

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

SUMMARY RECORD OF 3rd MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The Third 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 February 23-25, **2016**. The list of participants is annexed.

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

Item No. 1:

(1.1). Circulation of the Minutes of the 2nd EAC Meeting

The Minutes of the 2nd Meeting of EAC held during January 20-22, 2016 were circulated.

Day 1: 23rd FEBRUARY, 2016 (TUESDAY)

(2.1).J-11015/156/2013.IA.II(M) Kalwar-Nagur Iron Ore Mine of Bhilai Steel Plant of M/s Steel Authority of India Ltd. over an area of 938.059ha with capacity 1.0 MTPA located at village Kalwar & Nagur, Taluk-Bhanupratappur, Kanker District of Chhattisgarh State (Consultant : ABC Techno Labs India Private Limited, S.No.2)

The Proposal is for opening of a new mines i.e. Kalwar-Nagur Iron Ore Mine of Bhilai Steel Plant (BSP) of M/s Steel Authority of India Ltd. over an area of 938.059 ha with capacity 1.0 MTPA located at village Kalwar & Nagur, Taluk-Bhanupratappur, Kanker District of Chhattisgarh State. The entire Mining Lease area is in Reserve Forest. The mining lease was granted to Bhilai Steel Plant on 01.04.1975 for 30 year over an area of 938.059 ha. The deposit is located in the Toposheet Nos. 64 D/15 and 64 H/3 between longitude 80°56'44 E 81°00'48" E and between latitude 20°25'00" N to 20°27,31" N.

The TORs was issued by MoEF&CC on 13.04.2007 and after conducting EIA/EMP study & Public Hearing on 24.02.2012. The EIA report was submitted to MOEF&CC on 16.07.2012. The proposal was put in the 8th meeting of EAC on 28th June 2013, while considering the proposal the Committee suggested applying to Ministry for reconsideration of the validity of TORs as it was 4 years old & asked to generate one month base line data. On application for validity of TORs & submission of revised report, the proposal was put before 10th EAC meeting held during August 21st -23rd, 2013. The EAC considered to granting fresh TOR which was issued vide No. J-11015/156/2013-IA.II (M) Dated 30.12.2013& it was requested to re-conduct Public Hearing.

The proposal is for opening of new mine with a capacity of 1 MTPA. The entire Mining Lease area of 938.059 ha is in Reserve forest at Kalwar and Nagur villages, Bhanuprathappur taluk, Kanker district, Chhattisgarh. It is at a distance of 111 km from Durg railway station. The site is accessible through road and Howrah-Bombay broad gauge line of S-E Central Railway passing through Bhilai. Rail network is also available within about 25 m from the proposed plant site. Out of 938.059 ha of mining lease area only 17 ha land is proposed to carry out the mining activities. The Forestry Clearance is granted by Ministry over an area of 17 ha vide no. F No. 8-3/1990-FC (Vol-1) New Delhi Dated: 07.01.2008. The breakup of land uses are (1) Area to be excavated- 10.570 Ha, (2) Storage for top soil- 0.200 Ha, (3) Overburden / Dumps-0.530 Ha, (4) Infrastructure (Workshop, Administrative Building & CSP)-0.500 Ha, (5) Roads- 0.200 Ha, (6) Green Belt- 5.00 Ha, (7) Undisturbed natural forest land-921.059 Ha.

The Mining Plan of Kalwar - Nagur Iron Ore Mining Lease has been approved by IBM, Nagpur vide letter No. 314(3)/2005-MCCM (CZ)/MP-36 Nagpur, dated 22.03.2007. The mining lease area is 938.059 ha. The highest RL of the block area is 720 mRL and that of lowest is 630. The mine will be worked by mechanized method with shovel tipper/dumper combination, with deep hole drilling. The drilling in overburden and ore will be carried out by drills capable of drilling 150 mm, in order to reduce the oversize boulders generated during the primary blasting, secondary blasting will be practiced. No reject sub-grade ore will be generated at the mine as the entire ROM ore will be sent for processing. The overburden will also be loaded by 3.0-3.5 m³ bucket capacity shovel in to the 25-30 T tippers and will be stacked at the non-mineralized ground earmarked for waste dump at the northern part of the mining block. The top soil will be used in afforestation area i.e. development of green belt and waste will be used for back filling of mined out benches.

Water will be required for domestic, sprinkling & afforestation purpose only. The consumption of water will be 50 KLD. The requirement of water will be

fulfilled from captive "Boridih Dam". The proposed mining activities will be conducted at the hill top; hence there will be no ground water intersection.

It was reported by the PP that there is no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves/Protected area/Critically Polluted Areas (existing as well as proposed) exist within 10 KM Radius. As per base line data & field study four schedule -I species found in the buffer zone for which The Site & Species specific conservation plan submitted to Wildlife Department Chhattisgarh on 17.03.2015. CCF (Wildlife) "Jagadapur" recommended the proposal on 30.10.2015. The approval from Chief Wildlife Warden, Raipur, Chhattisgarh awaited.

The baseline data were collected by consultant M/s ABC Techno Labs India Private Limited, Chennai during summer season (March-May'2014) & the Public Hearing was conducted on 20.06.2015. The final EIA/EMP report was submitted to MoEF vide letter no. BSP/MHQ/GM (Mines-Rowghat)/2015/1601, dated 23rd December, 2015. All the parameters for water and air quality were reported to be within permissible limits.

The Public Hearing for the proposed project was conducted at "Durgu-Kondol" on 20.06.2015. The Public Hearing was presided over by Shri M.L. Sirdary, ADM-Kanker district of Chhattisgarh state. The issue raised during public hearing were considered and discussed in details during the meeting, which inter-alia included that there will not be any type of discharge of effluent from the proposed project area, preventing the slit flowing into the agricultural land, air pollution control measures to be adopted, raising of trees through development of green belt in & around proposed area and sprinkling of water etc. As per villager's requirement, it was informed by the competent authority of M/s SAIL that the local employment, health service, education and assistance in vocational training etc will be taken care of as far as possible. These have been incorporated in the EIA/EMP report with budgetary provisions of Rs. 230 lakhs is also envisaged. The estimated cost of the project is 30.00Cr. It was reported that no court case relating to the proposed project is pending.

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

- (i) The valid mine lease/ LOI of the project is not available with the project a document from state government in this regard shall be furnished.

(2.2). J-11015/34/2014-IA.II (M) Limestone Mine of M/s SreeJayajothi Cements Ltd. located at Village – Palkur, Mandal – Banaganapalle, District – Kurnool, Andhra Pradesh. (149.392 ha)(0.40 MTPA) (149.392 ha)

The proposed mine site of My Home Palkur Limestone Mine is located at village Palkur, mandal Banaganapalle, district Kurnool, Andhra Pradesh. The total area of the mine falls under the Survey of India Topo sheet No. 57 I/3. The site falls between 15° 23' 57.3" to 15° 25' 00.8" N Latitude and 78° 11' 42.6" to 78° 13' 09.8" E Longitude with an average altitude of 270 m above MSL.

The proposal was considered by the Expert Appraisal Committee in its EAC Meeting held during March 20-21, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF&CC vide letter No. J-11015/34/2014-IA.II (M) dated 1st May, 2014. The proponent submitted its application for seeking environmental clearance after conducting public hearing to the Ministry online on 12.01.2016.

The mining lease was granted by Govt. of Andhra Pradesh vide Memo No. 8628/M.I (1)/2008 dated 23-11-2012. The entire mining lease area is a Govt waste land of **149.392 ha**. The Mining plan is approved by IBM letter No.AP/KNL/MP/Lst-139/Hyd dated 07/09/2015.

The Mining will be carried out by opencast mechanized method with the help of drilling, blasting and loading. A total quantity of 15,03,063 m³ of high silica Limestone (>18% SiO₂) and O.B (flaggy black stone) waste generation is anticipated. In addition about 2, 65,000 m³ existing flaggy quarry dump material will be re-handled from the area for extracting limestone. The O.B/Waste generated will be dumped in an area of 10.86 Ha, part of the dump material will be used for back-filling 1.93 Ha of mined out area.

The water required is estimated to be about 100m³/day, 95 m³/day of water will be drawn from the sump/ rain water harvesting pit of SJCL's running Mine at Yanakandla for dust suppression within the mines blasted muck pile, haul roads and for equipment maintenance and also for the proposed green belt development within the lease area. For domestic consumption about 5 m³/day of water will be obtained from factory water filtration Plant.

The mine workings will be above the water table. The deepest level to be reached will be 223 m RL and the ground water level is at 220 m RL. There will be no intersection of ground water table due to mining activity.

It was reported by the PP that there are no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves existing/proposed

within 10 km of the mine lease. There are no Schedule – I species recorded in the study area.

The baseline studies were carried out during winter season 2014-15 covering the months of December 2014 to February 2015. All the parameters for water and air quality were reported to be within permissible limits. The public hearing for the Proposed Project was conducted on 17.12.2015 at 03:00 pm at mine site in Village – Palkur, Mandal – Banaganapalle, District – Kurnool, Andhra Pradesh. The Public hearing was presided over by Shri Ch. Vijay Mohan, the Collector & District Magistrate, Kurnool District. 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.

SJCL will incur an amount of Rs 3.0 crores for producing limestone of 0.4 MTPA. An amount of Rs 50 lakhs is budgeted as capital cost and Rs.31 lakhs as recurring cost for implementation of Environmental Management Plan. SJCL has earmarked Rs 31.5 crores (combined for plant and mine) towards the Enterprise Social Commitment. It was reported by PP that there are no litigations pending against the project with direction /order passed by any Court of Law.

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

- (i) The valid mine lease/LOI of the project is not available in the EIA report document in this regard shall be furnished.
- (ii) Land use/category of the mine lease is not appropriately mentioned in EIA report.
- (iii) In the public hearing proceedings it is mentioned by Mr. Gundam Seshireddy that the management shall pay the compensation to the farmers who have given land to the mine. An explanation shall be given if mine lease is a govt. land why farmers are claiming for compensation.
- (iv) The application of EC includes the name of My Home Industries however the lease is in the name of M/s Sree Jayajothi Cements Ltd. the issue shall be clarified along with the document related to Company Structure of M/s Sree Jayajothi Cements Ltd.
- (v) The copy of approved mine plan/scheme shall be submitted.

(2.3). J-11015/338/2013-IA.II(M) Nandini Khudini Limestone Mines of M/s ACC Ltd. located at Village Nandini Khundini, Tehsil Dhamdha, District Durg, Chhattisgarh (53.57 ha; 0.15 MTPA to 1.03 MTPA)

The Jamul Cement Works of M/s ACC Limited proposed to increase the Jamul Cement Plant production Clinker to 3.0 MTPA and Cement to 3.0 MTPA. To meet the additional requirement of limestone, Nandini Khundini limestone mines, lease area 53.57 ha is proposed for commencement of mining operation by increasing the production capacity from 0.15MTPA to 1.03 MTPA.

The proposal was considered by the Expert Appraisal Committee in its EAC Meeting held during 12th November, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF&CC vide letter No. J-11015/338/2013-IA.II (M) dated 09th January, 2014. Earlier EC was issued for production capacity of 0.15 million TPA vide letter no. J-11015/237/2009-IA.II (M) dated 10.03.2011. The compliance report was submitted by regional office, Nagpur vide letter no. 3-10/2011(Env)/1176 dated 05.10.2015 stating that mining operations have not yet started.

The terrain of the area is flat, the Durg railway station is located about 21 km from Nandini Khundini mine. The mine is well connected to NH-6, which passes through Bhilai town at about 20 km away. Nearest airport is at Raipur which is about 70 km from mine site.

The mine plan has been approved by Indian Bureau of Mines, Nagpur under MCDR, 1988 vide Letter No. 314(3)/2012-MCCM(CZ)/MP-45 Dated 04.10.2013 in the form of approved Mining plan & Mine Closure plan. The Mining lease of 53.57 ha area was granted on 5thFebruary 2008 known as Nandini Khundini Limestone Mine. The area was partly mined out by SAIL during 21.7.1971 to 20.7.1991 period and then abandoned.

The mining will be carried out by open cast method of mining by Shovel Tipper combination and is mechanized. Drilling is done by deep hole track type drilling machine. Blasting is done by NONEL. Blasted material is loaded with hydraulic shovel and front end loaders into tippers and transported by 16 tons capacity tippers. General ground level in mining lease area, ultimate bottom level and ground water level is 280 m, 221 m and 254 m msl. The scheme of mining along with PMCP is approved by IBM for production enhancement. Overburden shall be stacked along the lease boundary. No explosive storage magazine, workshop, material storage shed, administrative building and diesel filling station will be established in Nandini-Khundini Mine. Facilities available at Patheriya-Ilime stone mine will be used in Nandini Khundini mine also.

It was reported by the PP that there are no ecologically sensitive area and archaeologically important places within 10 km radius of the mine site. There is no protected or reserve forest present within the 10 km radius of the mine site. Sheonath River and Amner river area the main surface water bodies present in the study area. Sheonath River is located about 3.5 km west of the mine site. Amner River is located about 6.5 km in southwest direction. About 20 kl/day water will be required for the project. This water requirement would be met from existing rainwater harvesting pits located within the lease area.

Baseline data was generated during the period 1st March 2014 to 31st May 2014. 10 km area around the mines boundary was considered as study area. All the parameters for water and air quality were reported to be within permissible limits. The public hearing for the Proposed Project was conducted on 19.03.2015 at 11:00 am at mine site in Village Nandini Khundini, Tehsil Dhamdha, District Durg, Chhattisgarh. The Public hearing was presided over by Shri Sunil Jain, Additional District Magistrate, Durg District, Chhattisgarh. 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 social development of village. The major concern of the villagers was that Drainage and Canals passing through mine lease may get affected, Mine lease area land is being used for Grazing, Funeral and the repairing of main road from Nandini Khundini, School will get affected by Blasting for the mines.

The estimated cost of the project is Rs. 15 crores. Project will create the direct employment for 32 people. It would also generate indirect employment.

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

- (i) The complete EIA report along with mine plan shall be uploaded on the MoEFCC website.
- (ii) The Questionnaire needs to be submitted and uploaded on the website.
- (iii) The Action Plan along with budgetary provision on the issues raised during the Public Hearing shall be submitted.
- (iv) The major concern of the villagers was that Drainage and Canals passing through mine lease may get affected, Mine lease area land is being used for Grazing, Funeral and the repairing of Main Road from Nandini Khundini and a school will get affected by Blasting. A detailed report with measures to be adopted in this regard shall be submitted.
- (v) The list of species selected for plantation in green belt includes the

invasive alien species. A revised list of fruit bearing/medicinal native species beneficial to the locals shall be submitted. The list shall also clearly mention the benefits of each species to the locals.

(vi) The copy of approved mine plan/scheme shall be submitted.

(2.4). J-11015/245/2012-IA.II (M) Kanvara Sand/Moram Mining Project of M/s Sri Somesh Bharadwaj for renewal of mining lease of Sand/Moram extraction of 7 lacs TPA (122.81 ha) at village Kanvara, Bhuredi & Chilehata, District Banda, Uttar Pradesh.

The proposal of M/s Somesh Bharadwaj, is for mining of Sand (Minor Mineral) with proposed production capacity of 7, 00,000 TPA (ROM). The mine lease area is located at Village- Kanvara, Bhuredi & Chilehata, District: Banda, Uttar Pradesh in the mine lease area of 122.81 ha. The mine lease area lies on river bed of River Ken. The lease area lies on River Ken. The co-ordinates of Mine Lease area are- Latitude: 25°29'11.48" N to 25°30'30.90" N, Longitude: 80°18'40.03" E to 80°17'30.31" E on Survey of India toposheet numbers 63C06, 63C07 (site), 63C02 & 63C03.

The proposal was considered by the Expert Appraisal Committee in its meeting held on 21st- 23rd November, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEFCC vide letter no. J-11015/245/2012-IA.II (M) dated 19th August, 2014. The Proponent submitted the final EIA/EMP Report online to Ministry for seeking environmental clearance on 22nd January 2016.

The mine lease area is 122.81 ha which is on River Ken. The Lease is granted for a period of 3 Years from 24-12-2009 to 23-12-2012 over an area of 122.81 ha. The Proponent has also applied for Renewal of Mine Lease on 15-05-2012. The Mining Plan is approved by Director, Geology and Mining, Uttar Pradesh with vide letter no.1578/MP/15 dated 22.12.2015.

Method of Mining is manual opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and not less than two meter from the ground water level of the River Chanel whichever is reached earlier. Proponent informed that 80.42 ha area will be used for excavation. The site elevation is 104m AMSL. The Ground water depth is 5.75 -26.95 m bgl in pre-monsoon season and 4.4 - 22.5 m bgl in post-monsoon season. The total water requirement is 5.91 KLD including water demand for domestic purpose and dust suppression 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.

The Project Proponent reported that Mining will be done up to 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 10% 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.

The mineral will be transported through road. Project Proponent has made the Traffic Analysis survey and reported that no. of trucks will be deployed 140 per day (20 tonnes capacity each) which increase 1260 PCUs per day (Considering both loaded and empty trucks) and the level of service (LOS) is "A" which is 'Excellent' in all the cases. 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 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 baseline data was generated for the period during October 2014 to November 2014. All the parameters for water and air quality were within permissible limits. The Committee deliberated the baseline data collected by the Project Proponent. All the parameters for water and air quality were reported to be within permissible limits. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the dry part of the River bed and there is no establishment on the site.

The Public Hearing for the proposed Project was conducted on 01.08.2015 at 3:00 pm at Village- Chilehata, District -Banda, Uttar Pradesh. The Public hearing was presided over by Shri D.S Pandey, ADM, Banda, Uttar Pradesh. 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, treatment responsibilities in case of injury. An action plan with budgetary provisions has been submitted.

The cost of the Project is Rs. 60 lakhs. The Proponent has earmarked Rs. 26.50 Lakhs (Rs. 10 Lakhs as Capital Cost & Rs 16.5 Lakhs as Recurring Cost) towards Environmental Protection Measures. Proponent informed that Rs. 3 lakhs per annum have been earmarked towards CSR activities for

next 3 years of mining operation. There is no litigation pending against the case.

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

- (i) The revised EIA report along with mine plan shall be uploaded on the MoEFCC website.
- (ii) A detailed replenishment study shall be submitted.
- (iii) The feasibility of manual mining in achieving the production of 7 lakh TPA and its environmental implications.

AMENDMENT OF ENVIRONMENT CLEARANCE

(2.5). J-11015/59/2014-IA.II (M) Mining at Sand (Minor Mineal) in "Panipat Unit-3" with proposed production capacity of 7.0 million TPA of Sand (ROM) by M/s Jai Karan, located at Village – Rakshera, Kakroli&Mahaoti, Tehsil – Samalkha, District – Panipat, Haryana (780.80 ha.)

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

(2.6). J-11015/58/2014-IA-II(M) Sand Mining for Karnal Unit 4 of M/s Jai Yamuna Ji Developers located at villages lalupura, Pirbadauli, Sadarpur, MundaGarhi, Bhaholpur, Barsat &Faridpur, Tehsil Gharaunda, District – Karnal, Haryana (1199 Ha.)

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

(2.7). J-11015/283/2012-IA-II(M) Mining of renewal of mining lease of niduzuvvi limestone mine with production capacity of M/s The India Cements Ltd. located at Village Niduzuvvi, District Kadapa, Andhra Pradesh of 1.00 MTPA (335.06 ha)

The proposal was withdrawn from the list of cases and was not placed before EAC thus it was not considered by EAC.

AMENDMENT OF TOR

- (2.8). J-11015/277/2012-IA. II (M) Palakhada Mining Project from 9029 TPA to 76520 TPA of Bauxite by M/s Saurashtra Minerals Pvt. Ltd., located at Village Palakhada, Tasil and District Porbandar, Gujarat.**

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

- (2.9). J-11015/408/2012-IA.II(M) Captive Limestone mine with proposed production capacity of 0.50 MTPA; 115.33 ha of M/s Dalmia Cement (Bharat) Ltd., Near Village Yadwad, Taluk Gokak, District Belgaum, Karnataka. (extension of validity of TOR)**

The mine area is located between Latitudes 16°11'34.52" N-16°12' 51.19 N" and Longitudes of 75°12' 8.48E" - 75°12'38.79E"Near Village Yadwad, Taluk Gokak, District Belgaum, Karnataka. The TOR to the proposal was issued vide letter noJ-11015/408/2012-IA.II(M) dated 21.11.2013.

The proposal is for extension of validity of TOR. Extension of validity of TOR was requested as the land acquisition is not complete and delay in obtaining EC of the mine lease I and delay in setting up of associated cement plant. The final EIA/EMP report is yet to be submitted. The PP requested for extension of validity of TOR to the outer limit for further two years.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for two year i.e. from **21.11.2015 to 20.11.2017**.

- (2.10). J-11015/68/2010-IA-II(M) Guma Limestone mine with production capacity of 3.2 MTPA of M/s Ultra Tech Cement Ltd. located at Village Guma, District Raipur, Chhattisgarh (157.122 ha) (extension of validity of TOR)**

The proposal is of M/s. UltraTech Cement Ltd. for Guma Limestone Mine (M.L. Area – 157.122 ha) with Production Capacity of 3.2 MTPA. The mine lease is located at Village–Guma, Tehsil – Palari, District Balodabazar-Bhatapara (Chhattisgarh). The Latitude and Longitude of the site falls between 21°34'30"N to 21°37'30"N and 82°03'00"E to 82°06'30"E respectively.

The proposal is for extension of validity of TOR. The Ministry had issued TOR to M/s. UltraTech Cement Ltd. vide letter no J-11015/68/2010-IA.II (M) dated 16.09.2013. Extension of validity of TOR was requested for one year as final EIA/EMP report is yet to be submitted for the project due to delay in conduction of 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 **16.09.2015 to 15.09.2016**.

CONSIDERATION OF TOR PROPOSALS

(2.11). Sand mining project of M/s Broadson Comodities Private Limited located at Village Pipapur, Tehsil Patna Rural (a) Patna Rural (b), District Patna, State Bihar.(1253.6 Ha). IA/BR/MIN/34197/2015

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

(2.12). Sand mining project of M/s Broadson Comodities Private Limited located at Village Bhojpur, Tehsil Arrah, District Patna, State Bihar (711.0 ha.). IA/BR/MIN/34205/2015

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

(2.13). Chhotedongar Iron Ore Mine of M/s. Shri Bajrang Power and Ispat Ltd located at Forest Block No. 252, 267, 268, 269 of Village – Chhotedongar, Narayanpur Forest Range, District – Narayanpur (Erstwhile Bastar District), Chhattisgarh (57Ha) IA/CG/MIN/34299/2015

M/s Shri Bajrang Power and Ispat Ltd, Raipur intends to excavate 3,00,960 TPA iron ore from the Chhotedongar iron ore deposit located in forest block No. 252, 267, 268, 269 in village Chhotedongar, Forest Range Narayanpur, District - Narayanpur (Erstwhile Bastar District) over an area of 57 Haby opencast mechanized method of mining.

This is an interlinked project. The Iron ore produced from Chhotedongar Iron Ore mine lease area would be utilized by project proponent for their existing Integrated Steel Plant located at Tandwa Village, Tilda Tehsil, Raipur District, Chhattisgarh. The Mine lease area falls under Survey of India Toposheet no. 65 E/7 and lies between Latitudes

19°24'12.5" to 19°24'51.4"N & Longitudes 81°16'58.6" to 81°17'31.9" E.

The Chhattisgarh State Govt. has issued a letter of intent for Lease Grant for Chhotedongar iron ore deposit in village Chhotedongar, Forest Range Narayanpur, District - Narayanpur (Erstwhile Bastar District) over an area of 57 Ha in favor of M/s Shri Bajrang Power & Ispat Ltd, Raipur, vide letter No. F-3-23/2010/12, Naya Raipur, dated 24/12/2014. Entire mine area is forest land and Forest Clearance is under Process (MoEF File No. FP/CG/MIN/11479/2015; Area: 57 ha).

The lease area is part of southernmost hilly terrain of Chhotedongar Reserve Forest. The entire applied lease area is on the hillock; the highest contour level is 960 mRL on the centre and gradually reduced in all directions having lowest contour level of 830 mRL. The general ground level is about 500 mRL. About 146 persons will be employed in the mine. Apart from these, there will be indirect employment opportunities for more than 100 persons in contractual works and service sectors.

A total quantity of 6,12,675Cum BHQ/waste rocks will be generated during plan period which will be dumped over an area of 2.94 ha. The OB/BHQ will be transported to the north western side of the lease area and dumped having about 25 m height with 5 tire dumping. The waste dumps will be developed as per the DGMS guidelines. Proper terracing will be ensured and overall dump slope will be maintained below 28°. Inactive dump slopes will be stabilized by planting native grasses and legumes. Retention wall and garland drains will be constructed around the toe of the dumps to arrest rolled down boulders and silt wash off.

The total water requirement is about 53 KLD for dust suppression, plantation and domestic use. This will be met initially from bore well and rainwater harvesting pit in future. The general ground water level is 5-8 m bgl from general ground level i.e. 500mRL; The lease area is located on a hillock having highest contour level 960 mRL and lowest contour level 830 mRL.

The 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 cost of the project is estimated at Rs. 1200 Lakh. It was reported by the PP that there is no court case/litigation pending against the project.

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

Standard TOR for undertaking detailed EIA study as per **Annexure-I**.

- (2.14). Sand Mining Project on River Son of M/s Aditya Multicom Pvt. Ltd., located at Batane & Punpun in Aurangabad district, State Bihar. (390.33ha). IA/BR/MIN/34731/2015**

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

- (2.15). Sand Mining Project on Son River (as stretch-1) of M/s Aditya Multicom Pvt. Ltd. located at District Rohtas, State-Bihar (Area-246.9 ha). IA/BR/MIN/35160/2015**

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

- (2.16). Zarivav, Khokharbilly, Koteswar & Chikla Marble Mining Project of M/s Hindustan Marble Private Ltd. located at near Village - Zarivav, Khokhar Billy, Chikla & Koteswar Taluka - Danta, District - Banaskantha, State-Gujarat, (Area-51.0109 ha)IA/GJ/MIN/38101/2016**

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

- (2.17). Kachurwahi - Wadegao Manganese Ore Mining Project of M/s Veet Rag Homes Pvt. Ltd. (VRHPL) located at village Kachurwahi - Wadegaon in Ramtek Tehsil, Nagpur District, State Maharashtra (Area78.5 ha).IA/MH/MIN/34725/2015**

M/s Veet Rag Homes Private Limited (VRHPL) has been granted a 78.5 ha manganese mine lease near village Kachurwahi Wadegaon in Ramtek Tehsil of Nagpur District by State Government. The lease period is 30/06/2003 - 29/06/2053. Lease comprises of both waste and private agricultural land. The Latitudes and Longitudes of the mine site 78.5 ha area are 21° 19' 50.507",to 79° 23' 48.303" N, 21° 19' 33.630" to 79° 23'07.937" E, 21° 19' 33.982" to 79° 23' 20.535" W and 21° 19' 21.360"to 79° 23' 35.752" S and top sheet6 no. 55/7.

The land is private and will be procured by direct negotiations. Area is plain, with average elevation of 330 m above MSL. Slope is towards NE. Main drainage is by the River Sur, approx 2.5 km in N-NE direction.

Mining plan and progressive mine closure plan has been approved by IBM, Nagpur vide their letter no. NGP/LST/MPLN-798/NGP dated 21-10-2015. Mining plan period is 2013 to 2018. Open cast and underground mining by "other than fully mechanized" (OTFM) "A" is proposed. Tree felling will not be required. Existing pits and dumps will be worked. Deposits within this lease are in the form of float ore/ dumps and also in-situ.

It was reported by PP that simultaneous OC and UG mining is possible in the lease. Ore will be manually sorted at the site. Associated OB/ waste would be backfilled in the same area. Ore sorting will be manual. OC mining will be practiced for "dump working" and float ore/residual deposits and in western portion lying within the lease. Drilling and/or blasting will be required during dump working. UG workings will be taken up during the first year of the mining scheme period. The Underground mining will be developed for three years. Mode of entry will be by a vertical shaft with safety gadgets up to 150 m.

Water requirement will be only for drinking and for dust control. About 10 m³/day of water requirement is anticipated. Total manpower for the direct employment is likely to be 131 out of which about 100 persons will be from the locals. Indirect employment is also likely for mining-related trades like transportation. The estimated cost of the project is 500 Lakhs.

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

(2.18). Sakhari Bauxite Mine of M/s Ashapura Minechem Limited located at Sakhari Village, Mandangad Taluka, Ratnagiri District, Maharashtra. IA/MH/MIN/34164/2015

M/s Ashapura Minechem Limited has proposed for Mining over an area of 62.77 Ha in the Survey Nos / Gut Nos. Part of the 4,5,6,7 & 8 in Sakhari Village, Mandangad Taluka of Ratnagiri District of Maharashtra State to mine the Bauxite. The latitude and longitude of the site are 17°56'46.61"N to 73° 3'49.70"E and 17°56'07.47"N to 73° 4'02.51"E.

Prior approval of Government of India is obtained under Sec 5(1) of MMDR Act, 1957 vide Letter No. 4/73/2004-MIV dated 3-7-2009. The Mining Lease has been granted by Government of Maharashtra vide letter No MMN-1004/C.R. 654/IND-9, dated 12-08-2009.

The mine will be operated by opencast mechanized method of mining. The mining operations involve drilling and blasting using control blasting technology. The proposed Bauxite production is upto a tune of 1,20,000 tonnes per annum. The Sakhari Bauxite Mine of M/s Ashapura Minechem Limited is extended over an area of 62.77 ha in the Survey Nos / Gut Nos. Part of the 4,5,6,7 & 8 in Sakhari Village, Mandangad Taluka of Ratnagiri District of Maharashtra State.

The mine lease area is 62.77 ha which is in a private non-forest waste land. There is no forest land in the lease area. The Mining plan was approved by IBM vide letter No. MP/OTF.MECH-61/(MAH)/GOA/2011-12 dated 26.11.2011. Mining plan was modified & approved by IBM vide letter No. MP/MECH-61(MAH)/GOA/ 2011-12 Vol. I dated 26.11.2015. Open cast mining method will be adopted to operate the area. Since, the maximum annual production is 1,20,000, TPA with fully Mechanized mining method will be followed. The life of the mine with proposed production will be 6 years.

The total water requirement for the project is estimated as 12 KLD. It was reported by the PP that the applied area is waste land and covered with shrub vegetation. The terrain is sloping towards south. A public road is passing at the south part of lease area. No human settlement within or in the vicinity of the applied area. The nearest village is 0.5 km. The highest and lowest elevation in the area is having an elevation difference of 195.5 (i.e. 210.5 m and 15.0 m respectively).

The drainage pattern of the buffer zone is dendritic to sub dendritic in nature. No perennial nallahs or streams are seen within the applied area. The area is covered by local shrubs, and bushes. The area experience humid tropical climate and receives as much as 4000mm of rainfall during the year. The ultimate depth of mining will be 4m from the surface level. The mining activities will not intersect ground water table. The rain water accumulated in the existing pit during monsoon will be naturally drained in a couple of days.

It was reported by the PP that there is no wildlife sanctuary/tiger reserve/national park, etc within the 10 km radius area around the mine lease. The estimated cost of the project is Rs2Crores. It was reported by the PP that there is no court case/litigation pending against the project. The PP requested for carrying baseline studies during summer 2016 (March – May 2016). The Committee agreed to the request of PP.

Based on the information furnished and presentation made by the

Project Proponent and discussions held, the **Committee prescribed the Standard TOR** for undertaking detailed EIA study as per **Annexure-I**.

(2.19). Phondaghat Silica Sand Mine of M/s Maharashtra State Mining Corporation Ltd. located at Village Phondaghat, Tehsil Kankavali, District – Sindhudurg, State Maharashtra. IA/MH/MIN/32099/2015

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

(2.20). Sijimali Bauxite Mining Project Of M/s Larsen & Toubro Ltd located at Thaumul –Rampur Tehsil (Kalahandi district) &Kashipur Tehsil (Rayagada District), Odisha (1549.09 ha). IA/OR/MIN/35455/2015

The L&T is proposing the development of Sijimali bauxite mine located in Kalahandi and Rayagada districts of Odisha State. The proposed rated capacity of the project is 6.0 MTPA. The life of the mine is about 33 years based on rated capacity.

In the proposed mining lease area of 1549.09 ha, majority is stony waste land (1166.28 ha) and about 6.11% of the ML area is forest land (village forest - 7.23 ha, DLC forest – 87.54 ha). Opencast mechanized mining method predominantly with the use of ripper/dozer and surface miners is proposed. Only in the places where hard strata are encountered, controlled blasting would be resorted to.

The lease area of 1549.09 ha is located in tehsil Thaumul–Rampur of Kalahandi district and tehsil Kashipur of Rayagada district in the state of Odisha. The lease area falls under the Survey of India topo sheet nos. E44F2 and E44F3 and bounded by latitude of 19°28'42.42" to 19°32' 2.35" N & longitude of 83°06' 4.66" to 83°09'49.8" E.

Sijimali bauxite deposit is located at an aerial distance of about 42 km from Rayagada town. Rayagada is the district headquarters and is connected by SE railway. Kashipur is the nearest town at a distance of about 13.8 km from Sijimali bauxite mine. The State Highway connects Sunger with Rayagada via Kashipur, the sub tehsil head quarter.

There are no ecological sensitive areas (wild life sanctuaries, national parks, biosphere reserves, protected forest etc.) in the study area. Karlapat wildlife sanctuary is located at about 12.9 km in North direction.

The bauxite extracted from Sijimali mine will be used as captive source for production of metallurgical grade alumina. The proposed alumina plant of 3.0 MTPA capacity will be located at a distance of around 13 km in East direction from this bauxite deposit. An overland conveyor system to transport the bauxite to the proposed Alumina Refinery Plant will be installed outside the ML area. This conveyor system will be part of Alumina Refinery Project.

The total requirement of water will be about 725 m³ per day. There will be no utilization of groundwater resource. The mining will not puncture the ground water table. Power will be made available at the main receiving and step-down substation (MRSS) of the proposed alumina plant by 132 KV double circuit overhead line from Theruvali substation of state power utility. The Estimated project cost is about Rs. 355 Crores. As per preliminary estimate, the total direct employment generation from the proposed mining project will be about 255 personnel.

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

(2.21). Kutrumali Bauxite Mining Project Of M/S Larsen & Toubro Ltd located at Thaumul–Rampur Tehsil in Kalahandi and Kashipur & Rayagada Tehsil in Rayagada District of Odisha (696.734 ha). IA/OR/MIN/35347/2015

The L&T is proposing the development of Kutrumali bauxite mine located in Kalahandi and Rayagada districts of Odisha State. The proposed rated capacity of the project is 3.0 MTPA. Life of the mine is about 22 years based on rated capacity. In the proposed mining lease area of 696.734 ha, majority is stony waste land (553.51ha) and about 8.22% of the ML area is forest land (village forest –12.61 ha, DLC forest – 1.62 ha, Proposed Reserve Forest – 43.09 ha). The lease area of 696.734 hectares is located in tehsil Thaumul–Rampur of Kalahandi district and tehsils Kashipur & Rayagada of Rayagada district in the state of Odisha. The lease area falls under the Survey of India topo sheet no. E44F3 and bounded by latitude of 19°25' 50.28" to 19°29' 6.12" N & longitude of 83°10' 11.47" to 83°13' 7.87" E.

The Kutrumali bauxite deposit is located at an aerial distance of about 34 km from Rayagada town. Rayagada is the district headquarters and is

connected by SE railway. The nearest railway station is Sikarpai RS at about 12.5km in SE direction.

The Kutrumali plateau has a generally undulating topography. The total mineable reserves of Kutrumali bauxite deposit is about 47 million tonnes. The proposed bauxite mine shall be developed by opencast mechanized mining method. The bauxite extracted from Kutrumali mine will be used as captive source for production of metallurgical grade alumina. The proposed alumina plant of 3.0 MTPA capacity will be located at a distance of around 7 km in East direction from this bauxite deposit. An overland conveyor system to transport the bauxite to the proposed Alumina Refinery Plant will be installed outside the ML area. This conveyor system will be part of Alumina Refinery Project.

Total requirement of water will be about 500 m³ per day. There will be no utilisation of groundwater resource. The mining will not puncture the ground water table. The estimated project cost is about Rs. 225 Crores. As per preliminary estimate, the total direct employment generation from the proposed mining project will be about 193 personnel.

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**.

Day 2: 24thFEBRUARY, 2016 (WEDNESDAY)

(2.22). Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) in River Ganga with proposed production capacity of 238977.2 m³/annum (ROM).by M/s Uttarakhand Forest Development Corporation, Uttarakhand, located at Bhogpur, Tatwala And Ramkundi Villages, Haridwar District, Uttarakhand (MLA 190.57 ha) (Consultant: Greencindia Consulting (P) Ltd.)- Consideration of EC

The proposal of M/s Uttarakhand Forest Development Corporation, Uttarakhand is for mining of Sand, Bajri and Boulder (Minor Mineral) with proposed production capacity of 238977.2 m³/annum. The mine lease area is located at Village (s) Bhogpur, Tatwala and Ramkundi, District - Haridwar, Uttarakhand. The mine lease area of 190.57ha lies on Ganga River bed. The Latitudes and Longitudes of the mine lease area lies between Latitudes 29050'45.18" N -29049'40.15"N and Longitudes 78009'18.07" E -78010'01.70"E on Survey of India topo-sheet numbers 53 K/1, K/2, K/5, K/6. The Project is located in Seismic zone-IV.

The proposal of ToR was considered by the Expert Appraisal Committee in its 9th Meeting held during 22-24 July, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC Letter No.J-11015/372/2012-IA. II (M) dated 08.01.2015. The Proponent submitted the EIA/EMP Report to Ministry online for seeking environmental clearance on 22.01.2016.

Total mine lease area of **190.57ha** which is a forest land. The Ministry of Environment, Forest and Climate Change, vide letter No. 8-16/2000-FC(Pt.) dated 24th September, 2014 has granted Stage I FC approval for collection of Minor Minerals for a period of 10 years from 1380.03ha of reserve forest land located in river bed of River Ganga and its tributaries in Haridwar District of Uttarakhand. M/s Uttarakhand Forest Development Corporation has informed that Mines and Geology Department, Govt. of Uttarakhand, vide letter dated 02.03.2015 has issued LOI for 8 locations viz. Pilli (131.31ha); Rawasan II (100.59ha); Rawasan I (Gandikhata) (99.79ha); Kotawali (74.67ha); Ganga Bishanpur (237.91ha); Ganga Shyampur (219.442ha); **Ganga Bhogpur (190.57ha)** and Ganga Chidiyapur (325.74ha) for mining of minor minerals.

Letter of Intent (LOI) for grant of mining lease for minor mineral Sand, Bajri and Boulder has been granted by the Director of Mines and Geology Department, Govt. of Uttarakhand, vide letter No. Khanan /V.VI.NI/bhukhani.E/2014-15 dated 2nd March 2015. The Mining Plan has been approved by Director, Mines and Geology, Govt. of Uttarakhand; vide letter no.2251/MinePlan /U.Kh.Ni./Haridwar, dated 09.03.2015.

Method of Mining is manual open cast method. 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. Proponent informed that 70.30ha area will be used for excavation as per the recommendation of Central Soil & Water Conservation Research and Training Institute, Indian Council of Agricultural Research, Dehradun. The site elevation is 246 - 258 m AMSL. The Ground water depth is 6 m bgl in pre-monsoon season and 3 m bgl in post-monsoon season. The total water requirement for the project from nearby villages is 31.60 KLD including water demand for domestic purpose, dust suppression and greenbelt development, water requirement would be met by tanker supply, No Objection Certificate from Gram Panchayat has been obtained in this regard.

Project Proponent reported that mining will be done leaving a safety distance from the banks i.e. 15% of the width of the River from both the banks. Mining will be done only during day time and completely stop 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 by road.

Project Proponent has made the Traffic Analysis survey and reported that 30 numbers of trucks will be deployed per day (16 tones capacity each). The total PCUs estimated is 720 PCUs per day. The level of service (LOS) will not change from "B". Project Proponent reported that roads will be repaired regularly and maintained in good condition. A Supervisor will be appointed to regulate the traffic movement near site.

Project Proponent reported that the mine lease area lies at a distance of 10.7 km from the Raja Ji National Park. Further, the Project Proponent reported that there are Schedule I species in the study area, accordingly, the species specific conservation plan has been prepared which was approved by the Chief Wildlife Warden, Uttarakhand. The Project Proponent has earmarked Rs. 31.130 lakhs towards implementation of Conservation plan for Scheduled Species.

The baseline data was generated for the period during March 2015 to May 2015. The parameters for water and air quality were within permissible limits. Project Proponent reported that no R&R 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 04th September, 2015 at Van Chowki, Bhogpur district Hardwa. The Public Hearing was presided over by Ms. Ravneet Cheema, Additional District Magistrate (Finance), District - Haridwar. The representatives from the Uttarakhand State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields.

The capital cost of the project has been estimated to be about 19 lakhs and recurring cost of the project is 12.7 lakhs and Capital EMP cost is 9.5 lakhs and recurring cost is 3 lakhs per annum. Project proponent will do corporate social responsibility work for this budget is located as 8.50 lakhs capital and 3.65 lakhs annual recurring cost. Project Proponent reported that there is no litigation pending against the project.

Total cost of the Project is Rs. 113.63 Lakhs. The Proponent has earmarked Rs. 19 Lakhs towards EMP as a capital cost and Rs. 12.7 Lakhs per annum towards recurring cost. The Project Proponent has earmarked Rs. 31.130 lakhs

towards implementation of Conservation plan for Scheduled Species. Project Proponent reported that there is no litigation pending against the project.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for **Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) in River Ganga with proposed production capacity of 238977.2 m³/annum (ROM).**

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 implement the Disaster Management Plan as the mine lease area is located in Seismic Zone-IV. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels; (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) 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.; (v) The number of trips of the trucks shall not exceed the estimated quantity of **30 trucks trips per day**. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) 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; (vii) 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; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.23). Mining of River Sand Bajri (Minor Mineral) with production capacity of 7.49 lakhs TPA (ROM) by Lessee Shri Naresh Gautam, located at Revenue villages of Tehsil- Keshoraypatan viz. Bhains Khera, Morkundna, Chorera, Gothra, Lohli, Kodiza, Jhali Ji ka Barana, Dingsi, Borada Kachiyan, Jaleda, Mayza, Baldara, Jaithal, Tehsil- Keshoraypatan; District: Bundi, Rajasthan. (MLA 141.45ha) (Consultant: J.M. EnviroNet Pvt. Ltd.)- Consideration of EC.

The proposal of Shri Naresh Gautam is for mining of River Sand Bajri (Minor Mineral) with proposed production capacity of 7.49 lakhs TPA (ROM). The mine lease area is located at Revenue villages of Tehsil- Keshoraypatan viz. Bhains Khera, Morkundna, Chorera, Gothra, Lohli, Kodiza, Jhali Ji ka Barana, Dingsi, Borada Kachiyan, Jaleda, Mayza, Baldara, Jaithal, Tehsil- Keshoraypatan; District: Bundi, Rajasthan in the area of 141.45 ha. The mine lease area lies on the Mej & Kural River bed & nallah. The Latitudes and Longitudes of the mine lease area lies between 25°28'23.81"N to 25°30'9.78"N and 75°50'57.00"E to 75°59'40.14" E on the Survey of India toposheet numbers 45 O/14, 45 O/15, 54 C/2 & 54 C/3. The Project is located in Seismic zone-II.

The proposal for ToR was considered by the Expert Appraisal Committee in its 14th Meeting held during 20-22 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-11015/433/2013-IA.II (M) dated 29th January, 2014. The Proponent submitted the EIA/EMP Report online to the Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 141.45 ha. No forest land is involved. Letter of Intent (LOI) was granted by the Govt. of Rajasthan, vide letter No. Anikha/Jai/3(1)/Bajri/P-1/2013/57 dated 24.01.2013. The Mining Plan has been approved by Director, Mines and Geology, Govt. of Rajasthan; vide letter no. SME/Kota/CC-I/MP/2014/3143 dated 10th June, 2014.

Mining will be by Opencast Manual cum Semi-Mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and not less than one meter above the water level of the River Channel whichever is reached earlier. Proponent informed that 105.5273ha area will be used for excavation. The site elevation is 213 m – 232 m AMSL. Mining will be done leaving a safety distance from the banks. Mining will be done only during day time. 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 30 KLD including water demand for domestic purpose, dust

suppression and plantation development which will be met by purchasing from local villagers.

Project proponent reported that 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 stop in monsoon season. No mining will be done in the zone of 45 m on either side of the structure/bridge. Project proponent reported that there will be construction of temporary rest shelters during operational phase. Mineral will be transported through road. Project proponent has made the traffic Analysis survey and reported that no. of trucks deployed will be 174 trips per day. Project proponent reported that roads will be repaired regularly and maintained in good condition. A supervisor will be maintained at the sensitive places.

Project proponent reported that the Ramgard Wildlife Sanctuary falls within 5.5 km in NW direction & Buffer zone of Ranthambhor Tiger Reserve falls within 2.5 km in North direction from lease area. Project Proponent reported that the application for NBWL Clearance has been submitted which is under approval. There are four Reserved Forests and one Protected Forest. State Government of Rajasthan, vide letter no. 1822, dated 12.08.2015, has confirmed that the lease area does not fall in Aravali range.

The baseline data was generated for the period during winter season (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 by Project Proponent. Project proponent reported that there is no R&R Plan is applicable for this project as the mine lease area lies entirely on the river bed and there is no establishment on the site.

Public Hearing for project was held on 10.09.2014 at 11:00 AM at Headquarter, Gram Panchayat Maiza, Tehsil: Keshoraypatan, District: Bundi, Rajasthan. Public Hearing was presided by Shri Sunil Arya, District Collector, Bundi. The representative from the Rajasthan State Pollution Control Board was also present. The issues raised during the Public Hearing were about social development & employment. Project proponent has made the action plan with budgetary provisions. The Committee deliberated and is of the view that Project Proponent needs to implement the Action Plan and the Implementation Report has to be submitted to the regional office of the MoEFCC every six month.

The Capital cost of the Project is Rs 1 Crores. An amount of Rs. 4.0 Lacs has been earmarked towards Environmental Protection Measures and Rs. 2.5 Lacs per annum towards recurring expenses. Rs. 10.0 Lacs have been earmarked towards social development in the nearby area. 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 9618 Tonnes of Bajri has been made during June, 2014 to April, 2015 and 600 tonnes of Bajri has been made during May, 2015 to Jan, 2016.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for Mining of **Mining of River Sand Bajri (Minor Mineral) with production capacity of 7.49 Lakh TPA (ROM)**.

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier; (ii) **Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.** (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) 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.; (v) The number of trips of the trucks shall not exceed the estimated quantity of **174 trucks trips per day**. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) 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; (vii) 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; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.24). Mining of River Sand Bajri (Minor Mineral) with production capacity of 22.4 Lakh TPA (ROM) by M/s Chandak Associates, located near 85 revenue villages viz. Pali II, Achiya, Akrawas Purohitan, Akeli, Baderwas and others., Tehsil-Pali, District-Pali (Rajasthan) (3859.00ha.) (Consultant:-EQMS INDIA PVT. LTD. INDIA)-Re-Consideration of EC.

The proposal of M/s Chandak Associates is for mining of River Sand Bajri (Minor Mineral) at 85 revenue village (s) of Tehsil-Pali, District-Pali, Rajasthan with proposed production capacity of 22.4 Lakh TPA (ROM) of Bajri in the mine lease area of 3859.0 ha. The mine lease area lies in Bandi, Khari, Somesar, Sukri, Ungti, Mithri and Khardi rivers River bed. The Latitudes and Longitudes of the mine lease area lies between 25°17'00.00"N to 25°53'00.00"N and 72°58'00.00"E to 73°36'00.00" E on Survey of India toposheet number 45 G/2, 45 G/5, 45 G/6, 45G/7, 45G/10. As per Seismic Zoning Map of India IS: 1893(Part-1):2002, the project is located in seismic zone-II.

The proposal of EC was considered by the Expert Appraisal Committee in its Meeting held during May 27-29, 2015 wherein the Committee deferred the Proposal and sought the following information/clarifications for further consideration:-

- (i) TOR compliance is not adequate and needs to be resubmitted;
- (ii) Detailed traffic study needs to be conducted for evacuation Route for transportation of sand;
- (iii) Replenishment study of Sand needs to be conducted;
- (iv) Cumulative impact of other mines located in the vicinity of the lease area needs to be submitted;
- (v) Revised action plan on the issues raised during PH needs to be submitted; and
- (vi) Certificate from the SPCB/CPCB that whether the mine is located in critically polluted area or not.

The Project Proponent has submitted the requisite information and accordingly the proposal is considered in the present meeting. Following are the information submitted by the Project Proponent:-

- (i) TOR compliance re-submitted by the Project Proponent.
- (ii) Project Proponent has made the Traffic Analysis survey and reported that 401 numbers of trucks will be deployed per day (20 tones capacity each). The total PCUs estimated is 6041 PCUs per day for SH 67; 6310 PCUs per day for NH 65 road and 6483 PCUs per day for NH 14 road. The level of service (LOS) will remain "B" at SH 67 and "A" at NH 14 and change from "B" to "C" at NH 65. The Committee is of the view that the number of

trips of the trucks shall not exceed the estimated quantity of 401 trucks trips per day.

- (iii) Project Proponent has conducted the replenishment study of Sand and using various method and reported that the total annual sediment load in the range of 0.45 – 1.01 Million tonne and the annual deposition rate will be 29.9% of the annual abstraction rate. The Committee noted that the replenishment rate is less than the excavation of mineral accordingly; the Committee is of the view that Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.
- (iv) Cumulative impact of other mines located in the vicinity of the lease area is submitted by Project Proponent.
- (v) Revised action plan on the issues raised during PH are submitted.
- (vi) Rajasthan State Pollution Control Board, vide letter dated 17.07.2015, has mentioned that the site is not located in the Critically Polluted Areas of Pali (viz. Industrial area, Mandia Road, Punayata Road and Sumerpur Road, Pali).

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for Mining of **Mining of River Sand Bajri (Minor Mineral) with production capacity of 22.4 Lakh TPA (ROM)**.

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier; (ii) **Project Proponent shall decrease/ stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.** (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) 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.; (v) The number of trips of the trucks shall not exceed the estimated quantity of **401 trucks trips per day**. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) 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; (vii) 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; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.25). Mining of River Sand Bajri (Minor Mineral) with production capacity of 28.05 Lakhs TPA (ROM) by M/s Mangal Singh Solanki, located at Revenue villages of Tehsil – Sheoganj, District – Sirohi, Rajasthan (1414 ha) [Consultant:-M/s Perfect Enviro Solutions Pvt. Ltd.]-Re-consideration of EC.

The proposal of lessee Shri Mangal Singh Solanki is for mining of River Sand (Minor Mineral) with proposed production capacity of 28.05 Lakh TPA (ROM). The mine lease area is located at village Akhapura Khuni, Bar Gaon, Chhiba Gaon, Chooli, Choteela, Jaitpura, Joyla, Khejariya, Lotiwara Bara, Lotiwara Chhota, Madani, Naradara, Posaliyan, Radbar, Rukhada, Sawali, Sutharon Ka Guda, Ummedgarh Tehsil Sheoganj, District Sirohi, Rajasthan in the mine lease area of 1414 ha. The mine lease area lies on Sukari, Khari and Jawai River bed. The Latitudes and Longitudes of the mine lease area lies between : Latitude: Khari Nadi: 25°01'23.76" N to 25°06'33.59"N, Sukri Nadi: 24°59'33.19" N to 25°08'19.85"N, Jawai River: 25°07'11.84" N to 25°09'43.14"N, Longitude: Khari Nadi 72°42'20.43"E to 72°48'38.78"E, Sukri Nadi: 72°58'25.61"E to 73°02'54.61"E, Jawai River: 73°02'37.51"E to 73°05'50.40"E on survey of India toposheet no. 45 C/12, 45 C/16, 45 G/4, 45D/9, 45D/13, 45H/1.

The proposal of ToR was considered by the Expert Appraisal Committee in its 12th meeting held during 31st October, 2013 to 1st November, 2013 to determine the Terms of Reference (ToR) for undertaking detailed EIA study. The ToR was issued by MoEF vide letter No J-11015/310/2013-IA.II (M), dated 22nd November, 2013. The Proponent submitted the EIA/EMP report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The Proposal of EC was earlier appraised by the 34th EAC in its meeting held during May 27-29, 2015, wherein the Committee concluded that the Project

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

The Project Proponent submitted the revised EIA/EMP Report and accordingly the Proposal is considered in the present meeting.

The mine lease area is 1414ha which is part of the river Khari, Jawai and Sukari. No forest land is involved. The letter of Intent (LOI) for grant of mining lease for minor mineral sand, Bajri over an area of 1414 ha has been granted in favour of Lessee Mangal Singh Solanki, vide State Government Order No. P.8 (15) Khan/Group-2/2013 Dated 27-02-2013. The Mining Plan has been approved by Department of Mines and Geology, Govt. of Rajasthan, Jodhpur Circle, vide letter no. 14710-14715 M.L.No.10/2012, dated 22.10.2013.

Method of mining will be opencast semi-mechanized mining method. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. Proponent has informed that only 311.0 ha area will be used for excavation. Site elevations of Sukri River is 297 – 254 mRL, Jawai River is 273 mRL - 260 mRL and Khari Nadi is 194 mRL- 226 mRL. Ground water depth is 10-15 m bgl in pre- monsoon and 10-12 m bgl in post-monsoon. Total water requirement for the project will be 19 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply. No groundwater intersection during the mining operations is envisaged.

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

Project proponent reported that there will be construction of temporary rest shelters during operational phase. Mineral will be transported through road. Project proponent has made the traffic Analysis survey and reported that no. of trucks and trolleys deployed will be 375 and 250 respectively per day which will increase 3000 PCUs per day, but the level of service (LOS) remains as "A" and "B". Project proponent reported that roads will be repaired regularly and maintained in good condition.

There are three reserved forests and three protected forests within 10 km radius from the lease area. State Government of Rajasthan, vide letter no Kha A/Sirohi/Bajri/ML/10/2012/1197, dated 09.02.2016 has confirmed that the lease does not fall in Aravali range. There are three Schedule-I species Peacock (*Pavo cristatus*), Sloth bear (*Melursus ursinus*), Leopard (*Panthera pardus*) found in the study area. Conservation Plan has been prepared and the Project Proponent has earmarked Rs. 9.73 Lakhs for implementation of conservation plan.

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

Public Hearing for the proposed project was conducted on 05.09.2014 at 3:00 P.M. at office of subsection Officer, Tehsil- Reodar, District – Sirohi, Rajasthan. The Public Hearing was presided over by the ADM, Sirohi. The representatives from the Regional officer of Rajasthan State Pollution Control Board, Pali were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures for water conservation measures, social and other village development activities and safety measures of workers. Project proponent has made the action plan with budgetary provisions.

The cost of the project is Rs. 4.0 Crores. The Proponent has earmarked Rs. 26.0 Lakhs towards Environmental Protection measures as recurring cost and Rs 3.0 Lakhs as capital cost. Proponent has informed that Rs. 10 Lakh per annum as recurring cost have been earmarked towards Occupational health and safety measures 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. 9703-9706 of 2013 production of 3,48,627 tonnes of Bajri has been made during December, 2013 to December 2015.

The Committee noted that the **replenishment rate is less than the**

excavation of mineral accordingly; the Committee is of the view that Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for **Mining of Mineral – River Sand (Bajri) with production capacity of 28.05 Lakh TPA (ROM).**

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier; (ii) **Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.** (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) 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.; (v) The number of trips of the trucks shall not exceed the estimated quantity of **375 trucks (20 tonne capacity) and 250 trolleys (4 tonne capacity) trips per day.** Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) 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; (vii) 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; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.26). Mining of River Sand Bajri (Minor Mineral) with proposed production capacity of 26.40 Lakh TPA (ROM) by Lessee Shri Bharat Singh Shekhawat, located at Revenue villages of Tehsil – Sirohi, District– Sirohi, Rajasthan (MLA-2527 ha)-[Consultant:-M/s Perfect Enviro Solutions Pvt. Ltd.]-Re-consideration of EC.

The proposal of lessee Shri Bharat Singh Shekhawat is for mining of River Sand Bajri (Minor Mineral) with proposed production capacity of 26.40 Lakh TPA (ROM). The mine lease area is located at villages Akoona, Angore, Badeli, Baoli, Barloot, bhut Gaon, Chadooal, Deldar, Goyli, Gura, Jawal, Kalandri, Khambal, Madiya, Mamawali, Mandawariya, Mandwara, Manora, Meerpur, Mohabbat Nagar, Padeev, Poseetara, Punawa, rampura, Rampura (Sildar), Roda Khera, Sanpur, Sildar, Sindrath, Sirodki, Siya Kara, Verapura, Warada, Tehsil - Sirohi, District - Sirohi, Rajasthan in the mine lease area of 2527 ha. The mine lease area lies on Kapalganga River, Maungu River, Krishnawati Nadi, Bandi Nadi River bed. The Latitudes and Longitudes of the mine lease area lies between : Kapalganga Nadi Latitude $24^{\circ} 54'37.18''N$ - $24^{\circ}54'27.92''N$, Longitude $72^{\circ}29'52.97''E$ - $72^{\circ}35'30.08'' E$, Maungu Nadi Latitudes $24^{\circ} 58' 36.48'' N$ - $24^{\circ} 54' 21.38'' N$ Longitude $72^{\circ} 36' 45.39'' E$ - $72^{\circ} 38' 17.86'' E$, Krishnawati Nadi Latitudes $25^{\circ} 04' 31.01'' N$ - $24^{\circ} 47' 27.32'' N$ Longitudes $72^{\circ} 41' 54.84'' E$ - $72^{\circ} 46' 20.45'' E$, Bandi Nadi Latitudes $24^{\circ} 49' 34.67'' N$ - $24^{\circ} 46' 37.61'' N$ Longitudes $72^{\circ} 29' 46.59'' E$ - $72^{\circ} 30' 58.26'' E$ on Survey of India topo sheet no. 45C/12, 45C/16, 45D/5, 45D/9, 45D/10, 45D/13 and 45D/14

The proposal of ToR was considered by the Expert Appraisal Committee in its 12th meeting held during 31st October, 2013 to 1st November, 2013 to determine the Terms of Reference (ToR) for undertaking detailed EIA study. The ToR was issued by MoEF vide letter No J-11015/311/2013-IA.II (M), dated 22nd November, 2013. The Proponent submitted the EIA/EMP report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The Proposal of EC was earlier appraised by the 34th EAC in its meeting held during May 27-29, 2015, wherein the Committee concluded that the Project Proponent needs to revise the EIA/EMP Report and also set right the deficiencies including (i) PP has not done the replenishment study; (ii) List of flora/fauna and endangered species are not accurate; (iii) There are Schedule I species, however the conservation plan has not prepared; (iv) The EIA/EMP Report has different contents than the presentation made during the EAC; (v) Online EIA/EMP Report and hard copy submitted are different; (vi) organization Structure is not adequate; (vii) Action Plan along with budgetary provisions on the issues raised during Public Hearing are not prepared adequately; (viii) There is no page numbers mentioned in the EIA/EMP Report; (ix) Forest land and Aravali NOC has

not submitted; (x) Geological profile of the area does not have the required details (and may have to be furnished afresh); (xi) Traffic management study has not made and cumulative joint traffic study is to made as the other mines are located nearby; (xii) Questionnaire' has not adequately addressed w.r.t. s. no. 4 and 28.2 etc.; and (xiii) details of Action Plan for occupational health of the workers has not been furnished.

The Project Proponent submitted the revised the EIA/EMP Report and accordingly the Proposal is considered in the present meeting.

The mine lease area is 2527 ha which is part of the river Kapalganga River, Maungu River, Krishnawati Nadi, Bandi Nadi. No forest land is involved. The letter of Intent (LOI) for grant of mining lease for minor mineral sand, Bajri over an area of 2527 ha has been granted in favour of Lessee Bharat Singh Shekhawat, vide State Government Order No. P.8 (14) Khan/Group-2/2013 dated 27th February 2013. The Mining Plan has been approved by Department of Mines and Geology, Govt. of Rajasthan, Jodhpur Circle, vide letter no. 14722-14727 M.L.No. -11/2012, dated 22.10.2013.

Method of mining will be opencast semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier. Proponent has informed that only 290.08 ha area will be used for excavation. Site elevation of Bandi River 272mRL-245mRL, Kapalganga River 272mRL-245mRL, Krishanawati River 240mRL-190mRL, Mangu River 270 mRL- 234 mRL. Ground water depth is 10-15 m bgl in pre- monsoon and 8-13 m bgl in post -monsoon. Total water requirement for the project will be 19 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by tanker supply. No groundwater intersection during the mining operations is envisaged.

Project proponent reported that mining will be done leaving a safety distance from the banks i.e. 7.5 m of the width of the river from both the banks. Mining will be done only during day time and completely stop in monsoon season. No mining will be done in the zone of 45 m on either side of the structure/bridge. Project proponent reported that there will be construction of temporary rest shelters during operational phase. Mineral will be transported through road. Project proponent has made the traffic Analysis survey and reported that no. of trucks and trolleys deployed will be 350 and 250 respectively per day which will increase 2850 PCUs per day, but the level of service (LOS) remains as "A" and "B". Project Proponent reported that roads will be repaired regularly and maintained in good condition.

Project proponent reported that the Mount Abu Wildlife Sanctuary is located 6.5 km S from the lease area. Project Proponent informed that application for NBWL approval has been submitted which is under consideration. There are four reserved forests and one protected forests within 10 km radius from the lease area. State Government of Rajasthan, vide letter no. Kha A/Sirohi/Apradhan/Bajri/2015/2261, dated 12.03.2015 has confirmed that the lease does not fall in Aravali range. There are three Schedule-I species Peacock (*Pavo cristatus*), Sloth bear (*Melursus ursinus*), Leopard (*Panthera pardus*) found in the study area. Conservation Plan has been prepared and the Project Proponent has earmarked Rs. 9.38 Lakhs for implementation of conservation plan.

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

Public Hearing for the proposed project was conducted on 05.09.2014 at 10:00 A.M. at office of subsection Officer, Tehsil- Reodar, District – Sirohi, Rajasthan. The Public Hearing was presided over by the Mr. V.C. Garg, ADM, Sirohi. The representatives from the Regional officer of Rajasthan State Pollution Control Board, Pali were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, plantation on road sides, social and other village development activities and maintenance of roads. Project proponent has made the action plan with budgetary provisions.

The cost of the project is Rs. 4.0 Crores. The Proponent has earmarked Rs. 26.0 Lakhs towards Environmental Protection measures as recurring cost and Rs 3.0 Lakhs as capital cost. Proponent has informed that Rs. 10 Lakh per annum as recurring cost have been earmarked towards Occupational health and safety measures 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. 9703-9706 of 2013 production of 1,11,540 tonnes of Bajri has been made during December, 2013 to March, 2015.

The Committee noted that the **replenishment rate is less than the excavation of mineral accordingly**; the Committee is of the view that Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.

The Committee deliberated at length the information submitted by Project

Proponent and **recommended** the Proposal for Environmental Clearance for **Mining of River Sand (Bajri) with proposed production capacity of 26.40 Lakh TPA (ROM).**

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier; (ii) **Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.** (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) 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.; (v) The number of trips of the trucks shall not exceed the estimated quantity of **375 trucks (20 tonne capacity) and 250 trolleys (4 tonne capacity) trips per day.** Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) 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; (vii) 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; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.27). Mining of River Sand Bajri with production capacity of 11.2 Lakhs TPA (ROM) by M/s Kuber Associates, located near 127 revenue villages viz. Akhawas, Anji Ki Dhani, Aaua, Angdosh, AsanDhanchiyan and others.,

Tehsil-Marwar, District-Pali, Rajasthan (MLA 4280.0ha) (Consultant: EQMS INDIA PVT. LTD. INDIA)-Re-Consideration of EC

The proposal of M/s Kuber Associates is for mining of Bajri (Minor Mineral) at 127 revenue village(s) of Tehsil-Marwar Jn., District-Pali, Rajasthan with proposed production capacity of 11.2 Lakh TPA (ROM) of Bajri in the mine lease area of 4280.0 ha. The mine lease area lies in Bandi, Lilki, Mithri, Kantaliyi, Khardi, Sukri upper, Khari and Siriari River(s) bed. The Latitudes and Longitudes of the mine lease area lies between 25°31'00.00"N to 25°42'00.00"N and 73°30'00.00"E to 73°49'00.00"E. Eon Survey of India toposheet number 45 G/6, 45 G/9, 45 G/10, 45G/13 and 45G/14. As per Seismic Zoning Map of India IS: 1893(Part-1):2002, the project is located in seismic zone-II.

The proposal of EC was considered by the Expert Appraisal Committee in its Meeting held during May 27-29, 2015 wherein the Committee **deferred** the Proposal and sought the following information/clarifications for further consideration:-

- (i) TOR compliance is not adequate needs to be resubmit;
- (ii) Detailed traffic study need to be conducted for evacuation Route for transportation of sand;
- (iii) Replenishment study of Sand need to be conducted;
- (iv) Cumulative impact of other mines located in the vicinity of the lease area needs to be submitted;
- (v) Status of NBWL approval;
- (vi) Mitigation measures for removing of hardness of water;
- (vii) Revised action plan on the issues raised during PH needs to be submitted; and
- (viii) Certificate from the SPCB/CPCB that the mine is located in critically polluted area or not.

The Project Proponent, vide letter dated 28.07.2015, has submitted the requisite information and accordingly the proposal is considered in the present meeting. Following are the information submitted by the Project Proponent:-

- (i) TOR compliance re-submitted by the Project Proponent.
- (ii) Project Proponent has made the Traffic Analysis survey and reported that 202 numbers of trucks will be deployed per day (20 tones capacity each). The total PCUs estimated is 6407 PCUs per day for SH 61 and 4258 PCUs per day for SH 62 road. The level of service (LOS) will remain "B" at SH 62 and change from "B" to "C" at SH 61. The Committee is of the view that the number of trips of the trucks shall not exceed the estimated quantity of 202 trucks trips per day.
- (iii) Project Proponent has conducted the replenishment study of Sand and using various methods and reported that the total annual sediment load in the range of 0.46 – 0.96 Million tonne and the annual deposition rate will be 42.9% of the annual abstraction rate. The Committee noted that the replenishment rate is less than the excavation of mineral accordingly; the

- Committee is of the view that Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.
- (iv) Cumulative impact of other mines located in the vicinity of the lease area is submitted by Project Proponent.
 - (v) The Project Proponent has informed that they had submitted the application for NBWL approval online on 06.08.2015 which is under approval.
 - (vi) The Project Proponent has informed that as far as the current riverbed mining project is concerned, the use of ground water shall only for the purpose of drinking, dust suppression and in watering the plants of greenbelt. The ground water analysis results also show that the hardness is below desirable limit (300 mg/l) at two locations while below permissible limit (600 mg/l) for other two locations and that it exceeds the permissible limit in case of one location only. The requirement of water shall be managed from owner private tubewell for which gram panchayat Savard has already given their consent for making the water available.
 - (vii) Revised action plan on the issues raised during PH are submitted.
 - (viii) Rajasthan State Pollution Control Board, vide letter dated 17.07.2015, has mentioned that the site is not located in the Critically Polluted Areas of Pali (viz. Industrial area, Mandia Road, Punayata Road and Sumerpur Road, Pali).

The Committee noted that the **replenishment rate is less than the excavation of mineral accordingly**; the Committee is of the view that Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for Mining of **Mining of River Sand Bajri (Minor Mineral) with production capacity of 11.2 Lakh TPA (ROM)**.

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 m from surface of sand deposit and 1 m above from the water level of the River channel whichever is reached earlier; (ii) **Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.** (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) 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.; (v) The number of trips of the trucks shall not exceed the estimated quantity of **202 trucks trips per day**. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) 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; (vii) 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; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(2.28). River Sand Mining with production capacity of 14.0 Lakh TPA (ROM) Sand by M/s Shekhawat Associates, located near 113 Revenue Villages viz. Akbai Ki Dhani, Ajeetpura, Atbara, Bagri-I, Bagri-II, Bagawas, Bariyala, Basna and others, Tehsil-Sojat, District-Pali, Rajasthan (4316.0ha)- (Consultant: EQMS India Pvt. Ltd.)-Consideration of EC

The project was already placed earlier in the EAC meeting held on January 20-22, 2016.

(2.29). Enhancement in production capacity of Red Ochre from 16,770 TPA to 4,00,000 TPA(ROM), Silica Sand from 20,256 TPA to 25,000 TPA (ROM) and proposed production capacity of 40,000 TPA(ROM) of White Clay from Kantharia mine by Smt. Tamanna Begum and Renewal of Mining lease located at near Village Kantharia, Tehsil & District Chittorgarh, Rajasthan (64.75ha) (Consultant-Udaipur Min Tech Pvt. Ltd.)-Reconsideration of EC

The proposal of Smt. Tamanna Begum is for enhancement in production capacity of Red Ochre from 16,770 TPA to 4,00,000 TPA (ROM), Silica Sand from 20,256 TPA to 25,000 TPA (ROM) and proposed production capacity of 40,000 TPA (ROM) of White Clay from Kantharia mine. The mine lease area is located near Village- Kantharia, Tehsil & District- Chittorgarh, Rajasthan. The mine lease area falls on Survey of India Top sheet no-. 45L/09 , and between Latitude

24°47' 46" to 24°47'55"N & Longitude 74° 34' 26" to 74° 35' 32"E. The Project is located in Seismic zone-II. The mine lease area is 9.5 Km away from the Chittorgarh Fort Boundary.

The proposal of EC was earlier considered by the Expert Appraisal Committee in its Meeting held during June 24-26, 2015 wherein the Committee deliberated at length the information submitted by Project Proponent and deferred the Proposal and sought the following information/clarifications for further consideration:-

- (i) The Project Proponent informed that the Certified Compliance Report of earlier EC conditions is awaited from the Regional Office of the Ministry. The Committee is of the view that since this is enhancement case, the certified compliance report of the Regional Office is required and suggested that Regional Office may be requested to submit the certified compliance Report; and
- (ii) TOR compliance no. 29 (Impact of local transport vis-s-vis incremental load) is not adequate and needs to be resubmitted.

The Project Proponent has submitted the requisite information and accordingly the proposal is considered in the present meeting. Following are the information submitted by the Project Proponent:-

- (i) The MoEFCC Regional Office, Lucknow has submitted the certified compliance Report of earlier EC conditions. The Committee deliberated the compliance report.
- (ii) Project Proponent has made the Traffic Analysis survey and reported that 50 numbers of dumpers/tippers will be deployed per day (15 tonnes capacity each). The total PCUs estimated to be increased to 300 PCUs per day. The level of service (LOS) will remain "A". The Committee is of the view that the number of trips of the trucks shall not exceed the estimated quantity of 50 trucks trips per day.

Project Proponent has submitted the **pit wise production detail which are as follows:-**

PIT No-1 (SILICA SAND PIT PRODUCTION)

YEAR	RED OCHRE in tonnes
Ist YEAR	25038
IIInd YEAR	25334
III rd YEAR	25105
IVth YEAR	25116
Vth YEAR	25261
Total	125854

PIT No- 2 (WHITE CLAY PIT PRODUCTION)

YEAR	WHITE CLAY in tonnes
Ist YEAR	20250
IInd YEAR	20525
III rd YEAR	21055
IVth YEAR	20950
Vth YEAR	21022
Total	103802

PIT No- 3 (WHITE CLAY PIT PRODUCTION)

YEAR	WHITE CLAY in tonnes
Ist YEAR	22338
IInd YEAR	21595
III rd YEAR	21065
IVth YEAR	21170
Vth YEAR	21066
Total	107234

PIT No-5 (RED OCHRE PIT PRODUCTION)

YEAR	RED OCHRE in tonnes
Ist YEAR	412986
IInd YEAR	412963
III rd YEAR	412588
IVth YEAR	412495
Vth YEAR	412833
Total	2063865

The Committee deliberated at length the information submitted by PP and **recommended the Proposal for Environmental Clearance for Enhancement in production capacity of Red Ochre from 16,770 TPA to 4,00,000 TPA(ROM), Silica Sand from 20,256 TPA to 25,000 TPA (ROM) and proposed production capacity of 40,000 TPA(ROM) of White Clay from Kantharia mine.**

The Committee also **recommended additional specific conditions** viz. (i)Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical check-up once in six months and necessary medical care/preventive measures undertaken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers should also be adopted; (ii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall complete all the tasks as per the Action Plan submitted with budgetary provisions during

the Public Hearing; (iii) The number of trips of the trucks shall not exceed the estimated quantity of **50 trucks trips per day**. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; 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) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry; (v) Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; (vi) The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; and (vii) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.

CONSIDERATION OF TOR

(2.30). IA/RJ/MIN/33677/2015 - Chobe ki Guwari Sand Stone Mining Project of M/s Dinesh Kumar Jain located at village Chobe ki Guwari, Tehsil Sapotra, District Karoli, State Rajasthan (62.76 Ha)- Consideration of TOR

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

(2.31). Sambhariya Limestone Mine with proposed production capacity of 3,70,142 TPA (ROM) of Limestone by Lessee Shri Narendra Agarwal, located at Near village- Sambhariya, Tehsil- Bilara, Dist Jodhpur, Rajasthan (MLA 103.0ha) -(Consultant -Overseas Min-Tech Consultant, Jaipur)-Consideration of TOR

The proposal of Lessee Shri Narendra Agarwal is for Sambhariya Limestone Mine with proposed production capacity of 3,70,142 TPA (ROM) of Limestone. The mine is located at village- Sambhariya, Tehsil- Bilara, District- Jodhpur, Rajasthan

in the mine lease area 103ha. The lease area lies between 26°19'53.29"N to 26°19'05.61" N, and 73°45'26.08"E to 73°46'22.42" E.

Total mine lease area is 103ha which is Govt. and Private Land. The mining lease area (ML No. 90/1982(65/1994 R and Khasra No. 10,232,232/1,226,229) was granted in favor of Shri Narendra Agarwal, vide letter no. P-4(249)Khan/Group-2/82/Jaipur, dated 08.03.1983. The lease was registered on 05.04.1985 for 10 year i.e. from 05.04.1985 to 04.04.1995. First renewal of lease was done for 20 years by the State Govt., vide letter no. SME/Jodh/CC/MM/Jodh/ML/65/94/532 dated 23.12.1995 and lease executed on 26.07.1996.

The mining will be done opencast mechanized method with drilling and blasting with the use of drill machines, and truck/ dumper used for loading and transportation of overburden and lime stone. The total water requirement will be 7.0 KLD which will be sourced from hand pump/Tube well situated nearby village through water tanker. The ultimate depth of mining is 16 m bgl & proposed working will not intersect Ground water table. Project Proponent reported that there is no National Park, Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). The cost of the project is Rs. 74.12 Lacs. There is no court case/ litigation pending against the project.

The Project Proponent mentioned that want to start collection of base line data from **March 2016-May 2016**. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

(2.32). Malkisar Chota Gypsum Mine with production capacity of 2,00,000 TPA (ROM) by M/s FCI Aravali Gypsum and Minerals India Ltd. located at Village Malkisar Chota, Tehsil - Lunkaransar, District - Bikaner, Rajasthan (MLA 101.56 ha) -Consideration of TOR.

The proposal of M/s FCI Aravali Gypsum and Minerals India Ltd is for mining of Gypsum with production capacity of 2,00,000 TPA (ROM) of Gypsum. The mine is located at village-Malkisar, Tehsil- Lunkaransar, District-Bikaner, Rajasthan in the mine lease area of 101.56ha. The lease area lies between 28°41'26.34"N to 28°41'47.13" N, and 73°55'15"E to 73°56'24" E. The highest point of the lease area is at 194masl, while lowest is at 193masl.

Total mine lease area is 101.56ha which is agricultural land. Letter of Intent was issued by the Directorate of Mining & Geology, Government of Rajasthan, vide letter no. Nikhabhu/Bika/CC-3/P.1(1)17/2009/1946, dated 17 November, 2014. Method of mining is opencast semi-mechanized by using excavators, JCBs and trucks for loading and transportation of minerals. Total production capacity of Gypsum will be 2,00,000 TPA (ROM). Total water requirement will be 9.0 KLD (1KLD for domestic purpose, 5KLD for dust suppression & 3KLD for Green belt development). Water will be available from nearby villages. The cost of the project is Rs. 55.75 Lakhs. Project Proponent has reported that there is no National Park, Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). Project Proponent also reported that there is no court case/ litigation pending against the project.

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

(2.33). IA/RJ/MIN/36292/2015- Sandstone mining of M/s Mr. Harcharan Lal Jindal located at Village – Chilachond, Tehsil – Bari, District – Dholpur, State- Rajasthan – Consideration of TOR

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

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

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

The proposal of TOR was earlier considered by the EAC in its meeting held during December 21-22, 2015 wherein the Committee deferred the Proposal and suggested that the Project Proponent shall revise the documents and submit the same online and the Proposal to be brought back to the Committee for further consideration. The Project Proponent has submitted the revised Form-1 and PFR and accordingly the proposal was consider in this present meeting.

Total mine lease area is 67.875 ha. The State Government of Rajasthan, vide letter No. ME/BHIL/CC.5/ML/01/90/1673, dated 18.02.2015 has extended the validity of the mining lease period upto 11.08.2042. The proposal is for mining with production capacity 0.15 Million TPA (ROM) (China Clay- 0.131 Million TPA and Soap Stone- 0.019 Million TPA). Total mineable reserves are (China Clay: 9,27,226 Tonnes, Soap Stone: 79,921 Tonnes). The life of mine is (China Clay: 7 Years, Soap Stone: 4 Years). Method of opencast Mechanized Method of Mining by drilling, blasting, loading & transportation of mineral soap stone & china clay. Total water requirement for the project is 5.2 KLD will be sourced from nearby Village Nathun. There is no National Park, Biosphere Reserve, Wildlife corridors and Tiger/Elephant Reserves within 10 km radius of the mining project site. Total cost of the Project is Rs. 2.0 Crore. There is no court case/ litigation pending against the project.

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

Based on the information furnished and presentation made by the Project Proponent and discussions held, the **Committee prescribed the Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings: (i) 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; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both

the ways (loaded as well as unloaded trucks) load and its impact on Environment; and(iii) Impact of all existing mining on the present land use in the study area.

(2.35). Motawatan Ball Clay Mine(M.L. No. 20/2003) with production capacity of 1,01,676.6 TPA (ROM) by M/s Shri Krishna Gopal, located Near Village Motawatan, Tehsil –Kolayat, District - Bikaner, Rajasthan (MLA 80.94 ha) (Consultant – Overseas Min-Tech Consultant, Jaipur)- Consideration of TOR

The proposal of M/s Shri Krishna Gopal is for Motawatan Ball Clay Mine (M.L. No. 20/2003) with production capacity of 101676.6 TPA (ROM) in the Mine Lease Area 80.94 ha. The mine is located at village Motawatan, Tehsil –Kolayat, District - Bikaner, Rajasthan. The geographical extends of mining lease area are: Latitudes - 27°55'49"N to 27°56'11.44"N, Longitudes 72°56'53.67"E to 72°57'38.21"E on the Survey of India Toposheet No. 44 D/16, 44H/4, 45A/13 & 45E/1.

The proposal of TOR was earlier considered by the EAC in its meeting held during July 29-30, 2015 wherein the Committee deferred the Proposal as the Project Proponent did not attend the meeting. The Project Proponent has submitted the request to reconsider the proposal and accordingly the proposal was consider in this present meeting.

The mining lease area of 80.94 ha is in Government Waste land. No forest involved in the mine site. The lease deed was registered on 21.08.1984. The validity of the lease is upto 10.02.2034. The Mining Plan with PMCP has been approved by SME, District- Bikaner, Government of Rajasthan, vide letter No. SME/BKN/CC/2014-15/138, dated 18/07/2014. The mining will be done by open-cast manual method of mining. At the end of life of mine, total excavated area will be 38.0 ha out of which 0.2413 ha will be backfilled and 37.7587 ha area will be used as water reservoir. A total mineable reserve is 14,26,068 MT. Life of mine is 14 years. Bench height will be 3 m & width 6 m. At the end of life of mine, OB will utilize to back fill the part of the excavated area of the pit and the top soil will be spread over it use for plantation purpose. Total water requirement will be 7.0 KLD. The estimated cost of the project is Rs. 1.10 Crore. Project Proponent reported that there is no Wildlife Sanctuary, National Park, Biosphere Reserves, Wildlife Corridors, Reserved & Protected Forest etc. within 10 km radius. There is no court case/ litigation pending against the project.

The Project Proponent mentioned that want to start collection of base line data from **March 2016-May 2016**. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

AMENDMENT OF ENVIRONMENT CLEARANCE

(2.36). Soapstone Mining Project with production capacity of 2, 50,000 TPA (ROM) by M/s Associated Soapstone Distributing Company Pvt. Ltd., located near village –Bhungapat, Tehsil- Dhariawad, District - Pratapgarh, Rajasthan (M. L. No. 03/94)- Amendment in EC No. J-11015/475/2008-IA-II (M), dated 19th March 2010 w.r.t. reduction of Mine lease area from “151.43 ha to 150.3046 ha.”

The proposal of M/s Associated Soapstone Distributing Company Pvt. Ltd. is for amendment in Environmental Clearance vide letter No. J-11015/475/2008-IA-II (M), dated 19th March, 2010 w.r.t reduction of the mine lease area from “151.43 ha to 150.3046 ha.” The mine is located near village –Bhungapat, Tehsil-Dhariawad, District – Pratapgarh, Rajasthan. The lease area lies between Latitude of: -23°56’8” N & 23°57’11” N, Longitude of: - 74°20’15” E & 74°21’06”E respectively.

The Project Proponent reported that the Environmental Clearance was granted by the Ministry, vide letter No.J-11015/475/2008-IA-II (M) dated 19th March, 2010 for mining of mineral soapstone with production capacity of 2, 50,000 TPA in mining lease area of 151.46 ha having 1.90ha forest land which has diversified vide MoEFCC, Regional office (Central region), order No.88/05/1364/97/RC/1612 dated 14th Dec 1999.

The Project Proponent applied for surrender of 1.90ha forest land on 18.10.2012. Surrender of the forest land was accepted by State Govt., vide order No. SME/Udai-Cir/Ce- Pratap/ML-03/94/98 dated 16.07.2013. w.e.f 18.10.2012. During the process of this surrender application, Directorate of Mines & Geology had observed that in the lease information system the area became 152.2046 ha instead of 151.43 ha which is corrected accordingly. After the surrender of 1.90 ha forest land, the area remains 150.3046 ha.The project proponent reported that with this marginal reduction in area, no noticeable change in land use is anticipated and details of land use are as below:

S. No.	Type of land use	Area as per EC dated(19.03.2010) in ha	Area as per DMGOMS in ha	Area after surrender of forest land in ha
1	Agriculture land	30.007	30.007	30.007
2	Waste land	119.523	120.2976	120.2976
3	Forest land	1.900	1.90	0.00
Total		151.43	152.2046	150.3046

The State Government of Rajasthan, vide order dated 16.07.2013 has approved the surrender of 1.90ha and now the reduced lease area is 150.3046ha. The Rider agreement was executed on 03.09.2013 for retained area of 150.3046 ha and surrendered forest area 1.90ha. Later on, in pursuance of MMDR (Amendment) Act 2015, the lease period has been extended up to 31th March 2030. Further, the Ministry of Mines, vide Gazette Notification dated 10.02.2015 has notified Soapstone mineral as minor mineral.

Project Proponent has informed that the mining scheme has been approved by the State Government of Rajasthan vide letter no. SME/UD-Cir/Mining Plan/Pratap/M.Scheme/F-06/10/290 on dated 27.04.2011, valid upto 31.03.2016 for the mine lease area of 151.43 ha. **The Project Proponent has submitted the application for revised mining scheme of 150.3046 ha. The same is under approval with the State Government.**

The Committee deliberated the information submitted by PP and **recommended** the proposal for Amendment in EC No. J-11015/475/2008-IA-II (M), dated 19th March 2010 w.r.t. reduction of Mine lease area from "151.43 ha to 150.3046 ha" **subject to submission of (i)** Copy of Approved mining scheme w.r.t. reduced mine lease area of 150.3046 ha; and (ii) Year wise production details of the mineral authenticated by Mines and Geology Department, Govt. of Rajasthan to check the violation, if any.

The Committee also **recommended additional specific conditions** viz. (i) Monitoring of Ambient Air Quality to be carried out based on the 2009 Notification, as amended from time to time by the Central Pollution Control Board; (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 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; and (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.

(2.37). Amendment in Environmental Clearance, vide No. J-11011/630/2008-IA-II (I) dated June, 3rd, 2009 and 15th May, 2013 w.r.t. intersecting ground water table in Captive Limestone mine (MLA 65.82 ha & capacity 1.8272 Million TPA) by M/s Trinetra Cement Limited, located at Village Partipura, Tehsil - Garhi, District-Banswara, Rajasthan (Consultant:- B.S.Envi Tech Pvt. Ltd.)

The Proposal of M/s Trinetra Cement Limited is for the amendment in Environmental Clearance, vide No. J-11011/630/2008-IA-II (I) dated June, 3rd, 2009 and 15th May, 2013 w.r.t. intersecting ground water table in Captive Limestone mine (MLA 65.82 ha & capacity 1.8272 Million TPA. The mine is located at Village Partipura, Tehsil - Garhi, District-Banswara, Rajasthan. The Latitudes & Longitudes of the site are 23°36'10" N to 23°36'53" N and 74°14'25" E to 74°15'17"E respectively.

The Project Proponent has reported that M/s Trinetra Cement Ltd (TCL) is operating the Partipura Limestone Mine with production capacity of 1.872 Million TPA in Mining lease area of 65.82 ha falling Near Partipura Village, Garhi Tehsil, Banswara District, Rajasthan. The Ministry has issued the environmental clearance for expansion of Cement Plant (0.5 MTPA to 1.8 MTPA) and associated Mining lease (1.872 Million TPA, 65.82ha), Coal based Thermal power Plant (50 MW), vide EC letter No. J-11011/630/2008-IA-II (I), dated June, 3rd, 2009 in the name of M/s Mahi Cements and further Transfer the EC in the name of M/s Trinetra Cement Ltd., vide letter No. J-11011/630/2008-IA-II (I), dated 15thMay, 2013.

The Project Proponent has mentioned that earlier proposal had submitted that mining will not be intersecting with ground water as mine working would be above ground water table. Accordingly, MoEF had issued the Environmental Clearance in 2009. After detailed exploration in the mine for estimation of reserves through borehole logs, it was found that the limestone persists beyond the ground water table and mining would be definitely intersecting the Ground water table in future.

The Central Institute of Mining and Fuel Research, Regional Centre, Nagpur has carried out detailed hydrogeological studies. The Central Ground Water

Authority, vide letter no. 21-4(319A)/WR/CGWA/2015-1280, dated 10th August 2015 has issued NOC for mine pit dewatering on account of mining intersecting ground water table. The unit may abstract 586 m³/day of ground water (not exceeding 2,14,000 m³/year) for dewatering the mine seepage on account of mining intersecting the water table.

Project Proponent has submitted the justification for the amendments in EC w.r.t. intersecting the ground water table which are as follows:-

1. TCL, in earlier proposal submitted that, present mine working will not intersect ground water table. Accordingly, MoEF issued Environmental Clearance in 2009.
2. Detailed exploration, for estimation of reserves through borehole logs, it is found that the limestone persists, beyond the ground water table. Ground water table expected to be intersected at/below 170 m RL. Ultimate pit depth up to 91.28 m RL.
3. TCL will be intersecting the Ground water table in future, when fifth bench (below 170 mRL) will be opened. Whereas previously obtained EC (03.06.2009) says that "Mine working will not intersect the ground water table."
4. The Central Institute of Mining and Fuel Research, Regional Centre, Nagpur has carried out detailed hydrogeological studies.
5. The Central Ground Water Authority, vide letter no. 21-4(319A)/WR/CGWA/2015-1280, dated 10th August 2015 has issued NOC for mine pit dewatering on account of mining intersecting ground water table.
6. Pumped out water from mine pit will be used in existing cement plant with proportionate reduction in existing groundwater withdrawal through tube wells in the plant. Rainwater harvesting structures has been provided for augmentation of the ground water table.

The Committee deliberated the Hydro-geological study at length the information submitted by PP and accepted the request of Project Proponent and **recommended** the amendments in EC dated 03.06.2009 w.r.t. **para 3, line 12** i.e. "mine working will not intersect the ground water table" **may be amended to** "The mining operation shall be permitted below the ground water table and implement the recommendations of hydro-geological study which has been carried out. The Project Proponent ensure that necessary modifications/revisions in the Mining Scheme shall be carried out before the commencement of mining operation below the ground water table."

(2.38). Palaspani Manganese Ore Mining Project of M/s Krishnaping Alloys Pvt. Ltd. located in Village Palaspani, Tehsil Sausar, District Chhindwara, Madhya Pradesh- Amendment in Environmental Clearance

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

(2.39). Thob Selenite mine with production capacity of 50,000 TPA by M/s J.K. White Cement Works, located at Village -Thob, Tehsil -Pachpadra, District -Barmer, Rajasthan -Amendment in EC No. J-11015/313/2005-IA-II (M), dated 18th April 2006 w.r.t. reduction of Mine lease area from "91.04 ha to 90.4966 ha."

The proposal of M/s J. K. White Cement Works is for Amendment in EC No. J-11015/313/2005-IA-II (M), dated 18th April 2006 w.r.t. reduction of Mine lease area from "91.04 ha to 90.4966 ha." The mine is located at Village -Thob, Tehsil -Pachpadra, District -Barmer, Rajasthan. The Latitudes & Longitudes of the site are 72° 24' 29.3" to 72° 16.51"E and 26° 03'33.74" to 26° 04'19.15" N respectively.

The Ministry has granted Environmental Clearance, vide letter no. J-11015/313/2005-IA.II (M), dated 18/04/2006 under the provisions of the EIA Notification, 1994 for Thob Selenite mine with production capacity of 50,000 TPA in the mine lease area of 91.04 ha.

The Project Proponent has reported that in the year 2007, the Government of Rajasthan has decided against grant of mining lease of Selenite mineral to private sector and reserved it for public sector companies. PP has contested the policy of the Government of Rajasthan in court of law and ultimately the policy was withdrawn by the Government, vide its letter dated 14.07.2014. The lease was granted by the State Government of Rajasthan, vide letter no. P.12 (44) Mines/Group-2/2010, dated 04.12.2014 for an area of 90.4966 ha in place of original area of 91.04ha. The mining lease was reduced by 0.5434 ha by the Government of Rajasthan due to closing error in the lease area map while the final demarcation of the area. The lease deed has been executed and registered on 13.03.2015 in the office of Sub Registrar Panchpadra for a period from 13.03.2015 from 12.03.2045. The period of mining lease has been further extended up to 12.03.2065 according to the MMDR (Amendment) Act, 2015, vide letter no. ME/Barmer/Major/ML/2/98/95, dated 25.03.2015.

Project Proponent has reported that they had not started the mining operation as the lease was not granted by the Government of Rajasthan. EC was granted under EIA Notification 1994 which says operation should be started within five years of grant of EC. However this notification was superseded by EIA Notification 2006 in which there was also no condition from five years for starting mining operation. Since the lease was not granted by the Government of Rajasthan, PP

had no scope to start production in five years from the grant of EC and requested the amendments in EC w.r.t. reduction of Mine lease area from "91.04 ha to 90.4966 ha."

The Committee deliberated the information submitted by PP and is of the view that since the EC dated 18.04.2006 was granted under the provisions of the EIA Notification, 1994 which *inter-alia* mentioned that **mining operation should be started within five years of grant of EC i.e. up to 17.04.2011 in instant case. However, in this proposal mining had not commenced due to delay in grant of mine lease.**

The Committee discussed and is of the view that the Ministry first decide whether this instant EC is valid or not and afterwards the proposal to be placed before the EAC for amendments.

(2.40). Bhatkotari Limestone Mine with enhancement of production capacity from 3.75 million TPA to 9.10 million TPA (ROM) by M/s Wonder Cement Ltd., located near Village (s) Bhatkotari, Lasrawan, Phalwa and Rasulpura, Tehsil- Nimbahera, Disttict-Chittorgarh, Rajasthan (740.930ha)- Amendment in Environmental Clearance.

The proposal of M/s Wonder Cement Ltd. is for amendment in EC vide letter no J-11015/319/2012-IA.II (M) dated on 19.12.2013 w.r.t. specific condition no. (ix), "The mining operation shall be restricted to above ground water table and it should not intersect ground water table. In case of working below ground water table, prior approval of the Ministry of Environment and Forest and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out."

The mine is located near Village (s) Bhatkotari, Lasrawan, Phalwa and Rasulpura, Tehsil-Nimbahera, Disttict-Chittorgarh, Rajasthan in the mine lease area of 740.930ha. The Latitudes & Longitudes of the site are 24° 39' 10.07" N to 24° 40' 23.97" N and 74° 35' 16.28" E to 74° 37' 48.93"E respectively & part of study area falls within the Survey of India Toposheet No. 45 L/6, 45 L/9 & 45 L/10.

The Committee noted that the Ministry has earlier granted the Environmental Clearance, vide letter no J-11015/319/2012-IA.II (M), dated on 19.12.2013 for Bhatkotari Limestone Mine with enhancement of production capacity from 3.75 million TPA to 9.10 million TPA (ROM).

Project Proponent reported that M/s Associate Engineers & Consultants Jaipurhas conducted Ground Water Resources and Ground Water Seepage Study

(Hydrogeological Study). The Central Ground Water Authority, vide letter No. 21-4(212) WR/CGWA/2007-1570, dated 09.10.2015 has approved the intersecting the water table during the period of renewal of NOC issued by CGWA on 29.05.2015. The cumulative ground water withdrawal through bore wells and dewatering of mine seepage shall not exceed 2470m³/day (not exceeding 8,15,100 m³/year). Project Proponent has submitted the following justification for the amendments in EC w.r.t. specific condition (ix):-

Specific condition number and details of EC condition	Amendment to be required	Justification given by PP
<p>Specific condition no. (ix): The mining operation shall be restricted to above ground water table and it should not intersect ground water table. In case of working below ground water table, prior approval of the Ministry of Environment and Forest and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.”</p>	<p>Approval for working below the ground water table</p>	<p>(i) Presently Project Proponent has been restricted to do mining above water table. If the mining restricted above water table, then more surface area would be opened up at early stage of mining and will change the land use of the larger area (degradation of surface area). Secondly mining will be possible to exploit more minerals lying below water table. It will be in the spirit of procedure regarding conservation of minerals prescribed in MCDR, 1988.</p> <p>(ii) M/s Associate Engineers & Consultants Jaipur has conducted Ground Water Resources and Ground Water Seepage Study (Hydrogeological Study).</p> <p>(iii) The Central Ground Water Authority, vide letter No. 21-4(212) WR/CGWA/2007-1570, dated 09.10.2015 has approved the intersecting the water table during the period of renewal of NOC issued by CGWA on 29.05.2015. The cumulative ground water withdrawal through bore wells and dewatering of mine seepage shall not exceed 2470m³/day (not exceeding 8,15,100 m³/year).</p> <p>(iv) The limestone mineral reserves in this mine have been proved to be upto depth of 130 meter bgl.</p>

The Committee deliberated the Hydro-geological study at length the information submitted by PP and accepted the request of Project Proponent and **recommended** the amendments in EC w.r.t. specific condition no. (ix). The specific condition no. (ix) **may be amended from,** *"The mining operation shall be restricted to above ground water table and it should not intersect ground water table. In case of working below ground water table, prior approval of the Ministry of Environment and Forest and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out"* **to** **"The mining operation shall be permitted below the ground water table and implement the recommendations of hydro-geological study which has been carried out. The Project Proponent ensure that necessary modifications/revisions in the Mining Scheme shall be carried out before the commencement of mining operation below the ground water table."**

(2.41). Transfer of EC from Shri Rameshwar Joshi to M/s Asian Mining Associates for Kalakhunta Manganese Mining with production capacity of 25,000 TPA, located at village-Kalakhunta, Tehsil-Khushalgarh, District-Banswara, Rajasthan (MLA 18.898ha) (Consultant:- Udaipur Mine-Tech. Pvt. Ltd.)

The proposal of M/s Asian Mining Associates is for Transfer of EC from Shri Rameshwar Joshi to M/s Asian Mining Associates for Kalakhunta Manganese Mining with production capacity of 25,000 TPA. The Mine is located at village-Kalakhunta, Tehsil-Khushalgarh, District-Banswara, Rajasthan in the mine lease area of 18.898ha. The Latitudes & Longitudes of the site are 23°19'0" N to 23°19'45" N and 74°1'25" E to 74°1'40"E respectively & part of study area falls within the Survey of India Toposheet No. 46 I/17.

The Project Proponent has requested to transfer the EC from Shri Rameshwar Joshi to M/s Asian Mining Associates as the mine lease has been transferred to M/s Asian Mining Associates by the State Government of Rajasthan vide letter no. P.5(172)Khan/Group – 2/07 date. 28.04.2008. Scheme of Mining with progressive mine closure plan has been approved by IBM vide letter no. 682(23)MS-590/2010-Khanikhas(U)UDI dated 12.12.2011 in the name of M/s Asian Mining Associates. PP reported a violation case is pending against the project.

The Committee deliberated the issue and is of the view that this is transfer of earlier EC from Shri Rameshwar Joshi to M/s Asian Mining Associates and the **project proponent to submit the application to the Ministry as per the provisions of Rule 11 of the EIA Notification, 2006** along with the **(i) production details certified by Mine and Geology Department, State Government of Rajasthan; (ii) Status of court case pending against the**

project; and (iii) Copy of Mining Scheme in the name of M/s Asian Mining Associates.

AMENDMENT OF TOR

(2.42). Birla Cement Limestone mine of M/s Birla Cement Works for enhancement of production capacity from 2.824 million TPA to 4.324 million TPA of limestone located near Village –Bherda, jai, Surjana & Nagri, P.O. Semalpura, Tehsil & District – Chittoragarh, Rajasthan (ML area: 588.59 ha)-Amendment of TOR.

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

(2.43). Limestone Mine with Production Capacity of 0.15 Million TPA (ROM) by M/s Chemical Limes Mundwa Pvt. Ltd., Located at village Inana, Rupasar and Bhadana, P.O. Mundwa, Tehsil Mundwa and Distt. Nagaur, Rajasthan (M.L. Area – 500 ha)– (Consultant: J.M. Environet Pvt. Ltd.) - Validity Extension of ToR.

The proposal of M/s. Chemical Limes Mundwa Pvt. Ltd. is for extension of validity of TOR for Limestone Mine with Production Capacity of 0.15 MTPA (ROM) in the mine lease area of 500 ha. The mine lease is located at Village–Bhadana, Inana & Rupasar, Tehsil Mundwa& District: Nagaur (Rajasthan).The Latitude of the site falls between 27° 03' 0.3" N to 27° 05' 4" N and Longitude 73° 50' 37.5" E to 73° 51' 14"E.

The Ministry had issued TOR to M/s. Chemical Limes Mundwa Pvt. Ltd., vide letter no.- J-11015/144/2012-IA.II (M) dated 04.02.2013 which is valid for two years i.e. upto 03.02.2015 . Extension of validity of TOR is required for a period of two years as base line environmental data has been collected, draft EIA report prepared and public hearing documents are yet to be submitted for the project.Delay in conduct of public hearing occurred due to delay in extension of mining lease period, approval of mining plan. The Committee noted that the Project Proponent has submitted the proposal after expiry of the TOR. The Committee deliberated the issues and is of the view that as per OM dated 8th October, 2014, validity of TOR may be for four years.

Based on the information furnished and discussions held, the Committee **recommended** the extension of the validity of TOR for two year i.e. **from 04.02.2015 to 03.02.2017.**

Additional items with the permission of Chair

(3.1). Enhancement in production capacity of Dhandra Gypsum Mine from 35,000 TPA to 1,00,000 TPA (ROM) of Gypsum by M/s FCI Aravali Gypsum and Minerals India Ltd., located at village Dhandra, Tahsil Anopgarh, District Sriangagar, Rajasthan (MLA: 132.37ha) (Consultant: Consulting Engineers Group Ltd, Jaipur)-Reconsideration of EC

The proposal of M/s FCI Aravali Gypsum and Minerals India Limited (FAGMIL) is for expansion in production capacity of Gypsum from 35,000 TPA to 1,00,000 TPA (ROM) from their Dhandra Gypsum Mine. The mine is located near village: Dhaandra, Tehsil: Shri Vijay Nagar, District: Shri Ganganagar, Rajasthan. The Project site is covered under Survey of India Toposheet no: 44 G/8 and the area falls between 29° 02'45.03" – 29°02'59.00" N Latitudes & 73° 19'19.07" - 73° 20'27.03" E Longitudes. The elevation of the ML area varies from 149-163 m AMSL.

The proposal of TOR was considered by the Expert Appraisal Committee (Mining) in its meeting held during 19th -21st December, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by the Ministry vide letter no. J-11015/295/2012.IA.II (M), dated 05.03.2013. EIA/EMP Report has been submitted online to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

The Proposal of EC was earlier placed in the EAC meetings held during September 25-26, 2014 and January 20-22, 2016 wherein the Committee is of the view that since this is a proposal of enhancement of production capacity therefore, EC Compliance from the Regional Office of MoEFCC based on field monitoring is required. The Committee deliberated the issues and deferred the proposal.

The Committee noted that the Ministry has earlier accorded the Environmental Clearance, vide letter no. J-11015/145/2005-IA-II (M), dated 26.05.2006 for production of 35,000 TPA of Gypsum. The certified compliance Report of the conditions stipulated in the earlier EC was submitted by the Regional Office of MoEFCC, Lucknow, vide letter no IV/ENV/R /Mine-290/425/2006, dated 9th February, 2016. Now based on the compliance report, the proposal is placed in this meeting. The Committee deliberated the issues on the compliance of earlier EC conditions and noted that the compliance is adequate.

Total Mine Lease Area is 132.37 ha. No forest land is involved. The mining lease was granted to M/s FCI Aravali Gypsum & Minerals India Limited (FAGMIL) by State Govt. of Rajasthan, vide letter No. P3(137) mines / group-2/08, Jaipur, dated 13-12-2011. Mining Scheme with Progressive Mine Closure Plan has been approved by

Government of Rajasthan office of Superintending Mining Engineer Bikaner Cercle, Bikaner Letter of SME Bikaner Vide Letter No. SME/BKN/Ganga/Major/ML-1/02/69,dt.06-01-2012.

Method of Mining operations are carried out by semi-mechanized opencast method without any drilling and blasting. Project Proponent reported that the lease area of 132.37ha, of which 86.00 ha is Government wasteland, 46.37ha is private agricultural land. During the project period (life of mine) total 120 ha area will be covered under excavation and this worked out area will be backfilled simultaneously with some depression of 0.5 to 0.6 m and plantation and agriculture will be done on backfilled area.

Project Proponent reported that no National Parks/Wildlife Sanctuaries /Biosphere Reserves/Wildlife Corridors/Tiger/Elephant Reserves are located within the 10 km study area of the mine lease. The Deputy Conservator of Forest Sriganaganagar, has confirmed that there is no Schedule-I species found in the study area. Baseline data was collected for the period Post-Monsoon season of 2012 i.e. October – November 2012 and December 2014. The analytical results of samples collected for all parameters were found within permissible limits.

Public Hearing was conducted on 26.07.2013 at Gram Panchayat Bhawan, Gomawali, Tehsil: Anoopgarh/ Sri Vijaynagar, District: Sri Ganganagar. The Public Hearing was presided over by Shri Hazarilal, Additional District Magistrate (Admin), Suratgarh, District: Sriganaganagar. The representative from Rajasthan State Pollution Control Board was also present. The issues raised during Public Hearing were discussed during the meeting, which inter-alia, includes construction of community center, Health Care/Sanitation, Scholarship for children (Education), Drinking water facilities and Afforestation/Road side Plantation. The Project Proponent has submitted Action plan along with budgetary allocation on the issues raised in Public Hearing. The Committee deliberated the issues raised during Public Hearing and is of the view that the Project Proponent shall implement the Action Plan.

Total cost of the Project is Rs. 55.27 Lakhs. Capital cost for environmental protection measures is Rs. 55.27 Lakhs and Recurring cost is Rs. 3.3 Lakhs per annum. Project Proponent has earmarked Rs 39.45 Lakhs for socio-economic welfare measures for the nearby villages other than R&R plans. Project Proponent reported that there is no court case pending against the Project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for **Enhancement in production capacity of Dhandra Gypsum Mine from 35,000 TPA to 1,00,000 TPA (ROM) of Gypsum.**

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

(3.2):Mining of River Sand Bajri (Minor Mineral) with production capacity of 22.4 Lakhs TPA (ROM) by M/s Surya Associates, located near 60 revenue villages viz. Heerawas, Dujanawa, SonaiLaca, Sirana, Singariand othersof Tehsil-Rohat, District-Pali, Rajasthan (MLA 3789.0ha) (Consultant: EQMS INDIA PVT. LTD. INDIA)-Re-Consideration of EC

The proposal of M/s Surya Associates is for mining of Bajri (Minor Mineral) at 60 revenue village(s) of Tehsil-Rohat, District-Pali, Rajasthan with proposed production capacity of 22.4 Lakh TPA (ROM) of Bajri in the mine lease area of 3789.0 ha. The mine lease area lies in Bandi, Sukri, Punphariya, Guhia Bala and Rediya River bed. The Latitudes and Longitudes of the mine lease area lies between 25°33'00.00"N to 26°07'00.00"N and 72°45'00.00"E to 73°24'00.00" E on Survey of India toposheet number 45 G/2, 45 G/5, 45 G/6, 45G/7 and 45G/10.

The proposal of EC was earlier considered by the Expert Appraisal Committee in its Meeting held during **May 27-29, 2015 and January 20-22, 2016**. The Committee deliberated and deferred the proposal as to deliberate these Sand Mining Projects of Rajasthan on how should these Projects be dealt with and what specific conditions could be imposed in respect of these projects. The committee was of the view that this project will be discussed in next EAC Meeting without calling the Project Proponent. Accordingly the proposal is placed in this meeting.

The Committee deliberated the issues and also noted that the **replenishment rate is less than the excavation of mineral accordingly**; the Committee is of the view that Project Proponent shall **decrease/stop** the mining of Bajri, in case the replenishment of Bajri is lower than the approved rate of production, till the replenishment is completed.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for **Mining of River Sand Bajri (Minor Mineral) with production capacity of 22.4 Lakhs TPA (ROM)**.

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 meter from surface of sand deposit and 1 meter above from the water level of the River channel whichever is reached earlier; (ii) **Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.** (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) 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.; (v) The number of trips of the trucks shall not exceed the estimated quantity of **401 trucks (20 tonnes capacity) trips per day**. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) 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; (vii) **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; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank

with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(3.3):Mining of Mineral Sand Bajri (Minor Mineral) with proposed production capacity of 5.60 Lakh TPA (ROM) by M/s Abhimanyu Choudhary, located near 14 Revenue village(s) of Tehsil-Sahada, District-Bhilwara, Rajasthan (287.58ha) (Consultant: EQMS India Pvt. Ltd, Delhi)-Re-consideration of EC.

The proposal of Shri Abhimanyu Choudhary is for mining of Sand/Bajri (Minor Mineral) at 14 Revenue village(s) of Tehsil-Sahada, District-Bhilwara, Rajasthan with proposed production capacity of 5.60 Lakh TPA (ROM) of Bajri in the mine lease area of 287.58ha. The mine lease area lies in Chandrabhaga River bed. The Latitudes and Longitudes of the mine lease area lies between 25°11'00.00"N - 25°03'00.00"N and 74°04'00.00"E - 74°14'00.00"E on Survey of India toposheet number 45K/4.

The proposal of EC was earlier considered by the Expert Appraisal Committee in its Meetingsheld during **April 29-30, 2015and January 20-22, 2016**. The Committee deliberated and deferred the proposal as to deliberate these Sand Mining Projects of Rajasthan on how should these Projects be dealt with and what specific conditions could be imposed in respect of these projects. The committee was of the view that this project will be discussed in next EAC Meeting without calling the Project Proponent. Accordingly the proposal is placed in this meeting.

The Committee deliberated the issues and also noted that the **replenishment rate is less than the excavation of mineral accordingly;** the Committee is of the view that Project Proponent shall **decrease/stop** the mining of Bajri, in case the replenishment of Bajri is lower than the approved rate of production, till the replenishment is completed.

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

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 meter from surface of sand deposit and 1 meter above from the water level of the River channel whichever is reached earlier; (ii) **Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.** (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical

checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) 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.; (v) The number of trips of the trucks shall not exceed the estimated quantity of **100 trucks (20 tonnes capacity) trips per day**. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) 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; (vii) **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; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(3.4): Mining of River Sand Bajri (Minor Mineral) with proposed production capacity of 33.6 Lakh TPA (ROM) by M/s Manjeet Chawla, located at Revenue village(s) of Tehsil-Malarana Dungar, District-Sawai Madhopur, Rajasthan (MLA: 1054.78ha)(Consultant-EQMS India Pvt. Ltd.)- Re-Consideration of EC

The proposal of Lessee Shri Manjeet Chawla is for mining of Bajri (Minor Mineral) at 12 revenue village(s) of Tehsil-Malarna Dungar, District-Sawai Madhopur, Rajasthan with proposed production capacity of 33.6 Lakhs TPA (ROM) of Bajri in the mine lease area of 1054.78ha. The mine lease area lies in Banas riverbed. The Latitudes and Longitudes of the mine lease area lies between 26°10'30" N to 26°15'30" N and 76°06'00" to 76° 35'00" E on Survey of India toposheet number 54 B/4, 54 B/8, 54 B/12. As per Seismic Zoning Map of India IS: 1893(Part-1):2002, the project is located in seismic zone-II.

The proposal of EC was earlier considered by the Expert Appraisal Committee in its Meeting held during **January 20-22, 2016**. The Committee deliberated and

deferred the proposal as to deliberate these Sand Mining Projects of Rajasthan on how should these Projects be dealt with and what specific conditions could be imposed in respect of these projects. The committee was of the view that this project will be discussed in next EAC Meeting without calling the Project Proponent. Accordingly the proposal is placed in this meeting.

The Committee deliberated the issues and also noted that the **replenishment rate is less than the excavation of mineral accordingly**; the Committee is of the view that Project Proponent shall **decrease/stop** the mining of Bajri, in case the replenishment of Bajri is lower than the approved rate of production, till the replenishment is completed.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for **Mining of River Sand Bajri (Minor Mineral) with production capacity of 33.60 Lakhs TPA (ROM).**

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 meter from surface of sand deposit and 1 meter above from the water level of the River channel whichever is reached earlier; (ii) **Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.** (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) 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.; (v) The number of trips of the trucks shall not exceed the estimated quantity of **600 trucks (20 tonnes capacity) trips per day.** Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) 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; (vii) **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; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered

trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(3.5):Mining of River Sand Bajri (Minor Mineral) with proposed production capacity of 16.80 Lakhs TPA (ROM) by lessee Shri Narottam Singh Jadaun, located at Revenue villages of Tehsil and District – Dausa, Rajasthan (MLA: 2031.98ha) (Consultant: Udaipur Min Tech Pvt. Ltd., Udaipur)–Re-Consideration of EC.

The proposal of lessee Shri Narottam Singh Jadaun is for mining of River Bed material (Minor Mineral) on Ban Ganga River & its connected flow nallhs with proposed production capacity 16.80 TPA (ROM) in the mine lease area of 2031.98ha. The mine lease area is located at near Ban Ganga River & its connected flow nallhs. The mine is located at Revenue villages of Tehsil and District– Dausa, Rajasthan. The Latitudes and Longitudes of the mine lease area are 26° 55'00" to 27° 00'00" N & 76° 13' 00" to 76° 28' 00" E Respectively on Topo Sheet no. 54 B/1,5,9 & 54 A/4 & 8. The project is located at seismic zone-II

The proposal of EC was earlier considered by the Expert Appraisal Committee in its Meeting held during **January 20-22, 2016**. The Committee deliberated and deferred the proposal as to deliberate these Sand Mining Projects of Rajasthan on how should these Projects be dealt with and what specific conditions could be imposed in respect of these projects. The committee was of the view that this project will be discussed in next EAC Meeting without calling the Project Proponent. Accordingly the proposal is placed in this meeting.

The Committee deliberated the issues and also noted that the **replenishment rate is less than the excavation of mineral accordingly**; the Committee is of the view that Project Proponent shall **decrease/stop** the mining of Bajri, in case the replenishment of Bajri is lower than the approved rate of production, till the replenishment is completed.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for **Mining of River Sand Bajri (Minor Mineral) with production capacity of 16.80 Lakhs TPA (ROM)**.

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 meter from surface of sand deposit and 1 meter above from the water level of the River channel whichever is reached earlier; (ii) **Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.** (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) 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.; (v) The number of trips of the trucks shall not exceed the estimated quantity of **300 trucks (20 tonnes capacity) trips per day**. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) 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; (vii) **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; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(3.6):Mining of Mineral Bajri (Minor Mineral) in the Banas River, Sukli Nadi, Hukli Nadi, Gokuli Nadi, Kukri Nadi with proposed production capacity of 48.0 LakhsTPA (ROM) by M/s Paarasmal Ghanchi, located at village (s)- Patumbri, Bhavari, Nadiya and others, Tehsil-Pindwara, District-Sirohi, Rajasthan (MLA:588.14ha)- Re-Consideration of EC.

The proposal of M/s Paarasmal Ghanchi is for mining of Bajari (Minor Mineral) with proposed production capacity of River Sand (Bajri) Mining Project with

proposed production capacity of 48.0 Lakhs TPA (ROM) in the mine lease area of 588.14ha. The mining lease area is located in village (s) – Patumbri, Bhavari, Nadiya and others, Tehsil- Pindwara, District–Sirohi, Rajasthan. The Mining lease area lies on Banas River, Sukli Nadi, Hukli Nadi, Gokuli Nadi, Kukri Nadi. The geographical extends of mining lease area are: Latitudes: 24°33'6.8674"N to 24°52'12.6061"N, Longitudes: 72°51'4.3130"E to 72°56'28.1436"E on the Survey of India toposheet no. 45 H/1, 45H/2, 45 D/13, 45D/14. The project is located in seismic zone-III.

The proposal of EC was earlier considered by the Expert Appraisal Committee in its Meeting held during **January 20-22, 2016**. The Committee deliberated and deferred the proposal as to deliberate these Sand Mining Projects of Rajasthan on how should these Projects be dealt with and what specific conditions could be imposed in respect of these projects. The committee was of the view that this project will be discussed in next EAC Meeting without calling the Project Proponent. Accordingly the proposal is placed in this meeting.

The Committee deliberated the issues and also noted that the **replenishment rate is less than the excavation of mineral accordingly**; the Committee is of the view that Project Proponent shall **decrease/stop** the mining of Bajri, in case the replenishment of Bajri is lower than the approved rate of production, till the replenishment is completed.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for **Mining of Mineral Bajri (Minor Mineral) in the Banas River, Sukli Nadi, Hukli Nadi, Gokuli Nadi, Kukri Nadi with proposed production capacity of 48.0 Lakhs TPA (ROM)**.

The Committee **recommended additional specific conditions** viz. (i) Excavation will be carried out up to a maximum depth of 3 meter from surface of sand deposit and 1 meter above from the water level of the River channel whichever is reached earlier; (ii) **Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.** (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) 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.; (v) The number of trips of the trucks shall not exceed the estimated quantity of **800 trucks (20 tonnes capacity) trips per day**. Transport of minerals shall be done either by dedicated road or it should be ensured

that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) 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; (vii) **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; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

(3.7):Mining of Mineral Bajri (Minor Mineral) with production capacity of 14 Lakhs TPA (ROM) by M/s Shekhawat Associates, located near 113 Revenue villages of Tehsil-Sojat, District-Pali, Rajasthan (MLA:4316.0ha)-Re-consideration of EC.

The proposal of M/s Shekhawat Associates is for Mining of Mineral Bajri (Minor Mineral) with production capacity of 14 Lakhs TPA (ROM) in the mine lease area of 4316.0ha. The mining lease area is located near 113 revenue villages viz. Akbai Ki Dhani, Ajeetpura, Atbara, Bagri-I, Bagri-II, Bagawas, Bariyala, Basna and others, Tehsil-Sojat, District-Pali, Rajasthan. The mine lease area lies in Sukri, Lilri, Guhiya and Rediya River bed. The Latitudes and Longitudes of the mine lease area lies between 25°43'00.00"N to 26°14'00.00"N and 73°12'00.00"E to 74°05'00.00"E Eon Survey of India toposheet number 45 G/5, 45G/9, 45G/13, 45 F/8, 45 F/12 and 45 F/16. The project is located in seismic zone-II.

The proposal of EC was earlier considered by the Expert Appraisal Committee in its Meeting held during **January 20-22, 2016**. The Committee deliberated and deferred the proposal as to deliberate these Sand Mining Projects of Rajasthan on how should these Projects be dealt with and what specific conditions could be imposed in respect of these projects. The committee was of the view that this project will be discussed in next EAC Meeting without calling the Project Proponent. Accordingly the proposal is placed in this meeting.

The Committee deliberated the issues and also noted that the **replenishment rate is less than the excavation of mineral accordingly**; the Committee is of the view that Project Proponent shall **decrease/stop** the mining of Bajri, in case the replenishment of Bajri is lower than the approved rate of production, till the replenishment is completed.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for Environmental Clearance for **Mining of Mineral Bajri (Minor Mineral) in the Banas River, Sukli Nadi, Hukli Nadi, Gokuli Nadi, Kukri Nadi with proposed production capacity of 48.0 LakhsTPA (ROM).**

The Committee **recommended additional specific conditions** viz.(i) Excavation will be carried out up to a maximum depth of 3 meter from surface of sand deposit and 1 meter above from the water level of the River channel whichever is reached earlier; (ii) **Project Proponent shall decrease / stop the mining of Bajri, in case the replenishment is lower than the approved rate of production, till the replenishment is completed.** (iii) Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; (iv) 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.; (v) The number of trips of the trucks shall not exceed the estimated quantity of **251 trucks (20 tonnes capacity) trips per day.** Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages; (vi) 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; (vii) **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; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; Washing of all transport vehicle should be done inside the mining lease; (ix) No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any and (x) Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.

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

Day 3: 25thFEBRUARY, 2016 (THURSDAY)

Workshop on the "Carrying Capacity Study for Environmentally Sustainable Mining of Iron & Manganese Ore in Keonjhar, Sundergarh and Mayurbhanj Districts of Odisha State"

MoEF&CC, New Delhi has entrusted CSIR-NEERI, Nagpur a study titled "Carrying Capacity Study for Environmentally Sustainable Mining of iron & Manganese ore in Keonjhar, Sundargarh & Mayurbhanj districts of Odisha".

To discuss the study findings and decide future course of action regarding iron ore mining activities in an environmentally sustainable manner for the overall development of the region a meeting/ workshop along with the expert appraisal committee (EAC) of the non coal mining sector of the Ministry was organized in the Ministry at New Delhi on Feb 25, 2016 between 10:30 am & 2 pm. Different Stakeholders like the representatives from Odisha State Deptt. of Steel & Mines, Geology, OSPB, MoEF (RO), IBM&CGWB, representatives from different mining groups (Tata, SAIL, Rungta, OMC, OMDC, ESSEL, Jindal, MG Mohanty, S.N. Mohanty, Serajuddin, KSJA, AMTC, etc.), EZMA representatives, NEERI Study Team, and others were also invited for this Workshop.

Mr. M.K. Singh, Joint Secretary, MoEF&CC welcomed the participants, and briefed about the purpose of the Workshop. Dr. S.K. Goyal, Senior Principal Scientist & Head, EIRA Division, CSIR-NEERI, Nagpur presented details of the project (Objective, Scope of Work, Approach, Salient Findings, Study requirements etc.). Mr. G. Kumarswamy, on-behalf of Eastern Zone Mining Association (EZMA), Bhubaneswar presented status of environmental management practices adopted by different type and capacity iron ore mines for protection of environmental degradation and social upliftment in the study region. Dr. Ravishekhar, Principal Scientist, CSIR-Central Road Research Institute (CRRI), New Delhi presented details of road network and traffic study conducted by CRRI for Joda-Barbil area, and informed that after improvement in road network as suggested, road network can support transport of iron ore up to 214 MTPA in Joda-Barbil area. Subsequently, Dr. S.K. Goyal presented NEERI's approach on way forward for the study.

All the participants expressed their opinion about the study and requirement for the iron ore-mining sector in the region. All the EAC members and the participants were asked to comment on the study findings and suggest way forward for the study from different perspectives viz. environmental status and environmental sustainability, resources availability, forests & wildlife protection, elephant corridor, compensatory afforestation, water bodies, future demand for iron ore, infrastructural requirements, transport network etc. leading to overall development of the region through environmentally sustainable iron ore mining activities in the region.

Mr. M.K. Singh, Joint Secretary has summarized the discussions and requested all the participants to provide their comments/suggestions/inputs to Dr. S.K. Goyal within a week's time for compilation and further analysis, leading to submission of proceedings of the workshop/brief report at the earliest.

The Workshop ended with 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.

Annexure II

List of Participants

1.	Dr.Ajai Kumar	Chairman
2.	Shri B Ramesh Kumar	Member
3.	Prof. Dr. K.S. Rana	Member
4.	Prof. A. K. Bhatnagar,	Member
5.	Prof. S. Ramakrishna Rao	Member
6.	Dr. A.L. Ramanathan	Member
7.	Dr. Tushar Kant Joshi	Member
8.	Shri Santosh Gupta	Member
9.	Dr. Hemant Sahastrabudhe	Member
10.	K.S Yadav, Representative of Mines Ministry	Member
11.	Dr U. Sridharan	Member Secretary

List of Representatives of the Project Proponents

- 1. Representative of M/s Steel Authority of India Ltd.**
- 2. Representative of M/s SreeJayajothi Cements Ltd.**
- 3. Representative of M/s ACC Ltd.**
- 4. Representative of M/s Sri Somesh Bharadwaj**
- 5. Representative of M/s Dalmia Cement (Bharat) Ltd.**
- 6. Representative of M/s Ultra Tech Cement Ltd.**
- 7. Representative of M/s. Shri Bajrang Power and Ispat Ltd**
- 8. Representative of M/s Veet Rag Homes Pvt. Ltd.**
- 9. Representative of M/s Ashapura Minechem Limited**
- 10. Representative of M/s Larsen & Toubro Ltd**
- 11. Representative of M/s Uttarakhand Forest Development Corporation**
- 12. Representative of M/s Lessee Shri Naresh Gautam**
- 13. Representative of M/s Chandak Associates**
- 14. Representative of M/s Mangal Singh Solanki**
- 15. Representative of M/s Lessee Shri Bharat Singh Shekhawat**
- 16. Representative of M/s Kuber Associates**
- 17. Representative of M/s Smt. Tamanna Begum**
- 18. Representative of M/s Lessee Shri Narendra Agarwal**
- 19. Representative of M/s FCI Aravali Gypsum and Minerals India Ltd**
- 20. Representative of M/s Mahadev Mining Works**
- 21. Representative of M/s Shri Krishna Gopal**
- 22. Representative of M/s Associated Soapstone Distributing Company Pvt. Ltd**
- 23. Representative of M/s Trinetra Cement Limited**
- 24. Representative of M/s J.K. White Cement Works**
- 25. Representative of M/s Wonder Cement Ltd.**
- 26. Representative of M/s Asian Mining Associates**
- 27. Representative of M/s Chemical Limes Mundwa Pvt. Ltd**
- 28. Representative of M/s Surya Associates**
- 29. Representative of M/s Abhimanyu Choudhary**
- 30. Representative of M/s Manjeet Chawla**
- 31. Representative of M/s lessee Shri Narottam Singh Jadaun**
- 32. Representative of M/s Paarasmal Ghanchi**
- 33. Representative of M/s Shekhawat Associates**
