.0 ha which is classified as Govt. waste land. The mining shall be done manually. No mining machinery shall be deployed. Material will be replenished each year during the Monsoon. The total water requirement will be 6.0KLD (1.0KLD for drinking, 4.0 KLD for suppression and 1.0 KLD for Plantation). Water will be available from nearby villages. The loaded tractor trolleys / tipper trucks would carry the material to the crusher site, About 176 tons of stone and Bajri would be required to be moved daily. Five-Six dumpers will be able to move this material. There will not be much increase in traffic at any particular place. The area is capable of handling the incremental load. A supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project proponent reported that no national park, wildlife sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). The cost of the project is Rs. 28.00Lakhs. The capital cost of EMP will be Rs. 15.0Lac and amount earmarked for social fund is Rs. 3.0Lac for plan period.

The PP submitted the proof of court case which has been filed by State Board against River Bed Mining Projects including that of PP in the court of Ld. Chief Judicial Magistrate, Nalagarh, District Solan, H.P. Having lease area more than 5 hectare as per the violation of Environment (Protection) Act 1986 and EIA notification, 2006 without obtaining the mandatory Environment clearance. The mining has been suspended since November, 2011 a letter dated 19.12.2015 from the mining Officer to this effect was also submitted.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee decided to **defer** the Proposal and sought the following information/clarifications for further consideration:-

- (i) Board resolution/affidavit by the PP that no such violation shall be repeated in the future.
- (ii) Valid LOI or lease document.

(2.34). Limestone mine of M/s Lok Cements Ltd located at Chinnadandlur and Kallamalla Villages, Yerraguntla Mandal Y S R Kadapa District, Andhra Pradesh State IA/AP/MIN/31539/2015

The proposal of **M/s Lok Cements Ltd.** is for Limestone production of 3 MTPA over the mine lease area of 575 ha. The **M/s Lok Cements Ltd** was granted new Mining Lease over an area of 575 Ha falls under Jurisdiction of Chinnadandlur and Kallamalla Villages, Y S R Kadapa District, Andhra Pradesh. The Limestone Mine falls between $78^{\circ} 28' 15''$ to $78^{\circ} 29' 45''$ East longitude and $14^{\circ} 40' 25''$ to $14^{\circ} 43' 35''$ North latitude which is spread over an area of 575 Ha. with about proved mineral reserves of 90 Million Tonnes which will last for 30 years with proposed production capacity of 3.0 MTPA.

The Fully Mechanized method of mining will be adopted. The benches are 10 m height. The limestone produced from the mine transported from the mines to the crusher inside the plant by dumpers of 25 t capacity. The top soil generated will be used for afforestation development along the lease periphery. It was reported by the PP that no national park, wildlife sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary).

The water requirement for the mine at 3.0 MTPA limestone production is about 200 m³/day for dust suppression, plantation and domestic purposes. This requirement will be supplied by existing pits of other captive Mine-I initially and after formation of the mine pit, rain water collected in the mine pit will be used. The capital Investment Cost is estimated as Rs 25 crores.

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

(2.35). Mining of Colour Granite, with proposed production capacity of 10,800 Cum/Year M/s Rajyog Minerals Pvt. Limited in Un-surveyed Hill of Surjani Village, Meliaputti Mandal, Srikakulam District, Andhra Pradesh (10.0 ha) IA/AP/MIN/31328/2015

The Mine Lease area is located in Un-surveyed Hill of Surjani Village, Meliaputti Mandal, Srikakulam District, Andhra Pradesh. The Mine Lease area is between North Latitude $18^{\circ} 47' 28.95''$ to $18^{\circ} 47' 48.89''$ and East Longitude $84^{\circ} 13' 20.69''$ to $83^{\circ} 13' 36.26''$. It is 'A' category project as the site is located within 10 Km radius i.e. 0.3 km of Andhra Pradesh and Orissa interstate boundary is located from the ML area.

The proposed project will be worked out by Semi Mechanized Opencast quarrying by using jack hammer drilling & cutting by Wire Saw & blasting by low

explosives if required. The waste will be handled by excavators & tippers/dumpers. Loading is by cranes. Proposed production colour granite with a capacity of 10,800 Cum/Year. It is reported by the proponent that during the extraction of colour granite around 43,200 Cum/Year of waste rock will be generated. Some part of the material from the waste may be sorted out and used for making small blocks known as khandas' to be used by the local unit for making tiles. Some rejected and unsorted material may be used in the civil engineering projects in the vicinity of the area. The waste material can also be crushed into smaller sizes and can be used as road metal. About 12 KLD of water will be required and source is Bore well. It is reported by the project proponent that there is no court case / litigation is pending against the project and no national park, wildlife sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). The estimated cost of the Project is 75 lakhs.

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

(2.36). Colour Granite Quarry of M/s.Rajyog International Pvt.Ltd. located at Surjani Village, Meliaputti Mandal, Srikakulam District, Andhra Pradesh State (16,200 Cum/Year; 20.50 Ha) IA/AP/MIN/31349/2015

The Mine Lease area is located in Un-surveyed Hill of Surjani Village, Meliaputti Mandal, Srikakulam District, Andhra Pradesh. The Mine Lease area is between North Latitude 18°47'13.49" to 18°47'29.46" and East Longitude 84°13'32.82" to 83°13'53.29". It is 'A' category project as the site is located within 10 Km radius i.e. 0.5 km of Andhra Pradesh and Orissa interstate boundary is located from the ML area.

The proposed project will be worked out by Semi Mechanized Opencast quarrying by using jack hammer drilling & cutting by Wire Saw & blasting by low explosives if required. The waste will be handled by excavators & tippers/dumpers. Loading is by cranes. Proposed production colour granite with a capacity of 16,200 Cum/Year. It is reported by the proponent that during the extraction of colour granite around 64,800 Cum/Year of waste rock will be generated. Some part of the material from the waste may be sorted out and used for making small blocks known as khandas' to be used by the local unit for making tiles. Some rejected and unsorted material may be used in the civil engineering projects in the vicinity of the area. The waste material can also be crushed into smaller sizes and can be used as road metal. About 14 KLD of water will be required and source is Bore well. It is reported by the project proponent that there is no court case / litigation is pending against the project and no national park, wildlife sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). The estimated cost of the Project is 100 lakhs.

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

(2.37). Peta Decorative Stone of M/s CH. Venugopal located at village Peta no. 47, Tehsil: Motu, District: Malkanagiri, Odisha. IA/OR/MIN/32050/2015

Peta Decorative Stone Deposit proposed by Sri Ch. Venugopal for Mining of Decorative Stone of Village- Peta - 47, Thana-Motu, Dist.-Malkanagiri State-Odisha. The proposed production capacity of Decorative Stone will be 60,488 cum/Year in the mine lease area of 19.425 ha. It is category A project as interstate boundary of Odisha and Chhattisgarh lies at a distance of 0.5 km W.

The mining Lease is located on Village- Peta - 47, Thana-Motu, Dist.-Malkanagiri State-Odisha. The Mine Lease area is between North Latitude 17°55'43.17" to 17°55'58.76" and East Longitude 81°27'10.75" to 81°27'33.64".The application for Lease has been granted over an area of 19.425 ha in favor of Sri Ch. Venugopal, vide letter no 8228 IV(DS)SM-44/2011/SM.BHUBANESWAR dated 28.08.2015 for period of 20 years.

The project is proposed to carry out through opencast Semi-mechanized mining (OTFM) during this plan period. The mine lease area falls on Survey of India Topo sheet no. E 44P 5 (65G/5). The Project is located in Seismic Zone-II. The lease area is 19.425 ha which is classified as Govt. land. Extraction of Decorative Stone will be done only during the day time. Mineral will be transported by trucks/dumpers. The PP requested for consideration of the Monitoring data period of December 2015 to February 2016 for the preparation of EIA report. The EAC agreed to the request of the PP.

The total water requirement is 14.4 KLD for drinking, dust suppression & Green Belt development, which will be made available through private tankers. The capital cost of the proposed project will be approx. Rs. 70 Lakh. It is reported by the project proponent that there is no court case / litigation is pending against the project and no national park, wildlife sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary).

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

(2.38). River bed Mining (Stone, Sand and bajri) of M/s Him Stone Crusher located at Mauza/ Mohal Joh Beh, Tehsil Amb, District Una (Himachal Pradesh) IA/HP/MIN/31612/2015

The proposal is river bed Sand, Stone and Bajri mining with the total capacity for a period of five years is 4,70,250 MT by M/s Him Stone Crusher located Joh Khad at Mauza/ Mohal Joh Beh, Tehsil Amb, District Una (HP) in an area of 14-61-59 Ha for a period of five years. The Longitude and Latitude of the proposed site is Longitude : 75° 59' 30" E to 76° 00' 50" E and :31° 49' 00"N to 31° 00' 50" N.It was reported by the PP that there is Panjal R.F. 4.5 Km East, Lohara R.F. 6Km SE, Chalan P.F. 7Km N and no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors,

Tiger/Elephant Reserves within 10 km radius of the mine site. The capital cost of project is 5.5 lacs and recurring cost is 1.0 lacs.

The Form -I and PFR of the project was not filled appropriately and it was noted that there are various discrepancies related to categorization of project, which were not clarified by the PP. Therefore, the Committee decided to **defer** the Proposal and sought the following information/clarifications for further consideration:-

- (i) Revised form-I and PFR dully filled and justifying the categorization of the Project.

(2.39). Thimmapuram Quartz Mine of M/s Ferro Alloys Corporation Ltd. located at Thimmapuram Village, Padmanabham Mandal, Visakhapatnam District, Andhra Pradesh. IA/AP/MIN/31698/2015

The Mine Lease area is located at Thimmapuram Village, Padmanabham Mandal, Visakhapatnam District, Andhra Pradesh. The proposed production capacity of 9000 tonnes of ore will be produced in yearly average basis. The area of the Mining Lease is 50.75 ha in Plot No: 29, of Thimmapuram Village. The entire lease area is occupied by hilly Porumboke (barren land) of Government of Andhra Pradesh. The Mine Lease area is at Latitude in 17° 16' 30" E and Longitude in 83° 59' 50" N.

The Quartz Mining will be carried out by opencast method over an extent of 50.75 Hectares spread over in Survey Nos. 29. The Mining lease deed was executed on 19-03-2008, vide Asst. Director of Mines & Geology, Visakhapatnam, vide proceedings No. 843/M/2002 dated 19-03-2002 and Sanction was accorded to carry out the mining operations with effect from 19-03-2002 and it is in force from 09-02-1999 to 08-02-2019.

The area is mainly used for mining of Quartz. The Quartz is exposed on the top portion of the hill. Shrubs and thorny bushes are completely occupying the remaining area. The Fresh water requirement for proposed mining activity will be 3.0 KLD for Domestic purpose and Waste water 2.0 KLD Domestic. There will be no discharge of waste water from this mine. It was reported by the PP that there is no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves within 10 km radius of the mine site. 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 90 lakhs.

It was noted that it is a **violation case** as production was enhanced after 1994 without obtaining EC. The Committee decided to **defer** the Proposal and sought the following information/clarifications for further consideration:-

- (i) Revised form-I and PFR dully filled.
- (ii) The medical records of the workers working in the mine and measures take for occupational health of the workers.

(2.40). Kuppli - Bontalkoduru Mineral Sands of M/s. Andhra Pradesh Mineral Development Corporation Limited located at Kuppilli, Koyyam, Dharmavaram, Bonthalakoduru villages, Etcherla - mandal, Srikakulam - District, Andhra Pradesh – State. (1049.60 Ha) IA/AP/MIN/32472/2015

It was informed by the PP that they want to withdraw the proposal. The Committee agreed to the request made by the PP.

(2.41). Kuppli-Koyyam-Dharmaram Mineral Sands of M/s Andhra Pradesh Mineral Development Corporation Limited located at Kuppilli, Koyyam, Dharmavaram, Bonthalakoduru villages, Etcherla - Mandal, Srikakulam - District, Andhra Pradesh – State. (1000.00 Ha) IA/AP/MIN/32484/2015

It was informed by the PP that they want to withdraw the proposal. The Committee agreed to the request made by the PP.

(2.42). Ramachandrapuram - Jirupalem Mineral Sands of M/s Andhra Pradesh Mineral Development Corporation Limited located at Ramachandrapuram, Tekkali, Narayana Gajapati Raju puram, Kollibhimavaram, Kotchcheral, Mentada, Kotapalem and Jirupalem villages Ranastalam - Mandal, Srikakulam - District, Andhra Pradesh – State. (1284.0 Ha) IA/AP/MIN/32491/2015

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

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

The mining will be carried out by dredging/open cast mechanized mining method & refilling will be done concurrently, wherein Run-of-Mine is mined with advance environmental friendly technology. The tailings generated from pre-concentration plant will be backfilled and afforestation on reclaimed land shall be done simultaneously thus limiting the gap between mining and rehabilitation to pre-mining state to only a few months. Another unique feature of the above method is that water used for transportation of concentrate and same is re-circulated.

About 6 MW of power is required for the proposed sand mining operations and Pre-Concentration Plant. Solid waste to be generated is free silica sand tailings from the pre concentration plant. These waste materials will be used for refilling and reclaiming the mined out lands. No liquid waste will be generated from the mining operations. Water requirement is 500 m³/hr which will be sourced from Pedda Gadda River.

It was reported by the PP that National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves within 10 km radius of the mine site. The PF and RF in the study area are: Kotapalem PF Within KL area, Kuppili PF within ML area, Dharmavaram PF 3.2Km, NE and Srikakulam RF 16.6 km NE. 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 200Crores.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee prescribed the **Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. The Committee also prescribed additional TOR: (i) A report on the production details of all the minerals and there utilization as per requirement in the country.

(2.43). Kuppli-Bontalkoduru Mineral Sands of M/s Andhra Pradesh Mineral Development Corporation Limited located at Kuppilli, Koyyam, Dharmavaram, Bonthalakoduru villages, Etcherla - Mandal, Srikakulam - District, Andhra Pradesh – State. (1000.00 Ha) IA/AP/MIN/32587/2015

The proposed Mining Lease area is located in the jurisdiction of villages Kuppilli, Koyyam, Dharmavaram, Bonthalakoduru, Etcherla Mandal of Srikakulam district, Andhra Pradesh Latitude: 18°09'20.91" to 18°09'44.14" & 18°12'33.03' to 18°13'03.26" and 83°05'64.47' to 83°55'43.03" & 83°48'33.64" to 83°48'07.76". The lease area is approachable from Srikakulam and at a distance of 20 km. The Project involves Production of Heavy Mineral Sand Mine, ROM of 4.0 MTPA and production of Heavy mineral concentrate. The mining lease area forms part of a barren sandy stretch with an elevation of 1-20 m above the mean sea level.

The Project involves mining of beach sand and separation of heavy minerals (Garnet, Sillimanite, Ilmenite, Leucosene, and minor amount of Rutile Zircon and Monazite) and set-up an export-oriented and value added mining unit. The proposed AML area involves forest land of 742.12ha and 4 villages are existing in the ML area. However, Mining operations shall exclude the human habitation in the village area by providing safe zone around the villages and roads.

The mining will be carried out by dredging/open cast mechanized mining method & refilling will be done concurrently, wherein Run-of-Mine is mined with advance environmental friendly technology. The tailings generated from pre-concentration plant will be backfilled and afforestation on reclaimed land shall be done simultaneously thus limiting the gap between mining and rehabilitation to pre-mining

state to only a few months. Another unique feature of the above method is that water used for transportation of concentrate and same is re-circulated.

About 6 MW of power is required for the proposed sand mining operations and Pre-Concentration Plant Solid waste to be generated is free silica sand tailings from the pre concentration plant. These waste materials will be used for refilling and reclaiming the mined out lands. No liquid waste will be generated from the mining operations.

It was reported by the PP that National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves within 10 km radius of the mine site. The PF and RF in the study area are: Kotapalem PF 5km, SW, Kuppili PF within ML area, Dharmavaram PF within ML area and Srikakulam RF 11.6 km NE. 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 200 Crores.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee prescribed the **Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. The Committee also prescribed additional TOR: (i) A report on the production details of all the minerals and their utilization as per requirement in the country.

(2.44). Kuppli-Koyyam-Dharmaram Mineral Sands Deposit of M/s Andhra Pradesh Mineral Development Corporation Limited located at Kuppilli, Koyyam, Dharmavaram, Bonthalakoduru villages, Etcherla - Mandal, Srikakulam -District, Andhra Pradesh - State. (1000.00 Ha) IA/AP/MIN/32589/2015

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

The Project involved mining of beach sand and separation of heavy minerals (Garnet, Sillimanite, Ilmenite, Leucoxene, and minor amount of Rutile Zircon and Monazite) and set-up an export-oriented and value added mining unit. The mining will be carried out by dredging/open cast mechanized mining method & refilling will be done concurrently, wherein Run-of-Mine is mined with advanced environmental friendly technology. The tailings generated from pre-concentration plant will be backfilled and afforestation on reclaimed land shall be done simultaneously thus limiting the gap between mining and rehabilitation to pre-mining state to only a few months. Another unique feature of the above method is that water used for transportation of concentrate and same is re-circulated. About 6 MW of power is

required for the proposed sand mining operations, Pre-Concentration Plant and Mineral Separation Plant.

Solid waste generated is free silica sand tailings from the pre concentration plant. These waste materials will be used for refilling and reclaiming the mined out lands. No liquid waste will be generated from the mining operations. No forest land is involved and 4 villages are existing in the ML area. However, Mining operations shall exclude the human habitation in the village area by providing safe zone around the villages and roads.

It was reported by the PP that National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves within 10 km radius of the mine site. 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 600Crores.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee prescribed the **Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. The Committee also prescribed additional TOR: (i) A report on the production details of all the minerals and there utilization as per requirement in the country.

(2.45). Taranhalli Limestone of M/s Jaypee Cement Corporation Limited located at Villages- Taranhalli and Shahabad Tehsil- Chittapur, Distt.- Gulbarga (Kalaburagi), State- Karnataka IA/KA/MIN/32043/2015

Jaypee Cement Corporation Ltd (JCCL), formerly Zawar Cement Pvt. Ltd. (ZCPL), Gulbarga has proposed the production of 7.00 MTPA of limestone. The mining lease area lies between Latitude: 17° 07' 27.74" to 17° 10' 10.81" N and Longitude: 76° 53' 00.48" to 76° 55' 27.88" E respectively. The mining lease area falls in Survey of India (SOI) Topo sheet no. 56C/16.

Taranhalli Mining Lease is a captive mine to fulfill the limestone requirement of proposed cement plant being setup by Jaypee Cement Corporation Ltd (JCCL). The requirement of limestone is about 7.00 MTPA, to manufacture 4.60 MTPA Clinker and 6.0 MTPA Cement. The proposed limestone mine of 631.311 ha is entirely private land (Agriculture) located at Taranhalli and Shahabad Village, Tehsil Chittapur District Gulbarga (Kalaburagi), Karnataka.

The nearest railways station is Shahabad at about 2.5 Km, SE and nearest Airport- Hyderabad is about 240 km, E. The mining is fully mechanized opencast method mine. The water requirement for proposed mining activity will be 125 KLD. There is no archeologically important place, protected areas as per Wildlife Protection Act, 1972 (Tiger reserve, Elephant reserve, Wildlife Sanctuaries & National Park etc.) within 10 km radius of the mine lease. 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 30 Crores.

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

(2.46). Capacity expansion of Bailadila Iron Ore Project, Deposit no: 14/11C from 12 to 20 MTPA of M/s. NMDC Limited at Kirandul, South Bastar Dantewada District, Chhattisgarh. IA/CG/MIN/32238/2015

The proposal is Bailadila Iron Ore Project Deposit 14/11C of M/s. NMDC Limited is an existing iron ore with proposed production to enhance iron ore production capacity from 12.0 to 20.0 MTPA to meet the demand of iron ore. The Mining Lease area is located in the Kirandul village, South Bastar Dantewada District of Chhattisgarh. The Latitude and Longitude of the proposed site is Deposit-14 M.L. area: 18° 36'11.2022" to 18°37'34.6006" N and 81°13'15.9460" to 81°14'44.6788" E. The deposit-14 NMZ area: 18°36'44.0492" to 18°38'31.8650" N to 81°13'54.6335" to 81°15'24.1185" E and deposit-11C Part area: 18° 38'21.2316" N & 81°13'52.4290" E to 18°38'36.6175" N & 81°14'23.5780" E.

The mining lease area falls in Survey of India (SOI) Topo sheet no. E44J2 & J6. The total mining lease area of the project is 935.522 ha (comprises of Bld. Dep-14 = 322.368 ha + Bld. Dep-14NMZ = 506.742 ha + Bld. Dep-11C part within Dep-11ML = 106.412 ha).

Open cast mechanized mining method is being used for the excavation of iron ore. Crushing, screening and loading plant facilities have also been developed. The area is connected by all-weather road to district head quarter Dantewada. The area is also very well connected to Jagdalpur and Raipur in C.G state and Visakhapatnam in A.P and Hyderabad in Telangana. Rail service is available Visakhapatnam from Kirandul. The mine lease deed letter to the Intent issued by Collector Department of mine Dantewada Letter dated 08.09.2015.

The additional facilities planned for capacity expansion of mine will be (i) construction of new crushing plant and downhill conveyor system of 10 MTPA capacity each for Bailadila Deposit-14 and 11C Mines, (ii) refurbishment of screening plant-1 and associated works for handling up to 7 MTPA (iii) construction of 5th line in screening plant-2 & drive up-gradation of Conv. 310 for handling up to 10 MTPA (iv) new railway yard enabling Merry-Go-Round (MGR) system for improvement in handling more rail traffic (v) up-gradation of existing downhill conveyor braking & control system of Dep. 11C for handling up to 9 MTPA. The other infrastructure facilities available at Kirandul will cater the requirements of the proposed expansion. The proposed capacity expansion of the mines has been envisaged by utilizing the existing infrastructure and man power only. Hence, there is no proposal for the requirement of any additional area for residential purpose.

Additional Water requirement for the proposed expansion will be 6000 KLD. The source of water will be drawn from Malinger nallah, Kirandul Nallah & Nallah no.25 at Bacheli. The waste /sub-grade generated from opencast mining will be stored in three dump sites in Deposit 14 and in two dump sites in Deposit 11C. The overall slopes of

the dump will be maintained 28°. Individual bench height will be restricted to 20m, gullies will be provided in the bench slopes for smooth draining of water.

Plantation has already been carried out in the available blank areas of all the leases. Project is also carrying out road side plantation through Chhattisgarh Rajya Van Vikas Nigam Limited under Hari-Har Chhattisgarh Program.

The Forest Clearance was issued by MoEF&CC for Deposit 14 no 8-41/97-FC dated 18.06.1999, Deposit 14 NMZ no 8-40/97-FC dated 18.06.1999 and Deposit 11 NMZ no 3-98/97-FC dated 22.12.1999. The forest clearance is valid up to 31.3.2020 in terms of MoEF&CC circular no. 11-51/2015-FC dated 1.4.2015 and as per M.M (DR) Amendment Act, 2015.

It was reported by the PP that there is forest land involved 935.522ha and no protected area viz wildlife Sanctuaries/ Tiger Reserve/ National Park/ Schedule I species etc. is located within 10km of the mine. The estimated cost of the proposed project is Rs. 1521.82 Cr. It is reported by Project Proponent that there is no court case / litigation against the project and no violation.

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

(2.47). Mining of lime stone of M/s Smt. Savita Chauhan, is located at Mauza Shamah Pamta, Tehsil Paonta Sahib, District Sirmaur, Himachal Pradesh

The proposal is a Hill Slope Mining Project for the mining of lime stone with the total capacity for 60000 TPA from Hill Slope located at village Shamah Pamta, Tehsil Paonta Sahib, District Sirmaur, Himachal Pradesh. The proposed project is having lease area of 3.1 ha Lease was sanctioned on 16.06.1986 in favour of Smt. Savita Chauhan was renewed for 20 years from 16.06.1986 which shall expired on 15.06.2006. The mine lease renewal of mining is done on 15.06.2006 by Smt. Savita Chauhan for the period of 20 years. As per the new ordinance of ministry of mines the lease is valid for the period of 20 years i.e. upto 15.06.2026. The Longitude and Latitude of the proposed site is Longitude: 77° 42' 21.36" E, 77° 42' 24.90" E, 77° 42' 22.20" E and: 30° 35' 90"N to 30° 35' 60"N, 30° 35' 51"N. The mining lease area falls in Survey of India (SOI) Topo sheet no. 53F/10 & F/6 (old), E44J2 & J6 (New). The proposal falls under 'A' Category as the interstate boundary between Himachal Pradesh & Uttarakhand is within 5 km of the study area, there are other mine lease exists in the 500 m periphery of the lease area, the sum total of all the mine leases is 12.13 ha.

The proposed project activity will be carried out from the Hill Slope. Interburden Waste will be generated is 1500 m³ per year and 78 (maximum) m³ top soil will be generated per year during operation of mine. Water requirement for drinking and domestic purposes is 0.9KLD and for dust suppression 1.5KLD, total water

requirement is 2.4 KLD. Water will be supplied from natural spring (Chitli Khala) through tanker supply.

It was reported by the PP that there is no protected area viz wildlife Sanctuaries/ Tiger Reserve/ National Park/ Schedule I species etc. within 10km of the mine. The capital cost of the project is Rs. 40.0 Lakh and the annual recurring cost for the environment protection measures is proposed as Rs. 3.15 Lakh including pollution control and monitoring. It is reported by Project Proponent that there is no court case / litigation against the project and no violation.

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

(2.48). Sand Mining Project of M/s Banshidhar Construction Private Limited located at on River Falgu(Stretch- 1), Dardha (Stretch- 2), Morhar (Stretch- 3), Mohana (Stretch- 4), Lokain (Stretch- 5) & Dhab (Stretch- 6) of District-Jahanabad, State-Bihar (Area: 318.8Ha.) IA /BR /MIN /32386 /2015

The proposal of M/s Banshidhar Construction Pvt. Ltd is for Mining of sand from river Falgu, Dardha, Morhar, Mohana, Lokain & Dhab River of District Jahanabad. The mining Lease is located on the dry river bed of River Falgu (as stretch-1) , River Dardha (stretch-2), River Morhar (stretch -3) , River Mohana (stretch -4) , River Lokain (stretch -5) ,& River Dhab (stretch - 6), Jahanabad District, Bihar. Regarding this, Letter of Intent has been issued by District Collectorate of Jahanabad on date 26.06.2015 for 5 years.

The project is for open cast other than Fully Mechanized Mining (OTFM) as well as manual mining of Sand. 99,28,304 tonnes of sand per annum will be excavated. Entire process of excavation will be done other than Fully Mechanized Mining (OTFM) Method. The mine lease area falls on Survey of India Topo sheet no. 72C15,72C16,72D13,72G3,72G4,&72H1 and Stretch 1st lies between Latitudes 25°00'00.6"N ; Longitudes 84°05'46.7"E to Latitudes 25°18'34.9"N; Longitudes 85° 9'5.29"E and Stretch 2nd lies between Latitudes 25° 3'39.45"N ; Longitudes E to Latitudes 84°55'5.61"N; Longitudes 84°58'11.6"E. Stretch 3rd lies between Latitudes 25° 3'56.59"N ; Longitudes 84°54'16.13"E to Latitudes 25°05'17.5"N; Longitudes 84°54'30.2"E.Stretch 4th lies between Latitudes 25° 3'47.71"N; Longitudes 85° 8'6.63"E to Latitudes 25° 4'23.56"N ; Longitudes 85° 8'14.48"E. Stretch 5th lies between Latitudes 25°14'58.6"N; Longitudes 85°10'01.3"E to Latitudes 25°16'18.4"N ; Longitudes 85°10'17.2"E. Stretch 6th lies between Latitudes 25°05'24.1"N; Longitudes 84°52'12.7"E to Latitudes 25°05'42.5"N ; Longitudes 84°52'27.8"E The Project is located in Seismic Zone-IV. Approx.733 manpower will be employed for the proposed project.

The total sum of all Ghats mine of lease area is 3118.8 ha or 787.77Acres which is classified as Govt. land. The total water requirement is 29.0KLD for dust

suppression and green belt development, which will be made available through private tankers and 11.0KLD Drinking water will be made available through private tankers. The capital cost of the proposed project will be approx. Rs. 190 Lakhs.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee was of the view that proposed production capacity is unreasonably high and such large quantity of sand mining will adversely affect the environment of the area. Therefore, Committee decided to **defer** the Proposal and sought the following information/clarifications for further consideration:-

- (i) A study shall be conducted to rationalize the production capacity based on the available infrastructure for transportation of the mined out material. The Revised form-I and PFR with the rationalized production capacity shall be submitted.

AMENDMENT OF TOR

- (2.49). J-11015/300/2015-IA-II(M) Boulder, Gravel and Sand Minor Mineral Mine Gorakhnath Block/PKL B 1 & 2 with capacity 4,78,000 TPA of M/s Sh. Nasib Singh s/o Sh. Hardeep Singh located at Village - Gorakhnath, Tehsil-Kalka District-Panchkula, Haryana, 12.94 ha (Increased capacity 5,82,000 TPA).**

The mine lease is located at Gorakhnath, Tehsil- Kalka District-Panchkula, Haryana. The mining lease area measuring 12.94 hectares falling under category "A" due to inter-state boundary between Haryana & H.P at 0.38 Km and 2.7 km between Haryana & Punjab State. The TOR to the project was issued vide letter no. J-11015/300/2015-1A-II (M) dated 03.11.2015. The PP has request to amend the TOR with respect to proposed production capacity from 4,78,000 TPA (ROM) to 5,82,000 TPA (ROM) of Boulder, Gravel and Sand Minor Mineral Mine as per approved Mining plan by Department of Mines & Geology, Haryana on 18.11.2015. PP submitted the revised Form-I and PFR.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee recommended the Amendment in TOR with respect to production capacity from 4,78,000 TPA (ROM) to 5,82,000 TPA (ROM).

- (2.50). J-11015/333/2015-IA.II(M) Boulder, Gravel and Sand Minor Mineral Mine Kiratpur Block/PKL B 5 & 6 with capacity 4,98,000 TPA of M/s Barwala Royalty Company located at Village Kiratpur and Paploha , Tehsil- Kalka, District- Panchkual, Haryana, 13.40 ha, (Increased capacity 6,03,000 TPA).**

The mine lease is located at Village Kiratpur and Paploha, Tehsil- Kalka, District-Panchkual, Haryana. The mining lease area measuring 13.40 ha falling under category "A" due to Interstate boundaries between Haryana & Punjab located at 4.91 km and

between Himachal Pradesh & Haryana state boundaries located at 4.83 km from project site.

The TOR to the project was accorded vide letter no. J-11015/333/2015-1A-II (M) dated 06.11.2015. The PP has request to amend the TOR with respect to proposed production capacity from 4,98,000 TPA (ROM) to 6,03,000 TPA (ROM) of Boulder, Gravel and Sand Minor Mineral Mine as per approved Mining plan by Department of Mines & Geology, Haryana on 05.11.2015. PP submitted the revised Form-I and PFR.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee recommended the Amendment in TOR with respect to production capacity from 4,98,000 TPA (ROM) to 6,03,000 TPA (ROM).

(2.51). J-11015/302/2015-IA-II(M) Boulder, Gravel and Sand Minor Mineral Mine Mandlai Block/PKL B 21 with capacity 5,70,000 TPA of Sh. Ranbir Singh S/o Sh. Mohinder Singh located at Village - Mandlai, Tehsil- Raipur Rani District-Panchkula, Haryana, 13.20 ha (13.20 ha)(Increased capacity 5,94,000 TPA).

The mine lease is located at Village Mandlai, Tehsil- Raipur Rani District-Panchkula, Haryana. The mining lease area measuring 13.20 hectares falling under category "A" due to Interstate boundary between Haryana & Himachal Pradesh at 0.21 Km from the lease area. The co-ordinate of the Mine Lease area, Latitude: 30°34'18.09" to 30°33'33.43" North and Longitude:77°6'25.98" to 77°6' 31.34" East.

The TOR to the project was accorded vide letter no. J-11015/302/2015-1A-II (M) dated 03.11.2015. The PP has request to amend the TOR with respect to proposed production capacity from 5,70,000 TPA (ROM) to 5,94,000 TPA (ROM) of Boulder, Gravel and Sand Minor Mineral Mine as per approved Mining plan by Department of Mines & Geology, Haryana on 18.11.2015. PP submitted the revised Form-I and PFR.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee recommended the Amendment in TOR with respect to increase in production capacity from 5,70,000 TPA (ROM) to 5,94,000 TPA (ROM).

(2.52). J-11015/72/2013-IA.II (M) Mogla Limestone mine of M/s JSW Cement Ltd. For 4.51 MTPA Limestone capacity at Mogla Village, Chittapur Taluka, Gulbarga District, Karnataka (404.29 Ha.)

The proposal is for production of 4.51 million TPA of Limestone from 404.29 ha. The mine lease area is located at Village-Mogla, Taluka Chittapur, District Gulbarga in Karnataka. The TOR to the project was issued vide MoEFCC Letter No. J-11015/72/2013-IA.II (M) dated 21st November 2013.

The PP, online application requested the extension of validity of TOR, as the

submission of final EIA report was delayed due to delay in conducting the Public Hearing. Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for to the outer limit of two year i.e. **from 21.11.2015 to 20.11.2017.**

Any other matter with permission of Chair

(3.1): M/s Chhattisgarh Mineral Development Corporation Ltd. for bauxite mining with proposed production of 1,15,327 TPA over mine lease area of 54.268 ha located at Village- Barima, Tehsil- Sitapur, District- Surguja, State- Chhattisgarh-consideration of EC.

The proposal is for opening new bauxite mine of M/s Chhattisgarh Mineral Development Corporation Ltd., mine is located at Village- Barima, Tehsil- Sitapur, District- Surguja, State- Chhattisgarh over an area of 54.268 Ha. The entire mine lease is agricultural land. Project location is coming in the topo-sheet number 63N/5. Latitudes of the site are 22°47'35" to 22°47'42" N & Longitudes 83°19'39" to 83°19'39". The proposed lease area is having 7,05,186 tonnes geological reserves in which about 6,63,814 tonnes are mineable reserves. Life of the mine is 6 years.

The proposal was considered by Expert Appraisal Committee in its 31st meeting held during, March 16-18, 2015 and the TOR was issued by MOEFCC vide letter no J-11015/51/2015-IA. II(M) dated 17.04.2015.

The Chhattisgarh Mineral Development Corporation (CMDC), Raipur has been allotted Mining Lease (ML) at Barima village, Sitapur Tehsil, District Surguja of Chhattisgarh State. The letter of intent was issued vide letter No. F-3-2/2005/ 12, dated 23/06/2006, accordingly the Mining Plan for the above said area has been prepared and duly approved by IBM vide letter No. SRG/Bx/MPLN-947/NGP dt.02/02/2007. The area has been sanctioned for Mining lease by Mineral Resource Department, Govt, of Chhattisgarh, vide letter No. F 3-2/2005/12, Raipur dated 27/10/2009. Modified mine plan is approved by IBM vide letter No SRG/BX/MPLN-947/NGP dt.16/09/2015.

The proposed mine is located near Barima village, Tehsil Sitapur, District Surguja, Chhattisgarh over an area of 54.268 Ha. The lease area is divided into two Blocks, eastern part (Block A) being the major block (52.277Ha) and western part (Block B), the other block (1.991Ha). The entire lease hold area of 54.268 Ha lies in Private-owned land. Nearest forest is Barima Reserved Forest adjacent to ML Area in W direction and nearest water body is Mangarda Nala 0.5km NW.

The open cast mining operation will be carried out by semi-mechanized method. Removal of top soil and laterite (OB) will be dozed off separately and temporarily stocked separately near the pit face. Proposed capacity of the mining is 1,15,327 TPA. Total water requirement for the proposed Project is 51.2 KLD i.e including drinking, domestic, dust suppression and green belt development. Total Project Cost is Rs. 9.8 Crore. The capital cost estimated to be incurred for environment care and protection

such as equipment; PPEs, etc will be Rs 3.0 lacs. The recurring cost for monitoring, dust suppression, green belt maintenance, and biological reclamation of land has been calculated at Rs 9.5 lacs annually.

The mine area does not cover any habitation. Hence the mining activity does not involve any displacement of human settlement. No public buildings, places, monuments etc exist within the lease area or in the vicinity. The mining operation will not disturb/ relocate any village or need resettlement. Thus no adverse impact is anticipated.

The proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries, and Tiger Reserves falls within the study area (10 km radius of the mine boundary). The Baseline studies were carried out during 2015 (March, 2015-May, 2015). All the parameters for air, water, soil & noise quality were reported to be within permissible limits.

The public consultation for this project was held on 09.10.2015 at Stadium Narmdapur village, Manpatha Tehsil Office. The Public hearing was presided over by Sh. N.N. Ekka, Additional District Magistrate, Ambikapur (Sarguja). The issues raised during the public hearing were also considered and discussed during the meeting, which inter-alia, included that priority to land owners of the project in employment, planning for providing basic facilities such as education, medical, drinking water facilities etc., effective implementation of measures to control dust pollution, transportation, water conservation measures, village development activities. It was reported by the PP that there is no court case against this project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Bauxite with proposed production capacity of **1,15,327 TPA (ROM) over mine lease area of 54.268 ha.**

(3.2). Mining of Mineral Sand from Mandapal Sand Mine in River Brahmani with proposed production capacity of 0.25 million m³/annum (2,50,000 Cum/ annum) by M/s Mahanadi Coalfields Limited (MCL), located at Village-Nizigarh Zami and Gopinathpur, Tehsil-Talcher, District-Angul, Odisha (MLA 17.805 ha) (Consultant: Central Mine Planning & Design Ltd.)- Consideration of EC

The proposal of M/s Mahanadi Coalfields Limited (MCL), Sambalpur is for mining of Sand (Minor Mineral) from Mandapal Sand Mine with proposed Annual production capacity of 0.25 million m³ (ROM). The mine has a lease area of 17.805 ha and is located at Village- Nizigarh Zami and Gopinathpur, Tehsil: Talcher and District: Angul, State: Odisha. The mine lease area lies in Brahmani River bed. The Latitudes and Longitudes of the mine lease area lies between 20⁰56'19"N to 20⁰55'34"N and 85⁰14'08"E to 85⁰14'13"E, respectively, on Survey of India top-sheet numbers F45T1(73 H/1). The Project is located in Seismic zone-II. It is category B project but

since it falls within 5 km radius of notified critically polluted area of Angul-Talcher area in Odisha, hence is treated as Category 'A' Project.

It was informed by PP that the Project Proponent has applied as per the EIA notification 2006 (and its amendment) to the SEIAA, Odisha the details of which are given below:

| Sl.No. | Particulars | Date |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1 | Application made in Form-I with relevant documents & requisite fees to SEIAA vide letter No.4724, dtd.19.02.2013. | 19.02.2013 |
| 2 | Presentation for TOR was made before SEAC as per their letter No.529/SEAC-(MISC)-02, dt.13.05.2013. | 21.05.2013 |
| 3 | TOR issued by Secretary, SEAC, Odisha and advised for submission of draft EIA/EMP vide letter No.1125/SEAC-142, dt.19.06.2013 | 19.06.2013 |
| 4 | Submission of draft EIA/EMP and application for PH to Member Secretary, OSPCB | 04.09.2014 |
| 5 | Date of conduct of PH | 02.04.2015 |
| 6 | Minutes of PH received from OSPCB vide Memo No.8410, dt.22.5.15 | 22.05.2015 |
| 7 | Final EMP was submitted to SEIAA | 11.06.2015 |
| 8 | SEIAA intimated for final appraisal & PPT presentation vide letter No.445/SEAC-(MISC)-02, dtd.13.7.15 | 13.07.2015 |
| 9 | PPT presentation made before SEAC as per letter No.445/SEAC-(MISC)-02, dtd.13.7.15 | 23.07.2015 |
| 10 | After the presentation, a letter received from Environmental Engineer, SEIAA, Odisha requesting to take up the proposal to MoEF New Delhi because the project site falls within 5 km of notified critically polluted area. | 14.08.2015 |
| 11 | Proposal resubmitted in the MoEF portal & Proposal No. IA/OR/MIN/30611/2013 assigned. | 02.09.2015 |

After detailed deliberations of final EIA/EMP SEAC, Odisha vide letter No. 3872/SEIAA dated 14/08/15 asked M/s Mahanadi Coalfields Limited to resubmit the proposal to MoEF & CC, Govt. of India as it is category 'A' project for necessary consideration of environmental clearance.

It was informed by PP that sand is urgently required for stabilization of underground workings over which Talcher Town is situated and different bodies like National Human Rights Commission (NHRC), Director General of Mine Safety (DGMS),

State Government, Local representatives, public etc. are pressing hard for early resumption of stabilization and sand stowing in the underground workings.

The mine lease area is 17.805 ha which is in Brahmani River. No forest land is involved. The mining lease for mineral sand, over an area of 17.805 ha has been renewed vide letter No. 2324/SM, Bhubaneswar dated 11/03/2015 of Govt. of Odisha, Department of Steel & Mines for the period of 20 years till 31/03/2020. The Mining Plan has been approved by Ministry of Coal vide letter No.34012/4/2011-CPAM dated: 24.01.2012. Method of Mining is Strip Mining by mechanical winning of sand by hydraulic excavator loading onto tipping trucks & transport to mine (underground) for stowing & stabilization of underground mine workings. Sand will be mined out during dry season only (7 months – November to May) on exposed sand deposits in the river bed. During this period, the area of the sand quarry is free from submersion (in the western bank) and the river flows away from the deposit as the flow of water is to one side of the bank (in the eastern side). A 50m sand barrier against the river bank will be left un-mined for protection of the bank. Sand will be won along the deposit of exposed sand banks in a strip of 20 m width and 1.81 m depth. The sand won from the river-bed will be transported to the end-use colliery sites viz: the abandoned underground (UG) mines - Deulbera Colliery (4-5 km), Handidhua Colliery (6-7 km), and working UG mines - Talcher Colliery (8-9 km) and Nandira Colliery (16-17 km) by trucks.

The proponent submitted that the sand mining will be in strip cutting sequence which will not block the normal course of water flow, hence the downstream users will not be affected. Sand excavated will be replenished every year in natural course as the mining operation will be suspended during monsoon (June to October). This has been established from the fact that, no lowering of sand bed was observed during the past 20 years of mining in the area by MCL. Creation of shallow pit is temporary disruption of landscape. No lowering of the river bed or non-availability of sand has been noticed during the last twenty years of sand mining in this area. The site elevation is 69.88m to 71.45m AMSL. The Ground water depth varies from Less than 3.40 m bgl to about 13.15 m bgl in pre-monsoon season and varies from Less than 2.22 m bgl to about 7.63 m bgl in post-monsoon season. The total water requirement for the project is 86.66 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by treated mine water from Deulbera/ Handidhua mines. Project Proponent reported that there will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure as per the Mine Closure Plan.

There is no forest & Schedule-I wildlife species within the mining lease area. However, four Reserved Forests namely Kalpal RF, Gangutia RF, Petachira RF, Kandhal RF are present in the study area. As per the Ecological study from Dec. 2012 to March, 2013 conducted by Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar, Schedule - I species viz. Monitor lizard (*Varanus salvator*), Python (*Python* genus) and Peafowl (*Pavo cristatus*) are present in the study area. Enquiry from the locals during the study indicated that in the recent past, Elephant (*Elephas maximus*), Pangolin (*Manis crassicaudata*), Sorishiagodhi (*Varanus flavescens*), Ajjgar (Genus *Python*), Reticulated

Python (Genus Python), Spotted owlet (Athene blewitti), Grey Hornbill (Aceros nipalensis), Pond Turtle (Lissemys punctata punctata), Monitor Lizard (Varanus salvator), Peafowl (Pavo cristatus) Schedule - I species are occasionally found in the study area. The Project Proponent also stated that a Wildlife Conservation Plan is being prepared for the area under the Lingaraj Opencast Coal mining project for which EC has been granted. Since the study areas of Lingaraj OCP and the Mandapal sand mining project are largely overlapping, the Conservation Plan being prepared for Lingaraj OCP will also consider the areas under the present mining.

The baseline data was generated for the period during December 2013 to March 2014. The parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. The Public Hearing for the proposed Project was conducted on 02.04.2015 at 10.30 am at Deulbera Colliery Institute, Deulbera Colliery, Talcher, Dist. Angul. The Public Hearing was presided over by Shri Sushanta Kumar Barik, Additional District Magistrate, Angul. The issues raised during the Public Hearing were also considered and discussed during the meeting, which *inter-alia*, include: give priority to local people in employment, effective implementation of measures to control dust pollution, plantation/distribution of fruit bearing tree saplings, water supply, social and other village development activities including maintenance of road. Project Proponent submitted that the public road from Madanmohan cinema hall of Talcher town to Gopinathpur / Nizigarzhami village about 3.1 km distance RCC road has been completed at a cost of 3.3 Crores. During 2015-16, 6144 numbers of fruit bearing plants were distributed to the villagers of Nizigarzhami/Gopinathpur (Mandapal) and its surrounding villagers.

Project Proponent reported that there is no litigation pending against the project. The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Mineral Sand from Mandapal sand Mine of M/s Mahanadi Coalfields Limited with proposed production capacity of 0.25 Million m³/annum (ROM).

The Committee also **recommended** additional specific conditions viz. (i) Project Proponent shall implement the Disaster Management Plan. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) Transport of mineral will not be done through any of the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of

the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) Washing of all transport vehicle should be done inside the mining lease; and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(3.3). Enhancement of production of Bauxite from 0.15 million TPA (ROM) to 0.30 million TPA (ROM) for Amtipani Bauxite Mine by M/s Hindalco Industries Limited, located at Villages- Amtipani, Gurdari and Chirodih, Thana-Bishunpur, Gumla District, Jharkhand (MLA 190.95ha)-Re-consideration of EC.

The proposal is for enhancement of Bauxite production capacity from 0.15 million TPA (ROM) to 0.30 million TPA (ROM) in the mine lease area of 190.95 ha. The mine lease is located near Villages- Amtipani, Gurdari and Chirodih, Thana-Bishunpur, Gumla District, Jharkhand.

The proposal of EC was earlier considered by the Expert Appraisal Committee (Mining) in its meeting held during May 27-29, 2015 wherein the Committee noted that the compliance report is about two year old and was of the view that Regional Office may be requested for fresh compliance Report of the earlier EC conditions as well as the points raised by the RO during inspection in September 2013. Further, the Committee, after detailed deliberations in the EAC meeting held during May 27-29, 2015, **recommended the Proposal for environmental clearance subject to submission of the certified compliance Report of the earlier EC conditions** by the Regional Office located at Ranchi.

In his context the Regional Office, Ranchi has inspected the mine on 02.07.2015 and submitted the compliance report to the Ministry. The Compliance Report, inter-alia, mentioned the observation of the Regional Office, Ranchi which are as follows:-

Specific Conditions:

1. Immediate action is required to implement the rain water harvesting plan in a time bound manner (condition No. i).

2. In the Consent to Operate condition of Jharkhand pollution Control Board, greenery has to be maintained around the periphery. Immediate action is required to develop greenery (condition No. i).
3. Vegetation needs to be developed on the OB dump to avoid erosion of soil and gully formation and also to stabilize sufficiently the OB slope (condition No. v).
4. Following points should be included in green belt development plan (a) Budget allocation, (b) Map of area to be covered (c) proper scheme of plantation with budget estimates and maintenance of plantation for 5-7 years (d) tree along road side should be planted along with tree guards. Green belt development plan should be implemented in a time bound manner. It is yet to be complied with. Immediate action is required in this regard (condition No. vii).
5. It has been stated that the Centre for Ground water study, Kolkata has conducted a study during 2008-09 and the report has been sent to the Regional Director, CGWB, New Delhi. It has been found that the study has been made for pakhar Bauxite Mines, Shrengdag Bauxite Mines and Gurdari Bauxite Mines. Therefore, it is suggested the project should prepare the ground water conservation and augmentation plan afresh by including the Amtipani Bauxite Mines (condition No. viii).
6. Monitoring of ground water level and quality has not been carried out by establishing a network of existing wells and constructing new piezometers. It is yet to be complied with. Immediate action is required in this regard (condition No. ix).
7. Sufficient slope on the other sides of the water reservoir has to be maintained. However, Plantation around the slope is required to stabilize the slope (condition No. xviii).

General Conditions

8. The project seems to have exceeded total area of mining i.e. 20 Ha. (condition No.ii).
9. The project authorities have submitted a plan for conservation of Flora and Fauna in the core and Buffer Zone of the Amtipani mining lease which needs to be approved by the concerned forest and wildlife department (condition No. iii).
10. During visit it has been observed that PPE are not in use (condition No. vii & ix).

Based on the observation of the Regional Office, the Project Proponent, vide letter dated 02.11.2015, has submitted the compliance on the points raised by the Regional Office of the Ministry, the Committee, after detailed deliberations, **recommended** the Proposal for environmental clearance for **Enhancement of**

production of Bauxite from 0.15 million TPA (ROM) to 0.30 million TPA (ROM).

The Committee **recommended additional specific conditions** viz. (i) Mining activity shall only be commenced after CGWA approval; (ii) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities; (iii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The PP shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing; (iv) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry; (v) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (vi) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; and (vii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and Washing of all transport vehicle should be done inside the mining lease.

(3.4): Mining of Masonary Stone (Minor Mineral) with proposed production capacity of 65,46,800 TPA (ROM) by Lessee Shri Samun Khan S/o Shri Bannu Khan located at Near Village-Nangal, Buarpurgadhi and Begpahari, Tehsil-Nagar, District-Bharatpur, Rajasthan (MLA 71.2391 ha)- (Consultant: Vardan Enviro Net)- Consideration of TOR

The proposal of Lessee Shri Samun Khan S/o Shri Bannu Khan is for mining of Masonary Stone with production capacity of 65,46,800 TPA (ROM) in the mine lease area of 71.2391 ha. The lease is located at Near Village-Nangal, Buarpurgadhi and Begpahari, Tehsil-Nagar, District-Bharatpur, Rajasthan. The MLA is located on Survey of India Topo sheet (OSM) No.- 54E6, 54E2 and 54E3. The mine lease area is located between the following coordinates:

| Pillar No. | Latitudes | Longitudes |
|------------|---------------|---------------|
| A | 27°32'56.3" N | 77°9'31.9" E |
| B | 27°33'07.2" N | 77°9'35.1" E |
| C | 27°33'06.6" N | 77°9'37.6" E |
| D | 27°33'26.3" N | 77°9'44.7" E |
| E | 27°33'23.9" N | 77°9'55.3" E |
| F | 27°33'11.7" N | 77°10'05.4" E |
| G | 27°33'10.6" N | 77°10'07.8" E |
| H | 27°32'58.6" N | 77°10'11.4" E |
| I | 27°32'56.6" N | 77°9'59.2" E |
| J | 27°32'54.8" N | 77°9'57.3" E |

The mine lease was transferred in favour of Shri Samun Khan S/o Shri Bannu Khan R/o Village-Nangal, Tehsil-Nagar, District-Bharatpur, Rajasthan, vide order No. 1346 dated 29.07.1995. In view of Hon'ble Rajasthan High Court, Jaipur bench order dated 21.09.2011 and 31.12.2012, the Mining Engineer of Mining Department Bharatpur, granted fourth renewal vide his order No. 930 dated 02.03.2015 for 20 Years with effect from 06.05.2001 to 05.05.2021.

Total mine lease area is 71.2391 ha which is a Govt. waste land. Method of mining will be opencast mechanized method. The masonry stone will be excavated by mechanical excavators then loaded in to dumpers for its transportation to the crusher plant. Total water requirement for the proposed project will be 85.0 KLD. Water for dust suppression, domestic and plantation will be supplied by tankers from existing dug well / tube well situated in the nearby areas. The cost of the project is Rs. 10 Crores. The cost for EMP is 50.00 Lakhs. Project Proponent is reported that there is no National Park, Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). Government of Rajasthan, Mines and Geology Department, Bharatpur, vide letter dated 15.10.2013, has confirmed the mine lease no. 49/2001 does not fall in the Aravali Hills.

The Project Proponent mentioned that they had started collection of base line data since December 2015 and requested to monitor the baseline data on winter season i.e. December 2015 - February 2016. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

The Committee noted that the Project Proponent has earlier proposed the Masonary Stone production capacity @ 1,05,26,316 TPA (ROM). The Committee deliberated at length and suggested that the Project Proponent has to revise the production capacity. Accordingly, the Project Proponent has revised the production capacity from 1,05,26,316 TPA to 65,46,800 TPA (ROM). The Committee accepted the request of PP for the production of Masonary Stone @ 65,46,800 TPA (ROM).

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

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

Standard Terms of Reference (TOR)

- 1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- 3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 5) Information should be provided in Survey of India Topo sheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
- 8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

- 12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 21) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the

society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

- 22) One season (non-monsoon) [i.e. March - May (Summer Season); October - December (post monsoon season) ; December - February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM₁₀, particularly for free silica, should be given.
- 23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- 24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 26) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- 27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- 28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- 29) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- 30) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and BGL. A schematic diagram may also be provided for the same.
- 31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and

submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.

- 32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
- 33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- 36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 37) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 38) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- 39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 44) Besides the above, the below mentioned general points are also to be followed:-
 - a) All documents to be properly referenced with index and continuous page numbering.

- b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
- c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
- d) Where the documents provided are in a language other than English, an English translation should be provided.
- e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
- f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
- g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
- h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

List of Participants

| | | |
|-----|--------------------------------------------------|------------------|
| 1. | Dr. Ajai Kumar | Chairman |
| 2. | Shri B Ramesh Kumar | Member |
| 3. | Prof. Dr. K.S. Rana | Member |
| 4. | Prof. A. K. Bhatnagar, | Member |
| 5. | Dr. N. C. Karmakar | Member |
| 6. | Dr. Hemant S. Sahasrabuddhe | Member |
| 7. | Prof. S. Ramakrishna Rao | Member |
| 8. | Dr. AL. Ramanathan | Member |
| 9. | Dr. Tushar Kant Joshi | Member |
| 10. | Shri Santosh Gupta | Member |
| 11. | Shri K.S Yadav, Representative of Mines Ministry | Member |
| 12. | Mr. V.K. Soni, Representative of IMD | Member |
| 13. | Dr. (Ms.) Asha Rajvanshi Representative of WII | Member |
| 14. | Dr U. Sridharan, Director, MoEFCC | Member Secretary |

List of Representatives of the Project Proponents

1. Representative of M/s. Sher Singh Solanki,
2. Representative of M/s Smt. Rashmi Sharma
3. Representative of M/s Cement Manufacturing Co. Ltd
4. Representative of M/s Shri Mohan paul Singh Pannu
5. Representative of M/s Dalmia Agencies Pvt. Ltd
6. Representative of M/s Mateshwari Mintech Pvt. Ltd.
7. Representative of M/s Mohammed Nisar
8. Representative of M/s Sarc Infracon India Limited
9. Representative of M/s Uttrakhand Forest Development Corporation
10. Representative of M/s Shri Mukesh Sharma
11. Representative of M/s Shri. Bhopal Singh Oswal
12. Representative of M/s Mahadev Mining Works
13. Representative of M/s Jogniya Stone
14. Representative of M/s Nirma Ltd.
15. Representative of M/s Nalwaya Mineral Ind Pvt. Ltd
16. Representative of M/s Golcha Minerals Private Limited
17. Representative of M/s Assam Mineral Development Corp, Ltd.
18. Representative of M/s Dhyan Singh
19. Representative of M/s Talavadi Cements ltd.
20. Representative of M/s Sangam Infra Estate Pvt Ltd
21. Representative of M/s Yodha Mines & Minerals
22. Representative of M/s Ambuja Cements Ltd.
23. Representative of M/s. NMDC Ltd.,
24. Representative of M/s Manikeswari Gems Pvt Ltd
25. Representative of M/s Deccan Cements ltd.
26. Representative of M/s Ramsons
27. Representative of M/s Shri Harbhajan Singh
28. Representative of M/s Lok Cements Ltd
29. Representative of M/s. Rajyog Minerals Pvt.Ltd.

- 30.** Representative of M/s .Rajyog International Pvt.Ltd.
- 31.** Representative of M/s CH. Venugopal
- 32.** Representative of M/s Him Stone Crusher
- 33.** Representative of M/s Ferro Alloys Corporation Ltd.
- 34.** Representative of M/s. Andhra Pradesh Mineral Development Corporation Limited
- 35.** Representative of M/s Jaypee Cement Corporation
- 36.** Representative of M/s Smt. Savita Chauhan
- 37.** Representative of M/s Banshidhar Construction Private Limited
- 38.** Representative of M/s Nasib Singh
- 39.** Representative of M/s Barwala Royalty Company
- 40.** Representative of M/s Shri Ranbir Singh
- 41.** Representative of M/s JSW Cement Ltd.
- 42.** Representative of M/s Mahanadi Coalfields Limited (MCL)
- 43.** Representative of M/s Chhattisgarh Mineral Development Corporation Ltd.
- 44.** Representative of M/s Hindalco Industries Limited
- 45.** Representative of M/s Shri Samun Khan
