

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

SUMMARY RECORD OF 39th MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The **39th 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 **October 26-28, 2015**. The list of participants is annexed.

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

Item No. 1:

(1). Circulation of the Minutes of the 38th EAC Meeting

The Minutes of the 38th Meeting of EAC held during **September 22-24, 2015** were circulated.

Day 1: 26th October, 2015 (Monday)

Item No. 2: Consideration of Environmental Clearance Proposals

(2.1). Garh Roshanabad Sand Mine with production capacity of 1,65,200 TPA (ROM) by M/s. Garhwal MandalVikas Nigam Ltd., located at Village Gad Roshanabad, Tehsil Haridwar, District Haridwar (Area 11.883 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)

The proposal of M/s. Garhwal MandalVikas Nigam Ltd. is for Garh Roshnabad Sand Mining Project for collection of river bed sand from the River Rao with proposed production capacity of 1.652 Lakh TPA (ROM). The mining lease area is located in Village: Garh Roshnabad Tehsil & District: Haridwar, Uttarakhand. The proposed activity will be carried out in the bed of the River Rao, between Latitude 29°55'43.97"N to 29°55'4.72"N and Longitude: 78° 0'5.39"E to 78° 0'3.26"E and is included in the Survey of India Toposheet No. 53K1.

The MLA is 11.883 ha. The TOR was issued by Ministry vide letter no. J-11015/331/2013-IA.II (M) dated 6th December, 2013. The Rajaji National Park

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lies at a distance of 9 Km in NE direction of the lease area. As per amendments in EIA Notification, 2006 dated 25.06.2014, it is a Category 'B' project and has to be appraised at SEIAA level. The **Committee recommended the transfer of the Proposal to SEIAA, Uttarakhand.**

(2.2). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) in River Tons (Lot No. 3/14) with proposed production capacity of 55,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, located at Village-Mehreka Gaon and Sheesambada, Tehsil-Vikas Nagar, District-Dehradun, Uttarakhand (MLA 6.7 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)-Consideration of EC

The proposal of M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, Dehradun is for mining of Sand, Bajri and Boulder (Minor Mineral) with proposed production capacity of 55,000 TPA (ROM). The mine lease area is located at Village- Mehreka Gaon and Sheesambada, Tehsil: Vikas Nagar and District: Dehradun, Uttarakhand in the mine lease area of 6.7ha. The mine lease area lies on Tons River bed. The Latitudes and Longitudes of the mine lease area lies between 30°20'26.48"N to 30°20'17.04"N and 77°53'32.94"E to 77°53'8.92"E on Survey of India topo-sheet numbers 53F-15. The Project is located in Seismic zone-IV. It is Category 'A' Project as the project site lies within the Doon Valley, an eco-sensitive area.

The proposal of TOR was considered by the Expert Appraisal Committee in its 8th Meeting held during 26th June - 28th June, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF&CC vide letter No. J-11015/139/2013-IA. II (M), dated 27th August, 2013. The Proponent submitted the EIA /EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 6.7 ha which is on Tons River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, *Bajri* and Boulder over an area of 6.7 ha has been granted by the Director of Mines and Geology Department, Govt. of Uttarakhand, vide letter No. 40/Bhu.Khani.E./2012-13 dated 18-04-2013 for the period of 5 years. The Mining Plan has been approved by Director, Mines and Geology, Govt. of Uttarakhand; vide letter no.2202/Mine Plan, dated 03.03.2015.

Method of Mining is manual opencast method. Excavation will be carried out up to a maximum depth of 1.5 meters from surface of deposit and not less than one meter from the water level of the River Channel whichever is reached earlier. Proponent informed that 5.906ha area will be used for excavation and 0.794ha will be left as no mining zone/safety distance (bank stability area). The site elevation is 526m – 522m AMSL. The Ground water depth is 4.0m

BGL in pre-monsoon season and 3.5m BGL in post-monsoon season. The total water requirement is 3.3 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply, No Objection Certificate from Gram Panchayat has been obtained in this regard. The working is proposed on higher elevations; no ground water interception during the mining operations is envisaged.

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

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that 24 numbers of trucks will be deployed per day (10 tonnes capacity each) which increases 144 PCUs per day and the level of service (LOS) remains "A". Project Proponent reported that roads will be repaired regularly and maintained in good condition. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at all the sensitive places.

Project Proponent reported that the mine lease area lies within the Doon Valley and there is Interstate boundary of Uttarakhand & Uttar Pradesh (about 8 Km in S direction). Seven Reserved Forests are reported in the study area. There is no Schedule one species reported in the study area. The baseline data was generated for the period during October 2013 to December 2013. The parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that no R&R plan is applicable for this Project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearing for the proposed Project was conducted on 27.08.2014 at 2.00 pm at Rajkiya Purva Madhyamik Vidyalaya, Sheesambada, Sihniwala, Gram Panchyat Sheeshambada, Dehradun. The Public Hearing was presided over by Shri Pratap Singh Shah, Additional District Magistrate (Finance & Revenue), Dehradun. The representatives from the Uttarakhand State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm

nearby fields. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Project Proponent needs to implement the Action Plan and the Implementation Report has to be submitted to the Regional Office of the MoEFCC every six months.

The cost of the Project is Rs. 10.90 Lakhs. The Proponent has earmarked Rs. 3.0 Lakhs towards Environmental Protection Measures and Rs. 4.77 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 55,000 per annum have been earmarked towards CSR activities for next five years of mining operation. 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, Bajri and Boulder (Minor Mineral) with proposed production capacity of **55,000 TPA (ROM)**.

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) 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 1.5 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.

(2.3). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) in River Aasan (Lot No. 14/10) with proposed production capacity of 5,00,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, located at Village-Fatehpur, Dharmawala & Pratitpur, Tehsil-Vikasnagar, District-Dehradun, Uttarakhand (MLA 62.0 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)- Consideration of EC

The proposal of M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, Dehradun is for mining of Sand, Bajri and Boulder (Minor Mineral) with proposed production capacity of 5, 00,000 TPA (ROM). The mine lease area is located at Village- Fatehpur, Dharmawala & Pratitpur, Tehsil: Vikasnagar and District: Dehradun, Uttarakhand in the mine lease area of 62.0 ha. The mine lease area lies on Aasan River bed. The Latitudes and Longitudes of the mine lease area lies between 300 25'.42.07" N to 300 24'45.57" N and 770 '43.31.19" E to 770 '44 55.54" E on Survey of India topo-sheet numbers 53F-11. The Project is located in Seismic zone-IV.

The proposal of TOR was considered by the Expert Appraisal Committee in its 9th Meeting held during 22nd - 24th July, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter No. J-11015/174/2013-IA. II (M), dated 12th September, 2013. The Proponent submitted the EIA /EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 62.0 ha which is on Aasan River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, *Bajri* and Boulder over an area of 62.0 ha has been granted by the Director of Mines and Geology Department, Govt. of Uttarakhand, vide letter Letter No. 589/Bhu.Khani.E./2012-13 dated 23-01-2013 for the period of 5 years. The Mining Plan has been approved by Director, Mines and Geology, Govt. of Uttarakhand; vide letter no.2212/Mine Plan, dated 03.03.2015.

Method of Mining is manual opencast method. Excavation will be carried out up to a maximum depth of 1.5 meters from surface of deposit and not less

than one meter from the water level of the River Chanel whichever is reached earlier. Proponent informed that 41.0 ha area will be used for excavation and 21.0 ha will be left as no mining zone/safety distance (bank stability area). The site elevation is 430m – 427m AMSL. The Ground water depth is 3.3m bgl in pre-monsoon season and 2.8m bgl in post-monsoon season. The total water requirement is 5.0 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply, No Objection Certificate from Gram Panchayat has been obtained in this regard. The working is proposed on higher elevations; no ground water interception during the mining operations is envisaged.

Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 15% of the width of the River from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 100m on either side of the structure/bridge. Project Proponent reported that there will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure plan. Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that 222 numbers of trucks will be deployed per day (10 tonnes capacity each) which increases 1332 PCUs per day and the level of service (LOS) changes from "A" to "B". Project Proponent reported that roads will be repaired regularly and maintained in good condition. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at all the sensitive places.

Project Proponent reported that the mine lease area lies within the Doon Valley and there is Aasan Conservation Reserve (about 1.25 Km in NW direction), Interstate boundary of Uttarakhand & Himachal Pradesh (about 4 Km in NW direction) and Uttarakhand & Uttar Pradesh (about 7 Km in SW direction). NBWL clearance is mandatory for the project. Eighteen Reserved Forests are reported in the study area. There is no Schedule one species in the study area.

The baseline data was generated for the period during October 2013 to December 2013. The parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that no R&R plan is applicable for this Project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearing for the proposed Project was conducted on 02.07.2014 at 2.00 pm at Rajkiya Purva Madhyamik Vidyalaya, Dharmawala, Sahaspur district Dehradun. The Public Hearing was presided over by Shri

Pratap Singh Shah, Additional District Magistrate (Finance & Revenue), Dehradun. The representatives from the Uttarakhand State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Project Proponent needs to implement the Action Plan and the Implementation Report has to be submitted to the Regional Office of the MoEF&CC every six months.

The cost of the Project is Rs. 23.30 Lakhs. The Proponent has earmarked Rs. 5.5 Lakhs towards Environmental Protection Measures and Rs. 11.43 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 1.0 Lakh per annum have been earmarked towards CSR activities for next five years of mining operation. 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, Bajri and Boulder (Minor Mineral) with proposed production capacity of **5,00,000 TPA (ROM)**.

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) 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 1.5 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.

(2.4). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) in River Aasan (Lot No. 14/9) with proposed production capacity of 3,50,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, located at Village-Jassuwala, Lakhanwala, Mednipur & Badripur, Tehsil-Vikasnagar, District-Dehradun, Uttarakhand (MLA 45.0 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)- Consideration of EC

The proposal of M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, Dehradun is for mining of Sand, Bajri and Boulder (Minor Mineral) with proposed production capacity of 3, 50,000 TPA (ROM). The mine lease area is located at Village- Jassuwala, Lakhanwala, Mednipur & Badripur, Tehsil: Vikasnagar and District: Dehradun, Uttarakhand in the mine lease area of 45.0 ha. The mine lease area lies on Aasan River bed. The Latitudes and Longitudes of the mine lease area lies between 30°24'50.15"N to 30°24'18.938"N and 77°45'0.77"E to 77°46'8.521"E on Survey of India topo-sheet numbers 53F-15. The Project is located in Seismic zone-IV. It is Category 'A' Project as Project Site lies within Doon Valley and also Aasan Conservation Reserve lies at a distance of about 3.5 Km in NW direction. NBWL clearance is mandatory for the project.

The proposal of TOR was considered by the Expert Appraisal Committee in its 8th Meeting held during 26th- 28th June, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF&CC vide letter No. J-11015/147/2013-IA. II (M), dated 27th August, 2013. The Proponent submitted the EIA /EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 45.0 ha which is on Aasan River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, *Bajri* and Boulder over an area of 45.0 ha has been granted by the Director of Mines and Geology Department, Govt. of Uttarakhand, vide letter Letter No. 589/Bhu.Khani.E./2012-13 dated 23-01-2013 for the period of 5 years. The Mining Plan has been approved by Director, Mines and Geology, Govt. of Uttarakhand; vide letter no.2208/Mine Plan, dated 03.03.2015.

Method of Mining is manual opencast method. Excavation will be carried out up to a maximum depth of 1.5 meters from surface of deposit and not less than one meter from the water level of the River Chanel whichever is reached earlier. Proponent informed that 37.0 ha area will be used for excavation and 8.0 ha will be left as no mining zone/safety distance (bank stability area). The site elevation is 446m – 438m AMSL. The Ground water depth is 3.3m bgl in pre-monsoon season and 2.8m bgl in post-monsoon season. The total water requirement is 5.0 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply, No Objection Certificate from Gram Panchayat has been obtained in this regard. The working is proposed on higher elevations; no ground water interception during the mining operations is envisaged.

Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 15% of the width of the River from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 100m on either side of the structure/bridge. Project Proponent reported that there will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure plan. Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that 155 numbers of trucks will be deployed per day (10 tonnes capacity each) which increases 930 PCUs per day and the level of service (LOS) remains "A". Project Proponent reported that roads will be repaired regularly and maintained in good condition. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at all the sensitive places.

Project Proponent reported that the mine lease area lies within Doon Valley and there is Interstate boundary of Uttarakhand & Uttar Pradesh (approx 8 Km in SW) and Interstate boundary of Uttarakhand and Himachal Pradesh (approx 7km in NW directions) and Aasan Conservation Reserve (approx 3.5 Km in NW direction) within 10 Km radius of the lease area. Twelve Reserved Forests are reported in the study area. There is no Schedule one species in the study area.

The baseline data was generated for the period during October 2013 to December 2013. The parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that no R&R plan is applicable for this Project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearing for the proposed Project was conducted on 30.06.2014 at 11.00 am at Rajkiya prathamik Vidyalaya, Islamnagar block Sahaspur district Dehradun. The Public Hearing was presided over by Shri Pratap Singh Shah, Additional District Magistrate (Finance & Revenue), Dehradun. The representatives from the Uttarakhand State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Project Proponent needs to implement the Action Plan and the Implementation Report has to be submitted to the Regional Office of the MoEF&CC every six months.

The cost of the Project is Rs. 19.10 Lakhs. The Proponent has earmarked Rs. 5.0 Lakhs towards Environmental Protection Measures and Rs. 9.65 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 1.0 Lakh per annum have been earmarked towards CSR activities for next five years of mining operation. 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, Bajri and Boulder (Minor Mineral) with proposed production capacity of **3,50,000 TPA (ROM)**.

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) 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 1.5 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.

(2.5). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) in River Aasan (Lot No. 14/8) with proposed production capacity of 3,00,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, located at Village-Khushaalpur, Tehsil-Vikasnagar, District-Dehradun, Uttarakhand (MLA 32.0 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)-Consideration of EC

The proposal of M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, Dehradun is for mining of Sand, Bajri and Boulder (Minor Mineral) with proposed production capacity of 3,00,000 TPA (ROM). The mine lease area is located at Village- Khushaalpur, Tehsil: Vikasnagar and District: Dehradun, Uttarakhand in the mine lease area of 6.7ha. The mine lease area lies on Aasan River bed. The Latitudes and Longitudes of the mine lease area lies between 30°24'17.92"N to 30°23'52.57"N to 77°46'10.28"E to 77°46'53.81"E on Survey of India topo-sheet numbers 53F-15. The Project is located in Seismic zone-IV. It is Category 'A' Project as the project site lies within the Doon Valley, an eco-sensitive area.

The proposal of TOR was considered by the Expert Appraisal Committee in its 8th Meeting held during 15th - 17th May, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF&CC vide letter No. J-11015/92/2013-IA. II (M), dated 23rd July, 2013. The Proponent submitted the EIA /EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 32.0 ha which is on Aasan River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, *Bajri* and Boulder over an area of 32.0 ha has been granted by the Director of Mines and Geology Department, Govt. of Uttarakhand, vide letter Letter No. 589/Bhu.Khani.E./2012-13 dated 23-01-2013 for the period of 5 years. The Mining Plan has been approved by Director, Mines and Geology, Govt. of Uttarakhand; vide letter no.2216/Mine Plan, dated 03.03.2015.

Method of Mining is manual opencast method. Excavation will be carried out up to a maximum depth of 1.5 meters from surface of deposit and not less than one meter from the water level of the River Chanel whichever is reached earlier. Proponent informed that 30.0ha area will be used for excavation and 2.0ha will be left as no mining zone/safety distance (bank stability area). The site elevation is 453m – 450m AMSL. The Ground water depth is 3.5m BGL in pre-monsoon season and 2.8m BGL in post-monsoon season. The total water requirement is 4.8 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply, No Objection Certificate from Gram Panchayat has been obtained in this regard. The working is proposed on higher elevations; no ground water interception during the mining operations is envisaged.

Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 15% of the width of the River from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 100m on either side of the structure/bridge. Project Proponent reported that there will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure plan. Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that 134 numbers of trucks will be deployed per day (10 tonnes capacity each) which increases 804 PCUs per day and the level of service (LOS) changes from "A" to "B". Project Proponent reported that roads will be repaired regularly and maintained in good condition. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at all the sensitive places.

Valley and there is Inter-State boundary of Uttarakhand & Uttar Pradesh (8 Km in SW direction), Inter-State boundary of Uttarakhand & Himachal Pradesh (8 Km in NNW direction) and Aasan Conservation Reserve (6 Km in NW direction) within 10 Km radius of the lease area. There is no Schedule one species in the study area.

The baseline data was generated for the period during October 2013 to December 2013. The parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that no R&R plan is applicable for this Project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearing for the proposed Project was conducted on 02.07.2014 at 11.00 am at Rajkiya Purva Madhyamik Vidyalaya, Khushaalpur block Sahaspur district Dehradun. The Public Hearing was presided over by Shri Pratap Singh Shah, Additional District Magistrate (Finance & Revenue), Dehradun. The representatives from the Uttarakhand State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Project Proponent needs to implement the Action Plan and the Implementation Report has to be submitted to the Regional Office of the MoEF&CC every six months.

The cost of the Project is Rs. 17.75 Lakhs. The Proponent has earmarked Rs. 4.5 Lakhs towards Environmental Protection Measures and Rs. 7.31 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 1.0 Lakh per annum have been earmarked towards CSR activities for next five years of mining operation. 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, Bajri and Boulder (Minor Mineral) with proposed production capacity of **3,00,000 TPA (ROM)**.

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) 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 1.5 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.

(2.6). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) in River Tons (Lot No. 3/8) with proposed production capacity of 1,50,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, located at Village(s)-Rangadwala, Shahpur Santaur & Kotda Santaur, Tehsil-Vikasnagar, District-Dehradun, Uttarakhand (MLA 15.363 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)- Consideration of EC

The proposal of M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, Dehradun is for mining of Sand, Bajri and Boulder (Minor Mineral) with proposed production capacity of 1, 50,000 TPA (ROM). The mine lease area is located at Village(s)- Rangadwala, Shahpur Santaur & Kotda Santaur, Tehsil:

Vikasnagar and District: Dehradun, Uttarakhand in the mine lease area of 15.363ha. The mine lease area lies on Tons River bed. The Latitudes and Longitudes of the mine lease area lies between 30°20'26.01"N to 30°21'1.65"N and 77°57'58.14"E to 77°59'4.57"E on Survey of India top-sheet numbers 53F-15. The Project is located in Seismic zone-IV. It is Category 'A' project as because the project site lies in Doon Valley, an eco-sensitive area.

The proposal of TOR was considered by the Expert Appraisal Committee in its 8th Meeting held during 15th - 17th May, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter No. J-11015/87/2013-IA. II (M), dated 16th July, 2013. The Proponent submitted the EIA /EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 15.363ha which is on Tons River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, *Bajri* and Boulder over an area of 15.363 ha has been granted by the Director of Mines and Geology Department, Govt. of Uttarakhand, vide letter No. 589/Bhu.Khani.E./2012-13 dated 23-01-2013 for the period of 5 years. The Mining Plan has been approved by Director, Mines and Geology, Govt. of Uttarakhand; vide letter no.2207/Mine Plan, dated 03.03.2015.

Method of Mining is manual opencast method. Excavation will be carried out up to a maximum depth of 1.5 meters from surface of deposit and not less than one meter from the water level of the River Chanel whichever is reached earlier. Proponent informed that the entire 15.363ha area will be used for excavation. The site elevation is 575m – 570m AMSL. The Ground water depth is 4.0m bgl in pre-monsoon season and 3.5m bgl in post-monsoon season. The total water requirement is 1.8 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply, No Objection Certificate from Gram Panchayat has been obtained in this regard. The working is proposed on higher elevations; no ground water interception during the mining operations is envisaged.

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

the Traffic Analysis survey and reported that 67 numbers of trucks will be deployed per day (10 tonnes capacity each) which increases 402 PCUs per day and the level of service (LOS) remains "A". Project Proponent reported that roads will be repaired regularly and maintained in good condition. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at all the sensitive places.

Project Proponent reported that the mine lease area lies within the Doon Valley. Fourteen Reserved Forests are reported in the study area. There is no Schedule one species in the study area. The baseline data was generated for the period during October 2013 to December 2013. The parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that no R&R plan is applicable for this Project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearing for the proposed Project was conducted on 28.07.2014 at 12.30 pm at Rajkiya Uccharat Madhyamik Vidyalaya, Kotda Santaur Vikashhand Sahaspur District Dehradun. The Public Hearing was presided over by Shri Pratap Singh Shah, Additional District Magistrate (Finance & Revenue), Dehradun. The representatives from the Uttarakhand State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that Project Proponent needs to implement the Action Plan and the Implementation Report has to be submitted to the Regional Office of the MoEFCC every six months.

The cost of the Project is Rs. 13.50 Lakhs. The Proponent has earmarked Rs. 4.0 Lakhs towards Environmental Protection Measures and Rs. 7.81 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 1.0 lakh per annum have been earmarked towards CSR activities for next five years of mining operation. 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, Bajri and Boulder (Minor Mineral) with proposed production capacity of **1,50,000 TPA (ROM)**.

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) 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 1.5 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.

(2.7). White Clay Mining Project of M/s Tahla Ram & Sons located in Village Mudh & Kotri, Tehsil Kolayat, District Bikaner, Rajasthan – Amendment in EC.

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

(2.8). Limestone Mine with Production Capacity of 3.3 million TPA (ROM) by M/s UltraTech Cement Ltd., located at Village(s) Mohrai, Dagla, Asarlai, Tunkara & Nimbera Khurd in Tehsil-Jaitaran and Village-Meshia in Tehsil-Raipur, District- Pali, Rajasthan (689.76 ha) (Consultant : J. M. EnviroNet Pvt. Ltd.) -Amendment in Environmental Clearance

The proposal of M/s UltraTech Cement Ltd. is for amendment in EC No. J-11015/281/2011-IA.II (M) dated 02.01.2014 w.r.t. reduction of lease area from 755.10ha to 689.76 ha as the Govt. of Rajasthan, vide letter no. P.16 (3) Khan/Group-2/2000 dated 21.04.2014, has excluded 689.76 ha of grazing land from the earlier lease granted to the Project Proponent.

The project proponent vide letter dated 27.08.2015 has requested the amendment in EC and proposed the following amendments:-

S. No.	Reference in EC	Particular	Justification provided by the PP for Amendments	Observation and Recommendations of the EAC
1.	Specific Condition No. A. (ii)	"The mining activity will not commence unless the NOC from the Gram Panchayat for grazing land has been obtained."	Exemption has been sought from this condition as LoI for the revised ML area of 689.76 ha after reduction of grazing land, has been granted by State Government of Rajasthan, vide letter no. P-16/(3)Mine/Group-2/2000, dated 21.04.2014.	The Committee recommended the deletion of this condition as the State Government of Rajasthan has already deleted the grazing land from the revised lease.
2.	Para 3	"The Mine Lease area is 755.10 ha, out of which 345.30 ha is Waste land, 59.77 ha is Grazing Land, 50.0 ha is Agricultural Land & 300.03 ha is Un-	This may be amended as "The Mine lease area is 689.76 ha, out of which 343.029 ha is Waste Land, 50.0 ha is Agricultural Land & 296.731 ha is un-irrigated land. No Forest Land & no Grazing land	The Committee accepted the request of Project Proponent and recommended for amendment of

		<p>irrigated land. No Forest Land is involved. The Mining Plan has been approved by IBM Vide Letter no. 584(4)(3)(1257)/2012 dated 19.03.2013. Proponent reported that 20.00 ha for road, 101.70 ha for Green belt development & 337.85 ha area will be the undisturbed area.</p>	<p>is involved. The Modified Mining Plan has been approved by IBM vide Letter no. 584(4)(3)(1461)/20124 RCOM/AJMER/6175 dated 22.09.2014. Proponent reported that 15.15 ha for road, 140.0 ha for Green belt & plantation and 363.78 ha area will be undisturbed area "</p>	<p>para 3 of the EC.</p>
3	Para 4, Line 13	<p>"Proponent informed that at the end of life of mine 16.32 million m³ waste will be generated, out of which 1.04 million m³ is OB and 15.28 million m³ is waste rejects. The same will be utilized for back filling of mined out area."</p>	<p>Due to reduction in M.L Area, reserves & waste generation quantity has also been revised. This may be amended as: "Proponent informed that at the end of life of mine 14.53 million m³ waste will be generated, out of which 0.76 million m³ is OB and 13.77 million m³ is waste rejects. The same will be utilized for back filling of mined out area."</p>	<p>The Committee accepted the request of Project Proponent and recommended for amendment of para 4, lines 13 of the EC.</p>
4	Para 6, Line 1	<p>"The Latitude & Longitude of the mine lease is 26°10'20.33" N to 26°14'45.53" N</p>	<p>This may be amended as "The Latitude & Longitude of the Mining Lease is 26°</p>	<p>The Committee accepted the request of Project</p>

		and 74°03'48.29" E to 74°06'42.04" E respectively"	10' 18.07" N to 26° 14' 44.37" N and 74° 03' 52.99" E to 74° 06 '32.86" E respectively".	Proponent and recommended for amendment of para 6, line 1 of the EC.
5	Para 10, Line 6	"the Mine Lease area of 755.10 ha"	"the Mine Lease area of 689.76 ha"	The Committee accepted the request of Project Proponent and recommended for amendment of para 10, lines 6 of the EC.

The Committee noted the Ministry has accorded the Environmental Clearance vide No. J-11015/281/2011-IA.II (M) dated 02.01.2014 for Limestone Mine with Production Capacity of 3.3 million TPA (ROM), located at Village(s) Mohrai, Dagla, Asarlai, Tunkara & Nimbera Khurd in Tehsil-Jaitaran and Village-Meshia in Tehsil-Raipur, District- Pali, Rajasthan in the mine lease area 755.10 ha. Further, the approval of Modified Mining Plan for revised ML area of 689.76 ha has been obtained from IBM vide letter no. 584(4)(3)(1461)/20124-RCOM/AJMER/6175 dated 22.09.2014. Ground water withdrawal permission has been obtained from CGWA for 400 KLD vide letter no. 21-4(600)/WR/CGWA/2014-1675 dated 15.10.2014.

The Committee after detailed deliberations **recommended** the Proposal for amendments in EC dated 02.01.2014 w.r.t. above mentioned clause / para.

(2.9). Enhancement of Limestone production in Captive Limestone mine from 17.2 million TPA to 19.6 million TPA of limestone by M/s Shree Cement Ltd., located at village(s) Nimbeti and Jawangarh, Tehsil-Jaitaran, District-Pali, Rajasthan (750ha)- Amendment in EC vide No. J-11015/327/2012 IA.II (M) dated 21.07.2015

The Proposal of M/s Shree Cement Ltd. is for amendment in EC vide No. J-11015/327/2012 IA.II (M) dated 21.07.2015. The Ministry has accorded the EC on 21.07.2015 for enhancement of Limestone production in Captive

Limestone mine from 17.2 million TPA to 19.6 million TPA (ROM) of limestone. The mine lease area is located at village(s) Nimbeti and Jawangarh, Tehsil-Jaitaran, District-Pali, Rajasthan in MLA of 750ha. The Latitudes and Longitudes of the mine lease area are 26°15' 34" to 26°18' 54" N and 74°10' 59" to 74°11' 26" E respectively on toposheet no. 45 J/3, J/4, J/7 and J/8.

The Project Proponent vide letter dated 28.07.2015 requested the amendment in EC proposed the following amendments:-

S. No.	Reference in EC	Particular	Justification provided by the PP for Amendments	Observation and Recommendations of the EAC
1.	-	That the EC is for the production of 19.6 Million TPA (ROM) of limestone.	As per the proposal / mining plan, total limestone production will be of 19.6 Million TPA of limestone. The over burden will be extra / separate.	The Committee accepted the request of Project Proponent and recommended for amendment w.r.t. production capacity of 19.6 Million TPA of Limestone in place of 19.6 Million TPA (ROM) of Limestone.
2.	Page number, 2, para 4	That the limestone is transported from the mine to crusher and sizing plant which is 800 meter from the mine.	As per the proposal / mining plan, "limestone is transported from the working faces of mine to crusher, which is situated in mining lease area. From crusher, limestone is transported by existing conveyor belts, connecting crusher to the stack yard of about 800 m	The Committee accepted the request of Project Proponent and recommended for amendment w.r.t. crusher distance.

			length".	
3.	Page number, 6, specific condition no.- xvi	That the productivity of agricultural crops is not affected due to mining operation. Crop liability Insurance policy has to be taken by the PP as a precaution to compensate for any crop loss. The impact zone shall be 5 km from the boundary of mine lease area for such insurance policy.	Project Proponent has informed to the Committee as follows: - <ol style="list-style-type: none"> 1. As per the EIA/EMP, the maximum incremental GLC of PM10 and PM2.5 is 5.0 µg/m³ and 2.9 µg/m³ respectively falling in the mine lease area, hence, there is no effect on production of agricultural crop. 2. Area nearby the mine is single cropped and crop production is mainly in rainy season. In rainy season, effect of emission is considered on lower side. 3. Effect on crop production may be due to adverse climatic conditions such as low rain, heavy rain, hailstorm and locust etc. 4. Statutory payments on nimbeti limestone mines are Royalty, 	The Committee accepted the request of Project Proponent and recommended for amendment to delete the condition and District Mineral Fund will be utilized for the development of nearby area.

Particulars	Rs./ton of L/S
Royalty	80.00
District Mineral Fund (30% of royalty)	24.00
National Mineral Exploration Fund (2% of royalty)	1.60
Labour Welfare Cess	1.00
Rajasthan Environment & Health Cess	10.00
Total	116.60

5. District Mineral Fund i.e. 30% of royalty is being/will be paid by the company to the Govt., with effect of 12th January 2015, which will be utilized for the development of nearby area. At full production capacity, amount would be Rs. 47.04 crores per annum.

6. The purpose of above fund is for the

			<p>development of various CSR activities in nearby area such as agriculture, livestock, education, women empowerment, skill development and infrastructures.</p> <p>Regarding the "insurance of the farmer and his family, crop etc." MoEF&CC/Committee may kindly consider to direct/recommend to all State Govt. to utilize the DMF for this purpose also. In view of the above, PP requested to remove this condition.</p>	
4.	Page number, 6, specific condition no.- xix	CSR cost up to 2 % of Financial turn over	As per section 135 of the Company Act, the CSR cost should be 2 % of average net profit of last three years. Hence CSR expenses should be as per the comply Act /Rule.	The Committee accepted the request of Project Proponent and recommended for amendment of the condition to " As per section 135 of the Company Act, the CSR cost should be 2 % of average net profit of last three years.

				Hence CSR expenses should be as per the Company Act /Rule”.
5.	Page number, 8, general condition no.- vii	That the maximum height of the dumps shall not be exceed 8 meter and width 20meter.”	As per the approved mining plan submitted to MoEFCC, that maximum height of dump will be 60 meter with surface area of 1350 meter x 600 meter.	The Committee accepted the request of Project Proponent and recommended for amendment of the condition to “That maximum height of dump will be 60 meter with surface area of 1350 meter x 600 meter as per approved Mine Plan”.
6.	Page no.5, Specific condition no. (ix)	That the mineral transportation shall be carried out through covered trucks only.	The moist material shall be transported.	The Committee has not accepted the request of Project Proponent and suggested that “the mineral transportation shall be carried out through covered trucks with tarpaulin etc. only.”
7.	Page no. 6, Specific	That the main haulage road in the mine should	Water shall be sprayed by water tanker on haulage roads	The Committee accepted the request of

	condition no. (xv)	be provided with permanent water sprinklers.”		Project Proponent and recommended for amendment of the condition to “That Water shall be sprayed by water tankers/ permanent water sprinklers on haulage roads.”
8.	Page 8, General condition no. (vi)	That the entire excavated area shall be backfilled and afforested.	As per approved mining plan, the total excavated area will be 450 ha, out of which 250 ha will be partially backfilled and rest 190 ha will be converted into water reservoir.	The Committee accepted the request of Project Proponent and recommended for amendment of the condition to “ That as per approved mining plan, the total excavated area will be 450 ha, out of which 250 ha will be partially backfilled and rest 190 ha will be converted into water reservoir”.

The Committee after detailed deliberations **recommended** the Proposal for amendments in EC **No. J-11015/327/2012 IA.II (M) dated 21.07.2015**w.r.t. above mentioned clause/ paras.

(2.10). Salaiya Ochre, White Earth and Bauxite Mine with proposed production capacity of 40,000 TPA (ROM) by M/s Madhya Pradesh Mineral Supply Company, located at Village-Salaiya, Tehsil-Semaria, District- Rewa, Madhya Pradesh (MLA 16.18 ha) (Consultant: ENVIRTA Sustainable Solutions India Pvt. Ltd.) –TOR

The Proposal of M/s Madhya Pradesh Minerals Supply Company is for Mining of Ochre, White Earth and Bauxite Mine in Salaiya with proposed production capacity of 40,000 TPA (ROM). The mine is located at Village – Salaiya, Tehsil- Semaria, District-Rewa, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at Interstate Boundary between Uttar Pradesh and Madhya Pradesh at 3.7 Km and the Ranipur Wildlife Sanctuary at 3.7 Km in NE Direction. NBWL clearance is mandatory for this project. The Geographical Co-ordinates for the mine site are Latitudes- : 24⁰51' 25.2" to 24⁰51' 42.3" North & Longitudes- : 81⁰06' 53.4" to 81⁰07'14.8" East. The mine site falls on Survey of India Toposheet no.- 63H/1.

The total lease area is 16.18 ha. The mining lease was granted for 20 years period w.e.f. 08.11.1982 to 07.11.2002 vide State Govt. letter no 3/353/82/12 dated 23-10-1982. The 1st Renewal of Mining Lease was granted for 20 years period w.e.f. 8.11.2002 to 07.11.2022 vide State Government of Madhya Pradesh vide order No.- 3-80/2001/12-2 Dated 14.12.2001. The Project Proponent reported that no National Park is located at a distance of 10 Km from the mine blocks. The nearest water bodies are Jagmohra Nalla-3.8 in NE, Jhala Nalla – 1.1 km SW and Khurwa Nalla – 4.4 Km in South.

The operation will be opencast other than fully mechanized method. The bench height is proposed 3 meters and width will be 3.0 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 transportation and overburden dumping is proposed by tippers and tractors. The minerals will be collected in its existing form. The ultimate depth of mining is up to 14 m at top of hill and 6m BGL. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 11 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.

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**.

(2.11). Udali Bauxite, Ochre and White Earth Mine with proposed production capacity of 19,964 TPA (ROM) by M/s Madhya Pradesh Mineral Supply Company, located at Village – Udali Tehsil – Majhgawan, District-Satna, Madhya Pradesh (MLA – 3.723 ha) (Consultant: ENVIRTA Sustainable Solutions India Pvt Ltd.) TOR

The Proposal of M/s Madhya Pradesh Minerals Supply Company is for Mining of Bauxite, Ochre and White Earth Mine in Udali with proposed production capacity of 19,964 TPA (ROM). The mine is located at Village – Udali, Tehsil- Majhgawan, District-Satna, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at Interstate Boundary between Uttar Pradesh and Madhya Pradesh at 3.25 Km and Ranipur Wildlife Sanctuary at 3.25 Km in NE Direction. Combined area of other mines is 19.20ha within 500m radius of project site which is greater than 5ha. NBWL clearance is mandatory for this project. The Geographical Co- ordinates for the mine site are Latitudes- : 24°53'43.3" to 24°53'54.5" North & Longitudes- : 81°01'04.1" to 81°01'11.3" East. The mine site falls on Survey of India Toposheet no.- 63H/1.

The total lease area is 3.723 ha. The mining lease area was previously sanctioned for 10 years period w.e.f. 06.10.1982 to 05.10.1992. The lease area was initially renewed for 10 years period vide letter No.- 3-2/93/12/2 dated 22.04.1993. The same was extended to 20 years by State Government of Madhya Pradesh; vide letter No. 3-2/93/12/2, dated 26.07.2001. Hence the renewed period of mining lease is for 20 years w.e.f. 06.10.1992 to 05.10.2012. The Project Proponent reported that no National Park is located at a distance of 10 Km from the mine blocks. There is Amua Protected Forest 3.0 Km in NE Direction within the Mine Lease Area. The nearest water bodies are Mau Nala 7.4 Km SW, Kakarbal Nala 6.1 Km NE and Water tank 1.6 Km SW.

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 transportation and overburden dumping is proposed by tippers and tractors. The minerals will be collected in its existing form. The ultimate depth of mining is up to 6m BGL. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 7.0 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.

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**.

(2.12). Kumhra (Judwani) Ochre, White Earth, Bauxite and Laterite Mine with proposed production capacity of 22,642 TPA (ROM) by M/s Madhya Pradesh Minerals Supply Company, located at Village – Kumhra (Judwani), Tehsil – Semaria, District-Rewa, Madhya Pradesh (MLA– 15.78ha) (Consultant: ENVIRTA Sustainable Solutions India Pvt. Ltd.) - TOR

The Proposal of M/s Madhya Pradesh Minerals Supply Company is for Mining of Ochre, White Earth, Bauxite and Laterite Mine in Kumhra (Judwani) with proposed production capacity of 22642 TPA (ROM) (Bauxite = 16,229 TPA and Ochre = 6413 TPA). The mine is located at Village Kumhra (Judwani), Tehsil- Semaria, District-Rewa, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at Interstate Boundary between Uttar Pradesh and Madhya Pradesh at 3.0 Km and Ranipur Wildlife Sanctuary at 3.0 Km in North Direction. NBWL clearance is mandatory for this project. The Geographical Co- ordinates for the mine site are Latitude- : 24⁰51' 32.2" to 24⁰51' 51.3" North & Longitude- : 81⁰07'25.1" to 81⁰07' 41.9" East. The mine site falls on Survey of India Toposheet no.- 63H/1.

years period w.e.f. 08.11.1982 to 07.11.2002. The 1st Renewal of Mining Lease was granted for 20 years period w.e.f. 8.11.2002 to 07.11.2022. The Project Proponent reported that no National Park is located at a distance of 10 Km from the mine blocks. There is Open Mix Jungle 1.9 km in NE Direction, Devri Rajauhan 3.7 km in NE Direction, Goda Pahar RF 5.0 km in NE Direction, Girwain RF 3.2 km in SE Direction, Benda RF 6.8 Km in South Direction within the ML Areas. The nearest water bodies are Jagmohra Nalla – 3.9 in NE Direction, Jhala Nalla – 1.2 km SW Direction, Khurwa Nalla – 4.6 K in South Direction.

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 transportation and overburden dumping is proposed by tippers and tractors. The minerals will be collected in its existing form. The ultimate depth of mining is up to 6m BGL. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 10.0 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.

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**.

(2.13). Mungwari Bauxite, Laterite, Ochre and White Clay Mine with proposed production capacity of 42,612 TPA (ROM) by lessee M/s Shri Ram Chandra Bansal, located at village Mungwari, Tehsil Majhgawan, District - Satna, Madhya Pradesh (4.95ha) (Consultant: ENVIRTA Sustainable Solutions India Pvt Ltd.)- TOR.

The Proposal of Shri Ram Chandra Bansal is for Mining of Bauxite, Laterite, Ochre and White Clay Mine in Mungwari with proposed production

capacity of 42,612 TPA (ROM). The mine is located at Village Mungwari, Tehsil- Majhgawan, District-Satna, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at Interstate Boundary between Uttar Pradesh and Madhya Pradesh at 3.3 Km and Ranipur Wildlife Sanctuary at 3.3 Km. Combined area of other mines is 19.20 ha within 500m radius of project site which is greater than 5 ha. NBWL clearance is mandatory for this project. The Geographical Co- ordinates for the mine site are Latitudes- : 24°53'40.5" to 24°53'53.3" North and Longitudes- : 81°01'7.8" to 81°01'17.7" East. The mine site falls on Survey of India Toposheet no.- 63H/1.

The total lease area is 4.95 ha. The Mine lease area was previously sanctioned under mining lease for 20 years period i.e. 17.07.1982 to 16.07.2002. The Mine lease area has been renewed for 20 years period upto 16.07.2022. The Project Proponent reported that no National Park is located at a distance of 10 Km from the mine blocks. There is Amua Protected Forest 3 Km in NE Direction within the ML Areas. The nearest water bodies are Mau Nala – 7.4 Km SW, Kakarbal Nala – 6.1 Km NE, Water tank – 1.6 Km SW.

The operation will be opencast other than fully mechanized method. The bench height is proposed 3 meters and width will be 6.0 to 15.0 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 transportation and overburden dumping is proposed by tippers and tractors. The minerals will be collected in its existing form. No impoundment or damming is involved in the project. The ultimate depth of mining is up to 6m BGL. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 7.0 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.

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**.

(2.14). Kathara Kothar Laterite and Bauxite Mine with proposed production capacity of 10,000 TPA (ROM) by M/s Shri Rajendra Kumar Aggarwal, located at village Kathara Kothar, Tehsil - Raghuraj Nagar, District – Satna, Madhya Pradesh (MLA 0.97 ha)-(Consultant: ENVIRTA Sustainable Solutions India Pvt. Ltd.)- TOR

The Proposal of Lessee Shri Rajendra Kumar Aggarwalis for Mining of Laterite & Bauxite Mine in Kathara Kothar with proposed production capacity of 10,000 TPA (ROM) [Laterite – 5000 TPA (ROM) and Bauxite – 5000 TPA (ROM)]. The mine is located at Village Kathara Kothar, Tehsil- Raghuraj Nagar, District-Satna, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at Interstate Boundary between Uttar Pradesh and Madhya Pradesh at 4.3 Km and Ranipur Wildlife Sanctuary at 4.3 Km in North Direction. NBWL clearance is mandatory for this project. The Geographical Co-ordinates for the mine site are Latitude- : 24⁰53' 03.5" to 24⁰53'07.0" North & Longitude- : 80⁰58'56.0" to 80⁰58'59.8" East. The mine site falls on Survey of India Toposheet no.- 63D/13.

The total lease area is 0.97 ha. The mine lease area was sanctioned under mining lease for 20 years period i.e. w.e.f. 29.4.2000 to 28.04.2020. The Original Lease granted to Shri Shabbir Ahmed Siddqui of Jaitwara vide M.R.D. State Govt. of M.P. letter No.-F-3-42/96/12/2, Dated-18.09.2002. After that Lease transferred to Shri Rajendra Kr. Agarwal. Form "O" was executed on 23.07.2004. Mineral Bauxite was added in the mining lease vide State Govt. letter No.-F3-42/96/12/2, Dated-11.12.2003. The supplementary agreement was signed on 03.08.2004. The Project Proponent reported that no National Park is located at a distance of 10 Km from the mine blocks. There is Kathara PF 1.3 km North Direction, Amua PF 1.3 km NW Direction, Digarahat PF – 6.6 km in NW Direction within the ML Areas. The nearest water bodies are Kakarbal Nalla-5.8 in NW Direction, Sitwa Nalla – 7.9 km SW.

The operation will be opencast other than fully mechanized method. The bench height is proposed 3 meters and width will be 3.0 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 transportation and overburden dumping is proposed by tippers & tractors. The minerals will be collected in its existing form. The ultimate depth of mining is up to 6m BGL. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the

monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 6.0 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 25 Lakh. 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**.

(2.15). Ochre, White Earth and Bauxite Mine with proposed production capacity of 23,780 TPA (ROM) by M/s Rakesh Agencies, located at village Chitti-Jaggir, Tehsil – Semaria, District- Rewa, Madhya Pradesh (12.94ha) (Consultant: ENVIRTA Sustainable Solutions India Pvt. Ltd.) TOR

The Proposal of M/s Rakesh Agencies is for Mining of Ochre, White Earth and Bauxite Mine in Mungwari with proposed production capacity of 23,780 TPA (ROM) [Bauxite – 8780 TPA (ROM) and Ochre – 15000 TPA(ROM)]. The mine is located at Village Chitti-Jaggir, Tehsil- Semaria, District-Rewa, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at Interstate Boundary between Uttar Pradesh and Madhya Pradesh at 3.5 Km and Ranipur Wildlife Sanctuary at 3.5 Km in NE Direction. Combined area of other mines is 71.41 ha within 500m radius of project site is > 5 ha. NBWL clearance is mandatory for this project. The Geographical Co- ordinates for the mine site are Latitude- : 24⁰51' 16.2" to 24⁰51' 35.0" North and Longitude- : 81⁰07'16.8" to 81⁰07' 32.3" East. The mine site falls on Survey of India Toposheet no.- 63H/1.

The total lease area is 12.94ha. The mining lease was granted for 20 years period w.e.f. 08.11.1982 to 07.11.2002. The 1st Renewal of Mining Lease was granted for 20 years period w.e.f. 8.11.2002 to 07.11.2022. The Project Proponent reported that no National Park is located at a distance of 10 Km from the mine blocks. There is Open Mix Jungle 1.8 km in NE Direction, Devri Rajauhan 3.6 km in NE Direction, Goda Pahar RF 4.9 km in NE Direction, Girwain RF 3.1 km in SE Direction, Benda RF 6.7 Km in South Direction within the ML Areas. The nearest water bodies are Jagmohra Nalla-5.8 in NE

Direction, Jhala Nalla – 1.7 km SW Direction, Khurwa Nalla – 6.9 K in South Direction.

The operation will be opencast other than fully mechanized method. The bench height is proposed 3 meters and width will be 6.0 to 15.0 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 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 ultimate depth of mining is up to 6m BGL. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 10.0 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.

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**.

(2.16). Kathara Kothar Bauxite and Laterite Mine with proposed production capacity of 10,000 TPA (ROM) by M/s Madhya Pradesh Minerals Supply Company, located at village - Kathara Kothar, Tehsil - Majhgawan (Raghuraj Nagar), District - Satna, Madhya Pradesh (3.197 Ha)(Consultant: ENVIRTA Sustainable Solutions India Pvt. Ltd.) – TOR.

The Proposal of M/s Madhya Pradesh Minerals Supply is for Mining of Bauxite and Laterite Mine in Kathara Kothar with proposed production capacity of 10,000 TPA (ROM) (Laterite-3500 TPA (ROM) and Bauxite-6500 TPA (ROM)). The mine is located at Village Kathara Kothar, Tehsil- Majhgawan (Raghuraj Nagar), District-Satna, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at Interstate Boundary between Uttar Pradesh and Madhya Pradesh at 4.80 Km and Ranipur Wildlife Sanctuary at 4.80 Km in North Direction. Combined area of other mines located within

500m radius of project site is > 5ha. NBWL clearance is mandatory for this project. The Geographical Co- ordinates for the mine site are Latitude- : 24°52' 16.5" to 24°52' 27.4" North & Longitude- : 80°57' 39.1" to 80°57' 46.4" East. The mine site falls on Survey of India Toposheet no.- 63D/13.

The total lease area is 3.197 ha. The mining lease has been sanctioned for 20 years period for Bauxite w.e.f. 18.01.1986 to 17.01.2006 vide State Government order No.- 3-252/85/12/7 Dated 16.02.1985. The Project Proponent reported that no National Park is located at a distance of 10 Km from the mine blocks. There is Kathara PF 1.3 km North Direction, Protected Forest – 50m East Direction, Amua PF 1.3 km NW Direction, Digarahat PF – 6.6 km in NW Direction within the ML Areas. The nearest water bodies are Kakarbal Nalla-5.8 in NW and Sitawa Nalla – 7.9 km SW Direction.

The operation will be opencast other than fully mechanized method. The bench height is proposed 3 meters and width will be 3.0 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 transportation and overburden dumping is proposed by tippers & tractors. The minerals will be collected in its existing form. The ultimate depth of mining is up to 6m BGL. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 6.0 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.

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**.

(2.17). Mining of River Bed Material with proposed production capacity of 7,67,987 TPA (ROM) by M/s Dhyan Singh, located at Village Mai Chak, Tehsil - Sumwan, District- Kathua, Jammu & Kashmir (46.37ha) (Consultant: ENVIRTA Sustainable Solutions India Pvt. Ltd.) TOR.

The Proposal of Sh. Dhyan Singh S/o Shri Harpal Singhis for Mining of River bed material in Mai Chak with proposed production capacity of 7,67,987 TPA (ROM). The mine is located at Village Mai Chak, Tehsil- Sumwan, District- Kathua, Jammu & Kashmir. It is a Category 'B' Project and being considered in the Ministry as the tenure of SEIAA, Jammu & Kashmir has expired. The Geographical Co- ordinates for the mine site are Latitudes- : 32°25' 01" to 32°25' 41" North & Longitudes- : 75 ° 24' 33" to 75 o 24' 35" East. The mine site falls on Survey of India Toposheet no.- 43P/7.

The total lease area is 46.37ha. Letter of Intent has been issued by the Directorate of Mines & Geology, Srinagar, Govt. of Jammu & Kashmir, vide letter no. MCC/DGM/MML/AF-1/14/289, Dated 13-11-2014. The Project Proponent reported that no National Park is located at a distance of 10 Km from the mine blocks. There is Ujh RF (0.8 Km towards West), Behari RF (8.1 Km towards NW), Amala RF (6.6 Km towards NW), Jasrota RF (3.9 Km towards North), Jasogarh Budhi RF (5.9 Km towards NE) within the ML Areas. Project site lies on Ujh River. The nearest water bodies are Basera Nalla in 1.12 km southwest, Shap Nalla in 1.72 km west, Kathua Canal in 4.3 km SE Direction.

The operation will be opencast semi mechanized method. All operation of mining i.e. excavation, sorting, sizing and loading will be done by manual means. No drilling/blasting is needed. 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 ultimate depth of mining is up to 3m BGL. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 16.0 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 75 Lakhs. There is no Court case/ litigation pending against the project.

The Project Proponent mentioned that they had submitted the application for TOR in the month of March 2015 and started collection of base line data since 1st March 2015 and requested to consider the baseline data of summer season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

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

(2.18). Mining of River Bed Material with proposed production capacity of 8,25,300 TPA (ROM) by Lessee Shri Dhyan Singh, located at Village- Mai Chak, Tehsil Kathua, District- Kathua, Jammu & Kashmir (49.68 ha) (Consultant: ENVIRTA Sustainable Solutions India Pvt. Ltd.) TOR

The Proposal of Shri Dhyan Singh S/o Shri Harpal Singh is for Mining of River bed material in Mai Chak with proposed production capacity of 8,25,300 TPA (ROM). The mine is located at Village Mai Chak, Tehsil- Kathua, District- Kathua, Jammu & Kashmir. It is a Category 'B' Project and being considered in the Ministry as the tenure of SEIAA, Jammu & Kashmir has expired. The Geographical Co- ordinates for the mine site are Latitude- : 32° 23'55"- to 32° 24' 39" North & Longitude- : 75° 23' 58" to 75° 24' 20" East. The mine site falls on Survey of India Toposheet no.- 43P/7.

The total lease area is 49.68 ha. Letter of Intent has been issued by the Directorate of Mines & Geology, Srinagar, Govt. of Jammu & Kashmir, vide letter no. MCC/DGM/MML/AF-1/14/290 Dated 13-11-2014. The Project Proponent reported that no National Park is located at a distance of 10 Km from the mine blocks. There is Ujh RF (1.0 Km towards NorthWest), Behari RF (9.3 Km towards NW), Amala RF (8.0 Km towards NW), Jasrota RF (5.9 Km towards North), Jasogarh Budhi RF (7.5 Km towards NE) within the ML Areas. Project site lies on Ujh River. The nearest water bodies are Basera Nalla in 0.32 km southwest, Shap Nalla in 0.92 km west and Kathua Canal in 3.5 km SE Direction.

The operation will be opencast semi mechanized method. All operation of mining i.e. excavation, sorting, sizing and loading will be done by manual means. No drilling/blasting is needed. The ultimate depth of mining is up to 3m BGL. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 16.0 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 75 Lakhs. There is no Court case/ litigation pending against the project.

The Project Proponent mentioned that they had submitted the application for TOR in the month of March 2015 and started collection of base line data since 1st March 2015 and requested to consider the baseline data of summer season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

(2.19). Mahed Granite Deposit with proposed production capacity of 6000 Cubic Mt. per year by M/s Ritesh Tradefin Ltd., located at Village Mahed, Tehsil- Nowgoung, District- Chhatarpur, Madhya Pradesh (MLA 14.999 ha) (Consultant: ENVIRTA Sustainable Solutions India Pvt Ltd.) – TOR.

The Proposal of M/S Ritesh Tradefin Ltd is for Mining of Stone Quarry (for making gitti by mechanical crushing) in Mahed with proposed production capacity of 6000 Cubic Mt. per year. The mine is located at Village - Mahed, Tehsil- Nowgoung, District-Chhatarpur, Madhya Pradesh. It is a Category 'A' project as the mine lease area is located at Interstate Boundary between Uttar Pradesh and Madhya Pradesh at 1.01 Km. The Geographical Co- ordinates for the mine site are Latitudes- : 25⁰15'0.2" to 25⁰15'9.1"North and Longitudes- : 79⁰24'2.3" to 79⁰24'22.6"East. The mine site falls on Survey of India Toposheet no.- 540/7.

The total lease area is 14.999 ha. The Project Proponent reported that no eco-sensitive area including National Park, Wild Life Sanctuary, Tiger Reserves, Bio reserves etc. are located at a distance of 10 Km from the mine blocks. There is no Forest Land within the ML Areas. The quarry lease has been sanctioned by the State Government of Madhya Pradesh for 20 years period vide order No. -17392/khanij/S.N.136/1196/DGM dated 20-09-2013. In accordance with, The Mines and Minerals (Development and Regulation) Amendment Act 2015 the lease period is deemed to be extended for period up

to 20.09.2043.

The operation will be opencast other than fully mechanized method. The bench height is proposed 6 meters and width will be 6 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. The transportation and overburden dumping is proposed by tippers & tractors. All operation of mining such as development, winning of ore and loading will be carried out by mechanized means. 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 15.0 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 1.50 Crore. 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**.

(2.20). Sindesar Khurd underground Mine with enhancement of production capacity from 2.0 million TPA to 3.75 million TPA (ROM) of Lead-Zinc ore and expansion of Ore beneficiation from 2.0 million TPA to 4.25 million TPA (ROM) by M/s Hindustan Zinc Limited, located at village Sindesar Khurd, Tehsil Relmagra District-Rajsamand, Rajasthan (199.84ha)(Consultant: ERM India Pvt. Ltd.)-Consideration of EC

The proposal of M/s Hindustan Zinc Limited is for Sindesar Khurd underground mine with enhancement of production capacity from 2.0 million TPA to 3.75 million TPA (ROM) of Lead-Zinc ore and expansion of Ore beneficiation from 2.0 million TPA to 4.25 million TPA (ROM). The mine lease is located near village Sindesar Khurd, Tehsil Relmagra and District Rajsamand, Rajasthan. The latitudes and longitudes of the mine lease are 24° 59'N and 25° 01' N , 74° 09'E and 74° 10' E. respectively on the Survey of India topo sheet no. 45 L/1 and 45 K/4.

The Proposal for TOR was considered by the Expert Appraisal Committee in its meeting held during February 22-24, 2014 to determine the Terms of Reference (ToR) for undertaking the detailed EIA study. The ToR was issued by MoEFCC vide letter no. J-11015/10/2014-IA.II (M), dated 1st April, 2014. Project Proponent has submitted EIA/EMP report online to the Ministry for seeking Environment clearance.

The Committee noted that the Ministry has earlier accorded the Environmental Clearance vide letter no. J-11015/1182/2007-IA.II(M), dated 10th August, 2009. The Regional Office of the Ministry located at the Lucknow has submitted the certified compliance report vide dated 12.08.2015. The Committee deliberated the compliance of earlier EC conditions.

The total mine lease area of the project is 199.8425ha, out of which 39.0ha is agricultural land, 6.5ha grazing land, 5.5ha is settlement and rest Government land. The mine lease number is ML-7/95 and valid till 19.03.2029. No forest land is involved. It has been proposed that after expansion an area of 26ha is kept for beneficiation plant, 10 ha for ore stock yard, 4ha for concentrate yard, 8ha for waste dump, 26ha for utilities, 50ha for plantation, 24.84ha is remaining area. The Banas River, Non-perennial River flows at a distance of 4.4KM from the mine lease boundary.

Mining Scheme was approved on by IBM vide letter No. 682(23)(624)/2008-II- MCCM (N) - UDAI dated 23.07.2013. The mine working will be underground mechanized method using blast hole stoping with backfilling. The targeting production capacity of the mine is 3.75 Million TPA (ROM) of Lead - Zinc ore and the life of the mine is 25 years. Approximately 1400TPD (511000 TPA) of concentrate will be transported through the road in covered trucks/dumpers. The separation of minerals (Galena and Sphalerite) carried out by physical process i.e. differential froth floatation. Tailing after dewatering is directly sent alongwith cement to underground to fill mine voids and the surplus tailing will be disposed in the tailing dam. The Beneficiation plant for Lead - Zinc ore will be expanded from 2 Million TPA to 4.25 Million TPA and the ore from Bamnia Kalan of 5 Lakhs TPA will also be treated in this plant. The concentrate will be transported through road and the proposed additional traffic is likely to be increased on the existing road network from SK mines to Dariba and then to Fatehnagar which is connecting the RJ SH-9 from the mine and based on the study conducted the same is found to be adequate. The concentrate will be transported through covered trucks/dumpers.

The Project Proponent reported that the paste fill plant first of its kind be set up for filling mine voids and the better utilization of the tailing compared to hydraulic filling. The Committee expressed its concern on the need of uninterrupted power requirement of such facilities and the Proponent

confirmed the installation of 5MW DG sets as part of emergency power back up and the power system available for ensuring uninterrupted power supply. The balance tailing will be pumped to the tailing dam which is 3KM away from the mine lease area and within the acquired land. The tailing dam will have an ultimate height of 34m and is sufficient for life of the mine.

Project Proponent has reported that no eco-sensitive zones like NationalPark/Wildlife Sanctuary/Biosphere Reserve/Tiger Reserve/Elephant Reserve/Reserve Forest etc. are reported to be located in the core and buffer zone of the mine. The Proponent informed that grazing land will not be disturbed for the expansion project as the requirement will be met through Government land. The State Government vide letter no. KHA AA - II / Raj/ CC-MAJOR/ML7/95/963, dated 01.12.2007 stating that the proposed mining lease area does not fall in the Aravalli Hills. The Project Proponent reported that there is Schedule -I species viz. Indian Peafowl, Indian Grey Hornbill, White eyed Buzzard, Black Shouldered Kite, Monitor Lizard and Indian Flap Shell Turtle in the study area for which Proponent has made Conservation Plan and the same is submitted for approval to PCCF (Wild Life), Jaipur.

The topography of the area is hilly at an elevation above the mean sea level ranging from 510m-540m. The present working is at a depth of 550 m and the maximum working depth of the mine will be 1400 m. The Proponent explained about the Shaft which has been sunk for ore and waste hauling from underground. Major quantity of the waste rock generated will be utilized in the height rising of the tailing dam and balance quantity will be disposed at designated waste dumps. The existing waste dump will be expanded from 3ha to 5ha area and will be increased up to a height of 60 m with 6 benches. Additionally another waste dump of 3ha with height of 28m having 4 benches is also proposed to handle the waste.

The Project Proponent reported that there are four first order streams which originate in the Mine lease area and they finally get connected to the Banas River. No modification or diversion in the existing natural drainage pattern at any stage is proposed. A report on Hydrology and Hydrogeology has been submitted in this regard. The status of ground water development in the core zone is reported to be 50.8%, which means it is in the safe zone. The water table is 15m below the ground level during post monsoon period. The Buffer zone is in over exploited category and hence measures of water recharge have been proposed as part of the project. The water requirement for the proposed expansion project is estimated 4000 m³ per day, and total of 12000 m³ per day which will be met from Matrikundia and STP water from Udaipur. NOC for 121 cum per day intersection of ground water will be obtained and application is already in process.No ground water abstraction is proposed.

The Project Proponent presented the Ventilation Plan in line with DGMS guidelines, provision of Personal Protective equipment's and necessary training and awareness programs for mine workers that will be undertaken. Occupational Health measures were also explained and the Committee was of the opinion of monitoring the specific impact of lead in blood. Committee was concerned about the impact of the pressure on ears as we go around and the proponent confirmed that at present working the impact is negligible. The Committee suggested for undergoing expert studies to ascertain the impact and implement suitable measures as part of occupational health program. The Project Proponent reported that the workers were provided Self Rescuer in addition to basic PPEs like gum boot, helmet with cap lamp, dust mask, goggles, ear plug etc. Refuge chamber is installed at strategic locations to work as assembly points underground to support workers in during emergency in underground mine.

The Project Proponent reported that the Central Institute of Mining and Fuel Research, Dhanbad has conducted Blasting design and pattern. The blasts are to be monitored regularly for recording ground vibration and noise. The Committee expressed the concern on the vibrations on the SK village and need to design blast suitably to ensure that the vibrations are minimal on the surface. Committee suggested that current monitoring should be continued and blasts should be designed suitably to keep the ground vibrations within the prescribed permissible limits. Committee suggested for using Non electric/electronic detonators for development and stop blasting in conventional method. Whenever required, the deck charging of holes to be practiced to ascertain the maximum charge per delay as per recommendations by the CIMFR.

The baseline data was generated for the summer season i.e. March 2014 to May 2014. All the parameters for water and soil quality were within permissible limits. The ambient air quality was also within permissible limits as this was underground mine and there were no significant emission sources near the site. The Committee deliberated the baseline data collected by the Project Proponent. The Committee is of the view that the Project Proponent shall install the online AAQ monitoring system and the monitored data shall display in front of the mine site.

The Public Hearing for the proposed expansion project was conducted on 15th July 2015 at Main gate, Sindesar Khurd Mine, Relmagra, Rajsamand Udaipur. The Public Hearing was presided over by Mr. Brijmohan Bairwa, Additional Collector. The representatives of Rajasthan State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter- alia, included that

priority to local people in employment, effective implementation of measures to control dust pollution, social and other village development activities. The Project Proponent reported the status of the village shifting and R&R related activities which have been raised in Public Hearing. The Proponent explained that they are working with villagers and GoR to expedite the case. The Proponent has also earmarked budget provision of Rs.60 Crores for R&R. It also recommended for utilization of the land for green belt post shifting of village. The Project Proponent informed about various Corporate Social Responsibilities under taken in Infrastructure development, Health, Hygiene and Water, Women Empowerment and rural lively hood in nearby villages.

Total Project cost of the expansion project is Rs. 2240 Crores and the capital cost for Environmental Protection measures is proposed as Rs. 218 Crores. Project Proponent has earmarked Rs. 60 Crores towards R&R Plan. Manpower requirement is about 1500. Project Proponent reported that there is no court case pending against the project.

The Committee deliberated on the information submitted by the Proponent and based on the presentation made and discussion above, the Committee **recommended** the proposal for Environmental Clearance **for enhancement of production from 2.0 Million TPA to 3.75 Million TPA (ROM) of Lead – Zinc Ore and beneficiation from 2.0 Million TPA to 4.25 Million TPA (ROM) (including 0.5 Million TPA from Bamnia Kalan).**

The Committee recommended **additional specific conditions** viz. (i) The Proponent should install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction. Online provisions of pH and turbidity meters at discharge points of STP and ETP and also at water storage ponds in the mining area may be made. Project Proponent should display the result digitally in front of the main Gate of the mine site; (ii) The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of dozer/compactors. The report on slope and stability monitoring should be sent to MoEF&CC and its Regional office every six-months; (iii) The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation has been followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adopted to that micro climate. This may be recommended to be studied by hiring Expert Ecology Group; (iv) There is need for regular monitoring of invertebrates and aquatic life of water bodies including the reservoir located close to the mining lease to establish that fish and other animals including the water is not contaminated

with heavy metal. There could be a research on "bio accumulation of heavy metals in invertebrates" to completely establish that there is no impact of mining; (v) A specialized Institution may be hired to carry out ecological survey on the plant species to evaluate their growth in terms of stunted, deformed and seed viability. The sensitive species and indicator species to heavy metal pollution may be screened out and plantation accordingly designed. Similarly, uptake of Zinc, Cadmium and lead etc. by crops and vegetables grown in the crop lands around the mining lease may be studied. Bottom sediment analysis of ponds, wells and Rivers to ascertain the level of accumulation of heavy metal may be done; (vi) The Proponent shall conduct an Occupational health study with respect to the pressure impact on ear drums as person goes underground and implement the recommendations;(vii) Project Proponent shall carry out vibration studies well before approaching any such habitats or other buildings to evaluate the zone of influence and impact of blasting on the neighborhood. Within 500 meters of such sites vulnerable to blasting vibrations, avoidance of use of explosives and adoption of alternative means of mineral extraction. A provision for monitoring of each blast should be made so that the impact of blasting on nearby habitation and dwelling units could be ascertained. The covenant of lease deed under Rule 31 of MCR 1960 provides that no mining operations shall be carried out within 50 meters of public works such as public roads and buildings or inhabited sites except with the prior permission from the Competent Authority; (viii) Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; (ix) The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (x) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical check-up once in six months and necessary medical care/preventive measures undertaken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers should also be adopted; and (xi) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing.

(2.21). Mining of Ochre, Bauxite and White Earth (Major Mineral) with proposed production capacity of 40,000 TPA (ROM) by Lessee Shri Jai Lal Bharat Lal, located at Village Kumhra (Judwani), District -Rewa,

Madhya Pradesh (10.73 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)-Consideration of EC.

The proposal of Lessee Shri Jai Lal Bharat Lal is for mining of Ochre, Bauxite and White Earth (Major Mineral) with proposed production capacity of 40,000 TPA (ROM). The mine is located at village Kumhra (Judwani), District-Rewa, Madhya Pradesh in the mine lease area of 10.730 ha. The Latitudes and Longitudes of the mine lease area lies between 24°51'32.2" to 24°51'52.8" N; and 81°07'25.1" to 81°07'24.3" E on Survey of India toposheet numbers 63/H 1. The Project is located in Seismic zone-III. It is a category 'A' project as the mine is located interstate boundary of Madhya Pradesh and Uttar Pradesh within 5 km distance from the mine site and also Ranipur Wildlife Sanctuary 3Km from the Mine lease area.

The proposal of TOR was considered by the Expert Appraisal Committee in its Meeting held during 21st – 23rd August 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF vide letter No. J-11015/197/2013-IA.II (M), dated 17.10.2013. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 10.73 ha which, is a Government land. No Forestland is involved. Mining lease was granted over an area of 10.73ha for a period of 10 years. The lease was initially renewed for 10 years period from 8.11.92 to 07.11.2002. Further, the State Government has extended the period of lease from 10 years to 20 years i.e. 8.11.1992 to 7.11.2012, vide order No.3-60/92/12/2 dated 26.07.2001. Application for 2nd renewal of the mining lease has been filed on 2.11.2011 by the lessee one year before the expiry of the mine lease which is under approval.

Mining is done by other than fully mechanized opencast method. Excavation will be carried out up to a maximum depth up to 10 meters. The Mining Plan has been approved by IBM vide letter no. MP/Rewa/Bauxite/R-10/13-14 dated 19.03.2014. Proponent reported that 7.80 ha area will be used for excavation, 7.80 ha of the fully excavated area will be rehabilitated by afforestation and 2.93 ha will be used for Green belt development. Anticipated life of mine is 17 years. Mineral will be transported through road.

The Project Proponent reported that the Ranipur Wildlife Sanctuary is located at 3Km from the Mine lease area. Accordingly the Project Proponent vide letter dated 26.10.2015 has applied for NBWL clearance to Wildlife Warden of the State Government. Project Proponent reported that there are four Schedule-I species namely Fishing cat, Sloth Bear, Python, and

Peafowl are reported in the study area. The Committee noted that the Project proponent has not prepared the Conservation Plan adequately along with the budgetary allocation to protect the Schedule species.

The baseline data was generated for the period during October 2013 to December 2013. All the parameters for water and air quality were within permissible limits. The Public Hearing for the proposed project was conducted on 12.10.2014 at 11:00 am at Government Primary School, Kumhra (Judwani), Rewa, Madhya Pradesh. The Public Hearing was presided over by representative of Collector, Rewa, Madhya Pradesh. The issues raised during the Public Hearing were also considered and discussed during the meeting. The Committee noted that the **Public Hearing was presided by the representative of District Collector however, the name and designation of the presiding officer was not mentioned in the Public Hearing proceeding therefore, it is not clear whether the Public Hearing was presided as per the EIA Notification, 2006 or not.** Further, the Project Proponent has not prepared the Action Plan along with budgetary provision on the issues raised during the Public Hearing. The Committee also noted that the Project Proponent in the serial No.48 of the questionnaires mentioned the name of presiding officer Mr. S. D. Valmiki. However, in the proceeding Mr. S. D. Valmiki is the Regional Officer of the MP Pollution Control Board.

The cost of the Project is Rs. 1 Crore. The Proponent has earmarked Rs. 7 Lakhs towards Environmental Protection Measures and Rs. 8.5 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 3 Lakhs have been earmarked towards CSR activities.

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

- (i) Project Proponent reported that there are four Schedule-I species namely Fishing cat, Sloth Bear, Python, and Peafowl are reported in the study area. The Committee noted that the Project proponent has not prepared the Conservation Plan adequately along with the budgetary allocation to protect the Schedule species.
- (ii) The Committee noted that the Public Hearing was presided by the representative of District Collector however, the name and designation of the presiding officer was not mentioned in the Public Hearing proceeding therefore, it is not clear whether the Public Hearing was presided. The Committee also noted that the Project Proponent in the serial No.48 of the questionnaires mentioned the name of presiding

officer is Mr. S. D. Valmiki. However, in the proceeding Mr. S. D. Valmiki is the Regional Officer of the MP Pollution Control Board. There is some ambiguities, needs to clarified by the State Pollution Control Board and confirm whether the Public Hearing conducting as per the provisions of the EIA Notification, 2006;

- (iii) The Committee observed that the Project Proponent operated the mine without NBWL Clearance from the Standing Committee of National Board for Wildlife;
- (iv) The Project Proponent has not prepared the Action Plan along with budgetary provision on the issues raised during the Public Hearing;
- (v) Status of mine lease renewal needs to be submitted; and
- (vi) Revised Questionnaire needs to be submitted.

(2.22). Sand Mining (Major Mineral) for the purpose of stowing in underground coal mines in the Riverbed of Damodar River with proposed production capacity of 1.5 Million Cubic Meters (ROM) per annum by M/s Eastern Coalfields Limited, located at Sanctoria, District(s)- Bankura, Burdwan and Purulia, West Bengal (MLA 86.58ha) (Consultant: Central Mine Planning & Design Institute Ltd.)- Consideration of EC

The proposal of M/s Eastern Coalfields Limited is for Sand Mining (Major Mineral) for the purpose of stowing in underground coal mines in the Riverbed of Damodar River with proposed production capacity of 1.5 Million Cubic Meters (ROM) per annum. The mine lease area is located in Gopalpur, Ardhagram, Gopalganj, Majit, Sahebdanga, Bhara, Anandpur, Ramprasadpur, Baska, Madanpur, Napur, Narayankuri, Sitalpur, Chinakuri and Parebelia Mouzas of Bankura, Burdwan and Purulia District(s) in West Bengal in MLA 86.58ha covering 15 stations spread over 42 kms of the Damodar Riverbed. The mine lease area lies on Damodar River bed between Latitudes 23^o33'10"N to 23^o41'30" N and Longitudes 87^o11'40"E to 87^o49'10" E on Survey of India topo-sheet numbers No. 73I/14, 73M/2. The Project is located in Seismic zone-IV. It is Category 'A' Project.

The proposal of TOR was considered by the Reconstituted Expert Appraisal Committee in its 11th Meeting held during 25th- 27th September, 2013 and its 13th meeting held on 12th November, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was

issued by MoEF&CC vide letter No. J – 11015 / 268 / 2012 – IA. II (M) dated 29th January, 2014. The Proponent submitted the EIA /EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 86.58ha spread over 15 locations / stations on Damodar Riverbed. No Forest land is involved. Sand extraction was carried out on the basis of Temporary Working Permits issued by the Commerce and Industries Department, Mines Branch Govt. of West Bengal vide Memo No. 415-CI/E/3L-95/99 dated 6th August, 1999 and subsequent renewals every 6 (six) months. However, in light of OM No. L-11011/47/2011-IA.II(M) dated 18/05/2012 issued by MoEF&CC, Assistant Secretary, Government of West Bengal, C&I Department vide his memo no. 689 dated 9th September, 2012 has advised obtaining Environmental Clearance from MoEF&CC as a pre-requisite for grant of long – term mining lease.

The Mining Plan has been approved by the Board of Director, Eastern Coalfields Ltd. on 28th July, 2015. Mining will be restricted to a maximum depth of 1.5 m in case of manual mining and 2 m in case of mechanized mining or the water level of the River Channel whichever is higher. Mining activity will be restricted to daytime only. Manual mining using hand held appliances tools like shovel, spade, sieve, etc and Mechanized mining using Scrapers and Dredgers. Mining will not be carried out below the water table. Mining will be done in the dry season only at places where the replenishment of sediments is high. Mining will be completely stopped during the monsoon. The riverbed area once dug will not be mined again until they are replenished in the monsoon. Mining will be done at least 20 m inside of the either banks. Mining will not be done in the concave areas of the rivers. Sand mining will not be carried out within a distance of 500 meters upstream/downstream of any high level bridge and 200 meters upstream/downstream of other bridges, culverts, embankments etc. No mining operation shall be carried out at a point within a distance of 200 m from any railway line, reservoir, canal or other public works, such as roads and buildings or inhabited site except the previous permission in writing of the Irrigation and waterways Department and/or Public Works (Roads) Department. No mining shall be carried out within 5 km from the barrage axis/dam axis. The site elevation is 67m – 92m AMSL. The Ground water depth is 3.47m to 13m BGL in pre-monsoon season and 2.53m to 10m BGL in post-monsoon season. The total water requirement of 50 KLD for dust suppression will be met from mine water discharged from underground mines of ECL. River water will not be drawn for any purpose. No ground water interception during the mining operations is envisaged.

Project Proponent informed that dams have been constructed on the upstream side of the Damodar River at Panchet and on its tributary, Barakar River at Maithon. Replenishment occurs when water is discharged from these

upstream dams during monsoon which brings in sufficient quantity of sand. The tipping trucks for loading shall be so placed as to provide ample space for movement of work persons deployed. The tipping trucks shall be placed in or moved out after making sufficient warning signals for the same. The tipping trucks shall be positioned on a stable location for loading. The approach roads for movement of tipping trucks shall be maintained in stable condition with proper gradient. Road worthiness of tipping trucks/tractors shall be periodically checked by a competent person authorized for the purpose and a record of such checks shall be kept with the respective truck.

The baseline data was generated for the period during April, 2012 to June, 2012 and during January, 2013 to March, 2013. The parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Air Quality Impact assessment has been carried out using the FDM model and the predicted concentrations of PM10 have been found to be within the prescribed limits. Project Proponent reported that no R&R plan is applicable for this Project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearings for the Composite Plan for Sand Mining in the Riverbed of Damodar River for stowing purpose were conducted on 10.07.2015 at 12.00 PM at Meeting Hall of Mejia Panchayat Samity District – Bankura, West Bengal; on 14.07.2015 at Panchayat Samity Meeting Hall of Raniganj Panchayat Samity District – Burdwan, West Bengal and on 24.07.2014 at The "Sampriti Sadan", Panchayat Samity Hall, Neturia, District – Purulia, West Bengal for stations / locations falling in Bankura, Burdwan and Purulia Districts, respectively. The Public Hearings were presided over by Shri N. T. Taso Lepcha, W.B.C.S. (Exe), Additional District Magistrate (Gen), District – Bankura, Sri Hrishikes Mudi, W.B.C.S. (Exe), Additional District Magistrate (ZP), District – Burdwan and Sri P. K. Maiti, Additional District Magistrate (Dev), District – Purulia, respectively. The representatives from the West Bengal State Pollution Control Board were also present on all the three occasions. 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 months.

(Rs. 45.0 Lakh per annum), Environment Monitoring (Rs. 30 Lakh per annum), Occupational Health (Rs. 30.0 Lakh per annum), Community Development (Rs. 30.0 Lakh per annum) and Plantation (Rs. 6.0 Lakh per annum). Proponent informed that 2 % of the average profits of CIL for the last 3 preceding years or Rs 5/- per tonne of coal produced whichever is higher will be earmarked for community development and socio-economic measures under CSR. Project Proponent reported that there is no litigation pending against 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 Committee noted that the Consultant has not prepared the EIA/EMP Report in-line with the Annexure-III of EIA Notification, 2006. The EIA/EMP report needs to be revised;
- (ii) The Committee noted that the Project Proponent has monitored wrong base line season data and also before issuance of TOR and is of the view the PP shall monitor a complete baseline data as per IMD viz. March – May; October – December; and December – February.
- (iii) As the mine lease located in three Districts, all the proceedings of Public Hearings shall incorporate in the EIA/EMP Report along with their budgetary provisions on the issues raised during Public Hearing;
- (iv) Disaster management plan is not adequate and needs to be revised;
- (v) The EIA/EMP report along with Annexures are not legible;
- (vi) Certified location map and distance certificate from the State Government with respect to protected areas has not been submitted;
- (vii) List of flora/fauna and endangered species are not accurate; Plant species w.r.t. river bed are not explored; and
- (viii) Copy of approved mining plan from the Competent Authority needs to be submitted.

(2.23). Sand Mining (Major Mineral) for the purpose of stowing in underground coal mines in the Riverbed of Ajoy River with proposed production capacity of 2.0 Million Cubic Meters (ROM) per annum by M/s Eastern Coalfields Limited, located at Sanctoria, District(s) : Birbhum and Burdwan, West Bengal (MLA 414.36ha)(Consultant: Central Mine Planning & Design Institute Ltd.)-Consideration of EC

The proposal of M/s Eastern Coalfields Limited is for Sand Mining (Major Mineral) for the purpose of stowing in underground coal mines in the Riverbed of Ajoy River with proposed production capacity of 2.0 Million Cubic Meters (ROM) per annum. The mine lease area is located in Barjora, Rashidpur, Palasdanga, Bolta, Parulboni, Ratanpur, Beldanga, Churur, Nabason, Jamalpur

Mouzas of Birbhum District and Ramnagar, Gobindapur, Konda, Bagdiha, Chatrishgonda, Samla, Bhaburia, Deshlopa, Madhaipur, Dalurband, Shyamsundarpur, District(s) Birbhum and Burdwan, West Bengal in MLA 414.36 ha covering 21 stations spread over 30 kms of the Ajoy Riverbed. The mine lease area lies on Ajoy River bed between Latitudes 23°41'45" N to 23°45'20" N and Longitudes 87°11'40" E to 87°10'00" E on Survey of India topo-sheet numbers No. 73^M/2, 73^M/1, 73^M/6. The Project is located in Seismic zone-IV.

The proposal of TOR was considered by the Reconstituted Expert Appraisal Committee in its 11th Meeting held during 25th- 27th September, 2013 and its 13th meeting held on 12th November, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter No. J – 11015 / 269 / 2012 – IA. II (M) dated 29th January, 2014. The Proponent submitted the EIA /EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 414.36 ha spread over 21 locations / stations on Ajoy Riverbed. No forest land is involved. Sand extraction was carried out on the basis of Temporary Working Permits issued by the Commerce and Industries Department, Mines Branch Govt. of West Bengal vide Memo No. 415-CI/E/3L-95/99 dated 6th August, 1999 and subsequent renewals every 6 (six) months. However, in light of OM No. L-11011/47/2011-IA.II(M) dated 18/05/2012 issued by MoEF&CC, Assistant Secretary, Government of West Bengal, C&I department, vide his memo no. 689 dated 9th September, 2012, has advised obtaining Environmental Clearance from MoEFCC as a pre-requisite for grant of long term mining lease.

The Mining Plan has been approved by the Board of Director, Eastern Coalfields Ltd. on 28th July, 2015. Method of Mining is manual opencast method. Excavation will be restricted to 1.0 meters from surface of deposit or the water level in the River channel whichever is less. The site elevation is 66m – 91m AMSL. The Ground water depth is 3.48m to 11.08m BGL in pre-monsoon season and 1.78m to 8.39m BGL in post-monsoon season. The total water requirement of 50.0 KLD for dust suppression will be met from mine water discharged from underground mines of ECL. River water will not be drawn for any purpose. No ground water interception during the mining operations is envisaged.

The baseline data was generated for the period during April, 2012 to June, 2012 and during January, 2013 to March, 2013. The parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Air Quality Impact assessment has been carried out using the FDM model and the predicted concentrations of PM10 have been found to be within the prescribed

limits. Project Proponent reported that no R&R plan is applicable for this Project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearings for the Composite Plan for Sand Mining in the Riverbed of Ajoy River for stowing purpose were conducted on 11.07.2015 at 2.00 PM at Joplai High School Ground, PO- Joplai, District- Birbhum, under Loba G.P. of PS – Durajpur, West Bengal and on 13.07.2015 at Panchayat Samity Meeting Hall of Pandaveswar Panchayat Samity, District – Burdwan, West Bengal for stations / locations falling in Birbhum and Burdwan Districts, respectively. The Public Hearings were presided over by Shri N. K. Biswas, Additional District Magistrate and DL & LRO, District–Birbhum and Shri S. Gupta, Additional District Magistrate, Asansol, District–Burdwan, respectively. The representatives from the West Bengal State Pollution Control Board were also present on both occasions. 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 months.

The annual recurring cost is Rs. 175.0 Lakhs covering Pollution Control (Rs. 50.0 Lakh per annum), Environment Monitoring (Rs. 30 Lakh per annum), Occupational Health (Rs. 50.0 Lakh per annum) Community Development (Rs. 40.0 Lakh per annum) and Plantation (Rs. 5.0 Lakh per annum). Proponent informed that 2 % of the average profits of CIL for the last 3 preceding years or Rs. 5/- per tonne of coal produced whichever is higher will be earmarked for community development and socio-economic measures under CSR. Project Proponent reported that there is no litigation pending against 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 Committee noted that the Consultant has not prepared the EIA/EMP Report in-line with the Annexure-III of EIA Notification, 2006. The EIA/EMP report needs to be revised;
- (ii) The Committee noted that the Project Proponent has monitored wrong base line season data and also before issuance of TOR and is of the view the PP shall monitor a complete baseline data as per IMD viz. March – May; October – December; and December – February.

- (iii) As the mine lease located in three Districts, all the proceedings of Public Hearings shall incorporate in the EIA/EMP Report along with their budgetary provisions on the issues raised during Public Hearing;
- (iv) Disaster management plan is not adequate and needs to be revised;
- (v) The EIA/EMP report along with Annexures are not legible;
- (vi) Certified location map and distance certificate from the State Government with respect to protected areas has not been submitted;
- (vii) List of flora/fauna and endangered species are not accurate; Plant species w.r.t. river bed are not explored; and
- (viii) Copy of approved mining plan from the Competent Authority needs to be submitted.

(2.24). Mining of River Sand Bajri (Minor Mineral) with proposed production capacity of 1.68 Lakh TPA (ROM) by Lessee M/s Rajasthan Forte and Palace Pvt. Ltd., located at Revenue village(s) of Tehsil Begun, District Chittorgarh, Rajasthan (MLA286.43 ha) (Consultant: Enviro Concept (I) Pvt. Ltd., Jaipur)-Re-Consideration of EC

The proposal of M/s Rajasthan Fort and Palace Pvt. Ltd. is for mining of River Sand Bajri (Minor Mineral) with proposed production capacity of 1.68 Lakh TPA (ROM) in the mine lease area of MLA 286.43 ha. The mine is located near village Saran, Ruppura, Chavandiya, Aakodiya, Bada Kheda, Luhariya, Meghpura, Kitiyas, Chosla, Motipura, Torniya, Barniyas, Hado Ka Kheda, Bhinchor, Devlach, Parsoli and Hamepur (17No's) of Tehsil Begun, District Chittorgarh, Rajasthan. The mine lease area falls on survey of India Topo sheet no 45K/12 & 45K/16 Block A co-ordinate 25°07'31.2" to 25°07'55.7" N & 74°46'29.9" to 74°48'11.3" E Block B 25°10'01.2" to 25°10'18.7" N & 74°51'13.4" to 74°51'38.9" E, Block C 25°08'53.7" to 25°09'27.1" & 74°51'11.3" to 74°51'12.1" E Block D 25°07'04.9" to 25°07'09.3" N & 74°51'07.1" to 74°51'27.4" E , Block -E 25°06'52.5" to 25°07'06.1" N & 74°51'27.9" to 74°51'39.9" E. The project is located in Seismic Zone-II.

The proposal of ToR was considered by the Expert Appraisal Committee (Non- Coal Mining) in its 10th meeting held during 21st -23rd August, 2013 to determine the terms of reference (TOR) for undertaking detailed EIA. TOR has been issued by MOEFCC vide letter No. J-11015/212/2013-IA.II (M), dated 14.10.2013. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The proposal was earlier appraised by EAC in its meeting held during March 16-18, 2015 where in the Committee deferred the proposal and noted that the EIA/ EMP Report has not addressed all baseline and other environmental parameters adequately. Accordingly the Project Proponent has submitted the revised EIA/EMP report online and the proposal is reconsidered

in this meeting.

The total lease area of the project is 286.43 ha. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri has been granted by the Director of Mines and Geology Department, Govt. of Rajasthan, vide letter No. Dir./P2 (A3) Chittor/Bajri/2012/837 dated 30.11.2012. The Mining Plan and Progressive Mine Closure Plan has been approved by office of the Superintending Mining Engineer, Dept. of Mines & Geology, Jodhpur Circle- Jodhpur, Rajasthan, vide letter no. SME/Bhil-Circle/CC-2/Bajri/Chittor/2012/4917, dated 14/11/2013.

Method of mining is semi-mechanised opencast method. Excavation will be carried out up to a maximum depth of 3.0 meter from surface of deposit and not less than one meter from the water level of the River Berach & Ruparel whichever is reached earlier. Proponent informed that 75.0 ha already mined out and only 20.0ha area will be used for excavation, 100.75ha for safety zone/permanent Roads and structures and 90.68ha area will be undisturbed.

The total water requirement is 4.0 KLD including water demand for domestic purpose, dust suppression and green belt development which shall be met by tanker supply after obtaining permission from local gram panchayat. Workers will be provided dust mask, safety boot, helmet and other safety equipment. A well – equipped first aid station will be maintained at mine site. Medical check- up of the workers will be done.

Project proponent reported that mining will be done leaving a safety distance from the bank i.e. 7.5 m offset left in both side of river 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 temporary rest shelters during operational phase. Mineral will be transported through road and traffic analysis survey reported that about 60 no's of truck will be deployed per day (loaded and unloaded) and level of services (LOS) calculated at different connected road on the basis of existing and cumulative incremental traffic volume in PCU and comes under "A" (Excellent) and "B" (Very good) on connected roads. A supervisor will be appointed to regulate the traffic movement near project site and speed breakers and signage will install at sensitive place.

Project Proponent reported that there is no No National park, Tiger /Elephant corridors, migratory route for birds etc. are located within 10 km of the study area except Bassi Wildlife sanctuary which is located at the distance of 1.05 Km from the proposed lease boundary as per certified map submitted

by the proponent. There are no rare endemic, endangered species & threatened species of flora found within the study area. Schedule-I faunal species Peafowl (*Pavo Cristatus*) and Chinkara (*Gazella bennettii*), Panther (*Panthera pardus*) and Rock Python(*Python Molurus*) found in the study area & their conservation plan has been prepared with budgetary provision of Rs. 11.0 lac per annum and submitted to concern authority to approval vide letter No. Nil dated 07.10.2015. About 4000 no's of trees to be planted of native species with fruits and medicinal values on 10.0 ha under greenbelt development program during entire lease period. State Mine and Geology Department, vide letter dated 28.05.2014, has confirmed that the mine site does not fall in Aravali Hills.

Baseline studies were carried out during October-December 2013 to represent whole study area. All parameters for air water and noise etc. were within the prescribed limits. Public Hearing was conducted at 11.00 AM on 01.10.2014, in the premises of Anganbadi, Gram Panchayat: Etawaha, Village: Luhariya, Tehsil Begun, District Chittorgarh. The Public Hearing was presided by Shri Harji Lal Atal, Additional District Magistrate Chittorgarh. The representative from Rajasthan State Pollution Control Board was also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control of dust pollution, conservation measures, social and other development activities and not to harm nearby fields.

Total cost of the project is Rs. 60 Lac. The Project Proponent has earmarked Rs. 30.0Lac per year towards Environmental Management Plan. Project Proponent has also earmarked Rs. 30.0 Lakhs towards socio-economic welfare measures for the nearby villagers other than R&R plan.

The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's Order dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~19891.0 MT of Bajri has been made during January 2014 to March 2014 and ~25020.0 MT 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 Mineral Bajri with proposed production capacity of **1.68 Lakh TPA (ROM)**.

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall

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

(2.25). Jhillingburu-II Iron & Manganese ore Mining Project of Gua Ore Mines with production capacity 20,820 TPA of manganese ore of M/s Steel Authority of India Ltd., located at District Singhbhum west, Jharkhand (30.430 ha) – Extension of validity of TOR

This proposal is inadvertently placed in the meeting by mistake.

(2.26). Bauxite & Aluminus Laterite Mine of M/s Ashapura Mincechem Ltd., located at village – Kinaur, Taluk Hosadurg, District Kasargod , Kerala (80.937 ha) – Extension of validity of TOR

The Ministry has prescribed TOR on 12.11.2013 to M/s Ashapura Mincechem Ltd., for Bauxite & Aluminus Laterite Mine, located at village – Kinaur, Taluk Hosadurg, District Kasargod , Kerala.

The PP, vide letter dated 28.09.2015 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 12.11.2015 to 11.11.2016.**

(2.27). Mining of Heavy Minerals Sand with proposed production capacity 2,42,000 TPA (ROM) for producing Ilmenite, Rutile, Monazite, Zircon, Sillimanite along with Minerals Separation Plan (MSP) by M/s Indian Rare Earths Limited, located in Villages Thekkumbhagam and Chavara, Taluk Karunagapally, District Kollam, Kerala (62.204 ha)(Consultant: NIIST)-TOR

The proposal of M/s Indian Rare Earths Limited is for Mining of Heavy Minerals Sand with proposed production capacity 2,42,000 TPA (ROM) to produce Ilmenite, Rutile, Monazite, Zircon and Sillimanite along with Minerals Separation Plan (MSP) in the mine lease area of 62.204ha. The mine is located at NK Block II of villages Thekkumbhagam and Chavara, Taluk Karunagapally, District Kollam, Kerala. The mine lease area located between Latitudes 8⁰56'02" N to 9⁰8'24" N and Longitudes 76⁰27'36" E to 76⁰32'54" E on Survey of India topo-sheet numbers No. 58 D/9.

The total lease area is 62.204ha. The mine lease area was granted by the Government of Kerala, vide (G.O (MS) No. 22/2005/ID dated 22/02/05 & G.O (MS) No. 32/2006/ID dated 15/03/06). The lease is valid till 28.02.2020. The Project Proponent has informed that CRZ 2011 is applicable to this project as the project falls within 500 m of HTL. Method of mining is open cast. The mining was mainly through Beach washing and inland mining activities like dredging with annual production capacity of 2,42,000 TPA (ROM). Life of Mine is 5 years. IBM has approved the mining plan on 20.04.2015. AMD approval is under consideration with the Competent Authority. Total project cost is Rs. 10 Crores and cost of EMP is Rs.125 lakhs. Project Proponent has reported that there is court cases WP (C) 3343/2014 pending in the High Court of Kerala w.r.t. violation under Kerala Minor Mineral Concession Rules, 1967.

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 along with** (i) Necessary clearance from the Coastal Zone Management Authority; (ii) Necessary AERB clearance under the Atomic Energy (Radiation Protection) Rules, 2004 for operation of BSM (Beach Sand Minerals) facility; (iii) Mitigation measures for protecting Canal; (iv) Details of Radioactivity study to be carried out; (v) Compliance status of conditions of AERB clearance; and (vi) Mitigation measures for mangrove protection.

(2.28). Mining of Heavy Mineral sand with annual production capacity of 4,00,000 TPA (ROM) for producing Ilmenite, Rutile, Monazite, Zircon, Sillimanite along with Minerals Separation Plan (MSP) by M/s Indian Rare Earths Limited, located in villages Chavara, Thekkumbhagam, Taluk Karunagapally, District Kollam, Kerala (67 Ha)(Consultant: NIIST)-TOR

The proposal of M/s Indian Rare Earths Limited is for Mining of Heavy Minerals Sand with proposed production capacity 4,00,000 TPA (ROM) to produce Ilmenite, Rutile, Monazite, Zircon and Sillimanite along with Minerals Separation Plan (MSP) in the mine lease area of 67ha. The mine is located at NK Block II of villages Thekkumbhagam and Chavara, Taluk Karunagapally, District Kollam, Kerala. The mine lease area located between Latitudes 8°58'07" N to 8°59'00" N and Longitudes 76°31'35" E to 76°31'56" E on Survey of India topo-sheet numbers No. 58 D/9.

The total lease area is 67ha. The mine lease area was granted by the Government of Kerala, vide (G.O (MS) No. 147/98/ID dated 21/10/1998. The lease is valid till 01.06.2019. The Project Proponent has informed that CRZ 2011 is applicable to this project as the project falls within 500 m of HTL. Method of mining is open cast. The mining was mainly through Beach washing and inland mining activities like dredging with annual production capacity of 4,00,000 TPA (ROM). Life of Mine is 10 years. Total project cost is Rs. 10 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 along with** (i) Necessary clearance from the Coastal Zone Management Authority; (ii) Necessary AERB clearance under the Atomic Energy (Radiation Protection) Rules, 2004 for operation of BSM (Beach Sand Minerals) facility; (iii) Mitigation measures for protecting Canal; (iv) Details of Radioactivity study to be carried out; (v) Compliance status of conditions of AERB clearance; and (vi) Mitigation measures for mangrove protection.

(2.29). Rajakkal Multi Colour Granite Quarry with production capacity of 18,240 m³ per annum (ROM) by M/s Tamil Nadu Minerals Limited, located at Village Rajakkal, District Vellore, Tehsil Gudiyatham, Tamil Nadu (MLA - 72.44ha)- TOR

Granite Mine with production capacity of 18,240 m³ per annum (ROM) in the Mine lease area of 72.44ha. The mine is located in Village Rajakkal, Taluk Gudiyatham, District Vellore, Tamil Nadu. Mine lease area falls in the Survey of India Topo sheet No 57L/7 & 13 and lies between Northern latitudes of 12°50'42" and eastern longitudes of 78°44'37".

Total mine lease area is of 72.44ha which is non-forest land. The lease was granted by the State Government, vide G.O. 3(D) No:75, Industries (MME-1) Department dated: 03.09.2007 in Rajakkal Village, Gudiyatham Taluk, Vellore District, Tamil Nadu. The lease is valid up to 16.09.2027. The scheme of mining was approved by the Commissioner of Geology and Mining, Chennai vide their Letter No.18349/MM5/2008, Dt. 10.07.2009.

Mining will be carried out by semi-mechanized open cast mining method and developing pits 986 mt long, 602 m width and 30 m deep. Life of mines will be 20 years. The total water requirement will be about 2.3 KLD comprising Domestic – 1.4 KLD, Water Sprinkling for dust suppression & drilling 0.9 KLD. The total project capital cost is Rs. 100 Lakhs. Project Proponent reported that there is not court case pending against the project.

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

(2.30).Therkukallidaikurichi Multi Colour Granite Quarry with proposed production capacity of 30,392 m³ per annum (ROM) by M/s Tamil Nadu Minerals Limited, located at Village Therkukallidaikurichi, Taluk Ambasamudram, District Thirunelveli, Tamil Nadu (MLA 35.795 ha) – TOR

The Proposal of M/s Tamil Nadu Minerals Limited is for Therkukallidaikurichi Multi Colour Granite Quarry with proposed production capacity of 30,392 m³ per annum (ROM) in Mine lease area of 35.795 ha. The mine is located in Village Therkukallidaikurichi, Taluk Ambasamudram, District Tirunelveli, Tamil Nadu. Mine lease area falls in the Survey of India Topo sheet No 58H/5 & 6 and lies between Northern latitude of 08°37'48.7" and eastern longitude of 77°28'58". It is a Category 'A' project as Kalakadu – Mundanthurai Tiger Sanctuary is 1.5 Km SW from the mine site.

The mine lease area is of 35.79ha which, is non-forest land. The lease was granted by State Government vide G.O. Ms.No.280, Industries (MME-1) Department, dated: 27.12.1995. The lease deed executed on 27.05.1996 and the lease period expires on 26.05.2016. The renewal of lease application is under consideration with State Government. The Mining Plan was submitted to

the Commissioner of Geology and Mining, Chennai. The Mining Plan is under process with Government.

Mining is carried out by semi-mechanized open cast mining method and developing pits 1070 mt long, 319 m width and 25 m deep. Life of mines will be 20 years. Mining operation so far have been restricted to a depth of 10 m from hillock level by exploiting the proved reserves and probable reserves. The total water requirement will be about 2.3 KLD comprising Domestic – 1.4 KLD, Water Sprinkling for dust suppression & drilling 0.9 KLD. The total project capital cost is Rs. 100 Lakhs. Project Proponent reported that there is not court case pending against the project.

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

(2.31). Adaichchani Colour Granite Quarry with proposed production capacity of 6160 m³ per annum (ROM) by M/s Tamil Nadu Minerals Limited, located at Village Adaichchani, Taluk Ambasamudram, District Tirunelveli, Tamil Nadu (MLA-66.07 ha) - ToR

The Proposal of M/s Tamil Nadu Minerals Limited is for Adaichchani Colour Granite Quarry with proposed production capacity of 6160 m³ per annum (ROM) in MLA of 66.07ha The mine is located at Village Adaichchani, Taluk Ambasamudram, District Tirunelveli, Tamil Nadu. Mine lease area falls in the survey of India Topo sheet No 58H/5 & 6 and lies between Northern latitude of 08°45'25" and eastern longitude of 77°25'59".

Total mine lease area is 66.07ha which is non-forest land. Initially the lease was granted to TAMIN for an extent of 66.07.0 ha in SF No.353/1(Part) of Adaichchani Village, Ambasamudram Taluk, Tirunelveli District, Tamil Nadu for 30 years vide G.O. 4(D) No:1, Industries (MME-1) Department dated: 28.02.2006. The Mining Plan was approved by the Commissioner of Geology & Mining, Chennai vide Letter No.5046/MM2/2005, Dt. 12.02.2006. The Scheme of Mining-I was submitted vide Letter No.13576/ML2/2010,dated. 30.09.2010 to the Commissioner of Geology and Mining, Chennai.

Mining will be carried out by semi-mechanized open cast method and developing pits 2417 mt long, 160 m width and 20 m deep. Mining operation is on a small scale with Granite production of about 308 cbm (ROM 6160) per annum. Life of mines will be 20 years. Mining operation to be restricted to a depth of 10 m from hillock level by exploiting the proved reserves and probable reserves. The total water requirement will be about 2.3 KLD comprising Domestic – 1.4 KLD, Water Sprinkling for dust suppression &

drilling 0.9 KLD. The total project capital cost is Rs. 100 Lakhs. Project Proponent reported that there is not court case pending against the project.

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

(2.32). Mining of Beach Sand Minerals of M/s Indian Rare Earth Limited located in Village Alappad, Panmana and Ayanivelikulangara, Kollam District, State –Kerala

The proposal is inadvertently placed in the meeting. The Committee noted that the said project has already accorded the TOR.

CONSIDERATION OF TOR

(2.33). Sand Mining Projects of M/s Mor Mukut Marketing Pvt. Ltd located at District Arwal on river River Son (as Stretch-1) & Punpun (as Stretch-2) from Thirteen (13) village Ghats State - Bihar. IA/BR/MIN/30581/2015.

The proposal of M/s. MorMukut Marketing Private Limited is for Mining of sand from river Son & River Punpun of District Arwal. The mining Lease is located on the dry river bed of River Son as Stretch-1, Punpun River as Stretch-2 of District-Arwal. The Letter of Intent has been issued by District Collectorate of Jehanabad & Arwal on date 07.11.2014 for 5 years. Mining Lease consists of two river stretches, Stretch-1 consist of 9 Ghats on Son River namely Agnur Ghat (Ar S 01), Sohasa Ghat (Ar S 02), Masadpur Ghat (Ar S 03), Bath Ghat (Ar S 04), Rampur waina Ghat (Ar S 05), Piparabangla (Ar S 06), Sakri (Ar S 07), Chapraghat no-1(Ar S 08), Chapraghat no-2 (Ar S 09) & Stretch-2 consist of 4 Ghats on Punpun River namely Khaira Ghat (Ar P 01), Ramzan Bigha Ghat (Ar P 02), Sonbhadra Ghat (Ar P 03), Moglapur Ghat (Ar P 04) of district Arwal. The project is open cast mining of minor mineral in the form of Sand; approx. 72, 52,000 tonnes/annum sand will be excavated. Entire process of excavation will be combination of manual (for the sand Ghats of area less than 5 hectare) as well as through semi-mechanized (for the area more than 5 hectare)by using excavators/JCBs. The mine lease area falls on Survey of India Toposheet no. 72C-7, 72C-8, 72C-11, 72C-12, 72C15, 72C-16 and Stretch 1st lies between Latitudes 25°7'56.672"N ; Longitudes 84°27'31.821"E to Latitudes 25°18'27.22"N; Longitudes 84°42'20.372"E and Stretch 2nd lies between Latitudes 25°12'37.95"N; Longitudes 84°49'8.299"E to Latitudes 25°6'11.226"N; Longitudes 84°42'52.666"E. The Project is located in Seismic Zone-III. Approx.150 manpower will be employed for the proposed project.

The total sum of all Ghats mine of lease area is 171.89 Ha or 424.74 Acres which is classified as Govt. land. The total water requirement is 16.0KLD for dust suppression and green belt development, which will be made available through private tankers and 4.0 KLD Drinking water will be made available through private tankers. The capital cost of the proposed project will be approx. Rs. 330 Lakhs.

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

(2.34). Gaya Sand Block (Stretch 1 to 7) Mining Project of M/s West Link Trading Pvt. Ltd. located at District Gaya, Tehsil Bodh Gaya, State Bihar (622.50 Ha) IA/BR/MIN/30647/2015.

The Gaya Sand Blocks (Stretch 1 to 7) mining project is proposed by M/s Westlink Trading Pvt. Ltd (Seerajdhawaj Singh- Director) for Mining of sand from River Lilajan, Falgu, Mohana, Morhar, Buddha, Dhadhar & Paimar of District Gaya, Bihar. The proposed production capacity of sand will be 15.84 Million Tonnes Per Annum (1,58,40,000 TPA) in the mine lease area of 622.5 ha. The Project comprises of seven stretches which is further segmented in to 59 blocks.

The mining Lease is located on the dry river bed of River Lilajan as Stretch-1, Falgu River as Stretch-2, Mohana River as Stretch-3, Morhar River as Stretch-4, Buddha River as Stretch-5, Dhadhar River as Stretch-6, Paimar River as Stretch-7 of District-Gaya, Bihar. The Letter of Intent has been issued by District Collectorate of Gaya vide date 28-03-2015 for 5 years. Mining Lease consists of Seven river stretches, Stretch-1 consist of 10 Ghats :Kothvara, Dobhi, Bajaura, Pirasin, Koshla, Khajbatti, mocharim , pachahatti, aamuwa, suraj pura, Stretch 2 consist of 15 Ghats: pareva, kenduai, naranga, bhusanda, aakhara, ram shila, alipur, bitho sharit, sadipur, tineri, pochakand, shanti nagar, telbiga, dalelchak, keni, bhudhva Stretch 3 consist of 5 Ghats: jalahi, mohanpur, litiya yahi , matihani, kenari Stretch 4 consist of 16 Ghats: banahi, bajit pur, mahuuama, uchirma, paluhara. rajan, aamirganj, dakhiner, nepa, kusap, panch, guljana, nimsar, bala bigha, men, murat. Stretch 5 consist of 4 Ghats: koeri bigaha, paraiya, milkibagh, manohar, Stretch 6 consist of 7 ghats: dhuwa, dedor garh, tarawan, kenar, milki, jamuawan, maltidaurpur Stretch 7 consist of 2 ghats: soeya par, khesadi of district Gaya.

The project is open cast Semi-Mechanized mining of Sand. Excavation will be carried out up to a depth of 3m BGL. The mine lease area falls on Survey of India Toposheet no. 72D/14, 72H/02, 72H/0, 72H/02,72C/16 ,72D/13, 72D/14, 72C/16, 72D/13, 72D/14, 72H/2 & 72H/5 ,72H/6, 72H/01. The Project is located in Seismic Zone-III. Approx. 4476 manpower will be employed for the proposed project. The total sum of all Ghats mine of lease area is 622.5 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 PP requested for consideration of the Monitoring data period of October to December 2015 for the preparation of EIA report. The EAC agreed to the request of the PP.

The total water requirement is 94 KLD for drinking, dust suppression and green belt development, which will be made available through private tankers. The cost of the project is Rs. 25 Crore and Rs 125 lakh is allotted for EMP implementation. The PP reported that Interstate boundary of Bihar & Jharkhand lies at a distance of 3.5 km from Stretch 1 & 4.0 km Stretch 4 of the proposed project & Gautam Buddha Wild Life sanctuary is lies about 7.5 Km SW from block 1 of Stretch 3. The PP submitted that they had started monitoring of baseline data from October and they may be permitted to do so, the Committee agreed to the request of PP.

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

(2.35). Sand Mining Project of M/s Aditya Multicum Pvt. Ltd. located at Village Rohtas District- Rohtas, Tehsil Rohtas State – Bihar(637.23 Ha) IA/BR/MIN/30647/2015.

The proposal of M/s. Aditya Multicom Pvt. Ltd. is for Mining of sand from River Son, Batane Punpun in Aurangabad and Rohtas district. The mining Lease is located on the dry river bed of River Son, Aurangabad as Stretch-1, Batane River, as Stretch-2 of District Aurangabad, River Punpun of District- Aurangabad as Stretch-3 and River Son as Stretch-4 of District-Rohtas. Regarding this, Letter of Intent has been issued by Mining officer of Aurangabad Vide Letter No.44/M Dated: 23/01/2015 and by Assistant

Director, Department of Mines and Geology of Rohtas Vide Letter No.28/M
Dated:23/01/2015for 5 years.

The project is Semi-mechanized using excavators/JCBs as well as manual mining of Sand.3, 45, 10, 708tonnes of sand per annum will be excavated. Entire process of excavation will be combination of manual (for the sand Ghats of area less than 5 hectare) as well as through semi-mechanized (for the area more than 5 hectare).The mine lease area falls on Survey of India Toposheet no. 63O-16, 63P-13, 63P-14, 72C-4, 72D-1, 72D-2, 72C-8, 72D-6, 72D-5, 72C-12, 72D-9, 72A-12 and Stretch 1stlies between Latitudes 25°5.840'N; Longitudes84° 26.817'E to Latitudes24° 38.886'N; Longitudes84° 1.359'E, Stretch 2nd lies between Latitudes 24° 53.354'N; Longitudes 84° 22.039'E to Latitudes 24° 36.990'N; Longitudes 84° 17.020'E, Stretch 3rdlies between Latitudes 25° 4.904'N; Longitudes 84° 41.014'E to 24° 57.755'N; Longitudes 84° 31.004'E and Stretch 4th lies between Latitudes 24° 36.544'N; Longitudes 83°58'32.68"to 25° 4.938'N; Longitudes 84° 25.173'E. The Project is located in Seismic Zone-III. Approx.300-400 manpower will be employed for the proposed project.

The total sum of all Ghats mine of lease area is 637.23 ha or 1574.62 Acre which is classified as Govt. land. The total water requirement is 122.0KLD, for dust suppression is 50.0 KLD and green belt development is 48.0 KLD, which will be made available through private tankers and 24.0 KLD drinking water will be made available through private tankers. The capital cost of the proposed project will be approx. Rs. 10.4Crores. Some of the sites are located within 10 km radius of the inter-state boundary of Bihar and Jharkhand and Kaimur Wildlife Sanctuary.

Based on the information furnished and presentation made by the Project Proponent and discussions held suggested the PP to make **two separate applications for separate district as two separate LOI has been issued** for the mine leases and in addition submit the certificate from State Authorities regarding the distance of mine site from Kaimur Wildlife Sanctuary.

(2.36). Sand Mining Projects of M/s Broad-son Commodities Pvt. Ltd. located at Village District Patna, Bhojpur & Saran Tehsil Patna Rural and Arrah IA/BR/MIN/30727/2015

The proposal of M/s. Broad-son Commodities Pvt. Ltd. is for Mining of sand from river Ganga, Mahatwan, Dhardha, Dhowa, Mohani, Morhar, Punpun, Son of District Patna, Son river of district Bhojpur and Gandak river of district Saran. All mining sites consists of total 106 Ghats 81 from Patna district, 24 Ghats from Bhojpur & 1 Ghat from Saran district.

The project is open cast mining of Sand-1070529 tonnes/annum- (Manually))
81108012 tonnes/annum- (Mechanical) i.e Total Production:- 82178541 tonnes/annum

from all the Ghats of Three districts of Patna, Bhojpur & Saran.. Entire process of excavation will be combination of both manually and mechanically. The mine lease area falls on Survey of India Toposheet no. 72B-16, 72C-14, 72G-2, 72G-14, 72G-15, 72G-11, 72G-7, 72G-3, 72C-15, 72C-11, 72C-8, 72C-12. All the sand Ghats are falling Patna District between latitude 25°14'25.59" N to 25°44'0.80"N and Longitude- 84°43'10.35" E to 85°59'38.07" E and Bhojpur District- of latitude- 25°11'21.11"N to 25°39'22.14"N and Longitude- 84°28'7.08"E to 84°48'55.64"E and Saran district of Latitude- 26°12'2.89"N to 26°12'42.28"N Longitude- 84°53'43.61"E to 84°54'0.57"E.

The Project is located in Seismic Zone-IV. Approx.500-600 manpower will be employed for the proposed project. The total sum of all Ghats mine of lease area is 1994.6 Ha, Water requirement for the project is Approx. 30.0 KLD for domestic use, Approx. 130.0 KLD for dust suppression and Approx. 120.0 KLD for development of green belt. The total water requirement is 280.0 KLD. This water will be supplied from available nearby sources or by private tankers.

Based on the information furnished and presentation made by the Project Proponent and discussions held, suggested the PP to make three separate applications for separate district as three separate LOI has been issued for the mine leases.

(2.37). Mining of Sand (minor mineral) of M/s Development Strategies India Private Limited located at Pobari Block/Ynr B11 Tehsil-Radaur District-Yamuna Nagar State –Haryana IA/HR/MIN/30901/2015

The proposal of M/s Development Strategies India Private Limited is for mining of sand (Minor Mineral) with production capacity of 11,00,000 TPA in the mine lease area of 23.05 Ha. The LOI has been granted by Director General, Department of Mines and Geology, Haryana vide memo No. DMG/HY/cont/ Pobari Block/YNR B-11/2015/3924 dated 19/06/2015 for the period of 09 years. The mine lease area is located between the following coordinates:

S.No.	Latitude	Longitude
1.	N 30°0'12.942"	E 77°15'44.055"
2.	N 30°0'4.50"	E 77°16'4.75"
3.	N 30°0'16.79"	E 77°16'13.82"
4.	N 30°0'22.25"	E 77°15'54.19"

Toposheet (OSM) No. -H43L8, H43L7, H43L11, H43L12. No National Park falls within the 10 km radius of the project site. The project is being considered as category 'A' as it is located at 0.5 Km distance in South-east direction from Haryana and Uttar Pradesh inter-state boundary.

Total mine lease area is 23.05 ha in Riverbed. Method of mining will be opencast semi-mechanized method. Loading of minerals into trucks / tippers will be done by

using excavators and transported to market. Total water requirement for the proposed project will be 38.0 KLD. Water for dust suppression, domestic and plantation will be supplied from existing Dug well / Tube well situated in the nearby areas. It was informed by the PP that no National Park/Wildlife Sanctuary/Biosphere Reserve etc is located with 10 km radius of the mine lease area. The cost of the project is Rs. 5.50 Crores. The cost for EMP is 11.90 Lakhs.

The PP submitted that they had started monitoring of baseline data from October and they may be permitted to do so, the Committee agreed to the request of PP.

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

(2.38). Sand, stone and bajri from the river bed of Chakki Khad of M/s Shri Vipul Sehgal located at Mauza/ Mohal Maira Doomal Batrah, Tehsil Nurpur, District Kangra (HP) IA/HP/MIN/29894/2015

The proposal is for extraction of sand, stone and bajri from the river bed of Chakki Khad at Mauza/ Mohal Maira Doomal Batrah, Tehsil Nurpur, District Kangra (HP) in an area of 04-44-12 Hectares for a period of five years. It was noted that the proposal is a category 'B' project therefore the committee recommended the proposal to be **transferred to concerned SEIAA**.

(2.39). Sand, Stone & Bajri of M/s K.K Grit Udyog located at Village Bain Attarian, Tehsil Indora, District Kangra, Himachal Pradesh. IA/HP/MIN/30974/2015

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

(2.40). Sand, Stone & Bajri of M/s K.K Grit Udyog located at Mauza Bain Attarian, Tehsil: Indora, District: Kangra, H.P. IA/HP/MIN/31198/2015

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

(2.41). Khatkurbahal Limestone & Dolomite Mine of M/s Sadasiva Tripathy located at Khatkurbahal, Kulenbahal & Jaurmunda villages, Sundargarh district, State – Orissa.

Khatkurbahal Limestone & Dolomite Mines lease over an area of 113.583 hectares situated in village Jharbeda and Khatkurbahal under Kutra P.S. of Sundargarh district, Orissa was granted in favour of M/s Sadasiva Tripathy on 12.07.1994 for a period of twenty (20) years i.e. upto 12.07.2014. The lessee applied for 2nd renewal of mining lease for a period of 20 years vide letter no. 394 on dated 12.06.2013. As per Mines and Minerals (Development and Regulation) Amendment Act, 2015, lease other than captive purpose, shall be extended and be deemed to have been extended up to a period ending on the 31st March, 2020 with effective from the date of expire of the period of renewal last made or till the completion of renewal period, If any, or a period of fifty years from the date of grant of such lease, whichever is later. The lease hold is featured in survey of India toposheet No. 73B/7 by latitudes 22° 16' 41" to 22° 16' 58" North and longitudes 84° 27' 35" to 84° 28' 54" East. The lease area presents an undulated topography. The highest & lowest elevations are 235m AMSL and 227.5m AMSL.

The proposed expansion of the Mines is from production capacity of 24, 000 MT/Annum to 70,000 MT/Annum for Limestone and from 24,000 MT/Annum to 30,000 MT/Annum for Dolomite and setting up of a 40 TPH crushing and screening unit within mine lease area.

The area experiences subtropical dry to wet. The depth of water level below ground level varies depending on the local topography, geology & hydrological conditions. There is no perennial nala in the lease area. There exist Jharia Nala in the northwestern side of the lease area, which remain dry during lean season and flows due north-east which is the tributary to Sankh river. There is no sensitive ecological habitat like National Parks, Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant reserves within 10 km radius of ML area. No Schedule I species have been reported or recorded from the study area. Water sprinkling will be done along the haul road and village road to control air pollution. A greenbelt, natural noise barrier around the ML area suggested as dust suppression system could reduce ambient noise level in the buffer zone. The green belt development, stabilization of OB dump, afforestation in the safety zones, backfilling and reclamation of quarries, etc would improve the aesthetics of the mining site. To prevent the pollution of surface runoff from the OB site retaining walls, garland drains and sedimentation tank shall be constructed. The estimated Project Cost is Rs. 10 Crore. It was informed by the PP that there is no court case/litigation pending against the project. The Committee deliberated the proposal and decided to **defer** the proposal and sought the following information/clarifications for further consideration:-

- (i) The toposheet of the area shall be submitted.

- (ii) The production details prior to 1994.
- (iii) The valid lease documents issued by state government shall be submitted.

(2.42). J-11015/409/2008-IA.II(M) Sukurangi Chromite Mining Project of M/s The Orissa Mining Corporation Ltd. located in Village(s) Sukurangi, Saruabil and village limits of Ostapal, Kamarda and Talangi, Tehsil Sukinda, District Jajpur, Orissa IA/OR/MIN/30726/2015

The proposal of M/s The Orissa Mining Corporation Ltd, is for mining of Chromite in the mine of Sukurangi Chromite with production capacity of 0.13 MTPA to 0.30 MTPA in mine lease area of 382.709 ha. The mine lease area is located at Village(s) Sukurangi, Saruabil and village limits of Ostapal, Kamarda and Talangi, Tehsil Sukinda, District Jajpur, Orissa. The Latitudes and Longitudes of the mine lease area lie between 21° 02'18.85" to 21° 03'46.98" N; and 85°47'43.77" to 85°49'21.74" E".

The total Mine lease area is 382.709ha. Method of mining will be open cast and fully mechanized. The water requirement is 249m³/hr. Mineral Processing low grade ore (+ 30% to 42% Cr 2 O3) will be sent to chrome ore beneficiation (COB) plant located at adjacent South-Kalipani M.L. are of OMC.

It was reported by PP that there is no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves within 10 km radius of the mine site. The Damsal Nala (within the ML) is Nearest streams /river/ water body. The Forest land is 267.21ha within the mining lease, mahagiri PF, Daitari PF, REbna RF, Tamka RF within the 10 km buffer zone. The estimated cost of the proposed project is Rs. 2,778 Lakh.

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.

(2.43). Pamta limestone Mine of M/s A. Dean & Company located at Mauza Shamah Pamta, Tehsil Paonta Sahib, District Sirmour, Himachal Pradesh IA/HP/MIN/31151/2015.

The proposed project is a Hill Slope Mining Project for the mining of lime stone located at mauza Chhitali & Shamah Pamta, Tehsil Paonta sahib, District Sirmaur, Himachal Pradesh. The proposed project is having lease area of 4.4 ha Lease was sanctioned on 06.12.1982 in favour of M/s A. Dean & Co. Lease was renewed for 20 years from 20th September 1997 which shall expired on 19.09.2017 The mine lease renewal of mining is done in 2008 by M/s A Dean & company for the period of 20 years

after surrendering the lease area measuring 222-14 bigha. As per the ordinance of Ministry of Mines the lease is valid for the period of 20 years i.e. up to 2027.

The proposed mining project is categorized as category 'A' due to the presence of Interstate Boundary of Uttarakhand and Himachal Pradesh 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 cumulative area is 12.13 ha. The proposed project activity will be carried out from the Hill Slope. It has been proposed to collect 1,25,130 TPA of lime stone the amount of waste generated will be 3,003m³per year and 500 m³ top soil will be generated per year during operation of mine. The lease area is classified as waste land. The capital cost of the project is Rs. 60.0 Lakh and the annual recurring cost for the environment protection measures is proposed as Rs. 3.15 Lakh including pollution control and monitoring.

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

(2.44). J-11015/78/2010-IA.II(M) South block mining lease in Panchapatmali bauxite mines of M/s National Aluminium Company Limited (NALCO) located at Damanjodi village, Koraput Tehsil, Koraput District, State – Odisha expansion from 3.15 to 3.655 MTPA over the mine lease area of 528.262 ha. IA/OR/MIN/31161/2015.

The proposal is of National Aluminum Company Limited (NALCO), the lease hold is featured in survey of India Topo-sheet No. no. 65J/13 & 65 N/1. by Latitude 18° 46' 32.60" & 18° 49' 04.71" N & Longitude 82° 57' 42.69" & 82°59' 51.65" E Panchapatmali Village, Koraput Tehsil, Koraput District, Odisha. The proposal is for expansion of bauxite mining from 3.15 to 3.655 MTPA over the mine lease area of 528.262 ha.

Presently, 6.825 MT bauxite is being raised per annum from Central and North Block Mining lease of NALCO's captive mine at Panchpatmali. To cater the bauxite requirement of refinery complex after addition of 5th stream under 3rd phase expansion, additional 3.655 MT bauxite is required per annum. For this purpose, South Block Mining lease of NALCO's Panchpatmali mine has been identified for sourcing additional 3.655 MT of bauxite per annum. Bauxite from the lease area of the South Block Mining Lease will be utilized for the captive purpose by NALCO. It is hereby noted that the EC (Environment Clearance) is available for raising of bauxite of 3.15 MTPA capacity from South Block mining lease of Panchpatmali Mine. So, the present proposal is for additional 0.505 MTPA (approx. 16% increase) bauxite production from South Block mining lease of Panchpatmali Mine.

The total capital cost estimate is Rs. 1140.4 Crore. The Mining Plan for the capacity of 3.15 MTPA of Panchpatmali bauxite mine (South Block ML) of 528.262 ha

was approved by IBM vide letter no. 314(3)/2009-MCCM(CZ)/MP-35 dated 24.05.2010, with projection of mining of bauxite beyond 2019. Earlier EC has been obtained by NALCO vide MoEF Letter No. J-11015/78/2010-IA-II (M) dated 28th February 2011 for the production of 3.15 MTPA bauxite from the Mining Lease (ML) area of South Block, which will be operative from 2019-20. The balance amount of 0.505 MTPA of bauxite which needs to be sourced from the South Block ML of Panchpatmali Mine will require EC.

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.

(2.45). River Bed Minor Mineral Mine of M/s Shri Prakash Chandra Dwivedi located at Village Kanwara, Tehsil-Banda, District- Banda, State Uttar Pradesh (78.79 ha; 8,10,000 TPA) IA/UP/MIN/29611/2015 ENVIRTA Sustainable Solutions India Pvt. Ltd

The Proposal of M/s Shri Prakash Chandra Dwivedi is for Mining of River Bed Minor Mineral Sand in Kanwara with proposed production capacity of 8,10,000 TPA. The mine is located at Village – Kanwara, Tehsil- Banda, District-Banda, Uttar Pradesh. The Geographical Co-ordinates for the mine site are Latitude- : 25°30' 38.768" to 25 ° 31' 43.241" North & Longitude- : 80°16'49.331" to 80°17'34.462" East. The mine site falls on Survey of India Toposheet no. 63C/6. Environment clearance was granted on 21.02.2014 with a production capacity of 1,80,000 TPA. The lease was initially granted for a period of 3 yrs w.e.f 11.09.2009. However since the EC was granted in 2014 the mine was never operational. Allahabad High Court in its decision in Writ Petition 12136 of 2015 dated 21/04/2015 granted extension of validity of lease for the period in which mining was not done in absence of EC.

The total lease area is 78.79 Ha. The Project Proponent reported that no national park, Wild Life Sanctuary/Tiger Reserve/Schedule I species etc. is located within 10 km of the mine. The operation will be opencast semi mechanized method. The haul road is extended upto the working face at gradient of 1 in 20. All operation of mining i.e. excavation, sorting, sizing and loading will be done by manual means. No drilling/blasting is needed. 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 ultimate depth of mining is up to 3m BGL. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 24.0 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 85 Lakh. 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 following: (i) Replenishment and drainage study from a reputed Institution; (ii) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography; (iii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) and its impact on Environment; (iv) Impact of all existing mining on the present land use in the study area; and (v) Details of excavation schedule & sequential mining plan.

(2.46). River Bed Minor Mineral Mine of M/s of Shri Prakash Chandra Dwivedi located at Village Achhroud, Tehsil-Banda, District-Banda, State – Uttar Pradesh (68.29 ha; 8,10,000 TPA) IA/UP/MIN/29431/2015 ENVIRTA Sustainable Solutions India Pvt. Ltd

The Proposal of M/s Shri Prakash Chandra Dwivedi is for Mining of River Bed Minor Mineral Sand in Achhroud with proposed production capacity of 8,10,000 TPA. The mine is located at Village – Achhroud, Tehsil- Banda, District-Banda, Uttar Pradesh. The Geographical Co- ordinates for the mine site are Latitude- : 25°31' 48.914" to 25 °32' 57.574" North & Longitude- : 80° 16'23.284" to 80°16'56.867" East. The mine site falls on Survey of India Toposheet no. 63C/6.

Environment clearance was granted on 21.02.2014 with a production capacity of 1,80,000 TPA. The lease was initially granted for a period of 3 yrs w.e.f 02.02.2010. However since the EC was granted in 2014 the mine was never operational. Allahabad High Court in its decision in Writ Petition 12136 of 2015 dated 21.04.2015 granted extension of validity of lease for the period in which mining was not done in absence of EC.

The total lease area is 68.29 Ha. The Project Proponent reported that no national park, Wild Life Sanctuary/Tiger Reserve/Schedule I species etc. is located within 10 km of the mine. The operation will be opencast semi mechanized method. All operation of mining i.e. excavation, sorting, sizing and loading will be done by manual means. No drilling/blasting is needed. 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 ultimate depth of mining is up to 3m BGL. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 20.0 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 80 Lakh. It was informed by the PP 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 following: (i) Replenishment and drainage study from a reputed Institution; (ii) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography; (iii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) and its impact on Environment; (iv) Impact of all existing mining on the present land use in the study area; and (v) Details of excavation schedule & sequential mining plan.

(2.47). River Bed Minor Mineral Mine/quarry of M/s Sri Prakash Chandra Dwivedi located at Village Marauli, Tehsil-Banda, District-Banda (Uttar Pradesh) Consultant (60.73 ha; 7,20,000 TPA) IA/UP/MIN/30609/2015 ENVIRTA Sustainable Solutions India Pvt Ltd

The Proposal of M/s Shri Prakash Chandra Dwivedi is for Mining of River Bed Minor Mineral Sand in Marauli with proposed production capacity of 7,20,000 TPA. The mine is located at Village – Marauli, Tehsil- Banda, District-Banda, Uttar Pradesh. The Geographical Co- ordinates for the mine site are Latitude- : 25°34' 50.15" to 25°34' 45.65" North & Longitude- : 80°16' 48.32" to 80°17'17.91" East. The mine site falls on Survey of India Toposheet no.- 63C/6.

The environment clearance was granted on 21.02.2014 with a production capacity of 1,80,000 TPA. The lease was initially granted for a period of 3 yrs w.e.f 14.09.2009. However since the EC was granted in 2014 the mine was never operational. Allahabad High Court in its decision in Writ Petition 12136 of 2015 dated 21.04.2015 granted extension of validity of lease for the period in which mining was not done in absence of EC.

The total lease area is 60.73 Ha. The Project Proponent reported that no national park, Wild Life Sanctuary/Tiger Reserve/Schedule I species etc. is located within 10 km of the mine. The operation will be opencast semi mechanized method. All operation of mining i.e. excavation, sorting, sizing and loading will be done by manual means. No drilling/blasting is needed.

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 ultimate depth of mining is up to 3m BGL. The mining will be restricted above ground water table. Extraction of mineral will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 18.0 KLD

which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 75 Lakh. 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 following: (i) Replenishment and drainage study from a reputed Institution; (ii) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography; (iii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) and its impact on Environment; (iv) Impact of all existing mining on the present land use in the study area; and (v) Details of excavation schedule & sequential mining plan.

Day 3: 28th OCTOBER, 2015 (WEDNESDAY)

(2.48). J-11015/405/2013-IA-II(M) Colour Granite Mine of M/s. Pokarna Ltd. located at Village Parvathipuram Mandal Vizianagaram District A.P. (10ha) (6000Cum/year)

The proposal of M/s. Pokarna Limited, Andhra Pradesh is for mining of Colour granite (minor mineral) with proposed capacity of 6,000 m³ /Annum. The mine lease area of 10.0 ha is located at Survey No: 121 of village - Budaravada, Mandal - Parvathipuram, District - Vijayanagaram, Andhra Pradesh. The mine lease area lies between Latitude 18°45'25.2" to 18°45'41.4" and Longitude 83°14'2.7" to 83°14'57.1" on Survey of India topo-sheet number 56 - N/1. It is 'A' Category project as the project is located within 5 km radius i.e. 1.5 km of Andhra Pradesh and Orissa interstate boundary.

The proposal of ToR was considered by the Expert Appraisal Committee in its 14th meeting held during November, 20th-22nd, 2013 to determine the Terms of Reference for undertaking detailed EIA study. The ToR was issued by MoEFCC vide letter No. J-11015/405/2014-IA.II(M), dated 22nd January 2014. The mine lease area is 10.0 ha which is Government Poramboke land. No forest land is involved. The Mining Plan has been approved by Director of Geology and Mining Department, Govt. of Andhra Pradesh vide letter no. 2200/MP-VZM/13 dated 18-09-2013.

Method of Mining is open cast semi-mechanized opencast quarrying by using jack hammer drilling & cutting by wire saw & blasting by low explosives where required. Mining will be carried up to a maximum depth of 20 meters from the surface of deposit. The mining activity will be carried out in 2.1 ha for the first five years of operation and safety distance of 7.5 m will be left for no mining zone. The site

elevation is 170 m AMSL. The ground water depth is 60m BGL. The total water requirement is 12 KLD including water demand for domestic purposes, dust suppression and plantation development which shall be met by tankers supply from the nearby village. The working is proposed on higher elevations; therefore no ground water interception during the mining operation is envisaged. The Project Proponent reported that mining will be done leaving a safety distance of 7.5 m all along the boundaries of the mine lease area. Mining will be done only during day time. Mineral will be transported through existing road.

Project Proponent reported that no National Parks/Wildlife Sanctuaries are located within the 10 km study area of the mine lease. It is noted that Keshali Protected Forest is located at 1.5 km from the mine lease area on North direction. None of the Protected/Reserve forests are within the mine lease area. The baseline data was generated during the period of December 2013 – February 2014. The parameters for water and air quality were within the permissible limits. The Committee deliberated the baseline data collected by the Project Proponent.

The Public Hearing for the proposed project was conducted on 30.07.2015 at 11.00 A.M. at the Mandal Parishad Prathamika Pathasala at D.K. Patnam village, Budaravada Panchayat, Parvathipuram Mandal, Vizayanagaram district, Andhra Pradesh. The Public Hearing was presided over by Sri. B. Ramarao, Joint Collector & Addl. District Magistrate, Srikakulam. The representatives from Andhra Pradesh Pollution Control Board were also presented. The issues raised during Public Hearing were also considered and discussed during the meeting, which inter-alia included priority to local people in employment, effective implementation of measures to control dust pollution, safe guard measures, providing local amenities to village, improving revenues to the Panchayat due to quarrying of granite from the village etc.

The cost of the project is Rs.75 Lakhs. The Proponent has earmarked recurring cost of Rs. 15 Lakhs per annum towards Environmental Protection Measures. Project proponent informed that Rs. 9,00,000/- have been earmarked towards CSR activities during mining operation. Project proponent reported that there is no litigation pending against the project.

The Committee after detailed deliberations **recommended** the Proposal for environmental clearance for Mining of Colour Granite with proposed production capacity of 6,000 m³/Annum.

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

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

(2.49) J-11015/404/2013-IA-II(M) Colour Granite Mine of M/s. Pokarna Ltd. located at Village Parvathipuram Mandal Vizianagaram District A.P. (25ha) (12,000 Cum/year).

The proposal of M/s Pokarna Limited, Andhra Pradesh is for mining of Colour granite (minor mineral) with proposed capacity of 12,000 m³ /Annum. The mine lease area of 25.0 ha is located at Survey No: 121 of village - Budaravada, Mandal - Parvathipuram, District - Vijayanagaram, Andhra Pradesh. The mine lease area lies between Latitude 18°45'7.2" to 18°45'33.01" and Longitude 83°14'36.6" to 83°14'59.6" on Survey of India topo-sheet number 56 – N/1. It is 'A' Category project as the project is located within 5 km radius i.e. 1.5 km of Andhra Pradesh and Orissa interstate boundary.

The proposal of TOR was considered by the Expert Appraisal Committee in its 14th meeting held during November, 20th-22nd, 2013 to determine the Terms of Reference for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter No. J-11015/404/2014-IA.II(M), dated 22nd January 2014. The mine lease area is 25.0 ha which, is Government Poramboke land. No forest land is involved. The Mining Plan has been approved by Director of Geology and Mining Department, Govt. of Andhra Pradesh vide letter no. 2199/MP-VZM/13 dated 18-09-2013.

The method of mining is open cast semi-mechanized quarrying by using jack hammer drilling & cutting by wire saw & blasting by low explosives where required. Mining will be carried up to a maximum depth of 20 meters from the surface of

deposit. The mining activity will be carried out in 3.0 ha for the first five years of operation and safety distance of 7.5 m will be left for no mining zone. The site elevation is 175 m AMSL. The ground water depth is 60m BGL. The total water requirement is 12 KLD including water demand for domestic purposes, dust suppression and plantation development which shall be met by tankers supply from the nearby village. The working is proposed on higher elevations; therefore no ground water interception during the mining operation is envisaged.

The Project Proponent reported that mining will be done leaving a safety distance of 7.5 m all along the boundaries of the mine lease area. Mining will be done only during day time. Mineral will be transported through existing road. The Project Proponent reported that no National Parks/Wildlife Sanctuaries are located within the 10 km study area of the mine lease. It is noted that Keshali Protected Forest is located at 1.5 km from the mine lease area on North direction. None of the Protected/Reserve forests are within the mine lease area.

The baseline data was generated during the period of December 2013 – February 2014. The parameters for water and air quality were within the permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Project proponent reported that no R&R plan is applicable for this project as there are no inhabitants in and around the mine lease area. The Public Hearing for the proposed project was conducted on 29.07.2015 at 11.00 A.M. at the Mandal Parishad Prathamika Pathasala at D.K. Patnam village, Budaravada Panchayat, Parvathipuram Mandal, Vizayanagaram district, Andhra Pradesh. The Public Hearing was presided over by Sri. B. Ramarao, Joint Collector & Addl. District Magistrate, Srikakulam. The representatives from Andhra Pradesh Pollution Control Board were also presented. The issues raised during Public Hearing were also considered and discussed during the meeting, which inter-alia included priority to local people in employment, effective implementation of measures to control dust pollution, safe guard measures, providing local amenities to village, improving revenues to the Panchayat due to quarrying of granite from the village etc.

The cost of the project is Rs.125 Lakhs. The Proponent has earmarked recurring cost of Rs. 15 Lakhs per annum towards Environmental Protection Measures. Project proponent informed that Rs. 9,00,000/- have been earmarked towards CSR activities during mining operation. Project proponent reported that there is no litigation pending against the project.

The Committee after detailed deliberations **recommended** the Proposal for environmental clearance for Mining of Colour Granite with proposed production capacity of 12,000 m³/Annum.

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

medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of any reputed/National Institute of Miners Health, for ensuring good occupational environment for mine workers, shall be implemented; (ii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry; (iii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (iv) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; and (v) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and Washing of all transport vehicles should be done inside the mining lease.

(2.50). J-11015/295/2011-IA.II (M) Sand / Muram Mining of M/s Ramakbal Nishad, Village Chanuki, District Deoria, Uttar Pradesh (10.12 ha; 90,000 TPA production) (Grass Roots Research & Creation India (P) Ltd.).

The proposal of Chanuki Sand/Morum Mining Project is for collection of river bed sand from the River Choti Gandak with proposed production capacity of 90,000 TPA (ROM). The mining lease area is located in Village Chanuki, Tehsil: Deoria, District: Deoria, Uttar Pradesh. The proposed activity will be carried out in the bed of the River Choti Gandak, between Latitude 26°14'46.85"N to 26°14'8.50"N and Longitude: 83°59'39.17"E to 83°59'40.83"E. The MLA is 10.12 ha and it is a Category 'A' project as interstate boundary with Bihar is located at a distance of 2.45 km SE direction. The mine lease area is river bed.

The proposal was considered by the Expert Appraisal Committee in its meeting held on 21st-23rd February 2012, to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by EAC vide letter no. J-11015/295/2011-IA.II (M) dated 04th September, 2012.

with condition vide letter No. 2028/ MP/14 dated 10/03/2015. The proposed project is an open-cast manual mining project, confined to extraction of sand/moram from the proposed site. The operation will be manual with use of hand tools like shovel, pan, sieves, etc. Sand will be separated by sieving process. Excavation will be carried out up to a maximum depth of 3 meter. Total material handling in a year would be 90,000 TPA and the total reserve is calculated as 2, 16,000tonnes. The Extraction of sand/moram material will be done only during the day time and completely stopped during the monsoon season. Mining will be done leaving a safety distance from the banks i.e. 10% of the width of the river will be left for bank stability from both the banks.

It was reported by the PP that there are no Protected Areas viz. Wild Life Sanctuary/Tiger Reserve/National Park/Schedule I species etc. within 10 km of the mine. Total water requirement for the project is approx. 1.76 KLD. Baseline studies were carried out during 2013 (Oct-2013 to Dec-2013). All the parameters for air, water, soil & noise quality were reported to be within permissible limits.

The Public Hearing for this project was held at Village Chanuki, Tehsil: Deoria, District: Deoria, Uttar Pradesh on 17th January, 2015. The Public Hearing was presided over by Shri Virendra Kumar Gupta, ADM, Deoria. The issues raised during the Public Hearing were also considered and discussed during the meeting. The cost of the project is Rs.15 lakh and Rs 5.1 lakh is allotted for EMP implementation. This covers cost towards periphery development, environment care, plantation and social welfare etc. It was reported by the PP that there is no court case related to the project. The Mining Officer vide letter dated 17.08.2015 has also clarified that draft Mine plan placed during Public Hearing and Final approved mine plan has no material changes except typographical and language changes.

The Committee after detailed deliberations **recommended** the Proposal for environmental clearance for Mining of **Sand / Muram** with proposed production capacity of 90,000 TPA (ROM).

The Committee also **recommended additional specific conditions** viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of any reputed/National Institute of Miners Health, for ensuring good occupational environment for mine workers, shall be implemented; (ii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report

on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry; (iii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (iv) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; and (v) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and Washing of all transport vehicles should be done inside the mining lease.

(2.51). J-11015/171/2014-IA.II (M) Colour Granite Mine of M/s Rajyog Minerals Pvt. Ltd. located at Unsurveyed Area of Surjini Village, Meliaputti Mandal, Srikakulam District Andhra Pradesh (10.0ha)(14400 Cum/Year)

The proposal of M/s Rajyog Minerals Pvt. Limited, is for mining of Colour granite (minor mineral) with proposed capacity of 14,400 m³ /Annum. The mine lease area of 10.0 ha is located at Village -Surjini, Mandal - Meliaputti, District - Srikakulam, Andhra Pradesh. The mine lease area lies between Latitude 18°47'31.49 to 18°47'51.25"N and Longitude 83°13'25.58" to 83°13'32.23"E on Survey of India topo-sheet number 74 - B/1. It is 'A' Category project as the project is located within 5 km radius i.e. 0.7 km of Andhra Pradesh and Orissa interstate boundary.

The proposal of TOR was considered by the Expert Appraisal Committee in its 21st meeting held during July, 8th - 9th, 2014 to determine the Terms of Reference for undertaking detailed EIA study. The ToR was issued by MoEFCC vide letter No. J-11015/171/2014 IA.II, dated 12th August 2014. The Proponent submitted EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing. The mine lease area is 10.0 ha which is Government Poramboke land. No forest land is involved. The Mining Plan has been approved by Director of Geology and Mining Department, Govt. of Andhra Pradesh vide letter no. 298/MP-TKL/2014 dated 2-03-2015.

Method of Mining is open cast semi-mechanized quarrying by using jack hammer drilling & cutting by wire saw & blasting by low explosives where required. Mining will be carried up to a maximum depth of 20 meters from the surface of deposit. The mining activity will be carried out in 1.5 ha for the first five years of operation and safety distance of 7.5 m will be left for no mining zone. The site elevation is 237 m AMSL. The ground water depth is 50m BGL. The total water requirement is 12 KLD including water demand for domestic purposes, dust suppression and plantation

development which shall be met by tankers supply from the nearby village. The working is proposed on higher elevations; therefore no ground water interception during the mining operation is envisaged.

The Project Proponent reported that mining will be done leaving a safety distance of 7.5 m all along the boundaries of the mine lease area. Mining will be done only during day time. Mineral will be transported through existing road. The Project Proponent reported that no National Parks/Wildlife Sanctuaries are located within the 10 km study area of the mine lease. It is noted that Durgam Reserve Forest is located at 2.4 km from the mine lease area on NE direction and Jhadupalli Reserve Forest is located at 3.7 km on South direction and Banapuram Reserve Forest is located at 3.81 km on SE direction of the mine lease area. None of the Protected/Reserve forests are within the mine lease area.

The baseline data was generated during Post monsoon season i.e. October 2014 – December 2014. The parameters for water and air quality were within the permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. The Public Hearing for the proposed project was conducted on 17.07.2015 at 11.00 A.M. at the Mandal Parishad Prathamika Pathasala at Gangarajapuram village, Meliaputti taluk, Srikakulam district, Andhra Pradesh. The Public Hearing was presided over by Sri. Vivek Yadav, Joint Collector & Addl. District Magistrate, Srikakulam. The issues raised during Public Hearing were also considered and discussed during the meeting, which inter-alia included priority to local people in employment, effective implementation of measures to control dust pollution, safe guard measures, providing local amenities to village, improving revenues to the Panchayat due to quarrying of granite from the village etc.

The cost of the project is Rs.75 Lakhs. The Proponent has earmarked recurring cost of Rs. 14 Lakhs per annum towards Environmental Protection Measures. Project proponent informed that Rs. 10,00,000/- have been earmarked towards CSR activities during mining operation. Project proponent reported that there is no litigation pending against the project.

The Committee after detailed deliberations **recommended** the Proposal for environmental clearance for Mining of Colour Granite (Minor Mineral) with proposed production capacity of **14,400 m³ per Annum**.

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

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

(2.52). J-11015/170/2014-IA.II (M) Colour Granite Mine of M/s Rajyog Minerals Pvt. Ltd. located at Unsurveyed hill of Surjini Village, Meliaputti Mandal, Srikakulam District Andhra Pradesh (21.30ha)

The proposal of M/s Rajyog Minerals Pvt. Limited, is for mining of Colour granite (minor mineral) with proposed capacity of 4,914 m³ /Annum. The mine lease area of 21.3 ha is located at Village -Surjini, Mandal - Meliaputti, District - Srikakulam, Andhra Pradesh. The mine lease area lies between Latitude 18°47'9.9" to 18°47'18.09"N and Longitude 83°13'19" to 83°13'31.9"E on Survey of India topo-sheet number 74 - B/1. It is 'A' Category project as the project is located within 5 km radius i.e. 0.7 km of Andhra Pradesh and Orissa interstate boundary.

The proposal of TOR was considered by the Expert Appraisal Committee in its 21st meeting held during July, 8th - 9th, 2014 to determine the Terms of Reference for undertaking detailed EIA study. The ToR was issued by MoEFCC vide letter No. J-11015/170/2014-IA.II(M), dated 12th August 2014. The Proponent submitted EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 21.3 ha which is Government Poramboke land. No forest land is involved. The Mining Plan has been approved by Director of Geology and Mining Department, Govt. of Andhra Pradesh vide letter no. 1207/MP-SKL/13 dated 13-09-2013.

Method of Mining is open cast semi-mechanized quarrying by using jack hammer drilling & cutting by wire saw & blasting by low explosives where required. Mining will be carried up to a maximum depth of 20 meters from the surface of deposit. The mining activity will be carried out in 1.0 ha for the first five years of operation and safety distance of 7.5 m will be left for no mining zone. The site elevation is 280 m AMSL. The ground water depth is 50m BGL. The total water requirement is 10 KLD including water demand for domestic purposes, dust suppression and plantation development which shall be met by tankers supply from the nearby village. The working is proposed on higher elevations; therefore no ground water interception during the mining operation is envisaged.

The Project Proponent reported that mining will be done leaving a safety distance of 7.5 m all along the boundaries of the mine lease area. Mining will be done only during day time. Mineral will be transported through existing road. The Project Proponent reported that no National Parks/Wildlife Sanctuaries are located within the 10 km study area of the mine lease. It is noted that Durgam Reserve Forest is located at 2.4 km from the mine lease area on NE direction and Jhadupalli Reserve Forest is located at 3.7 km on South direction and Banapuram Reserve Forest is located at 3.81 km on SE direction of the mine lease area. None of the Protected/Reserve forests are within the mine lease area.

The baseline data was generated during Post monsoon season i.e. October 2014 – December 2014. The parameters for water and air quality were within the permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. The Public Hearing for the proposed project was conducted on 16.07.2015 at 11.00 A.M. at the Mandal Parishad Prathamika Pathasala at Gangarajapuram village, Meliaputti taluk, Srikakulam district, Andhra Pradesh. The Public Hearing was presided over by Sri. Vivek Yadav, Joint Collector & Addl. District Magistrate, Srikakulam. The issues raised during Public Hearing were also considered and discussed during the meeting, which inter-alia included priority to local people in employment, effective implementation of measures to control dust pollution, safe guard measures, providing local amenities to village, improving revenues to the Panchayat due to quarrying of granite from the village etc.

The cost of the project is Rs.75 Lakhs. The Proponent has earmarked recurring cost of Rs. 14 Lakhs per annum towards Environmental Protection Measures. Project proponent informed that Rs. 10,00,000/- have been earmarked towards CSR activities during mining operation. Project proponent reported that there is no litigation pending against the project.

The Committee after detailed deliberations **recommended** the Proposal for environmental clearance for Mining of Colour Granite (Minor Mineral) with proposed production capacity of **4,914 m³ per Annum**.

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

(2.53). J-11015/59/2015-IA-II (M) Mining of Mineral Sand (Minor Mineral) with proposed production capacity of 25.20 Lakhs TPA (ROM) by M/s Tekno Exports located at Village – Barauli-2, Tehsil and District – Sonipat, Haryana (MLA-68.19 ha)

The proposal of M/s Tekno Exports is for Sand (Minor Mineral) Mining with annual production capacity 25.2 Lakh Tons of Sand (Minor Mineral) in 68.19 Ha. The mine lease (ML) area lies mainly on the bed of River Yamuna and partly in agriculture field over an area of 68.19 Ha of District - Sonipat, State - Haryana.

The Latitudes and Longitudes of MLA in River bed are North 29° 01' 27"N, 29°01'27" N, 29°01'13"N and 29°01'13" N and East 77° 09'54"E, 77°10'55"E, 77°10'13"E and 77°11'03"E; in outside river bed are North 29°01'10"N, 29° 01'10"N, 29°01'00"N and 29°01'00"N and in East 77° 08'57.5"E, 77° 09'7.5"E, 77° 08'55"E and 77° 09'10"E on Survey of India toposheet (OSM) numbers H43R4, H43X1, H43R8 and H43X5. The Project is located in Seismic zone-IV. There is interstate boundary of of Haryana and Uttar Pradesh at a distance of 1 km East.

The proposal was considered by the Expert Appraisal Committee in its 32nd EAC Meeting held during April 29-30, 2015 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF&CC vide letter No. J-11015/59/2015-IA-II (M) dated 28-5-2015. The proponent submitted Final EIA/EMP to the Ministry on 07.09.2015 for seeking Environmental Clearance after conducting public hearing. The proposal was considered by Expert Appraisal Committee in its 39th Meeting held during October 26-28th, 2015 for consideration of Environmental clearance.

The mine lease area 68.19 Ha lies mainly in the bed of River Yamuna (57.99 Ha.) and partly in outside riverbed (10.20 Ha). The land use of the lease area is Govt. waste land i.e. Gair mumkin nadi nallah in riverbed and Private land in outside riverbed. No forest land is involved. The Letter of Intent (LOI) of mining lease was granted to M/s Tekno Exports on 21st January 2015 for 10 years by Director, Department of Mines & Geology, Haryana vide letter No. DMG/Hy/Cont/Barauli-2/2015/318. The Mining Plan is approved by Director General, Mines and Geology Department, Govt. of Haryana; vide letter no. DMG/Hy/MP/SNP/Barauli-2/6009 dated 09/07/2015.

Method of mining is opencast method (semi-mechanized) in riverbed and opencast method (mechanized) in outside riverbed. The total water requirement is 25 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by hired tanker. The working is proposed only upto 3 meters in riverbed and upto 9 m in outside riverbed; 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. Mine working will be opencast by semi-mechanized (in riverbed) and mechanized (in outside riverbed) method. 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 shall be permitted below this level.

Project Proponent reported 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 700 per day (25 tonnes capacity each) which increase 264 PCUs per hour for three highways NH1, SH11 and SH57. The level of service (LOS) for SH1 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 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 as directed by committee members. All the parameters for water, soil, noise and air quality were within permissible limits. The public hearing for the Proposed Project was conducted on 03.09.2015 at 10:00 am at mine site in village-Barauli, Tehsil and Distt.- Sonipat, Haryana. The Public hearing was chaired 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. 22.20 Crore; cost for Environmental Protection is Rs. 21.10 Lakhs; Budget for Occupational Health and Safety is Rs. 5 Lakhs. For CSR Rs. 23 Lakhs/annum will be allocated. The project proponent will deposit 10% of the annual contract money *i.e.* Rs. 1 Crore 36 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. 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) with proposed production capacity of **25.20 Lakhs TPA (ROM)**.

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) 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 1.5 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.

(2.54). J-11015/58/2015-IA.II (M) Mining of Mineral Sand (Minor Mineral) with proposed production capacity of 16.5 Lakhs TPA (ROM) by M/s Aleron Consultats (India) Pvt. Ltd. located at Village – Bega-Chandauli-Pabnera, Tehsil & District – Sonapat, Haryana (MLA-45.22 ha).

The proposal of M/s Aleron Consultants (India) Pvt. Ltd. is for Sand (Minor Mineral) Mining with annual production capacity 16.5 Lakh Tons of Sand (Minor Mineral) in 45.22 Ha. The mine lease (ML) area lies mainly on the bed of River Yamuna and partly in outside riverbed over an area of 45.22 Ha of District - Sonapat, State - Haryana.

The Latitudes and Longitudes of MLA in River bed are North 29° 07' 23" N, 29° 07' 54" N, 29° 08' 11" N and 29° 08' 11" N and East 77° 08' 32" E, 77° 08' 49" E, 77° 08' 40" E and 77° 08' 32" E; in outside river bed are North 29° 07'42" N , 29° 07'42" N, 29° 07'58" N and 29° 7'58" N and in East 77° 07'12.5" E, 77° 07'20" E, 77° 07'17.5" E and 77° 07'10" E on Survey of India toposheet (OSM) numbers H43R4. The Project is located in Seismic zone-IV. This project falls under Category "A", due to interstate boundary of Haryana and Uttar Pradesh at a distance of 1 km East.

The proposal was considered by the Expert Appraisal Committee in its 32nd EAC Meeting held during April 29-30, 2015 to determine the Terms of Reference for undertaking detailed EIA study. The TOR were issued by MoEF&CC vide letter No. J-

11015/58/2015-IA-II (M) dated 28.05.2015. The proposal was considered by Expert Appraisal Committee in its 39th Meeting held during October 26-28th, 2015 for consideration of Environmental Clearance.

The mine lease area 45.22 ha lies mainly in the bed of River Yamuna (35.02 ha) and partly in outside riverbed area (10.20 ha). The land use of the lease area is Govt. waste land i.e. Gair mumkin nadi nallah in riverbed and Private land in outside riverbed. No forest land is involved. The Letter of Intent (LOI) of mining lease was granted to M/s Aleron Consultants (India) Pvt. Ltd. on 21st January 2015 for 8 years by Director, Department of Mines & Geology, Haryana vide letter No. DMG/Hy/Cont/Bega-Chanduali-Pabnera/2015/316. The Mining Plan is approved by Director General, Mines and Geology Department, Govt. of Haryana; vide letter no. DMG/Hy/M. Plan/SNP/Bega/Chanduali/Pabnera/3939 dated 19/06/2015.

Method of mining is opencast method (semi-mechanized) in riverbed and opencast method (mechanized) in outside riverbed. The total water requirement is 20 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by hired tanker. The working is proposed only upto 3 meters in riverbed and upto 9 m in outside riverbed; 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. Mine working will be opencast by semi-mechanized (in riverbed) and mechanized (in outside riverbed) method. 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 shall be permitted below this level. The Project Proponent reported 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 221 to 218 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 (25 tonnes capacity each) which increase 180 PCUs per hour for three highways NH1, SH11 and SH57. The level of service (LOS) for SH1 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 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 parameters for water, soil, noise and air quality were within permissible limits.

The public hearing for the Proposed Project was conducted on 26.08.2015 at 10:00 am at mine site in village-Chandauli, Tehsil- Ganaur, 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. 12.50 Crore; cost for Environmental Protection is Rs. 20.10 Lakhs; Budget for Occupational Health and Safety is Rs. 5 Lakhs. For CSR Rs. 20 Lakhs/annum will be allocated. The project proponent will deposit 10% of the annual contract money i.e. Rs. 92 Lakhs to the Mines and Minerals Development, Restoration and Rehabilitation Fund.

It was reported by PP that 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 Project Proponent submitted that he has not filed any court case against any department neither he is a 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) with proposed production capacity of **16.5 Lakhs TPA (ROM)**.

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) 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 1.5 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.

(2.55). J-11015/146/2011-IA.II (M) Mining of Sand, Stone & Bajari of M/s Shri Sunil Kumar Garg, Village & P.O. Dhabota, Tehsil Nalagarh, District Solan, Himachal Pradesh.

The proposal is river bed sand, stone and bajri mining with proposed production of 77000 metric TPA in mining lease area of 36.885 ha and installation of crusher by M/s Shiv Bhawani Stone Crusher at Khasra Number 2232/1324, 2261/1535.2265, /1539, 1804, 1923/1, 904/843/3, 856/180, 199/1 at Mauza /Mohal Ratyod & Bhanglan, Tehsil-Nalagarh, District-Solan, Himachal Pradesh. The Latitude and Longitude of the proposed site is 31°05'42" N - 31°06'55" N and 76°37'44"E - 76°40'26" E. This is a category 'A' project as the interstate boundary with Punjab is 4km from the mine lease area.

The proposed project was considered in the 18th meeting of the Expert Appraisal Committee for Environmental Appraisal of Mining Projects of the Ministry of Environment and Forests on August 24-26, 2011 to determine the terms of reference for undertaking detailed EIA study. The TOR was issued by MOEF vide letter No. J-11015/146/2011-IA.II (M) dated 28th March 2012 for mining of mineral Sand, Stone and Bajri.

It was noted that this is a violation case as mine was operating from 2008 to 2011 without obtaining prior EC. The PP informed that court case which has been filed by State Pollution Control Board against all River Bed Mining Project of Minor Minerals (Sand, Bajri & Stone) in the court of Ld. Chief Judicial Magistrate, Nalagarh, District Solan, H.P. Having lease area more than 5 ha as per the violation of Environment (Protection) Act 1986 and EIA notification, 2006 without obtaining the mandatory Environmental clearance. The Board resolution in form of affidavit dated 16.12.2012 has been submitted. The letter of Mining Officer dated 04.09.2015 in compliance to

directions dated 29.01.2014 was submitted informing that mining operations had been suspended since 2011.

The project proponent made a presentation with regard to compliance of TOR for mining of sand, stone and bajri with capacity of 94,500 MT/Year. It was noted that the production capacity was decreased from 94,500 MT/Year at TOR stage to 77,000 TPA as per approved mine plan. The mine lease area is 36.8845 ha, which is a riverbed. The mining plan is approved by Geology wing of Industry department, Himachal Pradesh. The mining plan is approved by State Geologist vide letter No Udyog-Bhu (Khani-4) Laghu-317/2001-7793 dated 11.11.2013. The mining method shall be manual using hand tools for collection of sand stone and bajri from the river bed. It was reported by the project proponent, that maximum solid waste generation will be 23,000 metric tons of waste silt and clay per annum which would be left in the pits as back fill. There is no water requirement for mining process. Water is only required for drinking purposes and sprinkling of water for dust suppression. There is no ground water intersection as the depth of mining would be one meter only. It was reported by the PP that there is no protected area viz. wild life Sanctuaries/ Tiger Reserve/ National Park/ Schedule I species etc. within 10 km of the mine.

Baseline studies were carried out during post monsoon season in 2011 (Oct 2011 – Dec 2011). All the parameters of water and air quality were reported to be within permissible limits. The Public Hearing for the project was conducted at village Dugri (Banglow), Tehsil Nalagarh on 28-05-2013. The Public Hearing was presided by ADC (District Solan). The issues raised during the public hearing were also considered and discussed during the meeting, which inter-alia, included that mining activities are carried out as per stipulate guidelines, sprinkling of water etc. as per villager's requirements, it was informed by the Project proponent that they would give preference to local for employment, invest funds for social development in the area etc. These have been incorporated in the Project plan and budgetary provisions. The cost of the project is 55 Lakhs the capital cost of EMP is Rs 11.5 lakhs and amount earmarked for CSR fund is Rs 4.00 Lakhs for plan period.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri with proposed production capacity of 77,000 metric TPA (ROM).

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

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

(2.56).J-11015/29/2015-IA.II (M) Mining of Sand (Minor Mineral) in the Mine of "Mimarpur Sand Unit" with proposed production capacity of 12.75 Lakhs TPA (ROM) by M/s Malik Buildcon Pvt. Ltd., located at village- Mimarpur, Tehsil & District – Sonipat, Haryana (36.85 ha) ENVIRTA Sustainable Solutions India Pvt Ltd

The proposal of M/s Malik Buildcon Pvt. Ltd. is for mining of Sand (Minor Mineral) contains two mining blocks comprising the riverbed (Area 25.85 Ha) and outside river bed (Area 11.00 Ha) with proposed production capacity of 12,75,000 T/annum(ROM). The mine lease area is located at Village Mimarpur, District: Sonapat, Haryana. The mine lease area lies on river bed of River Yamuna and Outside River Bed. The mine lease area consists of two blocks. The Latitudes and Longitudes of the River Bed Block : 29° 04' 34.0" to 29° 04' 48.3" N and 77° 08' 48.7" to 77° 9' 32.3"E and Outside River Bed : 29' 04.45.7" to 29° 4' 57.4" N and 77° 8' 7.1" to 77°8' 19.1" E on Survey of India toposheet numbers H43R4. The Project is located in Seismic zone-IV.

Letter of intent was granted in favour of M/s Malik Builcon Pvt. Ltd for mining lease over an area of 36.85 hectares under Haryana Mineral Concession, Stocking, Transportation of Minerals & Prevention of Illegal Mining Rules-2012 vide Memo no. DMG/HY/Cont/Mimarpur Sand Unit/2015/27.

The proposal was considered by the Expert Appraisal Committee in its meeting held during 16-18th March, 2015 to determine the Terms of Reference for undertaking detailed EIA study. The TORs were issued by EAC vide letter no. J-11015/29/2015-

IA.II (M) dated 15th April 2015. The baseline monitoring was done during 1st March 2015 to 31st May, 2015.

The Mining Plan was approved by Department of Mine & Geology, Chandigarh, Haryana vide letter no. DMG/HY/MP/SMP/Mimarpur/7429-7432 dated 12/8/2015. The method of mining is by Open cast semi-mechanized (river bed) and mechanized (Outside River Bed). It is confined to collection of sand from the river bed and Outside river bed, transporting the sand by covered trucks. The sand mining will be carried out up to a depth of 3 m BGL or above groundwater level whichever is less of the river bed and upto 9 m on Outside River Bed.

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

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that 170 no. of trucks will be deployed per day (25 tonnes capacity each) which increases 63 PCUs per day and the level of service (LOS) remains as "B" on SH-57 and on NH-1 (LOS) will change as "C". Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). Divisional Forest Office, Sonapat, Forest Department, vide letter No 625 on dated 18/5/2015 has confirmed that mine lease area does not fall under Forest Land. There is one Schedules-I species namely Pea fowl reported in the buffer zone. The conservation plan has been prepared and the Proponent has proposed a sum of Rs. 16.84 Lakhs for conservation of Schedule species. Replenishment of Sediments will be occur every year. Total water requirement for the project is approx. 22 KLD. Baseline data on Ambient Air Quality, Water Quality, Soil Quality and Noise Quality has been collected for pre monsoon i.e. March 2015-May 2015.

The Public Hearing was held on 27.08.2015 and presided over by – Shri Shiv Prasad Sharma, Additional District Commissioner, Sonapat. The issues raised during the Public Hearing were also considered and discussed during the meeting. The Capital Cost of the Project is 1 Crore, and the annual Capital Cost- 5.0 Rs. in lakhs, Recurring Cost- 1.35 Rs in lakhs towards the environmental protection measures. Proponent informed that Rs. 2.75 Lakhs per annum as recurring and 8.40 Lakhs as capital cost have been earmarked towards CSR activities for next five years of mining operation.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Mineral Sand (Minor Mineral) with proposed production capacity of **12.75 Lakhs TPA (ROM)**.

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) 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 1.5 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.

(2.57).J-11015/517/2007/IA.II(M) China Clay Mine (lease area 91.52 ha & china clay production of 1, 00,500 TPA) of M/s D.C. Dagara, District Mayurbhanj, Orissa

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

(2.58). J-11015/161/2011-IA-II(M) Sand/Moram Mining from river Sone of M/s Shri Ved Prakash Yadav, located at Village Agorikhas, Tehsil Robertesganj, District Sonbhadra, State Uttar Pradesh (74.99 ha; 90,000 TPA).

The proposal of Shri Ved Prakash Yadav is for mining of Sand/Moram (Minor Mineral) with proposed production capacity of 90,000 TPA (ROM). The mine lease area is located at Village-AgoriKhas, Tehsil: Robertsganj and District: Sonbhadra, Uttar Pradesh and the mine lease area is 74.99 ha. The mine lease area lies on Son River bed. The Latitudes and Longitudes of the mine lease area lies between 24⁰ 32' 54.04" N to 24⁰ 33' 49.80" N and 82⁰ 57' 26.35" E to 82⁰ 57' 41.57" E on Survey of India toposheet numbers 63L/14. The Project is located in Seismic zone-III.

The proposal is for renewal of mine lease which fell due on 9th March, 2012 for production of 90,000 TPA of Sand from the bed of River Son. The mine is reported to be closed presently since 30.6.2011. The TOR was issued by MoEF&CC vide letter No. J-11015/161/2011-IA.II (M), dated 28th February, 2012.

The lessee has applied for the lapsed period i.e. for 8 months 9 days vide letter dated 09/03/2015. The mine plan is approved by Directorate of Geology & Mining U.P; vide letter No. 1904/ MP/15 dated 16/02/2015. Method of Mining is manual opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and not less than one meter from the water level of the River Chanel whichever is reached earlier. Proponent informed that 59.992 ha area will be used for excavation and 14.998 ha will be left as no mining zone/safety distance (bank stability area). The Ground water depth is 4.74 m BGL. The total water requirement is 4 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply, No Objection Certificate from Gram Panchayat has been obtained in this regard.

Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. No mining operation shall be carried out within 50 m of railway line, reservoir or road horizontally from the outer toe of the bank or the outer edge of cutting as the case may be. No ponding will take place. Mining will be done only during day time and completely stopped in monsoon season. Project Proponent reported that there will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure.

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that mining which increase 216 PCUs per day and the level of service (LOS) does Not changes from "A". Project Proponent reported that roads will be repaired regularly and maintained in good condition. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will

be maintained at sensitive places. The Project Proponent reported that Kaimur Wildlife Sanctuary falls within 10 km of the study area (1.8 km in E direction).

The baseline data was generated for the period during March 2012 to May 2012. All the parameters for water and air quality were within permissible limits. The Public Hearing for the proposed Project was conducted on 20.10.2012 at Karyalaya, Block Chopan, Distt. Sonbhadra, U.P. The Public hearing was presided over by Shree Manilal Yadav, Additional District Magistrate Shonbhadra. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields.

The cost of the Project is Rs. 20.0 Lakhs. The Proponent has earmarked Rs. 5.1 Lakhs towards Environmental Protection Measures. Proponent informed that Rs. 6.235 lakh per annum have been earmarked towards CSR activities. It was reported by the pp that there is no litigation pending against the project.

The proposal was placed in the EAC meeting held during April 29-30, 2015 wherein the Committee observed various deficiencies in the documents and presentation, therefore, the Committee desired that the Proponent shall furnish the following information/clarification for further consideration:-

- (i) The detailed Action Plan with budgetary provision for the public hearing shall be submitted.
- (ii) The questionnaires were not filled completely; revised complete questionnaires shall be submitted.
- (iii) The public hearing was conducted based on the draft mining plan. A affidavit from the PP that draft mining plan and final mining plan are same shall be submitted. In case there are any changes these shall be categorically mentioned.
- (iv) The green belt shall be developed in a manner wherein the local species are planted that is useful; a revised list of species to be planted in the green belt shall be provided.
- (v) It has been reported that there is no Schedule-I sp in the study area. However, the area is rich in biodiversity and Schedule-I sp, as the Kaimur Wildlife Sanctuary is located at a distance of 3 km from the mine lease the area shall be re-surveyed and updated list of flora and fauna shall be provided. The conservation plan for the Schedule-I sp shall be prepared and submitted.

On submission of the information proposal was considered in the present meeting the detailed Action Plan with budgetary provision for the public hearing was submitted a total of Rs 6.325 lakh was earmarked, revised complete questionnaires and an affidavit from the PP that draft mining plan and final mining

plan are same was submitted along with letter from mining officer dated 22.06.2015 conforming the same was submitted. The revised list of plant species for green belt development. The area was resurveyed for Schedule-I sp, as the Kaimur Wildlife Sanctuary is located at a distance of 1.8 km from the mine lease it was informed that Indian Tiger, Leopard, Sloth Bear, Indian Wolf and Peafowl are present in 10 km radius of the mine lease area. The conservation plan for the Schedule-I sp was also submitted.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of sand/Moram with proposed production capacity of 90,000 TPA (ROM).

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

(2.59). J-11015/207/2014-IA.II(M) Black Granite Mine with production capacity of 4372 m³/annum of M/s Tirumala Granites located in Sector 217 & 218 Veerasettipali (B) Reserve Forest, Yadamarri Mandal, Chittoor District Andhra Pradesh (6.1 ha; 4,372 m³/annum)

The Proposal of M/s Tirumala Granites is for mining of Black Granite (Minor Mineral) with production capacity of 4,372 m³/annum of Granite. The lease is located Compartment No.217 & 218, Veerasettipalli(B), Reserve Forest, Yadamarri (M) District Chittoor, Andhra Pradesh in mine lease area of 6.10 ha. The lease area falls on the Latitudes 13°05'29.0"N and Longitudes 79°00'20.7"E on the Survey of India Toposheet No. 57 O/4. It is category 'A' as interstate boundary of Andhra Pradesh and Tamilnadu is located at a distance of 0.9 km in South direction.

The proposal was considered by the Expert Appraisal Committee in its 22nd Meeting held during August 26-27, 2014 to determine the Terms of Reference for undertaking detailed EIA study. The TOR were issued by MoEF vide letter No. J-11015/207/2014-IA.II (M) dated 2nd June, 2015.

The mine Lease was granted by Director Of Mines and Geology, Hyderabad to M/s. Tirumala Granites vide Proceedings letters No. 3256/R4-2/03 dated 05.02.2003 for a period of 20 years. The total mine lease area is 6.10 ha is forest land. Forest Clearance (Stage-I) granted for a period of 10 years w.e.f 04.10.2002 under vide G.O.Ms. No:5 dated 25.01.2013 from Environment Forest Science and Technology Department, Govt.of Andhra Pradesh. The renewal of Forest clearance was granted (Stage-II) vide letter no; F.No.4-APC882/2012. BAN/2748 dated 28.01.2013 for a period of 10 years w.e.f 04.10.2012 from GOI, MOEF, Bangalore. The mining Plan has been approved by Director of Mines and Geology, Hyderabad, vide letter No. 10773/MPT/2004 dated April 2005.

Mining will be done by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 27 meters from surface of granite deposit. Total water requirement for the project will be 4.0 KLD including water demand for domestic purpose, dust suppression & green belt development which shall be met by tanker supply from nearby villages. The working is proposed on higher elevations; no ground water interception during the mining operations is envisaged. The Project proponent reported that there will be construction of temporary sheds, temporary shelters, site office, and first aid safety rooms during operational phase and these would be removed at the time of mine closure.

The Mineral will be transported through existing road. Project Proponent reported that mining activities will be carried outside the habitat areas and transportation of quarried mineral will be through the existing roadways during leisure hours only, with no increase in the existing traffic pattern. The Project Proponent reported that no ecologically sensitive area such as National Parks, Wildlife

Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). It is noted that Virisettipalli R.F (Mine site is within the forest area), Kinatampalle R.F at 4.8 Km on NE direction, Chittapara R.F at 7.4 Km on SE direction, Ponamandgi R.F at 4.8 Km on SE direction.

The base line data was generated for the period during March to May 2015 within 10 km radius of the study area. All the parameters for water, soil, noise and air quality were within permissible limits. The Committee noted that baseline data was collected prior to the issue of TOR, PP informed that TOR were prescribed in the EAC meeting held during August 26-27, 2014 however TOR were issued on 2nd June, 2015 with a considerable delay of almost a year on issue of violation which was clarified latter on by PP.

The public Hearing for the proposed Project was conducted on 15.09.2015 at Project site in Chittoor District. The Public Hearing was presided over by Shri L. Vijaya Chander, District Revenue officer & Addl. District Magistrate. The issues raised during the public hearing were also considered and discussed during the meeting, which inter-alia, included priority to local people in employment, effective implementation of measures to control dust pollution, safe guard measures, preventing damage of public roads due to quarrying of granite from the village etc.

The cost of the project is Rs. 40.0 Lakhs. The Proponent has earmarked recurring cost of Rs. 4.0 Lakhs per annum towards Environmental Protection Measures. Project proponent reported that there is no litigation pending against the project.

The Committee after detailed deliberations **recommended** the Proposal for environmental clearance for Mining of Granite (Minor Mineral) with proposed production capacity of 4,372 m³/annum.

The Committee also **recommended additional specific conditions** viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of any reputed/National Institute of Miners Health, for ensuring good occupational environment for mine workers, shall be implemented; (ii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry; (iii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation

shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (iv) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; and (v) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and Washing of all transport vehicles should be done inside the mining lease.

(2.60). J-11015/287/2011-IA-II(M) Limestone Mining Project of M/s South India Cements Ltd. located at village Malkhed, Sedam Taluk, Gulbarga District, Karnataka.

The mine is located near Malkhed Village, Sedam Taluk, Gulbarga District, Karnataka and is located between 77°09'23.6" to 77°10'05" East Longitude and 17°07'31.6" to 17°07'53.9" North Latitude and at an average elevation of 420 m above MSL. The site is a part of Survey of India Toposheet no 56/G/4.

The proposal was considered for TOR by the Expert Appraisal Committee in its meeting held during 21-23rd, February, 2012. The TOR were issued by MoEF for carrying out the Environmental Impact Assessment study vide letter No. J-11015/287/2011-IA.II (M) dated 18.07.2012. The Mine was in operation since 1986-87. The Cement Plant was intermittently in operation up to 2005. The Plant became sick during August 1993 due to financial constraints and accordingly registered with BIFR, New Delhi. No prior EC was taken and mine was operating without obtaining EC. The mine lease renewal fell due in 2000. However, mine continued to operate without obtaining EC.

The mine is located in an area of 64.73 ha Private Patta land owned by SICL. There are outcrops of limestone. No agricultural activities are in existence. The Mining plan is approved by IBM vide Letter IBM approval Letter No. 279/345/92/BNG dated 16.04.2014. Opencast mining will be carried out by mechanized method with the help of drilling, blasting, loading and transporting equipment. Part of the mining lease area is covered with 1.0 to 1.2 m thick top soil. The top-soil generated during the mining will be used for afforestation. During the life of the mine about 0.476 million cu.m of top-soil will be generated and used for afforestation purposes in 7.5 m barrier zone and safety zone.

The SICL will use about 30 m³/day of water for dust suppression. This requirement will be met from mine pit. The water table lies at 350 m above msl from the general ground level. The mine will be worked upto a depth of 50 m (380 m above msl) which is above the water table. Hence, mine working will not intersect the ground water table. There are no National Parks, Sanctuaries, Biosphere Reserves, Wildlife

Corridors, Tiger/Elephant Reserves existing/proposed within 10 km of the mine lease. There are no Schedule – I species recorded in the study area.

Baseline studies were carried out during Post Monsoon Season 2013 (October-December, 2013). The Public Hearing for the Proposed Project was conducted on 09.06.2014. Public Hearing was chaired by Dr. N.V. Prasad, Deputy Commissioner, Gulbarga District. Issues raised were employment for locals, village development, infrastructural facilities in surrounding villages Health Camp surveys etc. Action Plan with budgetary provision was submitted by the PP. An amount of Rs. 75 lakhs is budgeted for implementation of Environmental Management Plan. An amount of Rs. 11 Lakhs will be incurred annually in the operational phase for Environmental Management. Rs 1.0 crore is earmarked for implementation of social welfare measures.

The proposal was considered in the EAC meeting held during **August 26-27, 2014**, based on the discussions held the Committee was of the view that cumulative study was done without taking into account the adjoining mine and Cement Plant of M/s Orient Cements Ltd., therefore, Committee decided to defer the proposal and sought cumulative impact assessment Study Report of the area, considering the impact of mine and Cement Plant of M/s Orient Cements Ltd. and action on violation shall be complied by PP before re-consideration of the proposal.

On submission of the information and representation a personal hearing given to the project proponent in Ministry on 10.12.2014; The proposal was referred back to EAC to deliberate on issues regarding violation. Therefore, the EAC considered the proposal in the EAC meeting held during **December 22-23, 2014**. The Committee noted that the proponent had not exceeded the production from 0.12 MTPA to 1.45 MTPA. However, has continued to operate after its renewal was due in 2000 without obtaining the EC. Therefore, this is a violation case and PP shall comply with the action on violation in form of Board Resolution, Credible action from State Government and compliance to directions issued to the project. The cumulative impact assessment Study Report of the area was discussed during the meeting.

Further on representation of PP the proposal was placed in the present meeting. It was clarified by the PP that there is **no violation involved** in the light of non-applicability of violation provisions as per EIA guidelines issued from time to time for the present case for the reasons explained in brief hereunder.

- (i) The PP contested that the renewal application was filed before the Government of Karnataka during 1999 on time and as per MDR Act, 1957 or its further amendment rules 2014, being the first renewal it is a deemed renewal since 2000.
- (ii) There was no necessity to obtain prior Environmental Clearance at the time of renewal, as the applicability of the circular that the mines have to take

Environmental Clearance at the time of renewal was issued in October 2004 which shall be applied for the leases fell due for renewal after October 2004 only.

- (iii) The Company is registered with Hon'ble BIFR during 1993 and is undergoing rehabilitation process as per revival package sanctioned by Hon'ble BIFR, New Delhi under the supervision of new management who immediately after its takeover, applied for EC as per EIA 2006.
- (iv) As per EIA Guidelines 2006, the Government of Karnataka approved the completion of formalities of renewal since 2000 after submission of EC vide GO no ID/E6/BIFR/76/1993/2013-14, Bangalore dated 14.11.2013..
- (v) As per the Mines and Minerals (Development and Regulation) Act, 2015, the original lease granted on 02.08.1980 is valid up to 01.08.2030 as approved by Government of Karnataka vide its letter dated 23.05.2015.
- (vi) Till date there is neither increase in production than neither approved limits after 1994 nor increased its mining area.

In view of the above, it was observed by the committee that **this is not a violation case** as the company did not increase its production or area till date without EC and the original lease is valid till 01.08.2030.

Based on the information submitted, presentation made by the Proponent and discussions held, the Committee **recommended** the proposal for environmental clearance with additional specific condition that no expansion of mine or cement plants will be permitted if water stream passing through the mine lease area is diverted or the ground water level of the area goes down.

(2.61).J-11015/329/2009-IA-II(M) Chedwai Limestone Deposit of M/s New India Mining Corporation Pvt. Limited, Village Chedwai, District Chandrapur in Maharashtra (ML area 293.12 ha).

The proposal of M/s New India Mining Corporation Pvt. Limitedis for the mining of SandLimestone Deposit with production capacity of 1.0 MTPA. The mining areas are located at Village Chedwai, District Chandrapur in Maharashtrain mine lease area of 293.12 ha. The geographical limits of the mining area are Latitudes- 19° 27' 30" N to 19° 28' 00" N Longitudes-79° 10' 00" E to 79° 12' 00" E. Toposheet No. of the area 56M/3 with 180m to 440m (MSL) Elevation above Mean Sea Level. The life of the mine is 25 years.

The Proposal of TOR was considered by the Expert Appraisal Committee in its Meeting held on 22nd December, 2009 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF&CC vide letter no. J-11015/329/09-IA.II(M) dated January 13, 2010. The Government of Maharashtra vide letter no. MMN-10004/CR-696/UDYOG/9, Dated 28.2.2006 has approved the grant of mining lease to NIMCO. The Mining Plan with Progressive Mine Closure Plan has been

approved by Indian Bureau of Mines (IBM) vide letter no 314(3)/2009-MCCM(CZ)/MP/MS/PMCP-9 dated 31.12.2009.

The mining is proposed on the hill top and the depth of the mine from hill top will be 24m. The method of mining will be opencast mechanized. The lease area of the mine is 293.12 ha which out of which 19.24 ha which was a private revenue land and 273.88 ha was forest land. Application for diversion of forest land was submitted on April, 18th, 2011. The mine will be captive to 2.5 MTPA Cement Plant. The water table is at a depth of 10m below ground level. Mining will not intersect the ground water table. No National Park/Sanctuary/Eco-sensitive Zone is located within 10 km radius of the mine. The Pada Vegu River and Bapu River are flowing at a distance of 1.5 and 2.0 km respectively. The OB will be dumped in the non-mineralised area with construction of garland drain to prevent spillage of waste. It was informed by the PP that mine site is located outside the Critically Polluted Area.

Baseline data was collected from March 2010 to May 2010. All environmental parameters are to be within permissible limits. Public Hearing was conducted on 26.4.2011. The PH was presided over by the District Collector, Chandrapur. Public hearing was conducted successfully and issues raised by public were addressed by the project proponent with commitment for implementation of development activities. Total cost of the project is Rs. 4232.71 lakhs.

The proposal of EC was earlier considered by the Committee in its meeting held during December 19-21, 2012 wherein the Committee recommended the project for environmental clearance subject to submission of the copy of Mining Plan with Progressive Mine Closure Plan has been approved by Indian Bureau of Mines. Accordingly, vide Letter No. NIMCO/EC/2013/102 dated May 2, 2013, the copy of the Mining Plan with Progressive Mine Closure Plan approved by Indian Bureau of Mines (IBM) was submitted by PP.

The Committee deliberated at length the information submitted by PP and **recommended** the proposal for Environmental Clearance for limestone mining at capacity 1.0 MTPA of M/s New India Mining Corporation Pvt. Ltd, located at village Chedwai, District Chandrapur in Maharashtra.

AMENDMENT OF ENVIRONMENT CLEARANCE

(2.62) J-11015/377/2006-IA.II(M) Jayanthipuram Limestone Mine (North Bond) Project of M/s Madras Cements Ltd at Village Jayanthipuram, Jaggayopetu Taluka in Krishna District in Andhra Pradesh.

The proposal of M/s Madras Cements Ltd. is for amendment of environmental clearance no. J-11015/377/2006-IAII(M) dated 18.05.2007 w.r.t. plantation area in the Point No. iv. of Specific Conditions of EC as – 'plantation shall be raised in an area

of 62.39 ha' in place of '195.54 ha'. The PP informed that the plantation area is specified as below, as per EC.

Page No. 1 of EC specifies that:

'Out of 256.64 ha of Mining lease area, area to be excavated is 122.53 ha. About 18.95 ha of area has been earmarked for waste dumps, 4.34 ha for bund, 1.50 ha for infrastructure, 4.06 ha for roads, 62.39 ha for afforestation & green belt development and 42.77 ha area will be reclaimed.'

Point No. iv of specific conditions of EC order specifies that:

'Plantation shall be raised in an area of 195.54 Ha including a greenbelt of adequate width by planting the native species around the ML area, roads, OB dump sites etc., in consultation with the local DFO / Agriculture department. The density of the trees shall be around 2500 plants per Ha. The company shall avoid plantation of mono culture species. Further greenbelt shall be developed in the North to NE direction of mine to protect the temple from dust emission. Fruit bearing species shall be planted by involving local people especially women with the help of self help groups'.

The PP informed that the greenbelt area is specified as 62.39 ha as per Mining Plan for the period 2005-06 to 2009-10 approved by IBM, Bangalore vide letter No. MP/AP/KSN/Lst-111-SZ dated 07.04.2006 (Page No. 70 – Financial Assurance Table). The same is incorporated in REIA / EMP report of the above subject EC. The PP also informed that Page No. 66 (Table 31 – Land Environment) and Page No. 86 (Afforestation Plan) of REIA / EMP report submitted for the subject EC, also specifies that plantation area is 62.39 ha only. The PP informed that the figure of 195.45 ha in the Point No. iv of Specific Conditions of subject EC order may be a typographical error.

The committee deliberated at length the information submitted by PP and **recommended** to amend the Point No. iv of Specific Condition of EC no. J-11015/377/2006-IA.II(M) dated 18.05.2007 in line with Page No. 1 of the EC letter, as 'Plantation shall be raised in an area of 62.39 ha'.

AMENDMENT OF TOR

(2.63). J -11015/133/2012-IA.II(M) Captive Limestone Mining Project of M/s ACC Ltd. Village Gollapalli, Mylavaram Mandalam, District Kadapa (YSR), Andhra Pradesh (997.08 ha).

The proposal is for amendment of TOR of Captive Limestone Mining production for 7.0MTPA (M.L. area 997.08 ha) located at Village Gollapalli, Vaddirala, G. Uppalapadu, Dhannawada, Chinna Venturla, Bestavemula, Mylavaram Mandalam,

District Kadapa (YSR), Andhra Pradesh. The proposed integrated Cement Plant latitude and longitude of the site is N 14° 58'06" to 14° 59'51" & E 78° 16' 50" to 78° 18' 38" and the proposed limestone Mine N 14° 59'20" to 15° 00'10" & E 78° 13' 55" to 78° 18' 08" . The mine lease area is 997.08 ha which is reserved forests Dhodiyar RF: 8.0KM, SW and Malamidikambala Dinne RF:14.0KM, SW.

Mine working will be opencast mechanized involving drilling and blasting. Life of mine is 50 years. Ultimate working depth will be 166msl. Water requirement is estimated as 60 kld, which will be obtained from mine pit. The TOR for mining project was issued vide letter dated J-11015/133/2012-IA.II(M) dated 30th October 2012. The PP requested for the extension of validity TOR it was informed by the PP that application for extension was made on 27.08.2014, however could not be processed. Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR till the outer limit of validity i.e. **29.10.2016.**

CONSIDERATION OF TOR

(2.64). Suradhar Bauxite Mines M/s. Orient Abrasives Ltd. located at Village Mewasa, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat State. (9.86 Ha) IA/GJ/MIN/30396/2015.

The proposal was inadvertently placed in the agenda.

(2.65). Sand, Stone & Bajri, of M/S UmaPatti Stone Crusher located at Village-Khanpur Teh-Indora Dist-Kangra Himachal Pradesh IA/HP/MIN/30492/2015

The M/s Umapati Stone Crusher proposed project for mining of sand, stone and bajri (Minor Minerals) from the river bed of Beas river, located in 6-85-77 ha area village-Khanpur, Tehsil-Indora, District-Kangra, Himachal Pradesh. The lease area lies between 30°24'56.29"N to 30°23'58.43"N, and 75°36'54" E to 75°39'18" E. The lease area located in seismic zone-V. The project proponent M/s Umapati Stone Crusher has been issued a letter of intent by the Geology & Mining Unit Directorate of Industries vide letter no. Udyog-Bhu (Khani-4) laghu 46/12-1840 dated 26th May, 2015. The project activity has been categorized as Category- A due to presence of interstate boundary of Punjab, Himachal Pradesh (4.13 Km). The project has been proposed for an annual production of 2,08,096 tonnes of Sand/Bajri/Stone by open cast Mechanical extraction method in river bed.

The highest point of the lease area is at 256 MRL while lowest is at 254 m creating a level difference of 2.0 m. Life of mine is continuous, due to being replenished yearly. Total number of working days will be 280. The mine will be worked in the day shift only. This project will provide employment to 60 laborers. Total water

requirement will be 8.0 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 PP requested for consideration of the Monitoring data period of October to December 2015 for the preparation of EIA report. The EAC agreed to the request of the PP.

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

(2.66). Kenedy, Virpur, Mewasa & Mota Asota Bauxite Mine (67.1827 ha) of M/s. Prabhudas Vithaldas - I, Village: Kenedy, Virpur, Mewasa & Mota Asota Tehsil: Kalvanpur. District: Devbhumi Dwarka, State: Gujarat. IA/GJ/MIN/30481/2015

The PP submitted that three proposal for TOR amendment were considered in the EAC meeting held during September 22-24, 2015. The proposals were namely:

- (i) J-11015/264/2013-IA.II(M) Virpur Kenedy Bauxite Mine capacity 8,39,398 TPA of M/s Prabhudas Vithaldas – II located at village- Virpur & Kenedy, Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat area 70.8216 ha (reduced area 56.6573 ha).
- (ii) J-11015/120/2013-IA.II(M) Virpur (Gunawali) Bauxite Mine capacity 1, 51,875 TPA of M/s Smt Pushpaben Prabhudas Makhecha located at village- Virpur (Gunawali), Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat 55.2520 ha (reduced area 37.1670 ha).
- (iii) J-11015/244/2013-IA.II(M) Virpur, Mewasa, Kenedy & Mota Asota Bauxite Mine capacity 5, 99,300 TPA of M/s Prabhudas Vithaldas – I located at village- Virpur, Mewasa, Kenedy & Mota Asota, Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat 67.1827 ha (reduced area 59.0889 ha).

The proposals were recommended by the EAC for amendment of TOR. The amendment was sought for reduction of the area and production. The PP had informed that they have moved application for surrendering the mine lease area falling within

the Eco-sensitive Zone, which is under consideration with the State Government. In view of this the Committee informed the PP that the application for EC shall be considered only after the revised LOI/lease document excluding the area falling in the ESZ of Marine national Park and Sanctuary is submitted.

The PP informed that lease area is granted after the grant of EC and based on the survey of State Government PP has moved that application for the amendment of TOR which would be finalized after the grant of EC. Therefore, condition of prior requisite of revised LOI/lease document excluding the area falling in the ESZ of Marine national Park and Sanctuary shall not be made mandatory.

The committee deliberated on the issue and was of the view that prior requisite of revised LOI/lease document excluding the area falling in the ESZ of Marine national Park and Sanctuary shall not be mandatory for consideration of EIA/EMP report by Ministry and further for grant of EC. The Committee therefore **recommended** deleting the condition of prior requirement of revised LOI/lease document excluding the area falling in the ESZ of Marine national Park and Sanctuary shall for consideration of EIA/EMP report from the amended TOR letter.

CONSIDERATION OF ENVIRONMENT CLEARANCE

(2.67). J-11015/31/2015-IA-II(M) Mining of Sand (Minor Mineral) in the Mine of "Bega Sand Unit" with proposed production capacity of 21,70,500 TPA (ROM) by M/s Jindal Mectec Pvt. Ltd., located at-village-Bega, District Sonipat, Haryana (54.55ha). Mantec Consultants Pvt. Ltd.

The proposed project is for mining of minor mineral lying in the Yamuna river bed & outside the river bed in a total area of 54.55 ha located in Villages-Bega, Tehsil - Ganaur, District- Sonipat, Haryana. The project has been proposed for an annual production of 21,70,500 TPA of sand by open cast mechanized extraction method in river bed.

The project proponent has been issued a letter of intent by Department of Mines & Geology Haryana vide letter no. DMG/Hy/Cont/Bega Sand Unit/2015/25 dated 2nd January, 2015.

The ToR was granted by MoEF & CC vide letter no. J-11015/31/2015-IA.II (M) dated 15.04.2015 and the baseline study was conducted in Pre-monsoon season from March 2015 to May 2015. The mine Plan has been approved by Department of Mines & Geology, Haryana vide letter no. DMG/HY/MP/SNP/Bega/3604 dated 04.06.2015. The draft report was submitted for Public hearing which was successfully conducted on dated 04.08.2015.

The river along its course brings large quantity of material consisting of sand during every monsoon. This material has to be removed every year in order to channelize the river course and to prevent it from widening & thus causing cutting of nearby land. Bega sand unit, containing two mining blocks namely (i) Bega River bed block, (ii) Bega Outside River bed Block, Haryana. The mining area falls in Survey of India Toposheet No.53G/4. The excavation on River bed will be carried out up to a maximum depth of 3 meters and 9 m on outside from riverbed. The highest elevation of the site being 221 mRL and lowest is 218 mRL. No drilling and blasting shall be adopted. There will be no mining in river bed during monsoon season. Period for which mining lease granted is 8 years. No waste shall be generated from dried river bed mining. Total water requirement shall be 15 KLD which will be used in sprinkling, plantation and domestic purposes. Water shall be supplied with the help of private water tankers from nearby villages.

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that frequency of trucks will be deployed 36 trucks per hronhighways NH1 and village road. The level of service (LOS) for village road will change from "B" to "C" and for NH-1 it will be same as "A". Project Proponent reported that haul roads will be repaired regularly and maintained in good conditions. The 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).

There are three Schedule-I species namely Black Buck, Peacock & Monitor Lizard and four Schedule-II species namely Jackal, Jungle cat, Indian grey mongoose & Rat snake found in study area. The conservation plan has been approved by the Chief Wildlife Warden Haryana vide letter no. 4218 dated 31.08.2015. The base line data of one Season (Pre-monsoon) was collected from March 2015 to May 2015. The parameters for water and air quality were within permissible limits. The cost on environment protection measures will be Rs. 19.10 Lakhs and cost of CSR will be 19.0 Lakhs. The total Cost of Project is Rs.2.0Cr.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Mineral Sand (Minor Mineral) with proposed production capacity of **21,70,500 TPA (ROM)**.

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) 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 1.5 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.

(2.68). J-11015/30/2015-IA-II(M) - Mining of Sand (Minor Mineral) in the Mine of "Barauli-1 Sand Unit" with proposed production capacity of 30,15,600 TPA (ROM) by M/s Jindal Mectec Pvt. Ltd., located at-village(s) – Barauli & Nandnaur, Tehsil - Sonipat, District – Sonipat, Haryana (76.31 ha). Mantec Consultants Pvt Ltd

The proposed project is for mining of minor mineral lying in the Yamuna river bed & outside the river bed in a total area of 76.31 ha located in Villages – Barauli & Nandnaur, Tehsil - Sonipat, District–Sonipat, Haryana. The project has been proposed for an annual production of 30, 15,600TPA of Sand by open cast mechanized extraction method in river bed.

Barauli sand unit, containing two mining blocks namely (i) Barauli River bed block (ii) Barauli –Nandnaur Outside River bed Block, Haryana. The mining area falls in Survey of India Toposheet No.53G/4. The project proponent has been issued a letter of intent by Department of Mines & Geology Haryana vide letter no. DMG/Hy/Cont/Barauli-1 Sand Unit/2015/35 dated 2nd January, 2015.The ToR was granted by MoEF & CC vide letter no. J-11015/30/2015-IA.II (M) dated 15.04.2015

and the Baseline study was conducted in Pre-monsoon season from March 2015 to May 2015.

The Mine Plan has been approved by Department of Mines & Geology, Haryana vide letter no. DMG/HY/MP/SNP/Barauli-1/3608 dated 04.06.2015. The excavation on River bed will be carried out up to a maximum depth of 3 meters & 9 m on outside the riverbed. The lease area in the river bed extends up to a stretch of 3 km. The highest elevation of the site being 215 mRL and lowest is 209 mRL. No drilling and blasting shall be adopted. There will be no mining in river bed during monsoon season. No waste shall be generated from dried river bed mining. Total water requirement shall be 15 KLD which will be used in sprinkling, plantation and domestic purposes. Water shall be supplied with the help of private water tankers from nearby villages.

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that frequency of trucks will be deployed 50 trucks per hour on two highways NH1 and SH11. The level of service (LOS) for SH11 will change from "B" to "C" and for NH-1 it will be same as "A". Project Proponent reported that haul roads will be repaired regularly and maintained in good conditions. The 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).

There are three Schedule-I species namely Black Buck, Peacock & Monitor Lizard and four Schedule-II species namely Jackal, Jungle cat, Grey Indian mongoose & Rat snake found in study area. The conservation plan has been approved by the Chief Wildlife Warden Haryana vide letter no. 4213 dated 31.08.2015. The base line data of one Season (Pre-monsoon) was collected from March 2015 to May 2015. The parameters for water and air quality were within permissible limits. The cost on environment protection measures will be Rs. 21.10 Lakhs and Cost of CSR will be 23.00 Lakhs. The total Cost of Project is Rs.2.50 Cr.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Mineral Sand (Minor Mineral) with proposed production capacity of **30,15,600 TPA (ROM)**.

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) 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 1.5 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.

Additional item with the permission of the Chair

(3.1): 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 Pandori, Tehsil Kathua, District Kathua, Jammu & Kashmir (36.0 ha)- consideration of baseline data

The proposal of Shri Dhyan Singh is for request for consideration of baseline data for season March-May 2015 for River Sand and Boulder Mining Project in an area of 36.0 ha of river bed. The Mine lease area is located at Village Pandori, District - Kathua, State - Jammu & Kashmir. The Proposal of TOR was recommended by the EAC in its meeting held on 15th May, 2015 and accordingly the Ministry granted the TOR on 11.06.2015.

The Project Proponent requested that they had submitted the application for TOR in the month of March 2015 and started collection of base line data since 1st March 2015 and requested to consider the baseline data of summer season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

Standard Terms of Reference (TOR)

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

mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

- 11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- 12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 21) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
- 22) One season (non-monsoon) [i.e. March - May (Summer Season); October - December (post monsoon season) ; December - February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM₁₀, particularly for free silica, should be given.
- 23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- 24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.

- 26) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- 27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- 28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- 29) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- 30) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and BGL. A schematic diagram may also be provided for the same.
- 31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- 32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
- 33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical

examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

- 36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 37) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 38) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- 39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 44) Besides the above, the below mentioned general points are also to be followed:-
 - a) All documents to be properly referenced with index and continuous page numbering.
 - b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
 - d) Where the documents provided are in a language other than English, an English translation should be provided.
 - e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.

- g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
- h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

List of Participants

- | | | |
|-----|--|------------------|
| 1. | Shri M.S. Nagar | Chairman |
| 2. | Dr. S. Subramaniyan | Member |
| 3. | Prof. L. Ajay Kumar | Member |
| 4. | Shri P.K. Verdia | Member |
| 5. | Prof. G.S. Roonwall | Member |
| 6. | Prof. A.K. Bhatnagar | Member |
| 7. | Dr. S. K. Peshin | Member |
| 8. | Dr. U. Sridharan, | Member Secretary |
| 9. | Representatives of M/s Garhwal Mandal Vikas Nigam (GMVN) Limited | |
| 10. | Representatives of M/s UltraTech Cement Ltd | |
| 11. | Representatives of M/s Shree Cement Ltd. | |
| 12. | Representatives of M/s Madhya Pradesh Mineral Supply Company | |
| 13. | Representatives of M/s Shri Ram Chandra Bansal | |
| 14. | Representatives of M/s Shri Rajendra Kumar Aggarwal | |
| 15. | Representatives of M/s Rakesh Agencies | |
| 16. | Representatives of M/s Dhyan Singh | |
| 17. | Representatives of M/S Ritesh Tradefin Ltd. | |
| 18. | Representatives of M/s Hindustan Zinc Limited | |
| 19. | Representatives of M/s Shri Jai Lal Bharat Lal | |
| 20. | Representatives of M/s Eastern Coalfields Limited | |
| 21. | Representatives of M/s Rajasthan Forte and Palace Pvt. Ltd. | |
| 22. | Representatives of M/s Ashapura Mincechem Ltd. | |
| 23. | Representatives of M/s Indian Rare Earths Limited | |
| 24. | Representatives of M/s Tamil Nadu Minerals Limited | |
| 25. | Representatives of M/s Mor Mukut Marketing Pvt. Ltd | |
| 26. | Representatives of M/s West Link Trading Pvt. Ltd. | |
| 27. | Representatives of M/s Aditya Multicum Pvt. Ltd. | |
| 28. | Representatives of M/s Broad-son Commodities Pvt. Ltd. | |
| 29. | Representatives of M/s Development Strategies India Private Limited | |
| 30. | Representatives of M/s Shri Vipul Sehgal | |
| 31. | Representatives of M/s Sadasiva Tripathy | |
| 32. | Representatives of M/s The Orissa Mining Corporation Ltd. | |
| 33. | Representatives of M/s A. Dean & Company | |
| 34. | Representatives of M/s National Aluminium Company Limited (NALCO) | |
| 35. | Representatives of M/s Shri Prakash Chandra Dwivedi | |
| 36. | Representatives of M/s. Pokarna Ltd. | |
| 37. | Representatives of M/s Ramakbal Nishad | |
| 38. | Representatives of M/s Rajyog Minerals Pvt. Ltd. | |
| 39. | Representatives of M/s Tekno Exports | |
| 40. | Representatives of M/s Aleron Consultats (India) Pvt. Ltd. | |

41. Representatives of **M/s Shri Sunil Kumar Garg**
42. Representatives of **M/s Malik Buildcon Pvt. Ltd.**
43. Representatives of **M/s Shri Ved Prakash Yadav**
44. Representatives of **M/s Tirumala Granites**
45. Representatives of **M/s South India Cements Ltd.**
46. Representatives of **M/s New India Mining Corporation Pvt. Limited**
47. Representatives of **M/s Madras Cements Ltd**
48. Representatives of **M/s ACC Ltd.**
49. Representatives of **M/s. Orient Abrasives Ltd.**
50. Representatives of **M/S UmaPatti Stone Crusher**
51. Representatives of **M/s. Prabhudas Vithaldas – I**
52. Representatives of **M/s Jindal Mectec Pvt. Ltd**
