

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

SUMMARY RECORD OF 37th MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The **37th 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 **August 25-27, 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 36th EAC Meeting

The Minutes of the 36th Meeting of EAC held during **July 29-30, 2015** were circulated.

Day 1: 25th August, 2015 (Tuesday)

Item No. 2:

Consideration of Environmental Clearance Proposals

(2.1). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) River Aasan Lot No. 14/1 with proposed production capacity of 1,60,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, located at village-Singhniwala&Sishambada, Tehsil-Vikasnagar, District-Dehradun, Uttarakhand (MLA 18.4ha)(Consultant: Grass Roots Research & Creation India (P) Ltd.)

The proposal of EC was earlier appraised in the EAC meeting held during May 27-29, 2015 wherein the Committee recommended the Proposal for environmental clearance for Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) with proposed production capacity of 1,60, 000 TPA (ROM) (ROM) in the MLA 18.4 ha. Accordingly, the Ministry has already accorded the EC vide letter dated 03.08.2015. This was placed in the meeting inadvertently.

(2.2). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) River Noon Lot No. 8/1 with proposed production capacity of 87,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, located at village(s) Galjwadi & Saliyawala, Tehsil: Dehradun & Vikasnagar, District: Dehradun, Uttarakhand (MLA 7.50 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 87,000 TPA (ROM). The mine lease area is located at village (s) Galjwadi & Saliyawala, Tehsil: Dehradun & Vikasnagar & District: Dehradun, Uttarakhand in the mine lease area of 7.50ha. The mine lease area lies on Noon River bed. The Latitudes and Longitudes of the mine lease lies between 30°24'5.19"N to 30°23'47.22"N and 78° 0'51.96"E to 78° 1'35.89"E on Survey of India toposheet numbers 53J/03 (Site), 53F15. The Project is located in Seismic zone-IV. It is Category 'A' Project as the mine lease area lies within extent of Doon Valley.

The proposal of TOR was considered by the Expert Appraisal Committee in its 12th Meeting held during 31st October-1st November, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter J-11015/350/2013-IA.II (M), dated 6th December, 2013. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is of 7.50ha which is on Noon River. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, *Bajri* and Boulder over an area of 7.50ha has been granted by the Director of Mines and Geology Department, Govt. of Uttarakhand, vide letter dated 30.09.2013 for the period of 5 year. The Mining Plan is approved by Director, Mines and Geology, Govt. of Uttarakhand; vide letter no.2198/Mine Plan, dated 03.03.2015. No forest land is involved as per the Joint inspection report by State Government.

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 6.02ha area will be used for excavation and 1.48ha for the others (bank stability area). The site elevation is 698m AMSL. The Ground water depth is 4.00m bgl in pre-monsoon season and 3.00m bgl in post-monsoon season. The total water requirement is 1.76 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. 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 39 no. of trucks will be deployed per day (10 tonnes capacity each). This will increase 234 PCUs per day on the road which has a road capacity of 15,000 PCUs per day. However the level of service (LOS)

remains "A" i.e. excellent. Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Committee has been proposed by the Proponent to study and regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that the Mussoorie Wildlife Sanctuary lies at a distance of 7.5 Km in North direction from lease. Hence clearance for NBWL has been applied. Also, the project site lies within Doon Valley which is an eco-sensitive area. The baseline data was generated for the period during October 2013 to December 2013. All the parameters for water and soil quality were within permissible limits. The ambient air quality was also within permissible limit as there were no significant emission sources near the site. Dust emission due to movement of vehicles will also be suppressed by regularly sprinkling water on the unpaved roads. The Committee deliberated on the baseline data collected by the Project Proponent. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site. Local villagers will be given employment opportunities and the workers will be provided with regular health check-ups and medical facilities.

The Public Hearing for the proposed Project was conducted on 26.07.2014 at 11.00 am at Rajkiya Prathmik Vidyalaya, Halduwala, Gram Panchayat Rikhhole, Vikashkhand: Shaspur, Vikasnagar, 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, check on illegal mining, social and other village development activities and not to harm nearby fields.

The cost of the Project is Rs. 11.80 Lakhs. The Proponent has earmarked Rs. 3.0 Lakhs towards Environmental Protection Measures and Rs. 5.51 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 60,000 per annum have been earmarked towards CSR activities for next five years of mining operation. There is no litigation pending against the case.

The Committee noted that the **Consultant has not prepared the EIA/EMP Report in-line with the Annexure-III of EIA Notification, 2006. There are several deficiencies** viz. (i) Disaster management plan is not adequate and needs to be revised; (ii) Action Plan along with budgetary provisions on the issues raised during Public Hearing are not prepared adequately; (iii) There is no proper page numbers and index mentioned in the EIA/EMP Report; (iv) The EIA/EMP report along with Annexures are not legible; (v) Certified location map and distance certificate from the State Government with respect to protected areas has not been submitted; (vi) NOC from Sarpanch has not mentioned the capacity of water; (vii) List of

flora/fauna and endangered species are not accurate; Plant species w.r.t. river bed are not explored; (viii) Green belt species proposed are not adequate. PP needs to resubmit the revised name of species; (ix) TOR compliance no. 44 w.r.t. impact on mining on plankton was not addressed properly; (x) PP has not done the replenishment study. PP informed that they had requested IIT Roorkee, vide letter dated 19.04.2015 for replenishment study. The Committee is of the view that Ministry issued TOR in 2013 and PP had given the replenishment study work to IITR only in April 2015. PP needs to conduct the replenishment study for appraising before the EAC; and (xi) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Uttarakhand vide letter dated 03.03.2015 and the Public Hearing was held on 26.07.2014 i.e. **prior to approval of the Mine Plan**. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the Proponent to the Public.

The Committee deliberated at length the information submitted by PP and **deferred the Proposal**. The Proposal may be considered further after receipt of the above mentioned information/clarifications.

(2.3). Sumannagar Sand Bajri& Boulder Mine (1.38 LTPA) of M/s. Garhwal Mandal Vikas Nigam Ltd., located at khasra No.2,639, village Sumannagar Tehsil-Haridwar, District Haridwar (MLA 10.350 ha)(Consultant: Grass Roots Research & Creation India (P) Ltd.)-Consideration of EC

This project is in Haridwar District. It was decided that all the projects of Haridwar District are to be considered at one go.

Also, the Committee noted that the **Consultant has not prepared the EIA/EMP Report in-line with the Annexure-III of EIA Notification, 2006. There are several deficiencies** viz. (i) Disaster management plan is not adequate and needs to be revised; (ii) Action Plan along with budgetary provisions on the issues raised during Public Hearing are not prepared adequately; (iii) There is no proper page numbers and index mentioned in the EIA/EMP Report; (iv) The EIA/EMP report along with Annexures are not legible; (v) Certified location map and distance certificate from the State Government with respect to protected areas has not been submitted; (vi) NOC from Sarpanch has not mentioned the capacity of water; (vii) List of flora/fauna and endangered species are not accurate; Plant species w.r.t. river bed are not explored; (viii) Green belt species proposed are not adequate. PP needs to resubmit the revised name of species; (ix) TOR compliance no. 44 w.r.t. impact on mining on plankton was not addressed properly; (x) PP has not done the replenishment study. PP informed that they had requested IIT Roorkee, vide letter dated 19.04.2015 for replenishment study. The Committee is of the view that Ministry issued TOR in 2013 and PP had given the replenishment study work to IITR

only in April 2015. PP needs to conduct the replenishment study for appraising before the EAC; and (xi) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Uttarakhand vide letter dated 03.03.2015 and the Public Hearing was held on 12.08.2014 i.e. **prior to approval of the Mine Plan**. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the Proponent to the Public.

The Committee deliberated at length the information submitted by PP and **deferred the Proposal**. The Proposal may be considered further after receipt of the above mentioned information/clarifications.

(2.4). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) River Aasan Lot No. 14/4 with proposed production capacity of 3,40,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, located at village-Rampur and Kalyanpur, Tehsil-Vikasnagar, District-Dehradun, Uttarakhand (MLA 35.405 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, 40, 000 TPA (ROM). The mine lease area is located at Village-Rampur and kalayanpur, Tehsil: Vikasnagar and District: Dehradun, Uttarakhand in the mine lease area of 35.405 ha. The mine lease area lies on Aasan River bed. The mine lease area consists of two blocks. The Latitudes and Longitudes of the **Block A** lies between 30°22'1.77"N to 30°21'23.91"N and 77°49'0.60"E to 77°49'48.14"E and **Block B** lies between 30°21'33.83"N to 30°21'25.18"N to 77°49'17.99"E to 77°49'39.04"E on Survey of India toposheet numbers 53F-15. The Project is located in Seismic zone-IV. It is Category 'A' Project as the mine lease area lies within extent of Doon Valley.

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-11015/131/2013-IA.II, dated 22nd 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 of 35.405 ha which is on Aasan River. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, *Bajri* and Boulder over an area of 35.405ha has been granted by the Director of Mines and Geology Department, Govt. of Uttarakhand, vide letter dated 23.01.2013 for the period of 5 year. The Mining Plan is approved by Director, Mines and Geology, Govt. of

Uttarakhand; vide letter no.2215/Mine Plan, dated 03.03.2015. No forest land is involved as per the Joint inspection report by State Govt.

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 35.401 ha area will be used for excavation and 0.004 ha for the others (bank stability area). The site elevation is 489m AMSL. The Ground water depth is 3.5m bgl in pre-monsoon season and 3.0m 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. No ponding will take place. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 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.

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that no. of trucks will be deployed 151 per day (10 tonnes capacity each). This will increase 453 PCUs per day on the road which has a road capacity of 15,000 PCUs per day. Hence the level of service (LOS) remain as "A". Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A committee has been proposed by the proponent to study and 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). However the project site lies within Doon Valley which is an eco-sensitive area. Interstate boundary between Uttarakhand and Uttar Pradesh is present at a distance of approx. 8km in SW direction from the lease area.

The baseline data was generated for the period during October 2013 to December 2013. All the parameters for water and soil quality were within permissible limits. The ambient air quality was also within permissible limit as there were no significant emission sources near the site. Dust emission due to movement of vehicles will also be suppressed by regularly sprinkling water on the unpaved roads. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that there is no R&R plan is applicable for this

project as the mine lease area lies entirely on the River bed and there is no establishment on the site. Local villagers will be given employment opportunities and the workers will be provided with regular health check-ups and medical facilities.

The Public Hearing for the proposed Project was conducted on 14.07.2014 at 2.00 pm at Rajkiya Uchhtar madhyamik Vidhyalaya, Rampur kala Vikasnagar, Dehradun. The Public Hearing was presided over by Shri Pratap Singh Shah, Additional District Magistrate, 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, check on illegal mining, social and other village development activities and not to harm nearby fields.

The cost of the Project is Rs. 19.08 Lakhs. The Proponent has earmarked Rs. 3.0 Lakhs towards Environmental Protection Measures and Rs. 5.51 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 1,00,000 per annum have been earmarked towards CSR activities for next five years of mining operation. There is no litigation pending against the case.

The Committee noted that the **Consultant has not prepared the EIA/EMP Report in-line with the Annexure-III of EIA Notification, 2006. There are several deficiencies** viz. (i) Disaster management plan is not adequate and needs to be revised; (ii) Action Plan along with budgetary provisions on the issues raised during Public Hearing are not prepared adequately; (iii) There are no proper page numbers and index mentioned in the EIA/EMP Report; (iv) The EIA/EMP report along with Annexures are not legible; (v) Certified location map and distance certificate from the State Government with respect to protected areas has not been submitted; (vi) NOC from Sarpanch has not mentioned the capacity of water; (vii) List of flora/fauna and endangered species are not accurate; Plant species w.r.t. river bed are not explored; (viii) Green belt species proposed are not adequate. PP needs to resubmit the revised name of species; (ix) TOR compliance no. 44 w.r.t. impact on mining on plankton was not addressed properly; (x) PP has not done the replenishment study. PP informed that they had requested IIT Roorkee, vide letter dated 19.04.2015 for replenishment study. The Committee is of the view that Ministry issued TOR in 2013 and PP had given the replenishment study work to IITR only in April 2015. PP needs to conduct the replenishment study for appraising before the EAC; and (xi) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Uttarakhand vide letter dated 03.03.2015 and the Public Hearing was held on 14.07.2014 i.e. **prior to approval of the Mine Plan**. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the Proponent to the Public.

The Committee deliberated at length the information submitted by PP and **deferred the Proposal**. The Proposal may be considered further after receipt of the above mentioned information/clarifications.

(2.5). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) River Aasan Lot No. 14/6 with proposed production capacity of 2,50,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, located at village-Sabhawala, Indripur, Lakshmipur & Sahaspur, Tehsil-Vikasnagar, District-Dehradun, Uttarakhand (MLA 32.709 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 2, 50, 000 TPA (ROM). The mine lease area is located at Village-Sabhawala, Indripur, Lakshmipur & Sahaspur, Tehsil: Vikasnagar and District: Dehradun, Uttarakhand in the mine lease area of 32.709 ha. The mine lease area lies on Aasan River bed. The mine lease area consists of one block. The Latitudes and Longitudes of the lease lies between 30°22'55.45"N to 30°22'3.32"N and 77°47'57.12"E to 77°48'58.89"E on Survey of India toposheet numbers 53F-15. The Project is located in Seismic zone-IV. It is Category 'A' Project due to the mine lease area lies within extent of Doon Valley.

The proposal of TOR was considered by the Expert Appraisal Committee in its 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 J-11015/90/2013-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 of 32.709ha which is on Aasan River. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, *Bajri* and Boulder over an area of 32.709 ha has been granted by the Director of Mines and Geology Department, Govt. of Uttarakhand, vide letter dated 23.01.2013 for the period of 5 year. The Mining Plan is approved by Director, Mines and Geology, Govt. of Uttarakhand; vide letter no.2217/Mine Plan, dated 03.03.2015. No forest land is involved as per the Joint inspection report by State Govt.

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 26 ha area will be used for excavation and 6.709 ha for the others (bank stability area). The site elevation is 468m AMSL. The Ground water depth is 3.5m bgl in pre-monsoon season and 3.0m bgl in post-monsoon season. The total water requirement is 4.5 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.

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that no. of trucks will be deployed 111 per day (10 tonnes capacity each). This will increase 333 PCUs per day on the road which has an road capacity of 12000 PCUs per day. Hence the level of service (LOS) remains as "A" on the intersection road. Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A committee has been proposed by the proponent to study and regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that the project site lies within Doon Valley which is an eco-sensitive area and Aasan Conservation is at approx. 9 Km in NW direction from the lease area. Interstate boundary between Uttarakhand and Uttar Pradesh is also present at approx. 8km in SW from the lease area.

The baseline data was generated for the period during October 2013 to December 2013. All the parameters for water and soil quality were within permissible limits. The ambient air quality was also within permissible limit as there were no significant emission sources near the site. Dust emission due to movement of vehicles will also be suppressed by regularly sprinkling water on the unpaved roads. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site. Local villagers will be given employment opportunities and the workers will be provided with regular health check-ups and medical facilities.

The Public Hearing for the proposed Project was conducted on 16.07.2014 at 2.00 pm at Rajkiya Purva Madhyamik Vidhyalaya, Sabhawala, Sahaspur, Dehradun. The Public hearing was presided over by Shri Pratap Singh Shah, Additional District Magistrate, 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, check on illegal mining, social and other village development activities and not to harm nearby fields.

The cost of the Project is Rs. 16.30 Lakhs. The Proponent has earmarked Rs. 3,00,000/- towards Environmental Protection Measures and Rs.5.91 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 1, 00, 000 per annum have been earmarked towards CSR activities for next five years of mining operation. There is no litigation pending against the case.

The Committee noted that the **Consultant has not prepared the EIA/EMP Report in-line with the Annexure-III of EIA Notification, 2006. There are several deficiencies** viz. (i) Disaster management plan is not adequate and needs to be revised; (ii) Action Plan along with budgetary provisions on the issues raised during Public Hearing are not prepared adequately; (iii) There are no proper page numbers and index mentioned in the EIA/EMP Report; (iv) The EIA/EMP report along with Annexures are not legible; (v) Certified location map and distance certificate from the State Government with respect to protected areas has not been submitted; (vi) NOC from Sarpanch has not mentioned the capacity of water; (vii) List of flora/fauna and endangered species are not accurate; Plant species w.r.t. river bed are not explored; (viii) Green belt species proposed are not adequate. PP needs to resubmit the revised name of species; (ix) TOR compliance no. 44 w.r.t. impact on mining on plankton was not addressed properly; (x) PP has not done the replenishment study. PP informed that they had requested IIT Roorkee, vide letter dated 19.04.2015 for replenishment study. The Committee is of the view that Ministry issued TOR in 2013 and PP had given the replenishment study work to IITR only in April 2015. PP needs to conduct the replenishment study for appraising before the EAC; and (xi) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Uttarakhand vide letter dated 03.03.2015 and the Public Hearing was held on 16.07.2014 i.e. **prior to approval of the Mine Plan**. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the Proponent to the Public.

The Committee deliberated at length the information submitted by PP and **deferred the Proposal**. The Proposal may be considered further after receipt of the above mentioned information/clarifications.

(2.6). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) River Noon Lot No. 8/2 with proposed production capacity of 89,300 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, located at Village: Dholas & Hariyawala Khurd, Tehsil: Dehradun & Vikasnagar & District: Dehradun, Uttarakhand (MLA 7.60 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 89,300 TPA (ROM). The mine lease area is located at Village: Dholas & Hariyawala Khurd, Tehsil: Dehradun & Vikasnagar & District: Dehradun, Uttarakhand in the mine lease area of 7.60 ha. The mine lease area lies on Noon River bed. The Latitudes and Longitudes of the lease lies between 30°23'33.50"N to 30°23'01.17"N and 78° 01'34.45"E to 78° 01'09.64"E on Survey of India toposheet numbers 53J/03 (Site), 53F15. The Project is located in Seismic zone-IV. It is Category 'A' Project as the mine lease area lies within extent of Doon Valley.

The proposal of TOR was considered by the Expert Appraisal Committee in its 12th Meeting held during 31st October, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF & CC vide letter 11015/346/2013-IA.II (M), dated 6th December, 2013. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 7.60 ha which is Noon River. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, *Bajri* and Boulder over an area of 7.60 ha has been granted by the Director of Mines and Geology Department, Govt. of Uttarakhand, vide letter dated 30.09.2013 for the period of 5 year. The Mining Plan is approved by Director, Mines and Geology, Govt. of Uttarakhand; vide letter no.2203/Mine Plan, dated 03.03.2015. No forest land is involved as per the Joint inspection report by State Govt.

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 6.13 ha area will be used for excavation and 1.47 ha for the others (bank stability area). The site elevation is 680m AMSL. The Ground water depth is 4.0m bgl in pre-monsoon season and 3.0m bgl in post-monsoon season. The total water requirement is 1.77 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. 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 no. of trucks will be deployed 40 per day (10 tonnes capacity each). This will increase 240 PCUs per day on the road which

has a road capacity of 15,000 PCUs per day. However the level of service (LOS) remains "A". Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A committee has been proposed by the proponent to study and regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that the Mussoorie Wildlife Sanctuary lies at a distance of 9 Km in North direction from lease. Hence clearance for NBWL has been applied. The project site lies within Doon Valley which is an eco-sensitive area.

The baseline data was generated for the period during October 2013 to December 2013. All the parameters for water and soil quality were within permissible limits. The ambient air quality was also within permissible limit as there were no significant emission sources near the site. Dust emission due to movement of vehicles will also be suppressed by regularly sprinkling water on the unpaved roads. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site. Local villagers will be given employment opportunities and the workers will be provided with regular health check-ups and medical facilities.

The Public Hearing for the proposed Project was conducted on 26.07.2014 at 2.00 pm at Rajkiya Purv Madhyamik Vidyalaya, Jhathanwala, Gram Sabha Ghanghode, Vikasnagar, Dehradun. The Public hearing was presided over by Shri Pratap Singh Shah, Additional District Magistrate, 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, check on illegal mining, social and other village development activities and not to harm nearby fields.

The cost of the Project is Rs. 11.85 Lakhs. The Proponent has earmarked Rs. 3.0 Lakhs towards Environmental Protection Measures and Rs. 5.51 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 60,000 per annum have been earmarked towards CSR activities for next five years of mining operation. There is no litigation pending against the case.

The Committee noted that the **Consultant has not prepared the EIA/EMP Report in-line with the Annexure-III of EIA Notification, 2006. There are several deficiencies** viz. (i) Disaster management plan is not adequate and needs to be revised; (ii) Action Plan along with budgetary provisions on the issues raised during Public Hearing are not prepared adequately; (iii) There are no proper page numbers and index mentioned in the EIA/EMP Report; (iv) The EIA/EMP report along with Annexures are not legible; (v) Certified location map and distance certificate from the State Government with respect to protected areas has not been submitted;

(vi) NOC from Sarpanch has not mentioned the capacity of water; (vii) List of flora/fauna and endangered species are not accurate; Plant species w.r.t. river bed are not explored; (viii) Green belt species proposed are not adequate. PP needs to resubmit the revised name of species; (ix) TOR compliance no. 44 w.r.t. impact on mining on plankton was not addressed properly; (x) PP has not done the replenishment study. PP informed that they had requested IIT Roorkee, vide letter dated 19.04.2015 for replenishment study. The Committee is of the view that Ministry issued TOR in 2013 and PP had given the replenishment study work to IITR only in April 2015. PP needs to conduct the replenishment study for appraising before the EAC; and (xi) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Uttarakhand vide letter dated 03.03.2015 and the Public Hearing was held on 26.07.2014 i.e. **prior to approval of the Mine Plan**. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the Proponent to the Public.

The Committee deliberated at length the information submitted by PP and **deferred the Proposal**. The Proposal may be considered further after receipt of the above mentioned information/clarifications.

(2.7). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) River Tons Lot No.-3/13 with proposed production capacity of 85,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, located at village-Banshiwala, Tehsil-Vikasnagar, District-Dehradun, Uttarakhand(MLA 6.0 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 85,000 TPA (ROM). The mine lease area is located at village- Banshiwala, Tehsil: Vikasnagar and District: Dehradun, Uttarakhand in the mine lease area of 6 ha. The mine lease area lies on Tons River bed. The Latitudes and Longitudes of the mine lease lies between 30°20'29.19"N to 30°20'20.58"N and 77°53'33.35"E to 77°53'49.23"E on Survey of India toposheet numbers 53F-15. The Project is located in Seismic zone-IV. It is Category 'A' Project as the mine lease area lies within extent of Doon Valley.

The proposal of TOR was considered by the Expert Appraisal Committee in its 7th 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-11015/88/2013-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 of 6 ha which is on Tons River. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, *Bajri* and Boulder over an area of 6 ha has been granted by the Director of Mines and Geology Department, Govt. of Uttarakhand, vide letter dated 23-01-2013 for the period of 5 year. The Mining Plan is approved by Director, Mines and Geology, Govt. of Uttarakhand; vide letter No. 2206/Mine plan dated 03-03-2015. No forest land is involved as per the Joint inspection report by the State Govt.

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 entire 6 ha area will be used for excavation as it lies beyond the bank stability zone. The site elevation is 528 m AMSL. The Ground water depth is 4 m bgl in pre-monsoon season and 3.5 m bgl in post-monsoon season. The total water requirement is 2.0 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. 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 no. of trucks will be deployed 38 per day (10 tonnes capacity each). This will increase 114 PCUs per day on the road which has a road capacity of 15,000 PCUs per day. Hence the level of service (LOS) remains as "A" i.e. excellent. Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A committee has been proposed by the proponent to study and 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). However the project site lies within Doon Valley which is an eco-sensitive area. Interstate boundary between Uttarakhand and Uttar Pradesh is present at a distance of approx. 8km in S direction of the lease area.

The baseline data was generated for the period during October 2013 to December 2013. All the parameters for water and soil quality were within

permissible limits. The ambient air quality was also within permissible limit as there were no significant emission sources near the site. Dust emission due to movement of vehicles will also be suppressed by regularly sprinkling water on the unpaved roads. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site. Local villagers will be given employment opportunities and the workers will be provided with regular health check-ups and medical facilities.

The Public Hearing for the proposed Project was conducted on 07-07-2014 at 2.00 pm at Panchayat Bhavan, Vikaskhand Sahaspur, Dehradun. The Public hearing was presided over by Shri Pratap Singh Shah, Additional District Magistrate, 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, check on illegal mining, social and other village development activities and not to harm nearby fields.

The cost of the Project is Rs. 11.70 Lakhs. The Proponent has earmarked Rs. 3.0 Lakhs towards Environmental Protection Measures and Rs. 3.81 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 58,000 per annum have been earmarked towards CSR activities for next five years of mining operation. There is no litigation pending against the case.

The Committee noted that the **Consultant has not prepared the EIA/EMP Report in-line with the Annexure-III of EIA Notification, 2006. There are several deficiencies** viz. (i) Disaster management plan is not adequate and needs to be revised; (ii) Action Plan along with budgetary provisions on the issues raised during Public Hearing are not prepared adequately; (iii) There is no proper page numbers and index mentioned in the EIA/EMP Report; (iv) The EIA/EMP report along with Annexures are not legible; (v) Certified location map and distance certificate from the State Government with respect to protected areas has not been submitted; (vi) NOC from Sarpanch has not mentioned the capacity of water; (vii) List of flora/fauna and endangered species are not accurate; Plant species w.r.t. river bed are not explored; (viii) Green belt species proposed are not adequate. PP needs to resubmit the revised name of species; (ix) TOR compliance no. 44 w.r.t. impact on mining on plankton was not addressed properly; (x) PP has not done the replenishment study. PP informed that they had requested IIT Roorkee, vide letter dated 19.04.2015 for replenishment study. The Committee is of the view that Ministry issued TOR in 2013 and PP had given the replenishment study work to IITR only in April 2015. PP needs to conduct the replenishment study for appraising before the EAC; and (xi) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Uttarakhand vide letter dated 03.03.2015 and the Public Hearing was held on 07.07.2014 i.e. **prior to approval of the Mine Plan.**

Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the Proponent to the Public.

The Committee deliberated at length the information submitted by PP and **deferred the Proposal**. The Proposal may be considered further after receipt of the above mentioned information/clarifications.

(2.8). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) River Song Lot No. 7/2 with proposed production capacity of 7,50,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam (GMVN) Limited, located at village- Doiwala, Misserwala Khurd, Deswala, Ghiserpadi, Fatehpur Tanda, Markhan Grant, Tehsil-Rishikesh & Dehradun, District-Dehradun, Uttarakhand(MLA 135.846ha) (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 7,50,000 TPA (ROM). The mine lease area is located at Village- Doiwala, Misserwala Khurd, Deswala, Ghiserpadi, Fatehpur Tanda, Markhan Grant, Tehsil: Rishikesh & Dehradun and District: Dehradun, Uttarakhand in the mine lease area of 135.846 ha. The mine lease area lies on Song River bed. The mine lease area consists of a single block. The Latitudes and Longitudes of the mine lease lies between 30°8'22.11"N to 30°10'40.76"N and 78°7'48.27"E to 78°7'58.37"E on Survey of India toposheet numbers 53J04 (Site), 53J03. The Project is located in Seismic zone-IV.

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 MoEFCC vide letter. J-11015/151/2013-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 of 135.846 ha which is on Song River. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, *Bajri* and Boulder over an area of 135.846 ha has been granted by the Director of Mines and Geology Department, Govt. of Uttarakhand, vide letter dated 18.04.2013 for the period of 5 year. The Mining Plan is approved by Director, Mines and Geology, Govt. of Uttarakhand; 40/Bhu.Khani.E./2012-13) dated 18-04-2013. No forest land is involved as per the Joint inspection report by State Govt.

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 115 ha area will be used for excavation and 20.856ha for the others (bank stability area). The site elevation is 447m AMSL. The Ground water depth is 4m bgl in pre-monsoon season and 3.5m bgl in post-monsoon season. The total water requirement is 5.1 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. 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 no. of trucks will be deployed 333 per day (10 tonnes capacity each). This will increase 1998 PCUs per day on the road which has a capacity of 15,000 PCUs per day. Hence the level of service (LOS) becomes "A" to "B". Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A committee has been proposed by the proponent to study and regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

The Project site lies within Doon Valley which is an eco-sensitive area. Also Rajaji National Park is at a distance of 2.5 km in SW direction from the lease area. Hence clearance for NBWL has been applied. The baseline data was generated for the period during October 2013 to December 2013. All the parameters for water and soil quality were within permissible limits. The ambient air quality was also within permissible limit as there were no significant emission sources near the site. Dust emission due to movement of vehicles will also be suppressed by regularly sprinkling water on the unpaved roads. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site. Local villagers will be given employment opportunities and the workers will be provided with regular health check-ups and medical facilities.

The Public Hearing for the proposed Project was conducted on 30.07.2014 at 11.00 am at Industrial Training Centre, Doiwala. The Public hearing was presided over by Shri Pratap Singh Shah, Additional District Magistrate, 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, check on illegal mining, social and other village development activities and not to harm nearby fields.

The cost of the Project is Rs. 30.20 Lakhs. The Proponent has earmarked Rs. 3.0 Lakhs towards Environmental Protection Measures and Rs. 7.81 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 1, 50, 000 per annum have been earmarked towards CSR activities for next five years of mining operation. There is no litigation pending against the case.

The Committee noted that the **Consultant has not prepared the EIA/EMP Report in-line with the Annexure-III of EIA Notification, 2006. There are several deficiencies** viz. (i) Disaster management plan is not adequate and needs to be revised; (ii) Action Plan along with budgetary provisions on the issues raised during Public Hearing are not prepared adequately; (iii) There is no proper page numbers and index mentioned in the EIA/EMP Report; (iv) The EIA/EMP report along with Annexures are not legible; (v) Certified location map and distance certificate from the State Government with respect to protected areas has not been submitted; (vi) NOC from Sarpanch has not mentioned the capacity of water; (vii) List of flora/fauna and endangered species are not accurate; Plant species w.r.t. river bed are not explored; (viii) Green belt species proposed are not adequate. PP needs to resubmit the revised name of species; (ix) TOR compliance no. 44 w.r.t. impact on mining on plankton was not addressed properly; and (x) PP has not done the replenishment study. PP informed that they had requested IIT Roorkee, vide letter dated 19.04.2015 for replenishment study. The Committee is of the view that Ministry issued TOR in 2013 and PP had given the replenishment study work to IITR only in April 2015. PP needs to conduct the replenishment study for appraising before the EAC.

The Committee deliberated at length the information submitted by PP and **deferred the Proposal**. The Proposal may be considered further after receipt of the above mentioned information/clarifications.

(2.9). Bajri (Minor Mineral) Mine with production capacity of 10.0 Lakhs TPA (ROM) by M/s Himmat Singh, located at Revenue village (s) of Tehsil – Osiya, District–Jodhpur, State–Rajasthan (668.96ha)-(Consultant: Udaipur Mintech Pvt. Ltd.)–Consideration of EC

The Proposal of M/s Himmat Singh is for Mining of Bajri with proposed capacity of 10, 00,000 TPA (ROM). The mine is located near village Ujalia, Anvana, Khasda, Mewasa Gagadi, Govindpura, JugatSingh Nagar , Jagdamba Nagar, Jasnath Nagar, Jaitia was, Danwara, Dhundhada, Dhundia, Dhanari Kalan, Nandia Jhajhdi, Nageshwar Naga, Newara Road, Newara Charnan, Newra, Pandit ji Ki Dhani, Badi,

Bejwadia, Basni Dawara, Basni, Bhatian, Balrawa, Bethwasian, Bada Kotecha, Becharan, Bhawad, BhabhuwanKi Dhani, Bhari Nagar, Mathania, Mewasa, Malunga, Rampura, Sindhian Ki Dhani, Hardhan, Tehsil-Osian, District-Jodhpur, Rajasthan. The mine lease area falls on survey of India Topo sheet no 45J/2, 45J/03 and Block 1 26°22'20" to 26°29'14"N & 72°47'39" to 72°50'43"E, Block 2 26°29'44" to 26°25'40" N & 72°58'10" to 73°05'10" E, Block 3 26°29'47" to 26°28'53"N & 73°03'04" to 73°05'17" E , Block 4 26°36'47" to 26°41'27" N & 73°02'28" to 73°03'27"E, Block 5 26°40'20" to 26°42'34"N & 73°08'14" to 73°10'49" E, Block 6 26°47'00" to 26°48'07"N & 72°56'34" to 72°57'18"E, Block 7 26°44'07" to 26°49'47"N & 73°15'30" to 73°13'02" E. The project is located in Seismic Zone II.

The Proposal was considered by the Expert Appraisal Committee in its meeting held during 12th November, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by MoEFCC vide letter no. J-11015/315/2013-IA.II (M), dated 9th December, 2013. EIA/EMP Report has been submitted online to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

The total lease area of the Project is 668.96ha. No Forest land is involved. The Committee noted that Mining Plan was approved by SME, Department of Mine & Geology, Jodhpur Circle, Rajasthan vide letter no. SME/JO/CC/Jodh/ Minor/Bajri/M.L. No-29/2012/16252, dated 12.12.2013. The operation will be opencast semi-mechanized with use of hand tools like shovel, pan, sieves, etc. The minerals will be collected in its existing form. Excavation will be carried out only up to a depth of 3m bgl. Extraction of sand material will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 18.5 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat.

Project Proponent reported that workers will be provided dust mask, safety boot, helmet and other safety equipment. A well-equipped first aid station will be maintained at mine site. Medical check-up of the workers will be done. Mineral will be transported through road. Traffic Analysis survey has been conducted and as per survey no. of dumpers will be 338 per day. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National Parks/Wildlife Sanctuaries/Biosphere Reserves/Wildlife Corridors/Tiger/Elephant Reserve are located within the 10 km study area of the mine lease. State Government vide letter dated 13.01.2015 has confirmed that the instant mine lease area of 668.96 ha does not fall in the Aravali Hill Range. No Schedule-I species found in the core and buffer zone.

The baseline data was generated for the period during December 2013 to February 2014. All the parameters for water and air quality were within permissible

limits. There is no R&R plan applicable for this project at this time. However, Private land will be required and suitable compensation will be given as per Govt. norms.

The Public Hearing was conducted on 15.10.2014 Rajiv Gandhi Seva Kendra, Village Aanwana, Gram Panchayat Smiti Bavdi, Tehsil Osian District Jodhpur. The Public Hearing was presided over by Shri Manaram Patel ADC, Jodhpur. The representatives from the Rajasthan State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields.

The cost of the Project is Rs. 1 Crore. Capital Cost of the EMP is Rs. 13.80 Lakhs and recurring expenditure during the stage of production is Rs. 2.50 Lakh per annum. Project Proponent has earmarked Rs. 12.0 Lakhs per annum towards CSR Activities. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of 70,097 MT of Bajri has been made till date.

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

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri with proposed production capacity of **10 Lakhs TPA (ROM) subject to submission of amended mine plan for semi-mechanized method.**

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

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

(2.10). Boulder, Gravel & Sand Mining at "Kurukshetra Unit-1", Haryana with production capacity of 2.0 million TPA of Boulder, Gravel & Sand (ROM) by M/s. Markandeshwar Construction Co., located at village(s)-Damli, Ram Nagar, Partli Kakra, Patti Sahzadpur, Gumti, Malakpur, Kalsana, Mugal Majra Kathuwa, Ajrana Khurd, Tamgor, Jhansa, Khangerpur, Thaska, Miran Ji Sahib, Azamatpur, Duniya Majra, Jalbehra, Tehsil- Shahbad & Pehow, District Kurukshetra, Haryana (331.69 ha)-(Consultant: Mantec Consultants Pvt. Ltd.)-Consideration of EC

The proposal of M/s Markandeshwar Construction Co. is for the mining of Boulder, Gravel & Sand from "Kurukshetra unit-1" with production capacity of 2.0 million TPA. The mining areas are located at village(s) – Damli, Ram Nagar, Partli Kakra, Patti Sahzadpur, Gumti, Malakpur, Kalsana, Mugal Majra Kathuwa, Ajrana Khurd, Tamgor, Jhansa, Khangerpur, Thaska Miran Ji Sahib, Azamatpur, Duniya Majra, Jalbehra Tehsil - Shahbad & Pehowa, District – Kurukshetra, Haryana. in mine lease area of 331.69 ha. The mining areas lie in the bed of Markandeshwar River. The geographical limits of the mining area in river bed are from Latitudes- 30° 03' 50" to 30° 11' 22" N" Longitudes-76° 39' 38" to 76° 54' 10" E. Toposheet Nos. of the area are 53B/12, 53B/16, with highest 266 m AMSL to lowest 251 m AMSL in River bed. The Project is located in seismic zone-III and the Haryana-Punjab Border falls adjacent to the proposed mining area.

The Proposal of TOR was considered by the Expert Appraisal Committee in its Meeting held on March 20, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter no. J-11015/66/2014-IA.II (M), dated 6th May, 2014. The Proponent submitted the EIA/EMP Report online to the Ministry after conduction of the Public Hearing.

The Letter of Intent has been issued by the Director of Mines and Geology, State Govt. of Haryana, Chandigarh, vide letter no. DGM/Hy/KKR/Cont/ Unit-1 /2013/101 dated 03.01.2014. Mine Plan has been approved by Department of Mining

& Geology, Haryana vide letter no. DMG/HY/MP/KKR Unit-1/M.Plan/2069-2072, dated 7/4/2015. The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Haryana vide letter dated 07.04.2015 and the Public Hearing was held during 09.01.2015. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In this context, Mining and Geology, Department of State Govt., vide letter dated 13.05.2015, has confirmed that the contents of mine plan are by and large same except that of certain typographical corrections.

Method of mining will be opencast semi mechanized. Excavation on River bed will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier. No drilling and blasting shall be adopted. There will be no mining in river bed during monsoon season. Geological Reserves in the mining area are estimated to be 1,99,01,400 MT whereas Mineable Reserve is estimated to be 1,21,86,600 MT. Period of mining will be 10 years. The machinery for the mining will be excavators, dumpers and tractors trolleys etc. 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 19 no. of trucks will be deployed per day (20 tonnes capacity each) and the level of service (LOS) remains average. Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at all the sensitive places. No objection certificate for the use of existing road is taken from Deputy Commissioner Kurukshetra.

Project Proponent reported that there is no Wildlife Sanctuary, National Park; Habitat for Migratory Birds, Tiger Reserve and Critically Polluted Area etc. located within 10 km radius of the proposed mine. There are two Schedule-I species namely Monitor Lizard, Pea fowl and four Schedule-II species namely Jackal, Jungle cat & Indian Grey mongoose, and Indian Kobra found in buffer zone. The conservation plan has been approved by the Chief Wildlife Warden Haryana vide letter dated 05.05.2015. The Proponent has proposed a sum of Rs. 26.0 Lakhs for conservation of all Schedule I & II species.

The base line data of one Season (Pre-monsoon) was collected from March-2014 to May-2014. The parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent vide letter dated 25.08.2015 has submitted the replenishment study, details of transportation and revised questionnaires. The Committee deliberated the issues and is of the view that the information submitted

by Proponent is adequate.

Public Hearing for the proposed Project was conducted on 09.01.2015 at 11:00 AM at Village-Gomati, Tehsil-Sahabad, District-Kurukshetra. The Public Hearing was presided over by Mr. G.C. Rajini Kaanthan Deputy Commissioner Kurukshetra. The representatives from the Haryana State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia included that priority to local people in employment, effective implementation of measures to control dust pollution, green belt development, social and other village development activities and not to harm nearby fields. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that PP needs to implement the Action Plan and the Implementation Report has to be submitted to the Regional Office of the MoEFCC every six months.

The total cost of the Project is Rs. 1.0 Crores. The cost on environment protection measures will be Rs. 15.0 Lakhs. It is proposed to incur Rs. 15.0 Lakhs on CSR activities. Project Proponent reported that there is a Court case in the matter of Rajbir Singh v/s State 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 Hon'ble High Court did not restrain the auction proceedings and held that the auctions may be held but it has directed in its orders dated 17.12.2013 that the same shall be subject to final outcome of above said CWP. Accordingly, the acceptance /Lol was issued subject to the outcome of the said case, which is still pending before Hon'ble Punjab and Haryana High Court for adjudication.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of **Boulder, Gravel & Sand mining with production capacity of 2.0 million TPA of Boulder, Gravel & Sand (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.

(2.11). Mining of Mineral Bajri (Minor Mineral) with proposed production capacity of 1.12 Million TPA (ROM) by lessee Shri Abhishek Chaudhary, located at Revenue Village(s) of Tehsil–Raipur, District-Bhilwara, Rajasthan (MLA 836.13ha)(Consultant: Enkay Enviro Services Pvt. Ltd.)-Consideration of EC.

The proposal of lessee Shri Abhishek Chaudhary, Bhilwara, Rajasthan is for mining of Bajri (Minor Mineral) with proposed production capacity of 1.12 Million TPA (ROM). The mine lease area is located at Revenue Villages of Tehsil –Raipur, District–Bhilwara in the mine lease area of 836.13ha. The mine lease area lies on Kothari River. The Latitudes and Longitudes of the mine lease area lies between 25°23'32.61" N to 25°20'41.03" N and 74°01'7.64" E to 74°18'52.35" E on Survey of India toposheet numbers 45 K/2, 45 K/3, 45 K/6, 45 K/7. The Project is located in Seismic zone-II.

The proposal of TOR was considered by the Expert Appraisal Committee in its 11th Meeting held during 25th - 27th September, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter no. J-11015/ 232/ 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 836.13ha which is Kothari River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, Bajri over an area of 836.13 ha has been granted by the Director of Mines and Geology Department, Govt. of Rajasthan, vide letter dated 27.03.2013 for the period of 5 year. The Mining Plan is approved by Director, Mines and Geology, Govt. of Rajasthan; vide letter no. SME/ BHL – C12/ F/ Mining Plan/ Mining Scheme/ 3776 dated 11.03.2015.

Method of Mining is Open Cast by Semi-Mechanized. Excavation will be carried out up to a maximum depth of 3.0 meters from surface of deposit and not less than

one meter from the water level of the River Kothari whichever is reached earlier. Proponent informed that 133.33 ha area will be used for excavation and 22.50ha for safety zone against Bridge (10 nos.), Roads (7 nos.) and Wells (22 nos.). The site elevation is 582m – 477m AMSL. The ground water depth is 8m bgl in pre-monsoon season and 5m bgl in post-monsoon season. The total water requirement is 16.5 KLD including water demand for domestic purpose, dust suppression and plantation development which will be met by tanker supply. No ground water interception during the mining operations is envisaged.

Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5 m of the width of the River from both the banks. Mining will be done only during day time and completely stopped in monsoon season. No mining will be done in the zone of 45m on either side of the structure/ bridge. Project Proponent reported that there will be construction of temporary rest shelters during operational phase. Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that no. of trucks will be deployed 200 per day (20 tonnes capacity each) which increase 250 PCUs per day and the level of service (LOS) remains as "A". Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). Department of Mines and Geology, Govt. of Rajasthan vide letter dated 06.02.2015 has confirmed that the mine site does not fall in Aravali Hills.

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

The Public Hearing for the proposed Project was conducted on 11.12.2014 at 11:00 AM at Tehsil Office, Raipur. The Public Hearing was presided over by Shri Suresh Kumar, Additional District Magistrate, Bhilwara. The representatives from the Rajasthan State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that request to start the mining as soon as possible, No water retain in the wells, Mining should be legalize, Royalty should be start, Employment, Plantation etc. effective implementation of measures will be adopted. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that PP needs to implement the Action Plan and the Implementation Report has to be submit to the Regional Office of the MoEFCC every

six month.

The cost of the Project is Rs. 30.0 Lakhs. The Proponent has earmarked Rs. 1.48 Lakhs towards Environmental Protection Measures towards recurring expenses. Proponent informed that Rs. 114 Lakhs per annum as capital cost have been earmarked towards CSR activities for next five years of mining operation. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~ 10,980 Tons of Bajri has been made during January 2014 to March 2014 and ~ 32,276 Tons 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 **1.12 Million TPA (ROM)**.

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

Consideration of Amendment of EC Proposals

(2.12). Bhonda Gaon Silica Sand Mining Project of M/s Subash Chandra and Mukesh Chandra, located in Village Bhonda Gaon, Tehsil Weir, District-Bharatpur, Rajasthan-Amendment of EC Proposal

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

(2.13). Expansion of Rampura Agucha Lead and Zinc opencast and Underground mining Project from 5.0 million TPA to 6.15 million TPA and Beneficiation Capacity of Beneficiation Plant from 5.0 million TPA to 6.50 million TPA by M/s Hindustan Zinc Ltd., located at village-Agucha, Tehsil-Hurda, District-Bhilwara, Rajasthan (1200ha)-Amendments in EC

The Proposal of M/s Hindustan Zinc Ltd. is for amendments in EC dated 11th December 2009 w.r.t. (i) increase in the depth of opencast pit from 372m bgl to 420m bgl; (ii) Corrigendum in amendment seeking inclusion of both Rail and Road as mode of transport instead of Rail only; and (iii) Quantity of ore treatment from Kayar Lead Zinc mine at Rampura Agucha beneficiation plant to be revised from 0.35 MTPA to 1.00 MTPA due to expansion of Kayar mine. The PP has submitted the request online to the Ministry's portal.

The MoEFCC had accorded the Environmental Clearance vide letter no. J-11015/267/2008-IA.II (M) dated 11th December 2009 and amended the EC on 05.03.2012, 22.08.2014 and corrigendum in EC on 12.12.2014 for Opencast and Underground mining from 5.0 million TPA to 6.15 million TPA and Beneficiation Capacity of Beneficiation Plant from 5.0 million TPA to 6.50 million TPA. Rampura Agucha Mine is commissioned in the year of 1991 and is located in Bhilwara District. Presently the mining is being carried out according to "Modified Scheme of Mining" vide letter no.584 (6) (3)(483)/2012 dated 28.06.2013. **The PP has presented the following w.r.t. amendments in EC:-**

(i). Increase in the depth of the opencast pit from 372m bgl to 420m bgl

The referred Environment Clearance was granted on the basis of the Modified Mining Plan granted vide letter no. 584 (5)(3)(398)/ 2009 AJM dated 4.5.2009. At that point of time as per conditions and geotechnical assessments mining was to be done to the depth upto 372m bgl. In 2014 PP engaged M/s SRK, UK to carry out the feasibility of increasing the open cast mine depth based on the dynamic design parameters and keeping Safety of both Open cast and Underground mine. Conforming to same, M/s SRK has recommended that the open pit mine ultimate depth can be increased from 372 m bgl to 420 m bgl with the same geotechnical stability.

The PP has explained the technical details of Mine Pit deepening, its safety aspects and additional waste management due to pit deepening. Proponent has also presented the production plan year wise from 2015 onwards sharing progressive transition from opencast operation to underground mining. Beyond the completion of open pit, production from underground may be enhanced from 3.75 Million TPA up to the approved limit of 6.15 Million TPA. However at any point of time ore production from Open cast and Underground combined together will not exceed 6.15 Million TPA. Footprint of the Waste Dump and Tailing dam will be modified to store the waste generated within the ML and keeping the height of the Waste Dump at 140 meter. The Indian Bureau of Mines has also modified the Scheme of Mining on 16.09.2014 and granted the permission vide letter no. 584(5)(3)(409)/2014-Shekhani-Ajm/48 dated 15.4.2015. PP requested the amendment at page no. 2 of the EC at line no. 26. The Committee deliberated and recommended the amendments in EC and page 2, line 26 of said EC shall be read as:

“the ultimate depth of opencast mine shall be 420 bgl with extension in footprint of the waste dump within ML, keeping the combined production capacity within 6.15 Million TPA and beneficiation capacity 6.5 Million TPA including the Kayar ore”.

(ii). Corrigendum in amendment seeking inclusion of both Rail and Road as mode of transport instead of Rail only.

The PP was granted an amendment in the above referred EC vide letter No. J-11015/267/2008-IA.II. (M), dated 05.03.2012 for change of mode of transport of mineral from road to rail. The amended letter at the point no. 2(i) states as follows:

...that in the EC letter dated 11.12.2009, in para number 1, the words "the mineral will be transported through road" will be substituted by the word "the mineral will be transported through rail".

The Project Proponent submits that the application was for amendment seeking both Rail and Road as mode of transport. The Project Proponent submits that all their smelters do not have the rail connectivity so the concentrate shall also be transported by road also. The same was presented to EAC on 20/11/2011 and also appeared in the Minutes of the EAC meeting held during 20-21stOctober, 2011 at item No. 2.19 stating *“Now the proponent have proposed to construct a 17 km long railway line to the nearest railway station at Rupaheli and siding as a supplement to the road transport.”* The Project Proponent has represented the same vide their letters nos HZL/RAM/Env/2011-12 dated 16.3.2012, HZL/ RAM/ Env /2012-13 /6586 dated 15.1.2013 and HZL/RAM/Env/2013-14/ dated 23.5.2013. The Committee deliberated the issues and **recommended** that EC condition may be amended as follows:

“The mineral will be transported both through road and rail”.

(iii) Quantity of ore treatment from Kayar Lead Zinc mine at Rampura Agucha beneficiation plant to be revised from 0.35 MTPA to 1.00 MTPA due to expansion of Kayar mine

The Project Proponent is presently treating 0.35 MTPA ore of Kayar mine at Rampura Agucha Beneficiation Plant. Since the Kayar Mine EC is revised vide letter no J-11015/47/2012-IA.II. (M) due to expansion in capacity to 1.0 MTPA, amendment in the EC of Rampura Agucha Mine in the page no. 2 of the at line no. 17 "The beneficiation plant will get the raw ore from this mine (6.15 million TPA) and 0.35 million TPA from Kayar mine" will be amended as follows: "The beneficiation plant will get the raw ore from this mine and from Kayar mine aggregating to 6.5 million TPA."

The Committee deliberated the issues and **recommended** that the page no. 2, line no. 17 of EC may be amended as follows:

"The beneficiation plant will get the raw ore from this mine and from Kayar mine aggregating to 6.5 million TPA."

The Committee deliberated at length the information submitted by PP and **recommended** the following **amendments in the EC** which are as:-

- (i) Environmental Clearance, vide letter no. J-11015/260/2008-IA.II (M) dated 11th December 2009, page 2, line 26 may be amended as:

"the ultimate depth of opencast mine shall be 420 bgl with extension in footprint of the waste dump within ML, keeping the combined production capacity within 6.15 Million TPA and beneficiation capacity 6.5 Million TPA including the Kayar ore".

- (ii) Environmental Clearance, vide letter no. J-11015/267/2008-IA.II (M) dated 11th December 2009 may be amended as:

"The mineral will be transported both through road and rail".

- (iii) Environmental Clearance, vide letter no. J-11015/267/2008-IA.II (M) dated 11th December 2009, page no. 2, line no. 17 of EC may be amended as follows:

"The beneficiation plant will get the raw ore from this mine and from Kayar mine aggregating to 6.5 million TPA."

Consideration of TOR Proposals

(2.14). Rohera Watera Limestone Mines with proposed production capacity of 1.3 million TPA (ROM) of limestone by M/sJK Lakshmi Cement Ltd., located at Village Rohida, Tehsil Pindwara, District Sirohi, Rajasthan (ML Area: 73.7421 ha) (Consultant: EMTRC Consultants Pvt. Ltd.)-TOR

The Proposal of M/s JK Lakshmi Cement Ltd. is for Rohera Watera Limestone Mines with proposed production capacity of 1.3 million TPA (ROM) of limestone in MLA of 73.7421ha. The mine lease area is located at Village Rohida, Tehsil Pindwara, District Sirohi, Rajasthan. The Latitudes and Longitudes are 24°36'24.22" to 24°37'45.62" and 72°56'20.27" to 72°57'22.7" respectively.

Mine lease area is 73.7421 ha. Government of Rajasthan has issued Letter of Intent vide No. P 3(76) Khan / Group-2 / 2012 dated 17.12.2014. The method of mining will be fully mechanized opencast method with the use of HEMM. It is proposed to mine with benches of 7 m height and width of benches about 20-30 m. Blast holes of 150 mm dia. are proposed to be drilled by using DTH wagon drill machine and blasting with ANFO with Booster charge. The net mineable reserve is 21.4 million tons. 3.6 million tons limestone will be extracted during the first 5 years. Stripping ratio is 1:0.022. Life of the mine is 20 years. Water requirement is 30 KL/day. The project cost is Rs.17 Crores.

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

(2.15). Dhanapali Sand Mining Project with proposed production capacity of 27,004 Cum per Annum by M/s Nandlal Kumar Gupta, located at Village-Dhanapali, Panchayat- Kolpotka, District- West Singhbhum, Jharkhand (ML Area: 5.26ha) (Consultant: M/s Greencindia Consulting Private Limited)-TOR

The proposal of M/s Nandlal Kumar Gupta is for Dhanapali Sand Mining Project with proposed production capacity of 27,004 cum per Annum in the mine lease area 5.26ha. The mine lease area is located at village-Dhanapali, Panchayat- Kolpotka, District-West Singhbhum, Jharkhand. Project location is coming in Koel River bed. Latitudes and Longitudes of the site is 22° 19' 14.1" N to 22° 19' 14.8" N and 85° 06' 58.5" E to 85° 06' 29.5" E respectively. It is Category 'A' project as the site is located adjacent to Interstate Boundary of Jharkhand and Odisha.

Mine lease area is 5.26ha. Government of Jharkhand has issued Letter of Intent vide No. 579/M dated 29.05.2015. Mine lease was granted for a period of 3 years. Method of mining is opencast semi-mechanized. The operation involves the excavation of sand in its existing form and transported to the end users. Total water

requirement for the proposed project is 11.3 KLD i.e including drinking, domestic, dust suppression and green belt development. Total project Cost is Rs. 1 Crore.

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

(2.16). Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Bhood Kalan Block/YNR B 19" with production capacity of 2,59,000 TPA (ROM) by M/s Ganga Yamuna Mining Company, located at Bhood Kalan Block/YNR B19, Tehsil-Chhachharauli, District- Yamuna Nagar, Haryana (12.62 ha)- (Consultant : Vardan Environet) – TOR

The proposal of M/s Ganga Yamuna Mining Company is for Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Bhood Kalan Block/YNR B 19" with production capacity of 2,59,000 TPA (ROM) in mine lease area of 12.62 ha. The mine lease area is located at Tehsil- Chhachharauli, District- Yamuna Nagar, Haryana. The mine lease area is a part of Private Agricultural land outside the river bed. The Latitudes and Longitudes of mine lease area(Block/YNR B 19) are 30° 15'21.90", 30° 15'29.80", 30° 15'17.50", 30° 15'21.60" N & 077° 29' 37.40", 077° 29' 37.50", 077° 29' 52.70", 077° 29' 42.20" E respectively on toposheet number H43L8, H43L7, H43L11, H43L12. The Project is located in seismic zone-IV. It is Category 'A' project as the site is located at 2.4 Km distance from Interstate Boundary of Haryana and Uttar Pradesh.

The proposed project is an open-cast mining project, confined to excavation of Boulder, Gravel & Sand Mine from the proposed site. The mining operation will be done by mechanized method. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of Intent has been issued by Director, Mines and Geology Department, Chandigarh, Haryana, vide Memo No. DMG/Hy/Cont/B.Kalan Block/YNR B 19/2015/3927 dated 19/06/2015. Letter of Intent is for 7 years.

Proponent reported that no ecologically sensitive area such as National Parks, Tiger Reserves falls within the study area (10 Km radius of the mine boundary) other than one Kalesar Wildlife Sanctuary 7.5 Km towards N direction from mine lease area. NBWL Clearance is required for this mining Project. The total water

requirement is 26 KLD including water demand for domestic purpose, dust suppression and green belt development which will be met by tanker supply. The total cost of project would be around Rs. 4.0 Crores.

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

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

(2.17). Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Begampur Block/YNR B 37" with production capacity of 7,11,000 TPA (ROM) by M/s Yamuna Infradevelopers Private Ltd., located at Begampur Block/YNR B 37, Tehsil-Chhachharauli, District- Yamuna Nagar, Haryana (39.50 ha)- (Consultant : Vardan Environet) – TOR

The proposal of M/s Yamuna Infradevelopers Private Ltd is for Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Begampur Block/YNR B 37" with production capacity of 7,11,000 TPA (ROM) in mine lease area of 39.50ha. The mine lease area is located at Tehsil-Chhachharauli, District- Yamuna Nagar, Haryana. The mine lease area is a part of Private Agricultural land outside the river bed. The Latitudes and Longitudes of mine lease area(Block/YNR B 37) are 30°14'4.25", 30°14'7.70", 30°13'52.29", 30°13'48.50"N" and 077°26'38.40", 077°27'10.20", 077°26'27.70", 077°26'56.70"E" respectively on toposheet (OSM) number H43L8, H43L7, H43L11, H43L12. The Project is located in seismic zone-IV. It is Category 'A' project as the site is located at 4.8 Km distance from Interstate Boundary of Haryana and Uttar Pradesh.

The proposed project is an open-cast mining project, confined to excavation of Boulder, Gravel & Sand Mine from the proposed site. The mining operation will be done by mechanized method. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent

has been issued by Director, Mines and Geology department, Chandigarh, Haryana, vide memo No. DMG/Hy/Cont/Begampur Block/YNR B 37/2015/3935 dated 19/06/2015. Letter of intent for mine lease area is 8 years.

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). The total water requirement is 52 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 7.5 Crores.

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

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

(2.18). Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Bhood Majra Block/YNR B 20" with production capacity of 2,00,000 TPA (ROM) by M/s Ganga Yamuna Mining Company, located at Bhood Majra Block/YNR B 20, Tehsil-Chhachharauli, District- Yamuna Nagar, Haryana (9.95 ha)- (Consultant : Vardan Environet) – TOR

The proposal of M/s. Ganga Yamuna Mining Company is for Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Bhood Majra Block/YNR B 20" with production capacity of 2,00,000 TPA (ROM) in mine lease area of 9.95ha. The mine lease area is located at Tehsil- Chhachharauli, District- Yamuna Nagar, Haryana. The mine lease area is a part of Private Agricultural land outside the river bed. The Latitudes and Longitudes of mine lease area(Block/YNRB20) are 30°15'06.10", 30°15'05.80", 30°14'50.10" ,30°15'00.20" N & 077°28'43.80", 077°28'46.40", 077°28'50.60", 077°28'38.60" E respectively on toposheet (OSM) number H43L8, H43L7, H43L11, H43L12. The Project is located in seismic zone-IV. It is Category 'A' project as the site is located at 2.3 Km distance from Interstate

Boundary of Haryana and Uttar Pradesh.

The proposed project is an open-cast mining project, confined to excavation of Boulder, Gravel & Sand Mine from the proposed site. The mining operation will be done by mechanized method. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued by Director, Mines and Geology department, Chandigarh, Haryana with vide memo No. DMG/HY/Cont/ Bhood Majra Block/YNR B-20 /2015/3929 dated 19/06/2015. Letter of intent for mine lease area is 7 years.

Proponent reported that no ecologically sensitive area such as National Parks, Tiger Reserves falls within the study area (10 Km radius of the mine boundary) other than One Kalesar Wildlife Sanctuary which is present in 8.7 Km towards NE direction from mine lease area. The total water requirement is 20 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 3.5 Crores.

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

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

(2.19). Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Bailgarh South Block/YNR B 2" with production capacity of 13,00,000 TPA (ROM) by M/s Mubarikpur Royalty Company, located at Bailgarh South Block/YNR B-2, Tehsil-Chhachharauli, District- Yamuna Nagar, Haryana (28.00 ha)- (Consultant: Vardan Environet) – TOR

The proposal of M/s Mubarikpur Royalty Company is for Mining of "Boulder,

Gravel and Sand" (Minor Mineral) in the mine of "Bailgarh South Block/YNR B 2" with production capacity of 13,00,000 TPA (ROM) in mine lease area of 28.00ha. The mine lease area is located at Tehsil- Chhachharauli, District- Yamuna Nagar, Haryana. The lease area lies in the River Bed. The Latitudes and Longitudes of mine lease area (Block/YNR B-2) are 30°13'33.428", 30°13'41.174", 30°12'34.295", 30°13'2.697" N and 77°29'37.324", 77°30'18.045", 77°29'27.68", 77°29' 12.409" E respectively on toposheet (OSM) number H43L8, H43L7, H43L11, H43L12. The Project is located in seismic zone-IV. It is Category 'A' project as the site is located at 0.5 Km distance from Interstate Boundary of Haryana and Uttar Pradesh.

The proposed project is an open-cast mining project, confined to excavation of Boulder, Gravel & Sand Mine from the proposed site. The mining operation will be done by semi-mechanized method. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued by Director, Mines and Geology department, Chandigarh, Haryana on 19/06/2015, vide memo No. DMG/HY/Cont/B.Garh South Block/YNR B2/2015/3913. Letter of intent for mine lease area is 9 years.

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). The total water requirement is 43 KLD including water demand for domestic purpose, dust suppression and green belt development which will be met by tanker supply. The total cost of project would be around Rs. 8.5 Crores.

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

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

(2.20). Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Devdhar Block/YNR B 24" with production capacity of 5,10,000 TPA (ROM) by M/s Northern Royalty Company, located at Devdhar Block/YNR B-24, Tehsil-Chhachharauli, District- Yamuna Nagar, Haryana (31.87ha)- (Consultant : Vardan Environet) – TOR

The proposal of M/s Northern Royalty Company is for Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Devdhar Block/YNR B-24" with production capacity of 5,10,000 TPA (ROM) in mine lease area of 31.87ha. The mine lease area is located at Tehsil-Chhachharauli, District-Yamuna Nagar, Haryana. The mine lease area is a part of Private Agricultural land outside the river bed. The Latitudes and Longitudes of mine lease area(Block/YNR B 24) are 30°15'03.0", 30°15'02.07", 30°14'49.06",30°14'49.09" N & 77° 28' 06.0", 77° 28'31.03", 77° 28' 25.02" , 77° 27' 57.07" E respectively on toposheet (OSM) number H43L8, H43L7, H43L11, H43L12. The Project is located in seismic zone-IV. It is Category 'A' project as the site is located at 3.8 Km distance from Interstate Boundary of Haryana and Uttar Pradesh.

The proposed project is an open-cast mining project, confined to excavation of Boulder, Gravel & Sand Mine from the proposed site. The mining operation will be done by mechanized method. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued by Director, Mines & Geology department, Chandigarh, Haryana on 19/06/2015, vide memo No. DMG/HY/cont/Devdhar Block/YNR B-24/2015/3933. Letter of intent for mine lease area is 8 years.

Proponent reported that no ecologically sensitive area such as National Parks, Tiger Reserves falls within the study area (10 Km radius of the mine boundary) However, One Kalesar Wildlife Sanctuary (9.0 Km towards NE direction) are present in 10 Km radius of mine lease area. NBWL Clearance is required for this Project. The total water requirement is 42 KLD including water demand for domestic purpose, dust suppression and green belt development which will be met by tanker supply. The total cost of project would be around Rs. 8.0 Crores.

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

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

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

(2.21). Melavenkateswarapuram Limestone Mine with enhancement of production capacity from 0.101 million TPA to 0.50 million TPA (0.72 million TPA (ROM) by M/s Ramco Cements Ltd., located at Village(s)-Pudur, Nadukattur, Tehsil-Sennayampatti, Taluk-Vilathikulam, Distt-Thoothukudi, Tamil Nadu (98.62ha) (Consultant: Creative Engineers & Consultants, Chennai)-Extension of validity of TOR and corrigendum w.r.t. ROM

The Ministry has prescribed TOR on 09.9.2013 to M/s Ramco Cements Ltd., for Melavenkateswarapuram Limestone Mine with, located at Villages-Pudur, Nadukattur, Tehsil-Sennayampatti, Taluk-Vilathikulam, Distt-Thoothukudi, Tamil Nadu. Further, Ministry vide letter dated 12.06.2015 has amended the MLA from 103.53ha to 98.62ha.

The PP, vide letter dated 15.07.2015 requested to corrigendum w.r.t. ROM to 0.72 million TPA (ROM) and 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 09.09.2015 to 08.09.2016** and also the proposed enhancement of production capacity from **0.101 million TPA to 0.50 million TPA (0.72 million TPA (ROM) of limestone.**

(2.22). Proposed Expansion of Soapstone Production Capacity from 15,000 TPA to 74,630 TPA (ROM) and Proposed production capacity of Dolomite– 3,14,500 TPA (ROM) and proposed production capacity of Quartzite– 3,28,540 TPA (ROM) by M/s Tulsi Mines and Minerals, located near village– Rawat Kheda, Tehsil -Jahajpur, District-Bhilwara, Rajasthan(ML Area-50.3840 ha & ML No. 39/84) (Consultant: J.M. EnviroNet Pvt. Ltd.)-TOR

The Proposal of M/s Tulsi Mines and Minerals is for Expansion of Soapstone with production capacity from 15,000 TPA to 74,630 TPA (ROM), Dolomite to 3,14,500 TPA (ROM) and Quartzite to 3,28,540 TPA (ROM). The mine is located at village– Rawat Kheda, Tehsil -Jahajpur, District-Bhilwara, Rajasthan *in* ML Area of 50.3840ha. The Latitudes and Longitudes of mine lease area are 25°35'22.89", to 25°35'54.39" N and 75°14'12.7" to 75°14'55.44" E on Survey of India Toposheet no.- 45 L/10.

Total mining lease area is 50.3840 ha, out of which 14.301ha is private land and 36.083 ha is Govt. land. The mining lease for soapstone over an area of 50.3840 ha was sanctioned in favour of Shri Vamdeo Singh for a period of 20 years vide letter no. F -2 (231) Khan/Gr-2/84 dated 15.12.1984. Later, the mining lease was transferred in favour of M/s. Tulsi Mines and Minerals. The transfer agreement executed on August 7, 1991 and registered on 22.08.1991. Modified Mining Plan with Progressive Mine Closure Plan has been approved by Government of Rajasthan, Office Superintendent Mining Engineer, Bhilwara vide letter no. S. No. S.M.E./Bhil. Circle/Modi. M. Plan/ML No. 39/84/2427 dated: 07/07/2015. LoI for the inclusion of Dolomite & Quartzite mineral was granted to M/s. Tulsi Mines & Minerals over an area of 50.3840 ha by Govt. of Rajasthan vide order no. P.5 (79) Khan/Group-2/2014, dated 30.12.2014.

The opencast semi mechanized method of mining will be used for excavation of mineral and waste and for loading the same. The bench height is proposed 6 meters and width will be 6 meter considering the semi mechanized workings. Blasting will be done as and when required. The transportation and overburden dumping is proposed by tippers & tractors. Total water requirement for the Mining Project will be 10 KLD, which will be sourced from nearby villages. Total manpower requirement for the Mining Project will be 70 persons. Total cost of the Project is Rs. 2.5 Crore/-. Recurring Cost for Environmental Protection Measures is Rs. 3 Lac/Annum. There is no Court case/ litigation pending against the project.

Environmental clearance for the existing production capacity of 15,000 TPA of Soapstone was obtained from MoEF & CC, New Delhi vide Letter No. J-11015/341/2005-IA. II(M) dated 4.10.2006. There are no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves within 10 km radius of the mine site. There are 4 Protected Forests, 5 Reserved Forests and some other patches of Reserved and protected forests within the 10 km study area.

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**.

(2.23). Enhancement of Onkarpura China Clay Soapstone and Red-ochre from 0.1 Million TPA to 0.95 Million TPA (ROM) by M/s R.B. Mining & Company, located at near -village Onkarpura, Tehsil Kotri, District Bhilwara, Rajasthan (M.L No. 217/05, M.L. Area 80.25 ha)-Extension of validity of TOR

The project for Expansion in production capacity of Onkarpura China Clay, Soapstone & Red Ochre Mine from 0.1 Million TPA to 0.95 Million TPA (ROM), located at near - village Onkarpura, Tehsil Kotri, District Bhilwara, Rajasthan. Ministry has accorded ToR to the project vide letter no. J-11015/248/2012-IA.II (M) dated 13.09.2013 which is valid up to 12.09.2015.

Project Proponent has submitted online request for extension of validity of TOR, as the submission of final EIA report was delayed due to delay in conducting the Public Hearing.

Based on the discussions held, the Committee **recommended** extension of the validity of TOR for one year i.e. **from 13.09.2015 to 12.09.2016.**

Consideration of EC Proposals

(2.24). Mining of Mineral Bajri (Minor Mineral) with proposed production capacity of 0.84 Million TPA (ROM) by Shri Ashu Singh Bhati, located at Revenue villages of Tehsil Shahpura, District-Bhilwara, Rajasthan (MLA 624.39ha) (Consultant: Enkay Enviro Services Pvt. Ltd.)-Consideration of EC

The proposal of Shri Ashu Singh Bhati is for mining of Bajri (Minor Mineral) with proposed production capacity of 0.84 Million TPA (ROM). The mine lease area is located at Revenue villages of Tehsil – Shahpura, District –Bhilwara in the mine lease area of 624.39ha. The mine lease area lies on Khari and Mashhi River. The Project is located in Seismic zone-II. The Lease area falls on Survey of India toposheet number 45K/13, 45K/14, 45O/1 and 45O/2. The Latitudes and Longitudes of the mine lease area as below:

Zone	Latitudes	Longitudes
Zone - I	25°52'42.86" N to 25°46'05.84"N	74°52'03.21" E to 74°06'46.70" E
Zone - II (A)	25°48'15.32" N to 25°46'05.84"N	74°45'31.08" E to 74°06'46.70" E
Zone - II (B)	25°40'06.02" N to 25°44'00.95" N	74°47'09.75" E to 74°57'11.6" E

The proposal of TOR was considered by the Expert Appraisal Committee in its 13th Meeting held during 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-11015/286/2013-IA.II (M) dated 09.12.2013. The Proponent submitted the EIA/ EMP Report online to Ministry for seeking Environmental Clearance after conducting Public Hearing.

The mine lease area is 624.39ha which is Khari and Mashhi River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 624.39 ha has been granted by the Director of Mines and Geology Department, Govt. of Rajasthan, vide letter dated 27.03.2013 for the period of 5 year. The Mining Plan is approved by SME, Bhilwara Circle, Bhilwara vide letter no. SME/ BHL-C12/F/Mining Plan/ Mining Scheme/ 3762 dated 27.08.2013. Method of mining is semi - mechanized opencast method. Excavation will be carried out up to a maximum depth of 3.0 meters from surface of deposit and not less than one meter

from the water level of the River Khari and Mashri whichever is reached earlier. Proponent informed that 100 ha area will be used for excavation; 12.06 ha for safety zone against bridges (9 nos.); 30.24 ha for permanent roads (21 nos.) and 67.39 ha for wells (103 nos.). The site elevation is 374.2 MSL highest and 342.2 MSL is lowest. The ground water depth is 8.0m bgl in pre-monsoon season and 5.0m bgl in post-monsoon season. The total water requirement is 13.0 KLD including water demand for domestic purpose and dust suppression which will be met by tanker supply. No ground water interception during the mining operations is envisaged.

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

Mineral will be transported through road. Project Proponent has made the traffic analysis survey and reported that no. of trucks will be deployed 150 per day (20 tonnes capacity each) which increase 250 PCUs per day and the level of service (LOS) remains as "A". Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). Department of Mines and Geology, vide letter dated 06.02.2015 has confirmed that mine lease area does not fall under Aravali Hills.

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 Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearing for the proposed Project was conducted on 07.11.2014 at 4:00 PM at Tehsil Office, Tehsil – Shahpura, District – Bhilwara. The Public hearing was presided over by Shri Giriraj Verma, Additional District Magistrate, Bhilwara. The representative from the Rajasthan State Pollution Control Board was also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that depletion of bajri, water level going down, maintain of roads/rasta, effective implementation of measures will be adopted. Project Proponent has made the action plan with budgetary provisions. The Committee deliberated and is of the view that PP needs to implement the action plan

and the Implementation Report has to be submit to the Regional Office of the MoEFCC every six month.

The cost of the Project is Rs. 1.40 Crores. The Project Proponent has earmarked Rs. 11.50 lacs towards Environmental Protection Measures per annum towards capital cost and 1.15 lacs as recurring expenses. Proponent informed that Rs. 10.50 lacs per annum as capital cost and Rs. 1.05 lacs as recurring cost have been earmarked towards CSR activities for next five years of mining operation. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~ 19534 Tons of Bajri has been made during January 2014 to March 2014 and ~ 43,830 Tons 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 **0.84 Million TPA (ROM)**.

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

(2.25). Minor Mineral Mining (Sand, Boulder, Bajri) with production capacity 4,77,306 TPA (ROM) by M/s. Uttarakhand Forest Development Corporation located at Malan River bed, Village(s) Lachampur, Haldukhata, Jashodharpur, Teshil – Kotdwar, District– Pauri Garhwal, Uttarakhand (35.356ha)(Consultant: Mantec Consultants Pvt. Ltd.)-Consideration of EC

The proposal of M/s Uttarakhand Forest Development Corporation is for the mining of Sand, Bajri and Boulder (Minor Mineral) from "Malan River Bed" with production capacity of 4,77,306 TPA (ROM). The mining lease areas are located at villages- Lachampur, Haldukhata, Jashodharpur, Tehsil- Kotdwar, District- Pauri Garhwal, Uttarakhand in mine lease area of 35.356 ha. The mining area lies in the bed of River Malan River. The geographical limits of the mining area in river bed are from Latitudes- 29° 47' 4.15" N to 29° 45' 9.88" N Longitudes-78° 26' 42.01" E to 78° 27' 20.43" E. Toposheet No of the area are 53 K/9, with highest elevation 456m AMSL to lowest 397 m AMSL in River bed . The Project is located in seismic zone-IV. It is a Category 'A' Project as the MLA is located 1.03 km interstate boundary of Uttarakhand and Uttar Pradesh.

The Proposal of TOR was considered by the Expert Appraisal Committee in its Meeting held during 29th - 30th April, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter no. J-11015/452/2013-IA.II (M), dated 11 June, 2014. The Proponent submitted the EIA/EMP Report online to the Ministry after conducting the Public Hearing.

The present proposal pertains to mining of river sand. The rate of production will be 4, 77,306 TPA (ROM). Total proposed area is 35.356ha which is forest land. MoEFCC, vide letter no. 8-30/1999-FC (pt.), dated 03.01.2014 has granted Forest Clearance for diversion of 35.356ha forest land. The Letter of Intent has been issued by the Director of Mines and Geology, State Govt. of Uttarakhand, vide letter no. 1386/Khanan/V.VI.NI/AA.P/ BHU.KANI.E /2013-14 dated 22.01.2015. Mine Plan has been approved by Department of Mining & Geology, Dehradun, Uttarakhand vide letter no. 1053 dated 02/01/2015. The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Uttarakhand, vide letter dated 02.01.2015 and the Public Hearing was held during 21.10.2014. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the PP to the Public.

Method of mining will be opencast Semi-Manual mining in river bed. Excavation on River bed 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. No drilling and blasting shall be adopted. There will be no mining in river bed during monsoon season. Geological Reserves in the mining area are estimated to be 9437334.18 MT whereas Mineable Reserve is

estimated to be 4718667.09MT. Period of mining will be 5 years. The machinery for the mining will be excavators, dumpers and tractors trolleys etc. No waste shall be generated from dried river bed mining; Total water requirement shall be 11 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 no. of trucks will be deployed 10 per day (10 tonnes capacity each) and the level of service (LOS) remains average. Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at all the sensitive places. No objection certificate for the use of existing road is taken from Deputy Commissioner Kurukshetra.

Project Proponent reported that there is no Wildlife Sanctuary, National Park, Habitat for Migratory Birds, Tiger Reserve and Critically Polluted Area etc. located within 10 km radius of the proposed mine. There are eight Schedule-I species namely small-clawed otter, elephant, leopard cat, Indian pangolin, Honey Badger, Tiger, leopard and Seven Schedule-II species namely Golden Jackal, Jungle cat & Indian Grey mongoose, sloth bear and King Cobra, Himalayan Black Bear, Common red fox found in buffer zone. The conservation plan has been forwarded by the Chief Wildlife Warden Haryana vide letter dated 09.01.2015. The Proponent has proposed a sum of Rs 27.17 Lakhs/Year for conservation of all Schedule I & II species.

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

Public Hearing for the proposed Project was conducted on 21.10.2014 at 2:00 PM at Primary Secondary School, Mota dank, Kotdar, Pauri Garhwal, Dehradun. The Public Hearing was presided over by Shri C.S. Bhatt, District Magistrate, Pauri Garhwal. 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, green belt development, social and other village development activities and not to harm nearby fields.

The total cost of the Project is Rs. 2.0 Lakhs. The cost on environment protection measures will be Rs. 5, 76,000. It is proposed to incur Rs. 3.22 Lakhs on CSR activities. Project Proponent reported that there is a no Court case pending against the project.

The Committee noted that the Mine Plan has been approved by Department of Mining & Geology, Uttarakhand, vide letter dated 02.01.2015 and the Public Hearing was held during 21.10.2014. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the PP to the Public.

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 **4,77,306 TPA (ROM) subject to submission of Comments of Mining & Geology Department on Draft and approved Mining Plan along with improved mineral transportation plan.**

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

(2.26). Minor Mineral Mining (Sand, Boulder, Bajri) with production capacity of 3,91,770 TPA (ROM) by M/s Uttarakhand Forest Development Corporation, located in the Sukharo river bed, village-Balbhadrapur, Tehsil- Kotdwar, District-Pauri Garhwal, Uttarakhand (29.02ha)(Consultant: Mantec Consultants Pvt. Ltd.)-Consideration of EC

The proposal of M/s Uttarakhand Forest Development Corporation is for mining of Sand, Bajri and Boulder (Minor Mineral) from "Sukhro River Bed" with production capacity of 3,91,770 TPA (ROM). The mining lease areas located village-Balbhadrapur, Tehsil-Kotdwar, District-Pauri Garhwal, Uttarakhand in mine lease area of 29.02ha. The mining area lies in the bed of River Sukhro River. The geographical limits of the mining area in river bed are from Latitudes- 29° 44' 43.77" N to 29° 46' 7.08" N Longitudes-78°28' 47.74" E to 78° 30' 26.87" E Toposheet Nos. of the area are 53 K/9, with highest elevation 390m AMSL to lowest 377 m AMSL in River bed . The Project is located in seismic zone-IV. It is a Category 'A' Project as the MLA is located 2.2 km interstate boundary of Uttarakhand and Uttar Pradesh.

The Proposal of TOR was considered by the Expert Appraisal Committee in its Meeting held during 29th - 30th April, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF&CC vide letter no. J-11015/448/2013-IA.II (M), dated 11 June, 2014. The Proponent submitted the EIA/EMP Report online to the Ministry after conduction the Public Hearing.

The present proposal pertains to mining of river sand. The rate of production will be 3, 91,770 TPA (ROM). Total proposed area is 29.02ha. The Letter of Intent has been issued by the Director of Mines and Geology, State Govt. of Uttarakhand, vide letter no. 584/Khanan/ BHU.KANI.E /2012-13 dated 23.01.2013. Mine Plan has been approved by Department of Mining & Geology, Dehradun, Uttarakhand vide letter no. 1352 dated 02/01/2015. The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Haryana vide letter dated 02.01.2015 and the Public Hearing was held during 21.10.2014. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the PP to the Public.

Method of mining will be opencast manual mining in river bed. Excavation on River bed 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. No drilling and blasting shall be adopted. There will be no mining in river bed during monsoon season. Geological Reserves in the mining area are estimated to be 6854360.55 MT whereas Mineable Reserve is estimated to be 484930.22 MT. Period of mining will be 5 years. The machinery for the mining will be excavators, dumpers and tractors trolleys etc. No waste shall be

generated from dried river bed mining; Total water requirement shall be 10 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 no. of trucks will be deployed 10 per day (10 tonnes capacity each) and the level of service (LOS) remains average. Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at all the sensitive places. No objection certificate for the use of existing road is taken from Deputy Commissioner Kurukshetra. Project Proponent reported that there is no Wildlife Sanctuary, National Parks, Habitat for Migratory Birds, Tiger Reserve and Critically Polluted Area etc. located within 10 km radius of the proposed mine. There are eight Schedule-I species namely small-clawed otter, elephant, leopard cat, Indian pangolin, Honey Badger, Tiger, leopard and Seven Schedule-II species namely Golden Jackal, Jungle cat & Indian Grey mongoose, sloth bear and King Cobra ,Himalayan Black Bear, Common red fox found in buffer zone. The conservation plan has been forwarded by the Chief Wildlife Warden Haryana vide letter dated 09.01.2015. The Proponent has proposed a sum of Rs 27.17 Lakhs/Year for conservation of all Schedule I & II species.

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

Public Hearing for the proposed Project was conducted on 21.10.2014 at 2:00 PM at Paniyali Forest Rest House, Kotdwar, Pauri Garhwal. Public Hearing was presided over by Shri C.S. Bhatt, District Magistrate, Pauri Garhwal. 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, green belt development, social and other village development activities and not to harm nearby fields.

The total cost of the Project is Rs. 2.0 Lakhs. The cost on environment protection measures will be Rs. 6,07,000. It is proposed to incur Rs. 2.76 Lakhs on CSR activities. Project Proponent reported that there is a no Court case pending against the project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri with proposed production capacity of **3,91,770 TPA (ROM) subject to submission**

of Comments of Mining & Geology Department on Draft and approved Mining Plan along with improved mineral transportation plan.

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

(2.27). Collection of river bed sand from the River Gowai with proposed production capacity of 2 Lakh TPA (ROM), located at Village(s)- Premsinghdih, Poradih, Erandih, Tehsil – Raghunathpur II, District Purulia, West Bengal (MLA-44.10ha) (Consultant: ISM Dhanbad)- Consideration of EC

The proposal of M/s Tata Steel Ltd. is for collection of river bed sand from the River Gowai with proposed production capacity of 2 Lakh TPA (ROM). The mining lease area is located in Mouza Premsinghdih, Poradih, Erandih, Nabagram and Kumardih, Tehsil-Raghunathpur II, District Purulia in West Bengal. The proposed activity will be carried out in the bed of the River Gowai, which is a tributary of Damodar River, between Latitude 23° 36' 8.00" N to 23° 38' 2.64" N and Longitude: 86° 26' 50.10" E to 86° 28' 57.13" E and is included in the Survey of India Toposheet No. 73 I/6. The MLA is 44.10ha and it is a Category 'A' Project as the MLA is located 0.5 km interstate boundary of Jharkhand and West Bengal.

The TOR were issued by MoEFCC vide letter No. J- 11015/422/2012-IA.II (M) dated 13th September, 2013. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The total mine lease area of the project is 44.10 ha. No forestland is involved. The Government of West Bengal has approved the Mining Plan, vide memo 222/CMO XVI/91(106), dated 23.07.2014. The method of mining is by semi-mechanized, open-cast method without involving drilling and blasting. It is confined to collection of sand from the river bed and transporting the sand to the colliery by covered trucks. The sand mining will be carried out up to a depth of 2m or above ground water level whichever is less of the river bed and excavation machines along with hand tools like shovel, pan, sieve etc. will be used. The proposed capacity is 0.2 million TPA of sand (ROM). The deposits occur in the bed of the river. As this deposit is replenishable every year during the monsoon floods, therefore the life will continue till the period of lease and its subsequent renewals. Approximately 830 TPD of sand will be transported through the road to a distance of 20 kms. The area displays a gently undulating terrain with general elevation ranging from 151m to 130 m above mean sea level. The general slope of the Gowai River area is towards north.

Project Proponent reported that there is no National Parks, Wildlife Sanctuaries, Biosphere Reserves, and Wildlife Corridors, Tiger / Elephant Reserves (existing or proposed) etc. falling within 10 km of the mining lease area. There is no Schedule I species found in the study area. There is no requirement of water for industrial purpose. Clean drinking water (approx. 1-2 KLD) will be provided to the workers by the company while water required for dust suppression and plantation development will be made available from the mine pit water of captive collieries of Tata Steel at Jamadoba. Baseline data on Ambient Air Quality, Water Quality, Soil Quality and Noise Quality has been collected for post monsoon i.e. October 2011 to December 2013. The Committee deliberated the base line data and noted that the PM₁₀ values are exceeding at locations viz. SEB Quarters & Sadamdih. The average value of PM₁₀ is 95.04 µg/m³.

The Public Hearing was held on 25.03.2015 and presided over by Shri P.K. Maity, ADM, Parulia. The representatives of State Pollution Control Board were present. The issues raised during the Public Hearing were also considered and discussed during the meeting. The capital cost of the project is Rs.20 Lakhs and the annual recurring cost towards the environmental protection measures is proposed as Rs.10 Lakhs. This covers cost towards periphery development, environment care, plantation and social welfare etc. There is no court case related to the project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Sand with proposed production capacity of **0.2 Million TPA (ROM)**.

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (ii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iii) Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc.; (iv) Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (v) Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (viii) Mitigation measures and adequate safety zone from the bridge to be maintained; (ix) PP to conduct AAQ monitoring by a Reputed and neutral agency within 6 months; (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.

(2.28). Mining of Mineral Bajri (Minor Mineral) with proposed production capacity of 1.12 Million TPA (ROM) by Shri Mangal Singh Solanki, located at Revenue villages of Tehsil – Chauth Ka Barwara, District-Sawai Madhopur, Rajasthan (MLA 278.67ha)(Consultant: Enkay Enviro Services Pvt. Ltd.)-Consideration of EC

The proposal of Shri Mangal Singh Solanki is for mining of Bajri (Minor Mineral) with proposed production capacity of 1.12 Million TPA (ROM). The mine lease area is located at Revenue villages of Tehsil – Chauth Ka Barwara, District –Sawaimadhapur in the mine lease area of 278.67ha. The mine lease area lies on Banas River. The Latitudes and Longitudes of the mine lease area lies between 26°08'11.75" N to 26°11'15.60" N and 76°05'33.78" E to 76°16'18.80" E on Survey of India toposheet numbers 54 B/4 & 54B/8. The Project is located in Seismic zone-II.

The proposal of TOR was considered by the Expert Appraisal Committee in its 11th Meeting held during 25th - 27th September, 2013 to determine the Terms of

Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF&CC vide letter No. J-11015/233/2013-IA.II (M), dated 17th October, 2013. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 278.67 ha which is Banas River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, Bajri over an area of 278.67 ha has been granted by the Director of Mines and Geology Department, Govt. of Rajasthan, vide letter dated 11.01.2013 for the period of 5 year. The Mining Plan is approved by Director, Mines and Geology, Govt. of Rajasthan; vide letter no. SME/ JP/ MP/ 398/ 13 dated 05.09.2013. Method of Mining is Open Cast Semi-Mechanized. Excavation will be carried out up to a maximum depth of 3.0 meters from surface of deposit and not less than one meter from the water level of the River Banas whichever is reached earlier. Proponent informed that 133.30 ha area will be used for excavation and 5.08 ha for safety zone against Wells (2 no.). The site elevation is 250m – 235m AMSL. The Ground water depth is 8m bgl in pre-monsoon season and 5m bgl in post-monsoon season. The total water requirement is 4.0 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply. No ground water interception during the mining operations is envisaged.

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

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that no. of trucks will be deployed 200 per day (20 tonnes capacity each) which increase 250 PCUs per day and the level of service (LOS) remains as "A". Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). State Government vide letter dated 27.02.2015 has confirmed that the instant mine lease area does not fall in the Aravali Hill Range. 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 Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearing for the project was conducted on 03.03.2015 at 10.00 AM at Tehsil Office, Tehsil–Chauth Ka Barwara, District – Sawaimadhopur, Rajasthan. The Public Hearing was presided over by Shri O. P. Gupta, Additional District Magistrate, Sawai Madhopur. The representatives from the Rajasthan State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, mining by manual method, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that PP needs to implement the Action Plan and the Implementation Report has to be submit to the Regional Office of the MoEFCC every six month.

The cost of the Project is Rs. 5.53 Crores. The Proponent has earmarked Rs. 1.68 Lakhs towards Environmental Protection Measures towards recurring expenses. Proponent informed that Rs. 11.20 lakhs per annum as capital and 1.12 lakhs per annum as recurring cost have been earmarked towards CSR activities for next five years of mining operation. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~ 66,091 Tons of Bajri has been made during December 2013 to March 2014 and ~ 2,94,613 Tons 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 **1.12 Million TPA (ROM)**.

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

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

(2.29).River Bed Mining (Bajri) with production capacity of 3.39 million TPA (ROM) by M/s Shri Mahendra Singh Rajawat, located at Revenue villages of Tehsil-Kotri, District: Bhilwara Rajasthan) (MLA 1191.37ha) (Consultant: J.M. EnviroNet Pvt. Ltd.)-Consideration of EC

The Proposal of Shri Mahendra Singh Rajawat is for mining of River Sand (Minor Mineral) with proposed production capacity of 3.39 Million TPA (ROM). The mine lease area is located at village (s)- Akola, Chawandiya, Kanwaliyawas, Somshyant, Satola, Satola Ka Khera, Lasariya, Ban ka Khera, Sawaipur, Salariya, Redwas, Gathhera, Nohra, Kaliradiya, Baliya Khera, Parolee, Deoli, Borkhera, Mataji ka Khera, Dantra, Gapesra, Nandrai, Gendliya, Solankiyon ka Khera, Peechas, Ren, Amartiya, Adsipura, Bhakliya, Gega ka khera, Sripura, Tehsil-Kotri; District: Bhilwara, Rajasthan in the area of 1191.37 ha. The mine lease area lies on the Banas & Kothari River bed and Nallah. The Latitudes and Longitudes of the mine lease area lies between 25°14'30" N to 25°30'30"N and 74°45'00" E to 75°04'00"E on Survey of India toposheet numbers 45 K/14, 45K/15, 45K/16, 45O/2, 45O/3 and 45O/4. The Project is located in Seismic zone-II.

The proposal for TOR was considered by the Expert Appraisal Committee in its 13th Meeting held during 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-11015/414/2013-IA-II (M) dated 9th December, 2013. The EIA/EMP Report was submitted to the Ministry by online for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 1191.37 ha which is as per khasra numbers issued by DMG, Rajasthan in Banas & Kothari River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral River Sand over an area of 1191.37 ha has been granted by the Govt. of Rajasthan, vide letter No P.10 (7) Khan/ Group-2/2013, Jaipur dated 26.02.2013. The Mining Plan along with Progressive Mining Closure Plan was approved by SME Bhilwaraa Circle Bhilwara vide letter no. SME/Bhilwara-circle/CC.2/Bajri/Bhilwara/2012 Dated 05.12.2013.

Mining will be by Opencast Manual cum Semi-Mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and not less than one meter above the water level of the River Channel whichever is

reached earlier. Mining will be done leaving a safety distance from the banks. No mining will be done in the zone of 45 m on either side of the structure/bridge. There will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure. The total water requirement is 90 KLD including water demand for domestic purpose, dust suppression and plantation development which will be met by purchasing from local villagers. No ground water interception during the mining operations is envisaged.

Project Proponent reported that there is no National Park, Biosphere Reserve, Tiger Reserve, Wildlife Corridor etc. fall within the study area (10 km radius of the mine boundary). There are Thirteen Protected Forest and Four Reserved Forest. State Government of Rajasthan, vide letter no. ME/Bhilwara/C.C.4/Kha.P. 118/2012/94, dated 06.02.2015 has confirmed that the lease area does not fall in Aravali range. The baseline data was generated for the period during December 2013 to February 2014. The analytical results of samples of air and water collected were within permissible limits. The Committee deliberated the baseline data collected.

Public Hearing for project was held on 12.12.2014 at 11:00 AM at Tehsil office Kotri, District Bhilwara, Rajasthan. Public Hearing was presided by Shri Suresh Kumar, Additional District Collector, District Bhilwara, Rajasthan. The representative from the Rajasthan State Pollution Control Board was also present. The issues raised during the Public Hearing were about social and other village development activities, employment & construction of open well for drinking water facilities. Action plan with budgetary allocation has been given against Points raised in Public hearing.

The Capital cost of the Project is Rs 2.0 Crores. An amount of Rs. 8 Lakhs has been earmarked towards Environmental Protection Measures and Rs. 5.0 Lakhs per annum towards recurring expenses. Rs. 20.0 Lakhs have been earmarked towards CSR activities for next five years of mining operation. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013 (In Civil Appeal No. 9703-9704 of 2013) production of ~ 217151 Tonnes of Bajri has been made during December 2013 to March 2014 and 840117 tonnes 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 **3.39 Million TPA (ROM)**.

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

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

(2.30) Bajri (Minor Mineral) Mine with production capacity of 24.0 Lakh TPA (ROM) by M/s Sarv Shri Kuber Associates, located at Revenue village(s) of Tehsil Bhopalgarh, District Jodhpur, Rajasthan (2130ha) (Consultant: Udaipur Mintech Pvt. Ltd.)-Consideration of EC

The Proposal of M/s Sarv Shri Kuber Associates is for Mining of Bajri with proposed capacity of 24.0 Lakhs TPA (ROM) on River Guni Mata, Sukli, Bonai and Jojri River and its connected flow nullahs. The mine is located near Melawas, Kwaspura, Artiakalan, Rajlani, Artia Khurd, Rudian, Hiradesar, Lunawas, Ratkudia, Chokdikalan, Lavera Khurd, Khangta, Lavera Kalan, Sevki Kalan, Ghodawat, Sathin Chak-II, Sanwat Kuan Kalan, Sanwat Kuan Khurd Chak-I, Siyare, Sunwat Kuan Chak-III, Chodi Khurd, Madpuria, Birai, Basabi Sendwa, Basni Budha, Basni Panta, Basni Cholawata, Palri Sidha, Basni Cheda, Nandia Prabhawati, Birani, Bahtkosia, Bagoria, Bawari Chak-I, Bawari Chak-II, Burcha, Bhopalgarh MB, Bucheti, Budkia, Jhalamatia, Bhopalgarh JB, Jointra, Mangeria, Chapla, Merasian, Melana, Dhadhesari, mindoli, Todiya, Tambiyada Khurd, Kudi, Netda, Bandru, Kainau, Dhuru, Kharia Khangar, Kasti, Devnagar, Kosana, Dewatara, Kalwas, Ustara, Gangani, Nadsar Tehsil-Bhopalgarh, District-Jodhpur, Rajasthan. The mine lease area falls on survey of India Topo sheet no 45 F/3 & 45 F/6 and **Block 126°08'44" to 26°25'28" N & 72°57'32' to 73°05'35' E, Block 226°34'38" to 26°41'18" N & 73°09'02' to 73°21'36' E, Block 326°30'00" to 26°35'36" N & 73°21'52' to 73°28'43' E, Block 426°38'20" to 26°43'29" N & 73°11'00" to 73°15'48" E.** The project is located in Seismic Zone II.

The Proposal was considered by the Expert Appraisal Committee in its meeting held during 12th Nov, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by MoEFCC vide letter no.J-11015/317/2013-IA.II (M), dated 9th December, 2013. EIA/EMP Report has been submitted online to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

The total lease area of the Project is 2130 ha. Mining Plan was approved by SME, Department of Mine & Geology, Jodhpur Circle, Rajasthan vide letter no. SME/JO/CC/Jodh/Minor/Bajri/M.L No-31/2012/16358 dated 13.12.2013. No Forest land is involved within the ML Areas. The operation will be opencast semi-mechanized with use of hand tools like shovel, pan, sieves, etc. The minerals will be collected in its existing form. Excavation will be carried out only up to a depth of 3m bgl. Extraction of sand material will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 23 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat.

Project Proponent reported that workers will be provided dust mask, safety boot, helmet and other safety equipment. A well-equipped first aid station will be maintained at mine site. Medical check-up of the workers will be done. Mineral will be transported through road. Traffic Analysis survey has been conducted and as per survey no. of dumpers will be 814 per day. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National Parks/Wildlife Sanctuaries/Biosphere Reserves/Wildlife Corridors/Tiger/Elephant Reserve are located within the 10 km study area of the mine lease. State Government vide letter dated 13.01.2015 has confirmed that the instant mine lease area of 2130 ha does not fall in the Aravali Hill Range. No Schedule-I species found in the core and buffer zone. The baseline data was generated for the period during December 2013 to February 2014. All the parameters for water and air quality were within permissible limits. There is no R&R plan applicable for this project at this time. However, Private land will be required and suitable compensation will be given as per Govt. norms.

The Public Hearing was conducted on 14.11.2014 at Samudayik Bhawan Gram Panchayat Bucheti, Tehsil-Bhopalgarh, District Jodhpur, Rajasthan. The Public Hearing was presided over by Shri M.L. Nehra, ADC Jodhpur. The representatives from the 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.

The cost of the Project is Rs. 2.0 Crores. Capital Cost of the EMP is Rs. 13.00 Lakhs and recurring expenditure during the stage of production is Rs. 3.60 Lakh per annum. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of 5,39,002 MT of Bajri has been made till date.

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

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri with proposed production capacity of **24 Lakhs TPA (ROM) subject to submission of amended mine plan for semi-mechanized method.**

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

(2.31). Silica Sand Mine Project of Shri Ashok Kumar Jain located at village Kharwar, Tehsil-Pahari, District-Bharatpur, Rajasthan (MLA 20.0 ha)

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

Consideration of TOR Proposals

(2.32). Building Stone Quarry with proposed production capacity of 50,000 TPA (ROM) by M/s Wimrock Granite Pvt. Ltd., located at Plot/Survey/Khasra No. 397/1 & 397/10, Vadasserikkara Village, Ranni Taluk, Pathanamthitta District, Kerala (MLA 0.8915 ha)–(Consultant: Metamorphosis Project Consultants Ltd.) – TOR

The Proposal of M/s Wimrock Granite Pvt. Ltd. is for Mining of Building Stone Quarry with proposed production capacity of 50,000 TPA (ROM). The mine is located at Plot/Survey/Khasra No. 397/1 & 397/10, Vadasserikkara Village, Ranni Taluk, Pathanamthitta District, Kerala. It is a Category 'A' project as the mine lease area falls in ESA. The Geographical co-ordinates for the mine site are Latitudes: 9⁰ 18' 51.01" to 9⁰ 18' 57.72" North & Longitudes-76⁰50' 23.07" to 76⁰ 50' 29.99" East on the survey of India Toposheet No.58/C/15.

Total mine lease area is 0.8915ha. Department of Mines and Geology, Government of Kerala, vide letter dated 12.02.2015, has approved Mining Plan. Government of Kerala has granted mine lease. Method of mining is opencast semi mechanized. Project cost is Rs. 6 Crores. PP reported there is no court case pending against the project. Total water requirement for the Project is 6 KLD.

The Committee noted that **this is old mine and falls in ESA and suggested that first RE Division of the Ministry may be consulted whether such project may be considered for grant of EC or not as per the Directions issued dated 13.11.2013 by the Ministry under Section 5 of the E(P)Act, 1986 and deferred the recommendations of the project.**

(2.33). Building Stone Quarry with proposed production capacity of 50,000 TPA (ROM) by M/s Wimrock Granite Pvt. Ltd., located at Plot/Survey/ Khasra No. 396/4 Vadasserikkara Village, Ranni Taluk, Pathanamthitta District, Kerala (MLA 0.8980ha) – (Consultant : Metamorphosis Project Consultants Ltd.) – TOR

The Proposal of M/s Wimrock Granite Pvt. Ltd. is for Mining of Building Stone Quarry with proposed production capacity of 50,000 TPA (ROM). The mine is located at Plot/Survey/Khasra No. 396/4, Vadasserikkara Village, Ranni Taluk, Pathanamthitta District, Kerala. It is a Category 'A' project as the mine lease area falls in ESA. The Geographical co-ordinates for the mine site are Latitudes- : 9⁰ 19' 03.29" to 9⁰ 19'

5.77" North & Longitudes-76°50' 18.09" to 76° 50' 23.08" East on the survey of India Toposheet No.58/C/15.

Total mine lease area is 0.8980ha. Department of Mines and Geology, Government of Kerala, vide letter dated 17.08.2015, has approved Mining Plan. Government of Kerala has granted mine lease on 14.07.2008 which is valid upto 23.07.2017. Method of mining is opencast semi mechanized. Project cost is Rs. 6 Crores. PP reported there is no court case pending against the project. Total water requirement for the Project is 6 KLD.

The Committee noted that **this is old mine and falls in ESA and suggested that first RE Division of the Ministry may be consulted whether such project may be considered for grant of EC or not as per the Directions issued dated 13.11.2013 by the Ministry under Section 5 of E (P) Act, 1986 and deferred the recommendations of the project.**

(2.34). Building Stone Quarry with proposed production capacity 3 lakhs TPA (ROM) by M/s Wimrock Granite Pvt. Ltd., located at Plot/Survey/ Khasra No. 702 / 1 (p), 702 / 1 – 412 and 702 /1–413 (new Sy. Nos. are 391 (p), 394 (p) and 395(p)), Vadasserikkara Village, Ranni Taluk, Pathanamthitta District, Kerala (MLA: 3.4080ha) – (Consultant : Metamorphosis Project Consultants Ltd.) – TOR

The Proposal of M/s Wimrock Granite Pvt. Ltd. is for Mining of Building Stone Quarry with proposed production capacity of 3 Lakhs TPA (ROM). The mine is located at Plot/Survey/Khasra No. 702 / 1 (p), 702 / 1 – 412 and 702 /1–413 (new Sy. Nos. are 391 (p), 394 (p) and 395(p)), Vadasserikkara Village, Ranni Taluk, Pathanamthitta District, Kerala. It is a Category 'A' project as the mine lease area falls in ESA. The Geographical co-ordinates for the mine site are Latitudes- : 9° 18' 55.01" to 9° 18' 57.72" North & Longitudes-76°50' 23.07" to 76° 50' 29.99" East on the survey of India Toposheet No.58/C/15.

Total mine lease area is 3.4080ha. Department of Mines and Geology, Government of Kerala, vide letter dated 12.02.2015, has approved Mining Plan. Government of Kerala has granted mine lease on 10.03.1999. Method of mining is opencast semi mechanized. Project cost is Rs. 12 Crores. PP reported there is no court case pending against the project. Total water requirement for the Project is 12 KLD.

The Committee noted that **this is old mine and falls in ESA and suggested that first RE Division of the Ministry may be consulted whether such project may be considered for grant of EC or not as per the Directions issued dated 13.11.2013 by the Ministry under Section 5 of the E(P)Act, 1986 and deferred the recommendations of the project.**

(2.35). River Sand Mining Project of M/s. Mohmmad Abid located at near villages - Kaila Devi, Tehsil & District-Karauli, Rajasthan-TOR

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

(2.36).Mining of Sand (Minor Mineral)in Mine "Mandoli Ghaggar West Block/YNR B3" with proposed production capacity of 8.5 Lakh TPA (ROM) by M/s JSM Foods Pvt. Ltd., located near village Mandoli, Tehsil-Yamunanagar, District-Yamunanagar, Haryana (MLA- 20.18ha) (Consultant ENVIRTA Sustainable Solutions)-TOR

The Proposal of M/s JSM Foods Pvt. Ltd. is for Mining of Sand (Minor Mineral) in Mine "Mandoli Ghaggar West Block/YNR B3" with proposed production capacity of 8.5 Lakh TPA (ROM). The mine is located at village-Mandoli, Tehsil-Yamunanagar, District Yamunanagar,Haryana. It is a Category 'A' project as the mine lease area is located 500 meter to the interstate boundary of Haryana and Uttar Pradesh. The Geographical Co- ordinates for the mine site are Latitude- : 30⁰ 08' 10" to 30⁰ 08' 28" North & Longitude-77⁰ 27' 41" to 77⁰ 25' 01" East. The mine site falls on Survey of India Toposheet no.- 53F8. The khasra Number of the lease area is 54/13,57/13.

The total lease area is 20.18 ha. The State Government has issued the Letter of Intent on 19.06.2015. The Project Proponent reported that no National Park, Wildlife Sanctuary and other eco-sensitive area are located at a distance of 10 Km from the mine blocks. There is no Forest land within the ML Areas. The operation will be opencast semi mechanized method. The minerals will be collected in its existing form. Excavation will be carried out only up to a depth of 3m bgl. Extraction of sand material will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 15.82 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 1.2 Crores. The cost for Environmental Protection Measures is 6 Lacs.

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

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the **Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) Replenishment and drainage study from a reputed Institution; (ii) Impact of mining activity on adjacent

agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography; (iii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iv) Impact of all existing mining on the present land use in the study area; and (v) Details of excavation schedule & sequential mining plan.

(2.37). Mining of Sand (Minor Mineral) in Mine "Mandoli Ghaggar West Block/YNR B4" with proposed production capacity of 11.91 Lakhs TPA (ROM) by M/s JSM Foods Pvt. Ltd., located at Village Mandoli, Tehsil Yamunanagar, District-Yamunanagar, Haryana (25.56ha) (Consultant ENVIRTA Sustainable Solutions)-TOR

The Proposal of M/s JSM Foods Pvt. Ltd. is for Mining of Sand (Minor Mineral) in Mine "Mandoli Ghaggar West Block/YNR B4" with proposed production capacity of 11.91 Lakhs TPA (ROM). The mine is located at "Mandoli Ghaggar West Block/YNR B 4", Village- Mandoli, Tehsil- Yamunanagar, District Yamunanagar, Haryana. It is a Category 'A' project as the mine lease area is located along with interstate boundary of Haryana and Uttar Pradesh. The Geographical coordinates for the mine site are Latitudes- : 30° 08' 12" to 30° 08' 28" North & Longitudes-77° 25' 01" to 77° 25' 21" East. The mine site falls on Survey of India Toposheet no.-53 F/7, 53 F/8, 53 F/11 and 53 F/12. The khasra Number of the lease area is 52/13, 53/13, 59/13, 58/13. The mining lease block is a part of Yamuna River.

The total lease area is 25.56 ha. The State Government has issued LoI on 19.06.2015. The Project Proponent reported that no National Park, Wildlife Sanctuary and other eco-sensitive area are located at a distance of 10 Km from the mine blocks. There is no Forest land within the ML Areas. The operation will be opencast semi mechanized method. The minerals will be collected in its existing form. Excavation will be carried out only up to a depth of 3m bgl. Extraction of sand material will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 18.77 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 1.5 Crores. The cost for Environmental Protection Measures is 7.50 Lakhs.

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

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the **Standard TOR** for

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

(2.38). Ordinary Sand Mining Project of M/S Hitendrasinh Chotubha Jhala, located at village - Ratanpar Tahsil-Umarala, District-Bhavnagar, State - Gujarat (7.12.40 ha)-TOR

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

(2.39). Mining of "Sand" (Minor Mineral) in the mine of "Lapra Block/YNR B-10" with production capacity of 15,30,000 TPA (ROM) by M/s Ganga Yamuna Mining Company, located at Lapra Block/YNR B-10, Tehsil-Jagadhari, District-Yamuna Nagar, Haryana (34.28ha)-(Consultant: Vardan Environet) – TOR

The proposal of M/s Ganga Yamuna Mining Company is for Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Lapra Block/YNR B-10" with production capacity of 15, 30,000 TPA (ROM) in mine lease area of 34.28 ha. The mine lease area is located at Tehsil- Jagadhari, District- Yamuna Nagar, Haryana. The lease area lies in the River Bed of Yamuna. The Latitudes and Longitudes of mine lease area are 30°05'28.00", 30°05'18.00", 30°05'12.00" & 30°05'12.00" N and 77°22'02.00", 77°22'30.00", 77°22'22.00" & 77°21'53.00" respectively on toposheet (OSM) number H43L8, H43R5. The Project is located in seismic zone-IV. It is Category 'A' project as the site is located at 0.1 Km distance in South-east direction from Haryana and Uttar Pradesh inter-state boundary.

The proposed project is an open-cast mining project, confined to excavation of Sand Mine from the proposed site. The mining operation will be done by semi-mechanized method. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to M/s Ganga Yamuna Mining Company by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DMG/HY/cont/Lapra Block/YNR B-10/2015/7082 dated 20/07/2015. Letter of intent for mine lease area is 07 years.

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). The total water requirement is 30 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by

tanker supply. The total cost of project would be around Rs. 15.50 Crores.

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

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

(2.40). Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Nandgarh Block/YNR B-36" with production capacity of 5,77,000 TPA (ROM) by M/s Apar Mines Management Services Private Limited, located at Nandgarh Block/YNR B-36, Tehsil-Chhachhrauli, District-Yamuna Nagar, Haryana (29.60ha)- (Consultant : Vardan Environet) – TOR

The proposal of M/s Apar Mines Management Services Private Limited is for Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Nandgarh Block/YNR B-36" with production capacity of 5,77,000 TPA (ROM) in mine lease area of 29.60 Ha. The mine lease area is located at Tehsil-Chhachhrauli, District- Yamuna Nagar, Haryana. The lease area lies outside the River Bed of Yamuna. The Latitudes and Longitudes of mine lease area are 30°12'59.0", 30°12'47.0", 30°12'29.0" and 30°12'45.0" N & 77°25'16.0", 77°25'28.0", 77°25'08.50" and 77°24'59.0" E respectively on toposheet (OSM) number H43L8, H43L7, H43L11, H43L12. The Project is located in Seismic zone-IV. It is Category 'A' project as the site is located at 4.8 Km distance in East direction from Haryana and Uttar Pradesh inter-state boundary.

The proposed project is an open-cast mining project, confined to excavation of Boulder, Gravel and Sand Mine from the proposed site. The mining operation will be done by mechanized method. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DMG/HY/cont/Nandgarh Block/YNR B-36/2015/7088 dated

20/07/2015. Letter of intent for mine lease area is 08 years.

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). The total water requirement is 27 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 11.00 Crores.

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

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

(2.41). Chirkunda Balu Ghat over Barakar river of M/s Shri Jagdish Tiwary located at Village- Chirkunda; District- Dhanbad, Tehsil - Nirsa-Cum-Chirkunda, Jharkhand-TOR

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

(2.42). Dumarkunda Balu Ghat Over Barakar River of M/s Hamesh Kumar Agrawal located at Village – Dumarkumda District- Dhanbad Tehsil- Nirsa-Cum-Chirkunda, State - Jharkhand(10.534 ha)-TOR

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

(2.43).Expansion of Mordhar Bauxite Mine to 34,350 TPA (ROM) of Bauxite by M/s Orient Abrasives Ltd., located at village-Mewasa, Kalyanpur Tehsil, Devbhumi Dwarka District, Gujarat (8.44ha) (Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

The Proposal of M/s Orient Abrasives Ltd. is for expansion of production

capacity to 34,350 TPA (ROM) of Mordhar Bauxite mine with the total mining area of 8.44ha falling in 2 blocks of survey no.330/p, located at village-Mewasa, Taluka-Kalyanpur, District-Devbhoomi Dwarka, Gujarat. Latitudes and Longitudes of the Mordhar cluster are 22°12'47.9"N to 22°13'1.2"N and 69°18'27.9"E to 69°18'42.9"E. The mining lease lies at a distance of 5.0 km from Marine Sanctuary and Gaga Bird Sanctuary is at 15.4 km from lease. Eco sensitive Zone of Marine Sanctuary and Marine National Park is demarcated as 1 km and lease is located outside the ESZ of MS/MNP and more than 10 km away from Gaga Bird Sanctuary. It is a category 'A' Project as the MLA is located within 5km of ESZ.

Method of mining is open cast semi mechanized. Project Proponent has applied for renewal to the State Government on 30.04.1998 and 05.06.2000. Lease renewal is valid under deemed extension as per rule 24(A)(6) of MCR-1960. As per new Mining Ordinance 2015, these mining leases are renewed up to 2030. Man power requirement is 79. Total water requirement for drinking domestic and dust suppression is 51.73 KLD. Total cost of the project is 58.43 lakhs. It was reported by Project Proponent that there is no Court case/ litigation pending against the Project.

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

Name of Cluster	Name of Lease	Lease Area (ha)	Total MLA after amalgamation (ha)	Distance from Eco Sensitive Areas		Area of Adjacent Mine Leases with in 500 m radius	
				Distance from ESZ	Distance from Marine Sanctuary	OAL (ha)	Other (ha)
Mordhar Bauxite Mine	MORDHA R-I	6.37	8.44	4.0	5.0	2.07	-
	MORDHA R-II	2.07		4.2	5.2	6.37	-

The Committee deliberated and is of the view that since amalgamation of the leases is under process with the State Government and it is appropriate to issue one TOR for systematic scientific mining.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the **Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) Mitigation measures to protect the Environment, Ground water preservation measure, Rain water Harvesting and Implementation and Transportation loads on the Public Road; (ii) Project Proponent to award work to Neutral Institute/Government Agencies for monitoring and implementation of the Reclamation and Rehabilitation Measure of Mines under the Cluster approach; (iii) 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; (iv) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (v) Impact of all existing mining on the present land use in the study area; and (vi) Details of excavation schedule & sequential mining plan.

(2.44).Expansion of Orient Bauxite Mine to 54,913 TPA (ROM) of Bauxite by M/s Orient Abrasives Ltd., located at village-Mewasa & Virpur, Kalyanpur Tehsil, Devbhumi Dwarka District, Gujarat (20.07ha)(Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

The Proposal of M/s Orient Abrasives Ltd. is for expansion of production capacity to 54,913 TPA (ROM) of orient Bauxite mine with the total mining area of 20.06 ha falling in 3 blocks of survey no.215/p, 330/p, located at village-Mewasa & Virpur, Taluka-Kalyanpur, District-Devbhoomi Dwarka, Gujarat. Latitude and Longitude of the Orient cluster are 22°14'25.14"N to 22°14'54.01"N and 69°19'29.40"E to 69°20'11.53"E. The mining lease lies at a distance of 4.07 km from Marine Sanctuary. Eco sensitive Zone of Marine Sanctuary and Marine National Park is demarcated as 1 km and lease is located outside the ESZ of MS/MNP and more than 10 km away from Gaga Bird Sanctuary. It is a category 'A' Project as the MLA is located within 5km of ESZ.

Method of mining is open cast semi mechanized. Project Proponent has applied for renewal to the State Government on 05.06.2000 and on 30.04.1998. Lease renewal is valid under deemed extension as per rule 24(A)(6) of MCR-1960. As per new Mining Ordinance 2015, these mining leases are renewed up to 2030. Total working days are 300 and man power requirement is 97. Total water requirement for drinking domestic and dust suppression is 32.574 KLD. Total cost of the project is 66.23 lakhs. It was reported by Project Proponent that there is no Court case/litigation pending against the Project.

Project Proponent presented that the importance of cluster approach for their all 3 small mining projects were based on Techno-Economic conditions and considering Mining in Systematic and Scientific manner, amalgamation proposal

consideration with State Government, New Mining Ordinance stating lease validity period up to 2030 for captive use industry and considering the amendments in EIA Notification, 2006 on 7th October, 2014, for group of leases fall within the radius of 500m. The details of lease area are as follows:-

Name of Cluster	Name of Lease	Lease Area (Ha)	Total MLA after amalgamation (ha)	Distance from Eco Sensitive Areas		Area of Adjacent Mine Leases with in 500 m radius	
				Distance from ESZ	Distance from Marine Sanctuary	OAL (Ha)	Other (Ha)
Orient Bauxite Mine	VIRPUR-I	1.01	20.07	3.07	4.07	19.06	101.7394
	OBM-I	11.68		4.6	5.6	8.39	101.7394
	OBM-IV	7.38		3.8	4.8	12.69	101.7394

The Committee deliberated and is of the view that since amalgamation of the leases is under process with the State Government and it is appropriate to issue one TOR for systematic scientific mining.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the **Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) Mitigation measures to protect the Environment, Ground water preservation measure, Rain water Harvesting and Implementation and Transportation loads on the Public Road; (ii) Project Proponent to award work to Neutral Institute/Government Agencies for monitoring and implementation of the Reclamation and Rehabilitation Measure of Mines under the Cluster approach; (iii) 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; (iv) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (v) Impact of all existing mining on the present land use in the study area; and (vi) Details of excavation schedule & sequential mining plan.

(2.45). Enhancement of OBM-I Bauxite Mining Project with Production capacity to 26258 TPA (ROM) of Bauxite by M/s. Orient Abrasives Ltd., located at village Mewasa, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (11.68ha) (Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

This proposal of TOR is clubbed with Agenda item Nos. 2.45, 2.50, and 2.44.

(2.46). Enhancement of Mordhar-II Bauxite Mining Project with Production capacity to 9000TPA (ROM) of Bauxite by M/s. Orient Abrasives Ltd., located at village Mewasa, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (2.07 ha) (Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

This proposal of TOR is clubbed with Agenda item Nos. 2.43 and 2.46.

(2.47). Expansion of Virpur Bauxite Mine to 33,963 TPA (ROM) of Bauxite by M/s Orient Abrasives Ltd., located at village-Virpur Kalyanpur Tehsil, Devbhumi Dwarka District, Gujarat (6.34 ha) (Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

The Proposal of M/s Orient Abrasives Ltd. is for expansion of production capacity to 33,963 TPA (ROM) of orient Bauxite mine with the total mining area of 6.34 ha falling in 3 blocks of survey no.36, 43, & 135, located at village-Virpur

Taluka-Kalyanpur, District-Devbhoomi Dwarka, Gujarat. Latitudes and Longitudes of the Virpur are 22°15'13.4"N to 22°15'28.6"N and 69°19'39.3"E to 69°19'57.8"E. The mining lease lies at a distance of 4.6 km from Marine Sanctuary and Gaga Bird Sanctuary is at 19 km from lease. Eco sensitive Zone of Marine Sanctuary and Marine National Park is demarcated as 1 km and lease is located outside the ESZ of MS/MNP and more than 10 km away from Gaga Bird Sanctuary. It is a category 'A' Project as the MLA is located within 5km of ESZ.

Method of mining is open cast semi mechanized. Project Proponent has applied for renewal to the State Government on 14.01.1999, 19.01.1999 and 19.01.1999 respectively. Lease renewal is valid under deemed extension as per rule 24(A)(6) of MCR-1960. As per new Mining Ordinance 2015, these mining leases are renewed up to 2030. Total working days are 300 and man power requirement is 81. Total water requirement for drinking domestic and dust suppression is 28.905 KLD. Total cost of the project is 61.00 lakhs. It was reported by Project Proponent that there is no Court case/ litigation pending against the Project.

Project Proponent presented that the importance of cluster approach for their all 3 small mining projects were based on Techno-Economic conditions and considering Mining in Systematic and Scientific manner, amalgamation proposal consideration with State Government, New Mining Ordinance stating lease validity period up to 2030 for captive use industry and considering the amendments in EIA Notification, 2006 on 7th October, 2014, for group of leases fall within the radius of 500m. The details of lease area are as follows:-

Name of Cluster	Name of Lease	Lease Area (Ha)	Total MLA after amalgamation (ha)	Distance from Eco Sensitive Areas		Area of Adjacent Mine Leases with in 500 m radius	
				Distance from ESZ	Distance from Marine Sanctuary	OAL (Ha)	Other (Ha)
Virpur Bauxite Mine	VIRPUR -IV	4.29	6.34	3.6	4.6	2.05	101.22
	VIRPUR -V	1.15		3.26	4.26	5.19	101.22
	VIRPUR -VI	0.9		3.18	4.18	5.44	101.22

The Committee deliberated and is of the view that since amalgamation of the leases is under process with the State Government and it is appropriate to issue one TOR for systematic scientific mining.

Based on the information furnished and presentation made by the Project

Proponent and discussions held, the Committee **prescribed** the **Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) Mitigation measures to protect the Environment, Ground water preservation measure, Rain water Harvesting and Implementation and Transportation loads on the Public Road; (ii) Project Proponent to award work to Neutral Institute/Government Agencies for monitoring and implementation of the Reclamation and Rehabilitation Measure of Mines under the Cluster approach; (iii) 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; (iv) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (v) Impact of all existing mining on the present land use in the study area; and (vi) Details of excavation schedule & sequential mining plan.

(2.48). Enhancement of Virpur-V Bauxite Mining Project with Production capacity to 11625TPA (ROM) of Bauxite by M/s. Orient Abrasives Ltd., located at village Virpur, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (1.15 ha)(Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

This proposal of TOR is clubbed with Agenda item Nos.2.61, 2.48, and 2.47.

(2.49). Expansion of Suradhar Bauxite Mine to 69,226 TPA (ROM) of Bauxite by M/s Orient Abrasives Ltd., located at village-Mewasa Kalyanpur Tehsil, Devbhumi Dwarka District, Gujarat (9.85 ha) (Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

The Proposal of M/s Orient Abrasives Ltd. is for expansion of production capacity to 69,226 TPA (ROM) of orient Bauxite mine with the total mining area of 9.85 ha falling in 3 blocks of survey no.193,194,195 & 379/191/190, located at village-Mewasa Taluka-Kalyanpur, District-Devbhoomi Dwarka, Gujarat. Latitudes and Longitudes of the MLA are 22°12'53.4"N to 22°12'58.1"N and 69°18'41"E to 69°18'40.4"E. The mining lease lies at a distance of 7.1 km from Marine Sanctuary and Gaga Bird Sanctuary is at 18.8 km from lease. Eco sensitive Zone of Marine Sanctuary and Marine National Park is demarcated as 1 km and lease is located outside the ESZ of MS/MNP and more than 10 km away from Gaga Bird Sanctuary. It is a category 'A' Project as the MLA is located within 5km of ESZ.

Method of mining is open cast semi mechanized. Project Proponent has applied for renewal to the State Government on 16.01.1996, 10.01.1999 and on 13.10.2003 respectively. Lease renewal is valid under deemed extension as per rule 24(A)(6) of MCR-1960. As per new Mining Ordinance 2015, these mining leases are renewed up to 2030. Total working days are 300 and man power requirement is 63. Total water requirement for drinking domestic and dust suppression is 40.19 KLD.Total cost of the project is 61.00 lakhs. It was reported by Project Proponent that there is no

Court case/ litigation pending against the Project.

Project Proponent presented that the importance of cluster approach for their all 3 small mining projects were based on Techno-Economic conditions and considering Mining in Systematic and Scientific manner, amalgamation proposal consideration with State Government, New Mining Ordinance stating lease validity period up to 2030 for captive use industry and considering the amendments in EIA Notification, 2006 on 7th October, 2014, for group of leases fall within the radius of 500m. The details of lease area are as follows:-

Name of Cluster	Name of Lease	Lease Area (Ha)	Total MLA after amalgamation (ha)	Distance from Eco Sensitive Areas		Area of Adjacent Mine Leases with in 500 m radius	
				Distance from ESZ	Distance from Marine Sanctuary	OAL (Ha)	Other (Ha)
Suradhar Bauxite Mine	OBM-II	8.91	9.85	6.1	7.1	0.95	139.992
	SURADHAR -I	0.46		6.2	7.2	9.4	139.992
	SURADHAR -II	0.49		6.29	7.29	9.37	139.992

The Committee deliberated and is of the view that since amalgamation of the leases is under process with the State Government and it is appropriate to issue one TOR for systematic scientific mining.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the **Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) Mitigation measures to protect the Environment, Ground water preservation measure, Rain water Harvesting and Implementation and Transportation loads on the Public Road; (ii) Project Proponent to award work to Neutral Institute/Government Agencies for monitoring and implementation of the Reclamation and Rehabilitation Measure of Mines under the Cluster approach; (iii) 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; (iv) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (v) Impact of all existing mining on the present land use in the study area; and (vi) Details of excavation schedule & sequential mining plan.

(2.50) Enhancement of OBM-IV Bauxite Mining Project with Production capacity to 25730TPA (ROM) of Bauxite by M/s. Orient Abrasives Ltd., located at village Mewasa, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (7.37 ha)

This proposal of TOR is clubbed with Agenda item Nos.2.45, 2.50, and 2.44.

(2.51). Enhancement of Suradhar-II Bauxite Mining Project with Production capacity to 2748TPA (ROM) of Bauxite by M/s. Orient Abrasives Ltd., located at village Mewasa, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (0.49 ha)

This proposal of TOR is clubbed with Agenda item Nos.2.52, 2.51, and 2.49.

(2.52).Enhancement of Suradhar-I Bauxite Mining Project with Production capacity to 3390TPA (ROM) of Bauxite by M/s. Orient Abrasives Ltd., located at village Mewasa, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (0.46 ha)

This proposal of TOR is clubbed with Agenda item Nos.2.52, 2.51, and 2.49.

(2.53). Expansion of Karamkund Bauxite Mine to 22,790 TPA (ROM) of Bauxite by M/s Orient Abrasives Ltd., located at village-Mewasa, Kalyanpur Tehsil, Devbhumi Dwarka District, Gujarat (16.06ha) (Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

The Proposal of M/s Orient Abrasives Ltd. is for expansion of production capacity to 22,790 TPA (ROM) of Karamkund Bauxite mine with the total mining area of 16.06 ha falling in 4 blocks of survey no.212/P,210/P, 146/P, 377 & 207/1/P, located at village-Mewasa, Taluka-Kalyanpur, District-Devbhoomi Dwarka, Gujarat. Latitudes and Longitudes of the Karamkund mine are 22°13'41.7"N to 22°14'14.9"N and 69°19'52.40"E to 69°20'18.9"E. The mining lease lies at a distance of 5.19 km from Marine Sanctuary and Gaga Bird Sanctuary is at 18.3 km from lease. Eco sensitive Zone of Marine Sanctuary and Marine National Park is demarcated as 1 km and lease is located outside the ESZ of MS/MNP and more than 10 km away from Gaga Bird Sanctuary. It is a category 'A' Project as the MLA is located within 5km of ESZ.

Method of mining is open cast semi mechanized. Project Proponent has applied for renewal to the State Government on 10.01.2003, 15.05.2009, 05.06.2000 and on 30.04.1998 respectively. Lease renewal is valid under deemed extension as per rule 24(A)(6) of MCR-1960. As per new Mining Ordinance 2015, these mining leases are renewed up to 2030. Total working days are 300 and man power requirement is 72. Total water requirement for drinking domestic and dust suppression is 68.235 KLD. Total cost of the project is 57.55 lakhs. It was reported by Project Proponent that there is no Court case/ litigation pending against the Project.

Project Proponent presented that the importance of cluster approach for their all 4 small mining projects were based on Techno-Economic conditions and considering Mining in Systematic and Scientific manner, amalgamation proposal consideration with State Government, New Mining Ordinance stating lease validity period up to 2030 for captive use industry and considering the amendments in EIA Notification, 2006 on 7th October, 2014, for group of leases fall within the radius of 500m. The details of lease area are as follows:-

Name of Cluster	Name of Lease	Lease Area (ha)	Total MLA after amalgamation (ha)	Distance from Eco Sensitive Areas		Area of Adjacent Mine Leases with in 500 m radius	
				Distance from ESZ	Distance from Marine Sanctuary	OAL (ha)	Other (ha)
Karamkund Bauxite Mine	KARAMKUND -I	2.02	16.06	4.19	5.19	14.04	319.628
	KARAMKUND -II	2.47		4.46	5.46	13.59	319.628
	TALAWADI	7.52		4.3	5.3	8.54	319.628
	OBM-V	4.05		4.9	5.9	12.01	319.628

The Committee deliberated and is of the view that since amalgamation of the leases is under process with the State Government and it is appropriate to issue one TOR for systematic scientific mining.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the **Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) Mitigation measures to protect the Environment, Ground water preservation measure, Rain water Harvesting and Implementation and Transportation loads on the Public Road; (ii) Project Proponent to award work to Neutral Institute/Government Agencies for monitoring and implementation of the Reclamation and Rehabilitation Measure of Mines under the Cluster approach; (iii) 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; (iv) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (v) Impact of all existing mining on the present land use in

the study area; and (vi) Details of excavation schedule & sequential mining plan.

(2.54). Expansion of Mewasa Bauxite Mine to 12,500 TPA (ROM) of Bauxite by M/s Orient Abrasives Ltd., located at village-Mewasa, Kalyanpur Tehsil, Devbhumi Dwarka District, Gujarat (6.38ha) (Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

The Proposal of M/s Orient Abrasives Ltd. is for expansion of production capacity to 12,500 TPA (ROM) of Mewasa Bauxite mine with the total mining area of 6.38 ha falling in 2 blocks of survey no.330/p, located at village-Mewasa, Taluka-Kalyanpur, District-Devbhoomi Dwarka, Gujarat. Latitudes and Longitudes of the Mewasa are 22°13'40.3"N to 22°13'46.7"N and 69°21'7.3"E to 69°20'59.8"E. The mining lease lies at a distance of 6.42 km from Marine Sanctuary. Eco sensitive Zone of Marine Sanctuary and Marine National Park is demarcated as 1 km and lease is located outside the ESZ of MS/MNP and more than 10 km away from Gaga Bird Sanctuary. It is a category 'A' Project as the MLA is located within 5km of ESZ.

Method of mining is open cast semi mechanized. Project Proponent has applied for renewal to the State Government on 05.06.2000 and on 30.04.1998. Lease renewal is valid under deemed extension as per rule 24(A)(6) of MCR-1960. As per new Mining Ordinance 2015, these mining leases are renewed up to 2030. Total working days are 300 and man power requirement is 41. Total water requirement for drinking domestic and dust suppression is 23.405 KLD. Total cost of the project is 55.53 lakhs. It was reported by Project Proponent that there is no Court case/ litigation pending against the Project.

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

Name of Cluster	Name of Lease	Lease Area (Ha)	Total MLA after amalgamation (ha)	Distance from Eco Sensitive Areas		Area of Adjacent Mine Leases with in 500 m radius	
				Distance from ESZ	Distance from Marine Sanctuary	OAL (Ha)	Other (Ha)
Mewasa	MEWASA-403	3.14	6.38	5.42	6.42	3.24	353.9852

Bauxite Mine	MEWASA -202	3.24		5.95	6.95	3.14	353.9852
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The Committee deliberated and is of the view that since amalgamation of the leases is under process with the State Government and it is appropriate to issue one TOR for systematic scientific mining.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the **Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) Mitigation measures to protect the Environment, Ground water preservation measure, Rain water Harvesting and Implementation and Transportation loads on the Public Road; (ii) Project Proponent to award work to Neutral Institute/Government Agencies for monitoring and implementation of the Reclamation and Rehabilitation Measure of Mines under the Cluster approach; (iii) 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; (iv) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (v) Impact of all existing mining on the present land use in the study area; and (vi) Details of excavation schedule & sequential mining plan.

(2.55) Enhancement of OBM-V Bauxite Mining Project with Production capacity to 4800TPA (ROM) of Bauxite by M/s. Orient Abrasives Ltd., located at village Mewasa, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (4.05 ha) (Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

This proposal of TOR is clubbed with Agenda item Nos.2.53, 2.55, 2.57 and 2.62.

(2.56). Expansion of Rathadi Bauxite Mine to 75,885 TPA (ROM) of Bauxite by M/s Orient Abrasives Ltd., located at village-Mewasa & Virpur, Kalyanpur Tehsil, Devbhumi Dwarka District, Gujarat (11.12 ha) (Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

The Proposal of M/s Orient Abrasives Ltd. is for expansion of production capacity to 75,885 TPA (ROM) of orient Bauxite mine with the total mining area of 11.12 ha falling in 3 blocks of survey no.139/p, 143, located at village-Mewasa Taluka-Kalyanpur, District-Devbhoomi Dwarka, Gujarat. Latitudes and Longitudes of the MLA are 22°12'53.3"N to 22°13'6.3"N and 69°20'27.9"E to 69°20'46.5"E. The mining lease lies at a distance of 4.5 km from Marine Sanctuary and Marine National Park is at 10.03km from lease. Eco sensitive Zone of Marine Sanctuary and Marine National Park is demarcated as 1 km and lease is located outside the ESZ of MS/MNP

and more than 10 km away from Gaga Bird Sanctuary. It is a category 'A' Project as the MLA is located within 5km of ESZ.

Method of mining is open cast semi mechanized. Project Proponent has applied for renewal to the State Government on 29.04.1998, 05.06.2000 and 13.11.1997 respectively. Lease renewal is valid under deemed extension as per rule 24(A)(6) of MCR-1960. As per new Mining Ordinance 2015, these mining leases are renewed up to 2030. Total working days are 300 and man power requirement is 98. Total water requirement for drinking domestic and dust suppression is 51.24 KLD. Total cost of the project is 68.68 lakhs. It was reported by Project Proponent that there is no Court case/ litigation pending against the Project.

Project Proponent presented that the importance of cluster approach for their all 3 small mining projects were based on Techno-Economic conditions and considering Mining in Systematic and Scientific manner, amalgamation proposal consideration with State Government, New Mining Ordinance stating lease validity period up to 2030 for captive use industry and considering the amendments in EIA Notification, 2006 on 7th October, 2014, for group of leases fall within the radius of 500m. The details of lease area are as follows:-

Name of Cluster	Name of Lease	Lease Area (Ha)	Total MLA after amalgamation (ha)	Distance from Eco Sensitive Areas		Area of Adjacent Mine Leases with in 500 m radius	
				Distance from ESZ	Distance from Marine Sanctuary	OAL (Ha)	Other (Ha)
Rathdi Bauxite Mine	VARADA -III	2.43	11.12	3.5	4.5	8.69	130.372
	RATHDI	2.02		3.5	4.5	9.1	130.372
	OBM-III	6.67		4.3	5.3	4.45	130.372

The Committee deliberated and is of the view that since amalgamation of the leases is under process with the State Government and it is appropriate to issue one TOR for systematic scientific mining.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the **Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) Mitigation measures to protect the Environment, Ground water preservation measure, Rain water Harvesting and Implementation and Transportation loads on the Public Road; (ii) Project Proponent to award work to Neutral Institute/Government Agencies for monitoring

and implementation of the Reclamation and Rehabilitation Measure of Mines under the Cluster approach; (iii) 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; (iv) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (v) Impact of all existing mining on the present land use in the study area; and (vi) Details of excavation schedule & sequential mining plan.

(2.57). Talawadi Bauxite Mine with production capacity 6700 TPA of M/s. Orient Abrasives Ltd. Located at Village Mewasa, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (7.52 ha) (Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

This proposal of TOR is clubbed with Agenda item Nos.2.53, 2.55, 2.57 and 2.62.

(2.58). Enhancement of Rathadi Bauxite Mining Project with Production capacity to 5585TPA (ROM) of Bauxite by M/s. Orient Abrasives Ltd., located at village Mewasa, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (2.02 ha) (Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

This proposal of TOR is clubbed with Agenda item Nos.2.60, 2.58, and 2.56.

(2.59). Enhancement of Mewasa-403 Bauxite Mining Project with Production capacity to 2750 TPA (ROM) of Bauxite by M/s. Orient Abrasives Ltd., located at village Mewasa, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (3.24 ha)(Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

This proposal of TOR is clubbed with Agenda item Nos.2.54, and 2.59.

(2.60) Enhancement of Varada-III Bauxite Mining Project with Production capacity to 10800TPA (ROM) of Bauxite by M/s. Orient Abrasives Ltd., located at village Mewasa, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (2.43 ha)(Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

This proposal of TOR is clubbed with Agenda item Nos.2.60, 2.58, and 2.56.

(2.61). Enhancement of Virpur-IV Bauxite Mining Project with Production capacity to 12118TPA (ROM) of Bauxite by M/s. Orient Abrasives Ltd., located at village Virpur, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (4.29 ha)(Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

This proposal of TOR is clubbed with Agenda item Nos.2.61, 2.48, and 2.47.

(2.62). Enhancement of Karamkund-II Bauxite Mining Project with Production capacity to 8970TPA (ROM) of Bauxite by M/s. Orient Abrasives Ltd.,

located at village Virpur, Taluka Kalyanpur, District Devbhoomi Dwarka, Gujarat (2.47 ha) (Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

This proposal of TOR is clubbed with Agenda item Nos. 2.53, 2.55, 2.57 and 2.62.

(2.63). Mining of Stone (Minor Mineral) in the mine of "Bakhrija Plot 1" with production capacity of 2,00,000 TPA (ROM) by M/s Madaan Associates through Shri Raj Kumar Madaan, located at Bakhrija Plot 1, Tehsil-Narnaul, District- Mahendergarh, Haryana (11.26ha)-(Consultant :Vardan Environet) -TOR

The proposal of M/s Madaan Associates is for Mining of "Stone" in the mine of "Bakhrija Plot- 1" with production capacity of 2,00,000 TPA (ROM) in mine lease area of 11.26ha. The mine lease area is located at Tehsil- Narnaul, District- Mahendergarh, Haryana. The Latitudes and Longitudes of mine lease area(Block/YNR B-24) are 27° 55' 21.9", 27° 55' 19.7 " , 27° 55' 1.9", 27° 55' 7.9" N & 76° 02' 55.8" , 76° 03' 3.9", 76° 03' 5.2", 76° 02' 49.8" E respectively on top sheet number 45M/13, 54A/1, 44P/16, H43/W4. The Project is located in seismic zone-II. It is category 'B' due to other mining lease existing within 500m radius of this mining lease and total area is exceeding more than 25 hectares. The Project is considered as the tenure of SEIAA expired.

The proposed project is an open-cast mining project, confined to excavation of Stone along with associated Minor Mineral Mine from the proposed site. The mining operation will be done by mechanized method. Mineral is hard and will require drilling and Blasting. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued by Director, Mines and Geology department, Chandigarh, Haryana on 24/07/2015, vide memo No. DMG/HY/ML/Bakhrija-1/2015/7191. Letter of intent for mine lease area is 10 years.

Proponent reported that no ecologically sensitive area such as National Parks, Tiger Reserves falls within the study area (10 Km radius of the mine boundary). The total water requirement is 30 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 10.0 Crores.

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

Based on the information furnished and presentation made by the Project

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

(2.64). Ochre, White Earth, Laterite & Iron Ore Mine with production capacity of 1,00,000 TPA (ROM) [89,000 TPA (ROM) of Laterite & 10,000 TPA (ROM) & 100 TPA of Iron Ore] by M/s Shiv Kumar Agarwal, located at village- Kama Khuia, Taluka-Birsinghpur, District-Satna, State-Madhya Pradesh (16.19ha) (Consultant: Envirta Sustainable Solutions India Pvt. Ltd.)-TOR

The Proposal of M/s Shiv Kumar Aggarwal is for Ochre, White Earth, Laterite & Iron Ore Mine with production capacity of 1,00,000 TPA (ROM) [89,000 TPA (ROM) of Laterite & 10,000 TPA (ROM) & 100 TPA of Iron Ore]. The mine is located at Village - Kama Khuia, Tehsil- Birsinghpur, District-Satna, Madhya Pradesh. The mining lease area lies between Latitudes & Longitudes 24°52'57.9" to 24°53'16.4" North and 81°01'3.0" to 81°01'16.6" East respectively. The proposal was considered as category 'A' as Interstate Boundary between Uttar Pradesh & Madhya Pradesh at 4.9 Km & Raipur Wild Life Sanctuary at 4.9 Km. NBWL clearance is required for this mining project.

The ML area was 1st granted for 20 years w.e.f. 31.12.1977 to 30.12.1997. The lease has 1st renewal period for 20 years w.e.f. 31.12.1997 to 30.12.2017 and extension of ML for 10 years w.e.f. 31.12.2017 to 30.12.2027. Scheme of Mining Approval by IBM Vide letter No.-MP/Satna/Ochre/M.sch.-05/14-15 on 31/07/2014. Following are the Coordinates:-

Pillar No.	Latitude	Longitude	Pillar No.	Latitude	Longitude
1.	24°53'04.2"	81°01'16.6"	6.	24°53'02.8"	81°01'03.4"
2.	24°52'59.3"	81°01'16.4"	7.	24°53'09.9"	81°01'03.0"
3.	24°52'58.4"	81°01'15.8"	8.	24°53'15.5"	81°01'05.6"
4.	24°52'57.9"	81°01'10.3"	9.	24°53'16.1"	81°01'08.4"
5.	24°52'58.3"	81°01'03.5"	10.	24°53'16.4"	81°01'11.6"
11.	24°53'12.6"	81°01'15.9"			

Method of mining is opencast other than fully mechanized method. All operation of mining such as development, winning of ore and loading will be carried out by mechanized means. No drilling and blasting will be carried out. Total water requirement in the mine will be about 13.0 KLD for drinking, spraying (dust suppression) and plantation. It was reported by the PP that there is no National Park, Habitat for Migratory Birds, Tiger Reserve, Elephant Reserve, Bio-sphere Reserve located within 10 km radius of the mine lease.

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

(2.65). Granite Stone Query Mine with production capacity of 1832 TPA (ROM) by M/s Govind Raj, located at khasra No-29/1, Vijaypur Village Mohangarh Tehsil- Tikamgarh District, Madhya Pradesh (2.50ha) (Consultant: M/s Greencindia Consulting Private limited)- TOR

The Proposal of M/s Govind Raj is for Granite Stone Query with production capacity 1832 TPA (ROM). The mine is located at khasra No-29/1, Vijaypur Village Mohangarh Tehsil- Tikamgarh district, Madhya Pradesh. It is a category "A" Project as the mine lease is located 2.1 Km towards interstate boundary between Madhya Pradesh and Uttar Pradesh and there are two more Granites Mine located within 500 m and the sum of all the mines are 9 ha. The mining lease area lies between Latitudes & Longitudes 24°53'01.7" to 24°53'01.6" North and 78°46'14.2" to 78°46'06.7" East respectively.

Mine lease area is 2.5ha. No Forest land is involved. Method of mining is opencast semi-mechanized mining. The height of the bench and width would be 3 meter with a working face of about 42 meter along with the western boundary of the existing pit would be opened to the width of about 4meter and 3 meter depth. Total water requirement for the proposed project is 8.4 KLD i.e. including drinking, domestic, dust suppression and green belt development. Total project Cost is Rs. 75.0 Lakhs. The applicant applied for grant of mining lease vide application dated (M.P) vide order No. 11/Khanij/Teen-06/2012/193 dated 07.01.2012 for the next ten years. Mine Plan has been approved by the State Government on 04.05.2012

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**.

Consideration of EC Proposals

(2.66). Mining of Mineral Bajri (Minor Mineral) with proposed production capacity of 1.68 Million TPA (ROM) by Shri Abhimanyu Choudhary, located at Revenue village(s) of Tehsil – Mandal, District - Bhilwara, Rajasthan (995 ha) (Consultant: Enkay Enviro Services Pvt. Ltd.)-Consideration of EC.

The proposal of Shri Abhimanyu Choudhary is for mining of Bajri (Minor Mineral) with proposed production capacity of 1.68 Million TPA (ROM). The mine lease area is located at Revenue village(s) of Tehsil – Mandal, District - Bhilwara, Rajasthan in the mine lease area of 995.0 ha. The mine lease area lies on Kothari & Khari River and Survey of India toposheet number 45K/2, 45K/3, 45K/6, 45K/7. The Latitudes and Longitudes of the mine lease area are as below:

Zone	River	Latitude	Longitude
I.	Kothari	25°27'41.21" N to 25°25'36.27" N	74°12'38.46" E to 74°37'22.18" E
II.	Khari	25°36'1.10" N to 25°38'7.24" N	74°05'7.79" E to 74°11'41.47" E

The proposal of TOR was considered by the Expert Appraisal Committee in its 11th Meeting held during 25– 27th September, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter No. J-11015/234/2013-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 995.0 ha which is Kothari & Khari River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 995.0 ha has been granted by the Director of Mines and Geology Department, Govt. of Rajasthan, vide letter dated 27.02.2013 for the period of 5 year. The Mining Plan is approved by SME, Bhilwara Circle, Bhilwara vide letter no. SME/ BHL-C12/ F/ Mining Plan/ Mining Scheme/ 3783 dated 27.08.2013. Department of Mines and Geology, State Government of Rajasthan vide letter dated 06.02.2015 has confirmed that mine site does not fall in the Aravall Hills.

Method of mining is semi - mechanized opencast method. Excavation will be carried out up to a maximum depth of 3.0 meters from surface of deposit and not less than one meter from the water level of the River Kothari & Khari whichever is reached earlier. Proponent informed that 199.92 ha area will be used for excavation; 24.3 ha for safety against bridges (12 nos.); 19.17 ha for safety zone against permanent roads (11 nos.) and 17.80 ha for wells (28 nos.). The site elevation is 562 – 422.041 MSL. The ground water depth is 8.0m bgl in pre-monsoon season and 5.0m bgl in post-monsoon season. The total water requirement is 26.0 KLD including water demand for

domestic purpose and dust suppression which will be met by tanker supply. No ground water interception during the mining operations is envisaged.

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

Mineral will be transported through road. Project Proponent has made the traffic analysis survey and reported that no. of trucks will be deployed 300 per day (20 tonnes capacity each) which increase 250 PCUs per day and the level of service (LOS) remains as "A". Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that there is no National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). The baseline data was generated for the period during October 2013 to December 2013. All 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 there is no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearing for the proposed Project was conducted on 07.11.2014 at 11:00 AM at Tehsil Office, Tehsil – Mandal, District – Bhilwara, Rajasthan. The Public hearing was presided over by Shri Giriraj Verma, Additional District Magistrate, Bhilwara. The representative from the Rajasthan State Pollution Control Board was also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included water supply, construction of rain water harvesting structure, provision of assistance to local schools, scholarships etc., effective implementation of measures will be adopted. Project Proponent has made the action plan with budgetary provisions. The Committee deliberated and is of the view that PP needs to implement the action plan and the Implementation Report has to be submitting to the Regional Office of the MoEFCC every six month.

The cost of the Project is Rs. 99.90 Lakhs. The Project Proponent has earmarked Rs. 18.0 lacs towards Environmental Protection Measures per annum towards capital cost and 1.80 Lakhs as recurring expenses. Proponent informed that Rs. 12.0 Lakhs per annum as capital cost and Rs. 1.20 Lakhs as recurring cost have been earmarked towards CSR activities for next five years of mining operation.

The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In

Civil Appeal No. 9703-9706 of 2013) production of ~ 1,57,968 Tons of Bajri has been made during January 2014 to December 2014 and ~ 61,328 Tons of Bajri has been made during January 2015 to March 2015. **The Committee noted that Project Proponent has continued the mining operation in monsoon season and is of the view the Project Proponent needs to submit the clarification on the issue.**

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 Million TPA (ROM) subject to submission of clarification w.r.t. mining of Bajri.**

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.

(2.67). Mining of Bajri (Minor Mineral) with proposed production capacity of 11.2 Lakh TPA (ROM) by Shri Anil Joshi, located at Revenue villages of Tehsil-Sumerpur, District-Pali Rajasthan (3240ha) (Consultant : EQMS India Private Limited)- Consideration of EC

The proposal of Shri Anil Joshi is for mining of Bajri (Minor Mineral) with proposed production capacity of 11.2 Lakh TPA (ROM). The mine is located at 57

revenue village(s) of Tehsil-Sumerpur, District-Pali, Rajasthan. The mine lease area of 3240ha. The mine lease area lies in Jawai, Sukri, Mithri, Amla Bala and Ungti river River bed. The Latitudes and Longitudes of the mine lease area lies between 72°55'00"E to 73°17'00" E and 72°55'00"E to 73°17'00" E on Survey of India toposheet number 45 G/3, G/4, G/7, 45 C/15, 45 C/16. As per Seismic Zoning Map of India IS: 1893(Part-1):2002, the project is located in seismic zone-II.

The Committee has noted that they had not received the Reports in time and has taken a serious view that the Consultant shall send the Reports on time, otherwise, such Projects will not be considered during the Meeting.

The proposal was considered by the Expert Appraisal Committee in its 11th Meeting held during 25th to 27th September, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF vide letter No. J-11015/261/2013-IA.II (M), dated 17th October, 2013. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 3240ha which is Gair mumkin Nadi Nala. No forest land is involved. The Letter of Intent was granted by the Govt. of Rajasthan vide letter no P.8(3)Khan/Group-2/2013, dated 12.02.2013 in favor of Shri Anil Joshi for river-bed mining of minor mineral Sand (Bajri). The Mine Plan was approved vide SME/JO/CC/SOJAT/MINOR/BAJRI/ML No. 548/2012, dated 04.12.2013. The Project Proponent informed that 133.33ha area will be used for excavation, 234.325ha for Safety Zone, 44.50ha for Green belt development and 2827.845 ha area for the others (Un-worked area).

Mining is by opencast semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and not less than one meter from the water level of the River Channel whichever is reached earlier. Mineral will be transported through road. Due to lease area being revenue waste land, classified as gair mumkin nadi nala, neither any private land nor any asset shall be acquired. No diversion of any forest land is involved. The mining activities in riverbed shall *per-se* shall not generate any effluent which shall be discharged into the river. Neither any protected area, nor any critically polluted area, notified eco-sensitive areas exists within 10 km radius from the study area as certified by the RSPCB. The lease area does not attract Aravali Notification. The total water requirement is 25 KLD including water demand for domestic purpose (4 KLD), dust suppression (15 KLD) and green belt development (6 KLD) which shall be met by tanker supply from the private agency. The existing riverbed levels area higher than more than 3m from water GWT. Hence, no ground water interception during the mining operations is envisaged.

The baseline study for different environmental attributes was carried out during

October-December, 2013. The pollutant concentration in the air is well below the NAAQS. Schedule –I species were found in the study area for which conservation plan along with budgetary provisions of Rs. 25 lakhs has prepared. State Govt. of Rajasthan, vide letter dated 14.01.2015, confirmed that the lease area does not fall in the Aravali Hills. Rajasthan State Pollution Control Board, vide letter date 17.07.2015 has confirmed that MLA is not located in Critical Polluted area of Pali District.

The Public Hearing was conducted on 23.12.2014 at Office of the Sub-Divisional Office, Sumerpur, District, Pali. The Public Hearing was presided over by Shri Brajesh Kumar Chandoliya, ADM, Pali. The representative of the Rajasthan State Pollution Control Board was also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities.

The capital cost of project is Rs.75 lac. The overall cost of environment management plan shall be Rs. 2.04 lac (capital cost) and Rs. 22.79 lac (annual recurring cost). Proponent informed that Rs. 4 Lakhs per annum have been earmarked towards CSR activities for next five years of mining operation. The Proponent has earmarked budget of Rs. 20 lakhs for Conservation Plan for wildlife management.

The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~406545 MT of Bajri (2013-14 & 2014-15) has been achieved after grant of temporary working permission for mining granted by Joint Secretary, Government of Rajasthan, Khan(Group-2) Department, Rajasthan vide its letter no. P.8(4)Khan/Group-2/2013, dated 19.12.2013.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of Mineral Bajri (Minor Mineral) with proposed production capacity of **11.2 Lakhs TPA (ROM)**.

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

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

(2.68). Mining of Mineral Boulder, Gravel & Sand (Minor Mineral) Yamuna Nagar Unit-1 with proposed production capacity of 10,15,400 TPA (ROM) by M/s AVJ Infrastructure Pvt. Ltd. , District-Yamunanagar, Haryana (MLA 48.97 ha)(Consultant: Grass Roots Research & Creation India (P) Ltd.)- Consideration of EC

The proposal of M/s AVJ Infrastructure Pvt. Ltd. is for mining of Boulder, Gravel & Sand(Minor Mineral) with proposed production capacity of 10,15,400 TPA (ROM). The mine lease area is located at District: Yamunanagar, Haryana in the mine lease area of 48.97ha. The mine lease area lies on river bed of River Yamuna. The Latitudes and Longitudes of the lease area lies between Latitude: 30°17'32.32"N to 30°16'58.50"N Longitude : 77°33'8.40"E to 77°32'49.93"E on Survey of India toposheet numbers 53F/7, 53F/8(site), 53F/7, 53F/8, 53F/11 (Site) & 53F/12. The Project is located in Seismic zone-III. It is a category 'A' project as the Kalesar National Park lies at a distance of 1.77 km in North Direction of the project site. PP has applied clearance for NBWL. Also the interstate boundary between Haryana & Himachal Pradesh lies within 10km radius of the project site.

The proposal was considered by the Expert Appraisal Committee in its meeting held on 20th and 21st March, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by EAC vide letter no. J-11015/54/2014-IA.II (M) dated 7th May, 2014. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is of 48.97 ha which is River Bed. Letter of Intent (LOI) for grant of mining lease for minor mineral Boulder, Gravel & Sand over an area of 48.97 ha has been granted by the Director of Mines and Geology Department,

Haryana, vide letter dated 03.01.2014 for the period of 10 years. The Mine Plan is approved by Department of Mines & Geology, Haryana, Chandigarh vide letter No. DMG/HY/YNR-1/M. Plan/2073 dated 18/04/2015.

Method of Mining is semi mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and above the ground water level of the River Chanel whichever is reached earlier. Proponent informed that 48.97 ha area will be used for excavation. The site elevation is 320 m AMSL. The Ground water depth is 5.0m bgl in pre-monsoon season and 4.5m bgl in post-monsoon season. The total water requirement is 4.0 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 upto a maximum depth of 3 m in layers of 1 m each which will avoid ponding effect. Mining will be confined within central 3/4th width of the river. It will be done leaving a safety zone of total of 1/4th of the width of the river from the banks for bank protection. Excavated area will be replenished naturally due to sediment inflow from the catchment area.

Mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that no. of trucks will be deployed 163 per day (25 tonnes capacity each). This will increase 1467 PCUs per day (Considering both loaded and empty trucks) on the road which has a road capacity of 15,000 PCUs per day. The level of service (LOS) will go down from "A" to "B" i.e. from "excellent" to "Very Good". 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.

The baseline data was generated for the period during March 2014 to May 2014. The potential monitoring stations were found by "Coverage Factor Method" for monitoring ambient air quality. The ambient air quality was also within permissible limit as there were no significant emission sources near the site. Dust emission due to movement of vehicles will also be suppressed by regularly sprinkling water on the unpaved roads. All the parameters for water and soil quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site. Local villagers will be given employment opportunities and the workers will be provided with regular health check-ups and medical facilities.

The Public Hearing for the proposed Project was conducted on 03.02.2015 at 12:30 pm at Yamunanagar, Haryana. The Public hearing was presided over by Shree

S.S. Saini, ADC Yamunanagar. The representative from Haryana State Pollution Control Boards 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 dust pollution, water conservation measures, check on illegal mining, not to harm nearby fields, not to overload trucks and social and other village development activities. Project Proponent has made the Action Plan with budgetary provisions. The Committee deliberated and is of the view that PP needs to implement the Action Plan and the Implementation Report has to be submit to the Regional Office of the MoEFCC every six month.

The cost of the Project is Rs. 2,91,20,000. The Proponent has earmarked Rs. 23.50 Lakhs towards Environmental Protection Measures. Proponent informed that Rs. 26 lakhs per annum have been earmarked towards CSR activities for next 10 years of mining operation. Project Proponent reported that there is a Court case in the Hon'ble High Court Punjab & Haryana in the matter of CWP No. 27700 of 2013 Rajbir Singh v/s State and others. The petitioner had challenged the conditions of the auction notice and the rules relating to Payment of Rent and Compensation to the land owners. The Hon'ble High Court did not restrain the auction proceedings and held that the auctions may be held but it has also directed its Orders dated 17.12.2013 that the same shall be subject to final outcome of above said CWP. Accordingly, the Lol was issued to the outcome of said case. The said case is still pending before Hon'ble Punjab and Haryana High Court for adjudication.

The Committee noted that Mine Plan approved by Department of Mining & Geology, Haryana vide letter dated 18.04.2015 and the Public Hearing was held during 03.02.2015 i.e. prior to approval of the Mine Plan. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In this context, Mines and Geology Department, vide letter dated 01.05.2015 has certified that the Draft Mining Plan and final mining plan submitted and approved has no material changes except that of certain typographical corrections and formatting.

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 **10,15,400 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.

(2.69). Mining of River Sand (Minor Mineral) in the Mines of "Mahendergarh Unit-1" with Production Capacity of 0.12 million m³ of River Sand (ROM) by M/s Om Minerals, located at Tehsil-Narnaul, District-Mahendragarh, Haryana (Mine lease 43.36ha) (Consultant: Vardan EnviroNet Gurgaon)- Consideration of EC

The proposal of M/s Om Minerals is for Mining of River Sand (Minor Mineral) in the Mines of "Mahendergarh Unit-1" with production capacity of 0.12 million m³ of River Sand (ROM) in 43.36ha. The mine lease area is located near 3 revenue villages falling under Tehsil-Narnaul, District-Mahendergarh, Haryana. The lease area lies in the course of River Chandrawati. The Latitudes and Longitudes of Mine lease area are North 27°54'48.33"N to 27°57'1.60" and East 75°55'46.24"E to 75°57'06.94" E on Survey of India toposheet (OSM) numbers 45M13, 54A/1, 44P/16, H43W4. The Project is located in Seismic zone-III. It is Category 'A' Project due to the interstate boundary of Haryana and Rajasthan at a distance of 0.5 Km west direction.

The proposal was considered by the Expert Appraisal Committee in its 19th Meeting held during April 29-30, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by MoEF vide letter No. J-11015/90/2014-IA.II (M) dated 17.09.2014. The proponent has submitted Final EIA/EMP to the Ministry on 21.4.2015 for seeking environmental Clearance after conducting Public Hearing.

The mine lease area 43.36ha in Chandrawati River (dry river bed). The land use of the lease area is Govt. waste land *i.e.* Gair Mumkin Nadi Nallah. No forest land is involved. The Letter of Intent (LoI) of mining lease was granted to M/s Om Minerals on 03.01.2014 for 7 years by Director, Department of Mines & Geology,

Haryana vide letter No. Glg/Hy/MGR/Cont/Unit-1/2013/143 dated 03.01.2014. The Mining Plan is approved by Director, Mines and Geology, Govt. of Haryana; vide letter no. DMG/HY/Cont/MGR unit 1/M.Plan/590 dated 20/02/2015.

Mine working will be opencast by semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit. The total water requirement is 15 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply from existing bore-wells/ tube wells of nearby villages. No ground water interception during the mining operations is envisaged as ground water table 45m bgl. The percentage of replenishment is around 15% every year. The maximum depth of mining in the riverbed will not exceed 3m from the un-mined bed level at any point of time with mining restricted to the central 3/4th width of the river. A safety margin of 2m shall 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. No ponding will take place. Mining will be done only during day time and completely stopped in monsoon season. The site elevation is 339.70 to 341 m RL 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 no. of trucks will be deployed 8 per day (20 tonnes capacity each) which increase 24 PCUs per day and the level of service (LOS) remains as "A". Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National Parks, Wildlife Sanctuaries, Tiger Reserves, eco sensitive Zones falls within study area (10 km radius of the mine boundary). However, interstate boundary of Haryana and Rajasthan lies at a distance of 0.5 Km west direction.

Baseline data has been collected from Pre-Monsoon (March to May 2014) and Post-Monsoon (October 2014) season, 2014 within 10 Km radius of the study area as directed in 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 17-12-2014 at 3:00 pm at Village – Nangal Kalia, Tehsil- Narnaul, District Mahendergarh, Haryana. The Public Hearing was presided over by Shri R. S. Varma, Additional Deputy Commissioner District-Mahendergarh, 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. 25.0 Lakhs; cost for Environmental Protection is Rs. 7.0 Lakhs; Budget for biodiversity conservation is Rs. 2.0 Lakhs spread over 5 years and cost for CSR will be Rs. 8.0 Lakhs/annum. The Project Proponent has also made a submission that the Hon'ble High Court did not restrain the auction proceedings and held that the auctions may be held but it has also directed its orders dated 17.12.2013 that the same shall be subject to- final outcome of above said CWP. Accordingly, the acceptance /Lol was issued to the outcome of said case. The said case is still pending before Hon'ble Punjab and Haryana High Court for adjudication.

The Committee noted that Mine Plan approved by Department of Mining & Geology, Haryana vide letter dated 20.02.2015 and the Public Hearing was held during 17.12.2014 i.e. prior to approval of the Mine Plan. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In this context, Mines and Geology Department, vide letter dated 03.06.2015 has certified that the Draft Mining Plan and final mining plan submitted and approved has no material changes except certain typographical corrections and formatting.

The Committee after detailed deliberations **deferred the Proposal and sought the following information/clarifications:-**

- (i) The Committee noted that the PP has not submitted the adequate compliance on TOR 34 & 35 w.r.t. occupational health impacts and public health implications. Needs to be revised and resubmitted.
- (ii) The Committee noted that there are very sensitive issues raised during Public Hearing viz. acute scarcity of water, illegal mining, activities of theft, misbehavior with ladies during mining activities, loss of drinking water due to mining, nuisance due to transportation; however PP has not adequately addressed in the Action Plan along with budgetary provisions on the issues raised during Public Hearing;
- (iii) The Committee noted that the PM_{10} value were nearly to the Standard i.e. $95.4 \mu\text{g}/\text{m}^3$ at Dabla village; $95.2 \mu\text{g}/\text{m}^3$ at Palra village; $94.1 \mu\text{g}/\text{m}^3$ at Tonda village. In this context, the EAC is of the view that PP needs to submit the action plan for mitigation of the Particulate Matter;
- (iv) Disaster management plan is not adequate and needs to be revised;

(v) TOR compliance no. 46 w.r.t. impact on mining on plankton was not addressed properly;

(vi) The Committee observed that the PP has earmarked Rs. 1.0 Lakh for plantation including maintenance which is very less. The revised cost needs to be submitted along with places of plantation to be done.

(2.70). Bajri (Minor Mineral) Mine with production capacity of 24.0 Lakh TPA (ROM) by M/s Sarv Surya Associates, located at Revenue village(s) of Tehsil- Jodhpur, District – Jodhpur, State – Rajasthan (2060 ha)(Udaipur Min-Tech Pvt. Ltd.)-Consideration of EC

The Proposal of M/s. Sarv Shri Surya Associates is for Mining of Bajri with proposed capacity of 24,00,000 TPA (ROM). The mine is located near village Mok Basani, Mahadev Nagar Udera, Ralawas, Rohila Kalan, Legon Ki Dhani, Shiv Sarnon Ki Dhani, Siriaon De Gaon, Palri Pawara Chak, Palri Mangalia, Popawas, Balakuan, Basni Karwad, Basni Binda, Basni Saifa, Bhadwasian, Meghlasan, Indroka, Kharda Randhir, Khari Kalan, Khokharian, Golasani, Golian, Ghatiali, Chopasani Jagir, Jakhdon Ki Dhani, Jajhiwal Gehlota, Jajhiwal Brahmna, Jhalamand, Dedipanada, Desuria Bisnoi, Nandni, Pabupura Bhatan, Palri Khichian, Palri Pawara, Palri Panwara Chak, Badli, Gewa, Chenpura, Daiger, Mandor -II, Mandor-I, Manaklaw, Lordi Panditji, Chokha, Alakdara, Uchiyada, Nandra Kalan, Karwad, Keru, Bisalpur, Palasni, Basani Lacha, Chawanda, Rudkali, Thabukara, Salodi, Desurian Kharolan, Dantiwara, Nandna Kalan, Naron Ki Dhani, Bhatinda, Pithasni, Basani Charna, Birdawas, Bhasani, Moklawas, Mortuka, Rajwan, Rohilla Khurd, Sangarian Khurd, Beru, Tehsil – Jodhpur, District–Jodhpur, Rajasthan. The mine lease area falls on survey of India Topo sheet no 45F/4, 45F/8 and West Block-1 26°0'51.56" N & 73°2'35.33' E, East Block-2 26°09'21.33" N & 73°25'23.17' E, North Block-3 26°17'1.45" N & 73°22'40.33' E. The project is located in Seismic Zone II.

The Proposal was considered by the Expert Appraisal Committee in its meeting held during 12th November, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by MoEFCC vide letter no. J-11015/319/2013-IA.II (M), dated 9th December, 2013. EIA/EMP Report has been submitted online to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

The total lease area of the Project is 2060 ha. There is no Forest land within the ML Areas. The Project Proponent reported that no National Park, Wildlife Sanctuary and other eco-sensitive area are located at a distance of 10 Km from the mine blocks. The operation will be opencast semi-mechanized with use of hand tools like shovel, pan, sieves, etc. The minerals will be collected in its existing form. Excavation will be carried out only up to a depth of 3m bgl. Extraction of sand material will be done only during the day time and completely stopped during the

monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 23.0 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. Mining Plan was approved by SME, Department of Mine & Geology, Jodhpur Circle, Rajasthan vide letter no. SME/JO/CC/Jodh/Minor/Bajri/M.L No-32/2012/16364 dated 13.12.2013.

Project Proponent reported that workers will be provided dust mask, safety boot, helmet and other safety equipment. A well-equipped first aid station will be maintained at mine site. Medical check-up of the workers will be done. Mineral will be transported through road. Traffic Analysis survey has been conducted and as per survey no. of dumpers will be 814 per day. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that no National Parks/Wildlife Sanctuaries/Biosphere Reserves/Wildlife Corridors/Tiger/Elephant Reserve are located within the 10 km study area of the mine lease. State Government vide letter dated 13.01.2015 has confirmed that the instant mine lease area does not fall in the Aravali Hill Range. No Schedule-I species found in the core and buffer zone. The baseline data was generated for the period during December 2013 to February 2014. All the parameters for water and air quality were within permissible limits. There is no R&R plan applicable for this project at this time. However, Private land will be required and suitable compensation will be given as per Govt. norms.

The Public Hearing was conducted on 16.10.2014 village-Rajeev Gandhi Seva Kendra, Village Panchayat Birami, Panchayat Samiti Luni, Tehsil- Jodhpur, District- Jodhpur Rajasthan. The Public Hearing was presided over by Shri Manaram Patel, Additional District Collector, Jodhpur. The representatives from Rajasthan 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.

The cost of the Project is Rs. 2 Crores. Capital Cost of the EMP is Rs. 15.50 Lakhs and recurring expenditure during the stage of production is Rs. 3.1 Lakh per annum. PP has earmarked Rs. 10.50 Lakhs per annum towards CSR Activities. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of 950433 MT of Bajri has been made till date.

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

Committee is of the view that PP needs to amend the Mine Plan accordingly.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Mining of Mineral Bajri with proposed production capacity of **24 Lakhs TPA (ROM) subject to submission of amended mine plan for semi-mechanized method.**

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

(2.71). Mining of Mineral Bajri (Minor Mineral) with proposed production capacity of 2.24 Million TPA (ROM) by Shri Sanjay Kumar Garg, located at Revenue Village(s) of Tehsil – Bhilwara, District - Bhilwara, Rajasthan (MLA 1947.12ha)(Consultant: Enkay Enviro Services Pvt. Ltd.)-Consideration of EC.

The proposal of Shri Sanjay Kumar Garg is for mining of Bajri (Minor Mineral) with proposed production capacity of 2.24 Million TPA. The mine lease area is located at Village(s) of Tehsil – Bhilwara, District – Bhilwara in the mine lease area of 1947.12 ha. The mine lease area lies on Banas and Kothari River. The lease area falls within

the Survey of India toposheet no. 45 K/6, 45 K/7, 45 K/8, 45 K/10, 45 K/11, 45 K/12, 45 K/14, 45 K/15 & 45 K/16. The Project is located in Seismic zone-II. The Latitudes and Longitudes of the mine lease area lies between:-

River	Latitudes (N)	Longitudes (E)
Banas (Zone - I)	25°12'6.98" to 25°15'45.11"	74°29'47.83" to 74°47'27.15"
Kothari (Zone - II)	25°24'5.52" to 25°20'47.33"	74°34'36.54" to 74°46'49.40".

The proposal of TOR was considered by the Expert Appraisal Committee in its 11th Meeting held during 25- 27th September, 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/ 231/ 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 1947.12 ha which is Banas and Kothari River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 1947.12 ha has been granted by the Director of Mines and Geology Department, Govt. of Rajasthan, vide letter dated 05.01.2013 for the period of 5 year. The Mining Plan is approved by SME, Jaipur Circle, Jaipur vide letter no. SME/ BHL - C12/ F/ Mining Plan/ Mining Scheme/ 3769 dated 27.08.2013.

Method of mining is semi - mechanized opencast method. Excavation will be carried out up to a maximum depth of 3.0 meters from surface of deposit and not less than one meter from the water level of the River Banas and Kothari whichever is reached earlier. Proponent informed that 266.60 ha area will be used for excavation; 62.0 ha for safety zone against Bridge (10 nos.), Roads (7 nos.) and Wells (22 nos.). The site elevation for Zone I is 383 to 429 MSL and for Zone II is 389 to 430 MSL. The ground water depth is 8.0m bgl in pre-monsoon season and 5.0m bgl in post-monsoon season. The total water requirement is 14.0 KLD including water demand for domestic purpose and dust suppression which will be met by tanker supply. No ground water interception during the mining operations is envisaged.

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

Mineral will be transported through road. Project Proponent has made the traffic analysis survey and reported that no. of trucks will be deployed 400 per day (20 tonnes capacity each) which increase 250 PCUs per day and the level of service

(LOS) remains as "A". Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

Project Proponent reported that there is no National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). Mines and Geology Department, vide letter dated 06.02.2015 has confirmed that the mine lease area does not fall in the Aravali Hills. 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 Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the River bed and there is no establishment on the site.

The Public Hearing for the proposed Project was conducted on 23.12.2014 at 11:00 AM at Tehsil Office, Bhilwara, Rajasthan. The Public Hearing was presided over by Shri Suresh Kumar, Additional District Magistrate, Bhilwara. The representative from the Rajasthan State Pollution Control Board was also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included regarding safety, health, road and environmental pollution, roads getting damaged, illegal mining, employment, plantation etc., effective implementation of measures will be adopted. Project Proponent has made the action plan with budgetary provisions. The Committee deliberated and is of the view that PP needs to implement the action plan and the Implementation Report has to be submitting to the Regional Office of the MoEFCC every six month.

The cost of the Project is Rs. 16,91,00,000/-. The Project Proponent has earmarked Rs. 1.80 lakhs towards Environmental Protection Measures per annum towards recurring expenses. Proponent informed that Rs. 1,11,20,000/- as capital cost have been earmarked towards CSR activities for next five years of mining operation. Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of 97,0020 MT of Bajri has been made during December 2013 to March 2014 and 22,16,289 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 **2.24 Million TPA (ROM)**.

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

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

(2.72). Mining of Bajri (Minor Mineral) with Production Capacity 2.8 Million TPA (ROM) by Shri Vikramaditya Rathore, located at Revenue villages of Tehsil-Hurda, District: Bhilwara & Tehsil-Masuda, District: Ajmer, Rajasthan (ML Area 544.03 ha) (Consultant: J.M. EnviroNet Pvt. Ltd.)-Consideration of EC

The proposal of Shri Vikramaditya Rathore is for mining of River Sand (Minor Mineral) with proposed production capacity of 2.8 MTPA. The mine lease area is located at village (s)- Jalkhera, Murayala, Kherjari, Gajsinghpura, Chatarpura, Devpura, Jaisinghpura, Nanga Ji ka khera, Borkhera, Suras, Balapura, Bhairu khera, Patiyo ka Khera, Gulabpura Ditiya, Hurda Seja, Lamba, Agucha Pratham, Kaniya, Aamliyas, Anandipur, Amartiya, Bhairukhera /Agucha, Sareri, Kanwaliyas, Rupaheli Pratham, Sultanpura, Bhojras, Tehsil-Hurda; District: Bhilwara and villages Jaliya-2, Nagar, Jaliya-3, Chausla, Tehsil-Masuda; District: Ajmer Rajasthan in the area of 544.03 ha. The mine lease area lies on the Khari, Mansi River bed and Nallah & Ballae. The Latitudes and Longitudes of the mine lease area lies between 25°14'51.3"N to 25°55'25.6"N and 74°30'15.9"E to 75°07'18.0"E on Survey of India toposheet numbers 45 K/5, 45K/9, 45K/10, 45K/13, 45J/12 & 45J/16. The Project is located in Seismic zone-II.

The proposal for TOR was considered by the Expert Appraisal Committee in its 13th Meeting held during 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-11015/413/2013-IA-II (M) dated 9th December, 2013. The EIA/EMP Report submitted online for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 544.03ha which is as per khasra numbers issued by DMG, Rajasthan in Khari & Mansi River. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral River Sand over an area of 544.03 ha has been granted by the Govt. of Rajasthan, vide letter No P.10 (10) Khan/Group-2/2013 dated 26.02.2013. The Mining Plan along with Progressive Mine Closure Plan was approved by SME Bhilwara Circle Bhilwara; vide letter no.SME/Bhilwara-circle/CC.2/Bajri/Bhilwara/2012 Dated 05.12.2013.

Mining will be by Opencast Manual cum Semi-Mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and not less than one meter above the water level of the River Channel whichever is reached earlier. Mining will be done leaving a safety distance from the banks. No mining will be done in the zone of 45 m on either side of the structure/bridge. There will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure. The total water requirement is 90 KLD including water demand for domestic purpose, dust suppression and plantation development which will be met by purchasing from local villagers. No ground water interception during the mining operations is envisaged.

No National Park, Biosphere Reserve, Tiger Reserve, Wildlife Corridor etc fall within the study area (10 km radius of the mine boundary). There are Five Protected Forest and Three Reserved Forest. State Government of Rajasthan vide letter no. ME/Bhilwara/C.C.4/Kha. P. 119/2012/256 dated 09.03.2015 has confirmed that the lease area does not fall in Aravali range. The baseline data was generated for the period during December 2013 to February 2014. The analytical results of samples of air and water collected were within permissible limits.

Project site is located in two Districts namely Ajmer & Bhilwara hence Public Hearing were held in both the districts. Public Hearing in Ajmer District was held on 20.06.2014 at 11:00 AM at Dak Banglow, village Baral, Tehsil-Bijaynagar, District Ajmer, Rajasthan which was presided by Shri Yashodanandan Srivastav, Additional District Collector II, Ajmer. Public Hearing for Bhilwara district was conducted on 10.12.2014 at 11:00 AM at Tehsil office Hurda, District Bhilwara, Rajasthan which was presided by Shri Suresh Kumar, Additional District Collector, District Bhilwara,. The representative from the Rajasthan State Pollution Control Board was also present. The issues raised during the Public Hearing were about social and other village development activities, employment & construction of open well for drinking water facilities. Action plan with budgetary allocation has been given against Points raised in Public Hearing.

The Capital cost of the Project is Rs 2 Crores. An amount of Rs. 8 Lakhs has

been earmarked towards Environmental Protection Measures and Rs. 5.0 Lakhs per annum towards recurring expenses. Rs. 20.0 Lakhs have been earmarked towards CSR activities for next five years of mining operation. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013 (In Civil Appeal No. 9703-9704 of 2013) production of ~ 88397 Tonnes of Bajri has been made during December 2013 to March 2014 and 347302 tonnes 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 **2.8 Million TPA (ROM)**.

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

(2.73). Bunder Diamond Mine of Kimberlite Ore (Diamond Bearing Ore) with proposed capacity of 7.15 Million TPA (ROM) along with 5.0 Million TPA (ROM) of Kimberlite Ore processing Plant by M/s Rio Tinto Exploration India Pvt. Ltd., located at Bunder, Bakswaho Protected Forest, Tehsil- Bakswaho, District- Chhatarpur, Madhya Pradesh (MLA 954ha)- (Consultant : B. S. Envi-Tech (P) Ltd.)-Reconsideration of EC

The proposal of M/s. Rio Tinto Exploration India Pvt. Ltd is for Bunder Diamond Mine of Kimberlite Ore (Diamond Bearing Ore) with proposed capacity of 7.15 Million TPA (ROM) along with 5.0 Million TPA (ROM) of Kimberlite Ore processing Plant. The mine is located at Bunder, Bakswaho Protected Forest, Tehsil-Bakswaho, District- Chhatarpur, Madhya Pradesh in MLA of 954ha. The Mining lease area lies between 24°18'25"N-24°20'52"N Latitudes and 79°16'11"E- 79°18'32"E Longitudes on Survey of India Toposheet No. 54 P/7.

The proposal was earlier considered by the EAC in its meeting held during **May 27-29, 2015** wherein the Committee **deferred** the Proposal and sought the following information/clarification:-

- (i) The Committee noted that PP reported that the Mining lease area lies between 24°18'28.9 "N - 24°20'49.9" N Latitudes and 79°16'2.60"E - 79°18' 27.20 "E Longitudes on Survey of India Toposheet No. 54 P/7. However, in the approved Mine Plan, the Latitudes and Longitudes are different viz. 24°18'25"N - 24°20'52"N Latitudes and 79°16'11"E - 79°18'32"E. The Committee noted that the PP shall rectify the error and submit the correct Latitudes and Longitudes of the mine lease area;
- (ii) The Committee noted that around 80 People made the representation that mining lease shall not to be granted to M/s Rio Tinto stating that they are killers of lakhs of trees, will destroy the environment, damage the wildlife & destroy the livelihood. The Committee is of the view that PP needs to revise the Action Plan on the issues raised during Public Hearing along with budgetary provisions;
- (iii) The Committee noted that the PP collected the baseline data during 2010-11 before TOR and only monitored two months baseline data in January-February 2015 (not as per IMD Guidelines). PP needs to submit one complete set of baseline data as per IMD seasons. The Committee observed that PP had used the baseline data collected during 2010-11 for conducting the Public Hearing, which needs to be clarified; and
- (iv) Provide the details of Court case and its Order.

Project Proponent submitted the information/clarifications to the Ministry online and accordingly the Proposal is considered in this present meeting. The point wise information to the clarifications is as follows:-

- (i) With regard to correct Latitudes and Longitudes of the mine lease area, the PP has mentioned that the correct coordinates of the ML area are as Latitudes :24°18'28.90"N-24°20'49.90"N and Longitudes:79°16'2.60"E-79°18'27.20" E.

- (ii) With regard to revised action plan along with budgetary provision on the issues raised during Public Hearing, the Project Proponent reported that Rs. 12.10 Crores is earmarked for Conservation Plan, Rs. 16.0 Crores for water reuse and recycling, Rs.3.26 Crores on capital account and Rs.25.0 Lakh per year on revenue account as Environment cost, Rs.20.5 lakhs during first five years of start of mining operation for providing employment to locals and Rs.30.0 Crores in first five years of mine life, Rs.22.5 Crores on capital account and 7.5 Crores on revenue account for peripheral development. PP also mentioned that sizeable number of people were outsiders.
- (iii) With regard to collection of base line data, PP has informed that they had monitored the baseline data during summer season i.e. April 2015-May 2015. The Committee deliberated the base line data and was satisfied.
- (iv) With regard to details of Court case, PP informed that a Writ Petition No.6135 of 2011 (PIL) was filed in the High Court of Madhya Pradesh at Jabalpur. The Hon'ble Court, vide order dated 22.06.2015, inter-alia, mentioned that....Accordingly, granting liberty to the petitioner to challenge the order Annexure A-1 in case, he has any grievance still subsisting, we dispose of this petition.

The Member Secretary has informed that the Ministry has received a Complaint dated 14.07.2015 of Shri Neelesh Dubey wherein the Applicant inter-alia prayed that mine lease may not be granted to M/s Rio Tinto Exploration India Pvt. Ltd. as there are many irregularities and also requested to suspend the order of State Govt. of Madhya Pradesh. The Committee deliberated the issues and is of the view that the comments of Mines and Geology, State Govt. of Madhya Pradesh and Ministry of Mines may be secured.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Bunder Diamond Mine of Kimberlite Ore (Diamond Bearing Ore) with proposed capacity of 7.15 Million TPA (ROM) along with 5.0 Million TPA (ROM) of Kimberlite Ore processing Plant **subject to (i) Obtaining the comments on complaint from the Mines and Geology, State Govt. of Madhya Pradesh and Ministry of Mines and Project Proponent; (ii) Stage-I FC Clearance for diversion of forest land.**

The Committee **recommended additional specific conditions** viz. (i) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (ii) 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; (iii) 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; (iv) 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; (v) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; and (vi) Implementation of Conservation Plan for the Schedule I species.

(2.74). Mining of Minor Mineral (River Sand) in the Mines of "Mahendergarh Unit-3" with Production Capacity of 0.8 Million m³ of River Sand (ROM) by M/s. Om Minerals located at 17 villages of Tehsil-Narnaul, District-Mahendragarh, Haryana (Mine Lease area 364.54 ha)(Vardan Environet) - Reconsideration of EC

The proposal of M/s Om Minerals is for River Sand Mining with annual production capacity 0.8 of million m³ of River Sand (ROM) in 364.54 ha. The mine lease (ML) area is located near 17 revenue villages falling under Tehsil-Narnaul and Nangal Chaudhary, District-Mahendergarh (Haryana). The lease area lies in the course of River Krishnawati.

The proposal was earlier considered by the EAC in its meeting held during May 27-29th, 2015 wherein, the Committee deferred the proposal and sought following information:-

- (i) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Haryana vide letter dated 20.02.2015 and the Public Hearing was held during 17.12.2014 i.e. prior to approval of the Mine Plan. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the PP to the Public. The Committee also was of the view that clarification may also be sought from the PP with an undertaking, as to whether the contents of Draft Mine Plan and approved Mine plan are same or different;
- (ii) Committee noted that in proper compliance of TOR no. 17 with regard to Aravali Notification has not been provided, the required Certificate from the concerned Authority needs to be submitted;

- (iii) The Committee noted that the Consultant has submitted the Questionnaires wherein at S.No. 50 i.e. details of court case mentioned 'No', however, the LOI was issued subject to the outcome of Court case in the Hon'ble High Court Punjab & Haryana in the matter of CWP No. 27700 of 2013- Rajbir Singh v/s State and others. The Committee observed that the Consultant has to submit the documents which are consistent to each other and should not have submitted such a deficient Proposal causing delay in appraisal of Proposal and wasting the time of the Committee; The Revised documents needs to be submitted;
- (iv) The Committee also noted that Questionnaires' w.r.t. S. No. 4 (land detail) need to be resubmitted; and
- (v) Updated status of court case needs to be submitted;

The Project Proponent vide letter dated 19.06.2015 has submitted the details and accordingly the proposal is placed in this present meeting. The point wise explanation of the queries is given by the project proponent as below:-

- (i) With regard to conduction of Public Hearing prior to approval of the Mine Plan, the PP states that the date of Approval for Mining Plan & Progressive Mine Closure Plan (DMG/HY/Cont./MGR Unit-3/M.Plan/594 dated 20.02.2015) is before the date of Public hearing (17-12-2014), the PP has received clarification from Director General, Mines and Geology, Haryana vide letter no. 3533 dated 28.5.2015. The letter clarifies that "there are no material changes in the draft mining plan and the final approved mining plan except certain typographical corrections and formatting. The level of production, method of mining, machinery etc. are the same in both plans."
- (ii) With regard to non-compliance with TOR no. 17 related to Aravalli Notification, the PP has received clarification from Director General, Mines and Geology, Haryana vide letter no. 3533 dated 28.5.2015 in this matter. This letter clarifies that the entire area of contract (364.54 ha) is not a part of Aravali Hills and is free from Aravali Project Plantation Notification.
- (iii) With regards to S.No. 50 of Questionnaires, the PP has submitted revised questionnaire with details of court cases and their present status.
- (iv) With regards to S.No. 4 (land details) of Questionnaires, the PP has submitted revised questionnaire with corrections in the land details.
- (v) With regards to the updated status of court case, the PP stated that:-
 - a. M/s Om Minerals, LoI holder of Sand Mining Unit-3, District-Mahendergarh filed a case CWP No. 83 of 2015 titled as M/s. Om Minerals v/s State of Haryana and another in the High Court of Punjab and Haryana at Chandigarh. The High

Court take up our case with CWP No. 4 of 2015 titled as Rajvir Chauhan V/s State of Haryana and others as the content of our CWP were similar with another CWP. The High court also granted Interim order on dated 06.01.2015 in the same terms, as in CWP No. 4 of 2015 on dated 02.01.2015. In the meanwhile respondents are restrained from taking any coercive steps for purpose of recovering the amount of royalty for un-commenced period of lease prior to Environmental Clearance. All the CWPs are still pending in the High Court.

- b. M/s Om Minerals, LoI holder of sand Mining Unit-3, District-Mahendergarh also filed a case CWP No. 7991 of 2014 titled as M/s Om Minerals V/s State of Haryana and others in the High Court of Punjab and Haryana at Chandigarh. The High Court of Punjab and Haryana passed an order as an Interim measure in the case of CWP No. 6018 of 2014 titled as M/s Haryana Royalty Company V/s State of Haryana and others for charging stamp duty on submitting of mining lease agreement, passes as an Interim measure, contract of the petitioner shall not be revoked an account of non-payment of duty on stamp papers. The Hon'ble High Court passes an Interim order dated 29-04-2014 in our CWP also and directed the State of Haryana and others that the contract of the petitioner shall not be revoked on account of non-payment of duty on stamp papers. The case CWP No. 7991 of 2014 titled as M/s Om minerals v/s State is still pending in the High Court till date.

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 **0.8 Million m³ of River Sand (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.

(2.75).Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Mandewala Block/YNR B-38" with production capacity of 2,95,000 TPA (ROM) by M/s Saharanpur Mines Management Services Pvt. Ltd., located at Mandewala Block/YNR B-38, Tehsil-Chhachhrauli, District-Yamuna Nagar, Haryana (15.00 Ha)- (Consultant : Vardan Environet) – TOR

The proposal of M/s Saharanpur Mines Management Services Pvt. Ltd. is for Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Mandewala Block/YNR B-38" with production capacity of 2,95,000 TPA (ROM) in mine lease area of 15.00 Ha. The mine lease area is located at Tehsil-Chhachhrauli, District- Yamuna Nagar, Haryana. The lease area lies in the River Bed of Yamuna. The Latitudes and Longitudes of mine lease area are 30°15'57.40", 30°15'46.20", 30° 15'41.90" and 30°15'41.50" N & 077°30'31.70", 077° 30' 32.10", 077°30'25.90" and 077°30'38.40" E respectively on toposheet (OSM) number H43L8, H43L7, H43L11, H43L12. The Project is located in seismic zone-IV. It is Category 'A' project as the site is located at 2.0 Km distance in South-east direction from Haryana and Uttar Pradesh inter-state boundary.

The proposed project is an open-cast mining project, confined to excavation of Boulder, Gravel and Sand Mine from the proposed site. The mining operation will be done by mechanized method. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DMG/HY/Cont/Mandewala Block/YNR B-38/2015/3937 dated 19/06/2015. Letter of intent for mine lease area is 08 years.

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) except Kalesar Wildlife Sanctuary 6.02 Km towards North direction. The total water requirement is 26 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 7.00 Crores.

The Committee noted that there is a Court case in the matter of Rajbir Singh v/s State of Haryana and others [CWP No. 27700 of 2013] wherein the Petitioner had challenged the conditions of the auction notice and the rules relating to Payment of

Rent and Compensation to the land owners. The State Govt. (Dept. of Mines and Geology) has issued LoI subject to outcome of the above mentioned case. The said case is still pending before Hon'ble Punjab and Haryana High Court for adjudication.

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

(2.76). Mining of "Sand" (Minor Mineral) in the mine of "Gumthala North Block/YNR B-16" with production capacity of 21,00,000 TPA (ROM) by Sh. Jogender Singh S/o Sh. Mahinder Singh, located at Gumthala North Block/YNR B-16, Tehsil-Radaur, District- Yamuna Nagar, Haryana (44.62 ha)(Consultant : Vardan Environet) – TOR

The proposal of Sh. Jogender Singh S/o Sh. Mahinder Singh for Sand (Minor Mineral) in the mine of "Gumthala North Block/YNR B-16" with production capacity of 21,00,000 TPA (ROM) in mine lease area of 44.62 Ha. The mine lease area is located at Tehsil-Radaur, District- Yamuna Nagar, Haryana. The lease area lies in the River Bed of Yamuna. The Latitudes and Longitudes of mine lease area 29°56'46.1"-29°57'35.106" N & 77°12'42.2"-77°13'8.801" E, respectively on toposheet (OSM) number H43L4, H43L8, H43R1, H43R5. The Project is located in seismic zone-IV. It is Category 'A' project as the site is located 1.4 Km distance in South-east direction from Haryana and Uttar Pradesh inter-state boundary.

The proposed project is an open-cast mining project, confined to excavation of Sand Mine from the proposed site. The mining operation will be done by semi-mechanized method. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DMG/HY/cont/ Gumthala North Block/YNR B16/2015/3925 dated 19/06/2015. Letter of intent for mine lease area is 07 years.

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). The total water requirement is 50 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 9.0 Crores.

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

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

(2.77). Mining of "Boulder, Gravel and Sand" (Minor Mineral) in the mine of "Kohliwala Block/YNR B-21 & 22" with production capacity of 2,50,000 TPA (ROM) by M/s Delhi Royalty Company, located at Kohliwala Block/YNR B-21 & 22, Tehsil-Chhachharauli, District- Yamuna Nagar, Haryana (13.59 ha)- (Consultant: Vardan Environet) – TOR

The proposal of M/s Delhi Royalty Company for Boulder, Gravel and Sand (Minor Mineral) in the mine of "Kohliwala Block/YNR B-21 & 22" with production capacity of 2,50,000 TPA (ROM) in mine lease area of 13.59 Ha. The mine lease area is located at Tehsil-Chhachharauli, District- Yamuna Nagar, Haryana. The lease area lies in outside River Bed of Yamuna. The Latitudes and Longitudes of mine lease area are 30°15'34.8", 30°15'42.1", 30°15'38.2" and 30°15'34.6" N & 077°30'08.1", 077°30'17.0", 077°30'19.8" and 077°30'13.0" E respectively, in Block B-21 and 30°15'32.0", 30°15'26.5", 30°15'18.2" and 30°15'26.5" N and 077°30'25.4", 077°30'38.2", 077°30'37.0" and 077°30'25.3" E in Block B-22, respectively on toposheet (OSM) number H43L8, H43L7, H43L11, H43L12. The Project is located in seismic zone-IV. It is Category 'A' project as the site is located at 3.59 Km distance in East direction from Haryana and Uttar Pradesh inter-state boundary.

The proposed project is an open-cast mining project, confined to excavation of Sand Mine from the proposed site. The mining operation will be done by mechanized method. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to M/s Delhi Royalty Company by Director of Mines & Geology, State Govt. of

Haryana, Chandigarh vide letter no. DMG/HY/cont/Kohliwala Block/YNR B-21 & 22/2015/3931 dated 19/06/2015. Letter of intent for mine lease area is 08 years.

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) except Kalesar Wildlife Sanctuary 6.5 Km towards North-east direction. The total water requirement is 25 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 7.00 Crores.

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

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

(2.78).Boulder, Gravel and Sand (Minor Mineral) in the mine of "Narainpur Block/PKL B 19" with proposed production capacity of 12.15 Lakhs TPA (ROM) by M/s Pinjore Royalty Company, located at Narainpur Block/PKL B 19, Village- Narangpur, Shahpur, Raipur Rani, Tehsil Raipur Rani, District Panchkula, Haryana(MLA-32.63ha)(Consultant ENVIRTA Sustainable Solutions)-TOR

The Proposal of M/s Pinjore Royalty Company is for Boulder, Gravel and Sand (Minor Mineral) with proposed production capacity of 12.15 Lakhs TPA (ROM). The mine is located at village Narainpur, Shahpur, Raipur Rani in Tehsil-Raipur Rani, District-Panchkula, Haryana. It is category 'B' Project and was considered in Ministry as the tenure of SEIAA Haryana has been expired. The Geographical Co- ordinates for the mine site are Narainpur- Latitudes: 30° 36' 24.26", 30° 35' 56.74" N & Longitude : 77° 1' 59.28" , 77° 2' 47.93" E, Shahpur- Latitudes: 30° 35' 49.02" , 30° 36' 28.60" N & Longitudes : 77° 1' 1.80" , 77° 1' 52.82" E, Raipur Rani- Latitudes: 30° 35' 44.62" , 30° 35' 42.43" N & Longitudes : 77° 0' 42.93", 77° 0'

50.57" E. The mine site falls on Survey of India Toposheet no.- H43L2. The project site lies on Dangri River and their tributaries/Nala in Panchkula, Haryana.

The total lease area of the Project is 32.63ha. LOI for the Mining Lease of Narainpur BLOCK/PKL B 19 was awarded to Pinjore Royalty Company on 09/06/2015. The Project Proponent reported that no National Park, Wildlife Sanctuary and other eco-sensitive area are located at a distance of 10 Km from the mine blocks. There is no Forest land within the ML Areas. The operation will be opencast semi mechanized method. The minerals will be collected in its existing form. Excavation will be carried out only up to a depth of 3m bgl. Extraction of sand material will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 24.41 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. The total cost of the Project is Rs. 1.1 Crores. The cost for Environmental Protection Measures is 5.50 Lacs.

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

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

(2.79).Mining of Boulder, Gravel & Sand (Minor Mineral) from mines/queries of "Yamunanagar-Bailgarh North Block-1" with production capacity of 2.14 Million TPA (ROM) in lease area of 44 ha by M/s Calleis Realtech Private Limited, located at Bailgarh Village, Chhachhrauli Tehsil, District-Yamunanagar, Haryana (44.0ha)-(Consultant: Greencindia Consulting Pvt. Ltd.)-TOR

The proposal of M/s. Calleis Realtech Private Limited is for Mining of Boulder, Gravel and Sand (Minor Mineral) in the Mines/quarries of "Yamunanagr-Bailgarh North Block-1" with production capacity of 2.14 MTPA in total mining area of 44.0 ha. The mining area is located at village Bailgarh in Chhachhrauli Tehsil of Dist.

Yamunanagar in Haryana State. It is a river bed mining project and the mining area lies in the riverbed of Yamuna River. The Latitudes and Longitudes of mining area are 30°14'03.8" to 30°14'40.7" N and 77°30'35" to 77°31'1.7" E respectively on toposheet number H43L12. The Project is located in seismic zone-IV. It is a Category 'A' Project as the MLA is located towards 0.5 Km interstate boundary of Haryana and Uttar Pradesh.

The proposed project is a boulder, gravel and sand mining project, confined to excavation of bolder, gravel and sand from the proposed mine lease site. The operation will be semi-mechanized with use of JCB, excavator, Trippers/Trucks etc. Excavation is proposed to be carried out up to a maximum depth of 3 m in the river bed. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The operation will be semi-mechanized with use of JCB, excavator, Tippers/ Trucks etc. The Letter of intent has been issued to M/s Calleis Realtech Private Ltd by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/Cont/B.Garh North Block/YNR B-1/2015/3910 dated 19.06.2015. Life of mine is 7 years.

Proponent reported that the Kalesar Wildlife Sanctuary & Kalesar National Park are located 8.0 km & 9.3 km from the proposed mine lease area in NNE direction. Hence NBWL approval is required for this Project. The Reserve Forest and Protected Forests exist within the study area namely Bhurchi Bali RF, Mujahidwala PF, Naushera RF, Deodhar PF, Chuharpur PF, Khazrabad PF, Rayanwala PF, Nagal Patti Milak PF, Khizri PF, RF near Faizpur Village and Urjani PF respectively. Total water requirement for the proposed project is 20.0 KLD i.e. including drinking, domestic, dust suppression and green belt development which will be met from nearby villages. Total project Cost is Rs. 30.01 Crores.

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

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

present land use in the study area; and (v) Details of excavation schedule & sequential mining plan.

(2.80). Didwara Stone Boulder Mine of M/s Shri Ravikant Chaurasia located at Khasra No. 1215/1, Village – Didwara, Tehsil – Laundi, District – Chhatarpur, State – Madhya Pradesh-TOR

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

(2.81). J-11015/233/2015-IA-II(M) Colour Granite Mine of M/s. Vajja Manjula located at village Savarampuram, Nandigam mandal, Srikakulam District, Andhra Pradesh. (9.0 ha) (Capacity 3472 m³ /annum) (Consultant: Sri Sai Manasa Nature Tech (P) Limited, Hyderabad).

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

(2.82). J-11015/236/2015-IA-II(M) Singhal Steels Pvt. Ltd. of M/s Singhal Enterprises Private Limited located at Kewtadih & Tanghar Villages, Masturi Tehsil Bilaspur District, Chhattisgarh (187.361 Ha.).

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

(2.83). J-11015/240/2015-IA-II(M) Lakhharshi Bauxite Mine of M/s Hindalco Industries Ltd located at Village-Lakhharshi, Tehsil-Kashipur, Dist-Rayagada, Odisha (237.632 Ha.).

The Proposal of M/s Hindalco Industries Ltd for Lakhharshi Bauxite Mine is located at Village-Lakhharshi, Rogapadar, Chiliguda, Kangatumba, Bhandapai, Kalagaon and Lalingpadar, Tehsil-Kashipur, District Rayagada, Odisha. The proposal is for opening of a new mine for production 0.3 million TPA of bauxite. The Mine lease area is 237.632 ha, which include 117.572 ha of forestland for which forest diversion proposal has been submitted. The production of Bauxite @ 0.3 MTPA (ROM) over Mining lease area is 237.632 Ha. The Geographical Co-ordinates for the mine site are Latitude- 19°24' 39.568" to 19°25' 57.08" N & Longitude-80° 07' 38.636" to 80° 09' 7.605"E. The mine site falls on Survey of India Topo sheet no 65M/3. Mine working will be opencast mechanized. Ultimate working depth will be 6 m bgl. Water requirement is 20 KLD and will be obtained from nearby nallah. Life of mine is 20 years.

The area under study forms a part of the Eastern Ghat hill ranges. The top surface of the plateau is flat to gentle slope in nature. The average elevation of the plateau is more than 100m above msl. The prospecting license has been approved by State Govt. vide letter no. II(BX) (SM) 13/01-3352/SM, Bhubaneswer dated

07.05.2004. The PP informed that earlier TOR was granted by MOEFCC on 07.07.2012 vide letter no. J-11015/208/2011-IA.II(M). The draft EIA report was submitted to the OSPCB on 10.12.2012 for public hearing. The public hearing could not be undertaken due to local law and order situation.

It was reported by PP that there is no National Park, Wildlife Sanctuary, Tiger/Elephant Reserves within 15 km radius of the mine site. The capital cost of project is 19.2 Crores and CSR cost 100.2 lakh will be spent in 5 years after start of the production. There is no Court case/ litigation pending against the Project.

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

(2.84). J-11015/248/2015-IA-II(M) Sand Mining Project of M/s Singh And Giri Infrastructure Pvt. Ltd. at Village- Narayanapur, District-Paschim Champaran, Tehsil - Bettih (Bihar) (90.67 Ha).

The proposal of M/s Singh & Giri Infrastructure Private Limited is for Mining of sand from river Bhuraha, Gandak & Bansi River of District Pashchim Champaran. The mining Lease is located on the dry river bed of River Gandak & Bansi as Stretch-1, Bhuraha River as Stretch-2 of District- Pashchim Champaran. The Letter of Intent has been issued by District Collectorate of Pashchim Champaran vide date 31.12.2014 for 5 years. Mining Lease consists of two river stretches, Stretch-1 consist of 10 Ghats on Gandak & Bansi River namely Semralabedaha (G-1), Dumaulia Narayanpur(G-2), Parsauni(G-3), Sauraha(G-4), Dhanaha(G-5), Baijua Alpaha(G-6), Baluhi Khairwa (G-7), Machhaha-Chilwaniyan (G-8), Binaki(G-9), Khaira(G-10) & Stretch-2 consist of 29 Ghats on Bhuraha River namely Songadhwa (Pipra)(G-11), Bairia(G-12), Bhelwa Bahuari(G-13), Dhanarpa(G-14), Kunriya(G-15), Kunriya(G-16), Barwa Singhaha(G-17), Barba Kalan(G-18), Barba Kalan(G-19), Mainahamothia(G-20), Bhelahi(G-21), Nautanwa(G-22), Kunai Lachhamipur(G-23), Mandarahni & Churiharwa, Bhaironganj, Bhaironganj Bholapur, Churiharwa(G-24), Parsa-Mahui(G-28), Hardi-Shahjahanpur(G-29), Hardi(G-30), Pindari(G-31), Sithi(G-32 & G-33), Maguraha(G-34), Gaunaha(G-35), Vishunpurva- Gawanaha(G-36), Parsauni, Purainiya & Banbarariya(G-37), Biranchi(G-38), Innarwa & Bhangaha(G-39) and off-stream mining consists 6 Ghats namely Kataiya(Semraha) (G-40), Madhubani(G-41 & G-42), Barwa(G-43), Taulaha (Shamsherwan)(G-44), Majharia Sheikh(G-45) of district Pashchim Champaran. The project is open cast manual mining of Sand. The mine lease area falls on Survey of India Toposheet no. 63M-15, 63M-16, 72A-3, 72A-4, 72B-1, 72A-7, 72A-8, 72B-6, 72B-9, 72B-10, 72A-11, 72A-12. Stretch 1st lies between Latitudes 27° 9'12.26"N ; Longitudes 83°58'52.24"E to Latitudes 26°40'58.64"N; Longitudes 84°20'42.87"E and Stretch 2nd lies between Latitudes 27°19'20.36"N ; Longitudes 83°57'57.68"E to Latitudes 27°9'28.57"N; Longitudes 84°40'55.11"E. The Project is located in Seismic Zone-IV. Approx.200 manpower will be employed for the proposed project.

The total sum of all Ghats mine of lease area is 90.67 ha which is classified as Govt. land. The total water requirement is 8.0 KLD for dust suppression and green belt development, which will be made available through private tankers and 2.0 KLD Drinking water will be made available through private tankers.

The capital cost of the proposed project will be approx. Rs. 150 Lakhs. Some of the project site are located within 10 km from the Indo-Nepal Border as:- Approx. 6.8 km towards NEN from Pindari (G-31), Approx. 8km towards North from Sithi (G-32), Approx. 10 km towards North from Sithi (G-33), Approx. 5.5km towards North from Maguraha (G-34), Approx. 6.5 km towards North from Gaunaha(G-35), Approx. 7.5 km towards North from Vishunpurva- Gawnaha(G-36), Approx. 5.19 km towards East from Parsauni, Purainiya, Banbarariya (G-37), Approx. 7 km towards East from Biranchi (G-38), Approx. 0.15 km towards East from Innarwa & Bhangaha (G-39). UP-Bihar Interstate boundary is within 10 km of some of the project site as:- approx. 2 km towards WN from Semralabedaha (G-1), Approx. 5.5 km Towards SW from Dumaulia, Narayanpur (G-2), Approx. 2 km Towards WS from Parsauni (G-3), Approx. 1.5 km Towards West from Sauraha (G-4), Approx. 7.5 km Towards SWS from Dhanha (G-5), Approx. 0.5 km Towards South from Baijua Alpaha (G-6), Approx. 1.5km Towards South from Baluhi Khaira (G-7), Approx. 2.5 km Towards SW from Baluhi Khaira (G-8), Approx. 0.2 km Towards South West from Binaki Khaira (G-9), Approx. 0.1 km Towards East from Khaira (G-10), Approx. 3.5 km Towards WS from Songadhwa (Pipra) (G-11), approx. 6.5km towards west from Kataiya (Semra) (G-40), approx. 6 km towards West from Madhubani (G-41), approx. 7 km towards West from Madhubani (G-42), Approx. 1.5 km Towards NW from Taulaha (G-43), Approx. 0.2 km Towards West from Barwa (G-44).

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

(2.85). J-11015/153/2011.IA.II(M) Achhround River Bed Sand/Murrum Mine with production capacity of 0.18 MTPA of M/s Shri Prakash Chandra Dwiwedi at Village Achhround Tehsil, Banda, district Banda, Uttar Pradesh (68.29ha)ENVIRTA Sustainable Solutions.

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

(2.86). J-11015/152/2011-IA-II(M) Kanwara River Bed Sand/Murrum Mine with production capacity of 0.18MTPA of M/s Shri Prakash Chandra Dwiwedi and Shri Amitesh Kumar at Village Kanwara, Taluka Banda, District Banda, Uttar Pradesh (78.69ha) ENVIRTA Sustainable Solutions.

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

Amendment of Environment Clearance

(2.87). J-11015/208/2006-IA-II(M) Boria Tibbu Iron Ore Mines of M/s Godawari Power and Ispat Ltd. at Village Boria Tibbu, Tehsil : Mohala, District-Rajnandgaon, Chhattisgarh (7.05 Lakh TPA; 110 ha).

The proposal no. IA/CG/MIN/26356/1900 is for Boria Tibbu Iron Ore mine of M/s Godawari Power and Ispat Ltd. at Village Boria tibbu, tehsil: Mohala, District Rajnandgaon, Chhattisgarh for addition of Iron Ore Crusher of 7.05 TPA capacity. The Latitude and Longitude of the mine site 110 ha area is 20° 26' 10" to 20° 26' 40" N and 80° 55' 20" to 80° 56' 8" E, Toposheet No. 64D/15.

The environmental clearance was issued to the project vide letter no. J-11015/208/2006-IA.II(M) dated 31st January, 2007 for 7.05 lakh MTPA. The PP vide proposal no. IA/CG/MIN/26356/1900 dated 06.01.2015 and letter No. GPIL/Env/14-15/01 dated 03.03.2015 requested for following amendments:

Amendment in EC is proposed to install iron ore crusher of 2 no. x 150 TPH capacity in an area of 6400 sq. meter with screening facilities.

The proposal was considered in the EAC meeting held during May 27-29, 2015 and committee was of the view that the proposal shall be **brought back** to the Committee on submission of following details by the PP:

- i. The revised form-I shall be submitted.
- ii. A report on environmental implications of installation of the crushing and screening unit.
- iii. A certification from the IBM that iron ore crusher of 2 no. x 150 TPH capacities in an area of 6400 sq. meter with screening facilities was part of the mine plan earlier approved by IBM.
- iv. A certified compliance report of the EC no. J-11015/208/2006-IA.II(M) dated 31st January, 2007 from the Regional Office, Nagpur.

On submission of the information the proposal was considered in the present meeting. PP submitted the revised form-I and PFR, a report on environmental implications of the amendment. The PP submitted the approved mine plan wherein the installation of crusher has been mentioned. The certified compliance report of site visit dated 17.07.2015 from RO Bhopal was also submitted.

The Committee after detailed deliberations **recommended** the Proposal to amend the environmental clearance by incorporating the installation of iron ore crusher of 2 no. x 150 TPH capacity in an area of 6400 sq. meter with screening facilities.

(2.88). J-11015/235/2007-IA. II (M) Expansion of Mainpat Bauxite Mine (ML area 639.169ha) from 0.45 MTPA to 0.75 MTPA of M/s Bharat Aluminium Company Limited at villages Kesra, kudardih and Sapnadar, Sitapur Tehsil, Sarguja District, Chhattisgarh.

Mainpat Bauxite Mine is captive mines of Bharat Aluminium Company Ltd, Korba having ML area of 639.169 Ha situated at villages Kesra, Kudardih and Sapnadar, Tehsil Sitapur, Distt Sarguja, Chhattisgarh. The Environmental Clearance for expansion of capacity from 4.5 LTPA to 7.5 LTPA was granted by the MoEF for the period of two years on 17th September, 2008 under the EIA, Notification 2006 subject to compliance of certain specific conditions. On compliance of these conditions the aforesaid EC was further extended up to the lease period i.e. 8th July 2012. The letter was issued on 26.10.2010 extending the EC till the mine lease renewal along with amendments in certain conditions. The proposal of extension of EC was considered in EAC meeting held during June 26-28, 2013. It was informed to the Committee that there is no change in existing mine lease area, production capacity (7.5 LTPA) and mining technology.

The Committee deliberated the issues with regard to MoEF Notification dated 13th March, 2013. As per this notification, "No fresh Environmental Clearance would be required for a mining project or activity at the time of renewal of mine lease which has already obtained Environmental Clearance under this (S.O. 1533 (E) dated 14th Sept 2006) notification. In view of this, and also since there is no change in existing mine lease area, production capacity (7.5 LTPA) or mining technology, therefore the Committee recommended extension of EC till the life of mining or period of 30 years from date of issue of the present Environmental Clearance whichever is earlier. The matter was examined in the Ministry and it was decided to accept the recommendation of EAC and EC was extended till the life of mining i.e. 7 years from the date of issue of EC letter i.e. 17th September, 2008 vide order J-11015/235/2007- IA.II (M) dated 23rd September 2014.

In the instant proposal the PP has requested for extension of EC. The PP has got the lease of mines extended till 8th July 2042 in line with MMDR Amendment Act 2015. Copy of lease deed was submitted to the committee during the meeting. It was also informed by the PP that initial Forest clearance for the project was granted by MoEF vide letter dated 24th May 2000 and now as per the guidelines issued by MoEF & CC vide F No 11-51/2015-FC dated 1st Apr 2015 and 1st May 2015, the validity of forest clearance is co-terminus with the lease period granted in accordance to the MMDR Amendment Act 2015. Accordingly, Forest Clearance stands extended upto the lease period i.e. 8th July 2042.

Project Proponent requested for making suitable amendment in earlier order issued on 23rd September 2014, so that EC remains valid for maximum period of 30 years. The Committee deliberated the issues and recommended extension of EC for the period of 30 years from date of issue of the Environmental Clearance i.e. 17th September, 2008.

Amendment of TOR Proposals

(2.89). J-11015/159/2014-IA.II(M) Limestone Mine of M/ s Shree Cement Ltd. located near village Semaradih & Bharuwadhih, Tehsil Balodabazar, District Balodabazar Bhatapara (531.126ha) Chhatisgarh- (Expansion 4.8 Million TPA to 8.6 Million TPA).

The proposal is for opencast captive limestone mine of M/s Shree Cement Ltd. located near village Kachavaram & inuparajupalli, Mandal – Karempudi, District Guntur, AP. The latitude and longitude of the mine lease are 16°30'59" to 16°32'55" N and 79°43'03" to 79°44'04" E. The proposal was considered in the EAC meeting held during July 8-9th 2014 and TOR was prescribed vide letter no. J-11015/159/2014-IA.II(M) dated 12.08.2014.

The PP requested for following amendment to the TOR:

S. No.	Description	As per TOR	Amendment Requested
1.	Breakup of Lease area (531.126 ha)	454.404ha private land + 78.722ha Govt. land	452.404ha private land + 78.722ha Govt. land (as per mining plan)
2.	Co-ordinates	21° 36'6.72"N to 21° 37.2'32"N 82° 02'53.10"E to 82° 3'41.72"E	21° 34'36"N to 21° 37'06"N 82° 03'12"E to 82° 06'12"E (as per mining plan)
3.	Proposed colony in non mineral zone of mining lease	Undisturbed Area : 56.9ha	Undisturbed Area : 34.9ha Colony Area: 22ha

The Committee deliberated the issues and recommended the above mentioned amendment to the TOR.

(2.90). J-11015/125/2014-IA.II(M) Construction of new screening & beneficiation plant – II, slime disposal pipeline – 1&2, Tailing dam – 1&2 at Donimalai and Kumaraswamy Iron Ore Mines of M/s NMDC Ltd. located at District Bellary, Karnataka (10 MTPA).

The Proposal is for Construction of new Screening & Beneficiation plant-II, Slime disposal pipeline-1 & 2, Tailing dam-1 & 2 at Donimalai for Donimalai and

Kumaraswamy Iron Ore Mines of M/s. NMDC Limited, Bellary District, Karnataka state (10 MTPA). The Project is located between Latitude: 15⁰02' to 15⁰6'30" N and Longitude: 76⁰36' to 76⁰38'30" E. The Proposal was considered in EAC meetings held during 28-30th May 2014 and September 25-26, 2014. The TOR to the project was prescribed vide letter no. J-11015/125/2014-IA.II(M) dated 30.10.2014

The PP requested for following amendment to the TOR:

Infrastructure	Area (as per TOR)	Proposed revised area
Screening & Beneficiation Plant	13ha	13ha
Tailing Dam No. 1&2, tailing disposal pipelines, water pipeline from existing water treatment plant and other allied facilities.	26.32ha	62.92ha
Total	39.32ha	75.92ha

The Committee deliberated the issues and recommended the abovementioned amendment to the TOR.

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 Himmat Singh**
11. Representatives of **M/s. Markandeshwar Construction Co.**
12. Representatives of **M/s Shri Abhishek Chaudhary**
13. Representatives of **M/s Hindustan Zinc Ltd.**
14. Representatives of **M/s JK Lakshmi Cement Ltd.**
15. Representatives of **M/s Nandlal Kumar Gupta**
16. Representatives of **M/s Ganga Yamuna Mining Company**
17. Representatives of **M/s Yamuna Infradevelopers Private Ltd.**
18. Representatives of **M/s Northern Royalty Company**
19. Representatives of **M/s Madras Cements Ltd.**
20. Representatives of **M/s Tulsi Mines and Minerals**
21. Representatives of **M/s R.B. Mining & Company**
22. Representatives of **M/s Shri Ashu Singh Bhati**
23. Representatives of **M/s. Uttarakhand Forest Development Corporation**
24. Representatives of **M/s Tata Steel Ltd.**
25. Representatives of **M/s Shri Mangal Singh Solanki**
26. Representatives of **M/s Shri Mahendra Singh Rajawat**
27. Representatives of **M/s Sarv Shri Kuber Associates**
28. Representatives of **M/s Wimrock Granite Pvt. Ltd.**
29. Representatives of **M/s JSM Foods Pvt. Ltd.**
30. Representatives of **M/s Apar Mines Management Services Private Limited**
31. Representatives of **M/s Orient Abrasives Ltd.**
32. Representatives of **M/s Madaan Associates**
33. Representatives of **M/s Shiv Kumar Agarwal**
34. Representatives of **M/s Govind Raj**
35. Representatives of **M/s Shri Abhimanyu Choudhary**
36. Representatives of **M/s Shri Anil Joshi**
37. Representatives of **M/s AVJ Infrastructure Pvt. Ltd**
38. Representatives of **M/s Om Minerals**
39. Representatives of **M/s Sarv Surya Associates**
40. Representatives of **Shri Sanjay Kumar Garg**
41. Representatives of **Shri Vikramaditya Rathore**
42. Representatives of **M/s Rio Tinto Exploration India Pvt. Ltd.**
43. Representatives of **M/s Saharanpur Mines Management Services Pvt. Ltd.**
44. Representatives of **Sh. Jogender Singh S/o Sh. Mahinder Singh**
45. Representatives of **M/s Delhi Royalty Company**
46. Representatives of **M/s Pinjore Royalty Company**
47. Representatives of **M/s Calleis Realtech Private Limited**
48. Representatives of **M/s Hindalco Industries Ltd**

Representatives of M/s Singh and Giri Infrastructure Pvt. Ltd.

49. Representatives of **M/s Godawari Power and Ispat Ltd.**

50. Representatives of **M/s Bharat Aluminium Company Limited**

51. Representatives of **M/ s Shree Cement Ltd.**

52. Representatives of **M/s NMDC Ltd.**
