

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

SUMMARY RECORD OF 13th MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The 13th Meeting of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment and Forests was held on **12th November, 2013**. The list of participants is annexed.

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

Item No. 1:

1.1 Confirmation of the minutes of the 12th EAC Meeting.

The Minutes of the 12th Meeting of EAC held during October 31-November 01, 2013 were confirmed and circulated.

Agenda Item No. 2:

(2.1).Renewal of mine lease and enhancement of Production of Copper Ore Kendadih mine from 0.21 million TPA to 0.45 million TPA of M/s. Hindustan Copper Limited (HCL), located in villages Uparbandha, Sohada, Benashol, Terenga, Kendadih, under Ghatsila sub-division of East Singhum District, Jharkhand (1139.60 ha) (Consultant: SENES Consultants India Pvt. Ltd.)-Reconsideration of EC.

The proposal is for Enhancement of Production of Copper Ore in Kendadih mine from 0.21 million TPA to 0.45 million TPA of M/s. Hindustan Copper Limited (HCL). The mine is located in villages Uparbandha, Sohada, Benashol, Terenga, Kendadih under Ghatsila sub-division of East Singhum District, Jharkhand. The Latitudes and Longitudes of the mine lease area are 22°34'16" N to 22°37'22" N and 86°23'33" E to 86°27'07"E respectively and geographic location of the site falls under the Survey of India's Topo- Sheet No. 73 J/6.

The proposal was earlier considered by the Expert Appraisal Committee in its meeting held during 23th -25th January, 2012 to determine Terms of Reference (TORs) for undertaking detailed EIA study. The TORs were issued by the MoEF vide letter no. J-11015/280/2011-IA.II (M) dated 28th February, 2012. The proponent submitted its application to the Ministry for seeking environmental clearance after conducting public hearing.

The proposal was earlier considered by the Expert Appraisal Committee in its meeting held during July 22-24, 2013 to appraisal of EC wherein the Committee sought the additional information. PP had submitted the clarifications/ information and accordingly the proposal was considered in the present meeting.

The mine lease renewal felt due in June 2012. The Mining Lease area is 1139.60 ha which include 638.784ha of forest land. Mine Plan was approved by the IBM vide letter No. 314(3)/2012-MCCM (CZ)/MP-26 dated 27.05.2013. The detailed break-up of land use category are as follows:

Land Use Category	Area (ha)
Agriculture Land	282.53
Govt. Waste Land	201.08
Community Waste Land	7.54
District Board Land	8.19
Education Board Land	1.42
Forest land	638.84
Total	1139.60ha

It is informed by the Project Proponent that Stage I Forest Clearance (FC) for an area of 225.363 ha has been obtained on 30.07.2009 from the MoEF. The method of mining will be underground and semi- mechanized and the waste rock will be utilized in underground backfilling. The workings extend over a strike length of 1500 m and in depth up to 187m. PP informed that No beneficiation plant is proposed.

PP informed that 12,500 m³ per year waste will be generated from the underground mining activity and same will be backfilled in the mine voids. The total water requirement is 260.2 KLD for mining operation. PP informed that Application for Permission to Abstract Ground water has been submitted to Central Ground Water Authority on 17.12.2012 and to Secretary, Water Resource Department, Govt. of Jharkhand for Industrial Water on 21.12.2012.

A Hydrogeological study has been carried out by Central Institute of Mining and Fuel Research and the Report was discussed. PP mentioned that the underground mine has already intersected the aquifer and presently entire underground mine is waterlogged. Bulk of the water from the hills flows in to Subarnarekha River. The underground Kendadih mine is located towards the foothills. The ground water data monitoring during this study period shows that no contamination, due to any percolation of mine waters, was recorded in the entire study area. However concentration of lead has been observed in these surrounding wells. Mine water will be discharged in to the surface drainage system from underground during dewatering and also mining operations. Total annual replenishable recharge (TARR) is evaluated 8.095 million m³/year while total annual draft from the sub-watershed area is 0.619 million m³/year. The net ground water available for future use is 6.261million m³/year. Study revealed that stage of ground water development is only 9.00 % and hence there is no dearth of water availability in the area. However, as per water conservation practice, rain water harvesting scheme will be implemented. PP reported that there is no Wild Life Sanctuary, National Park, Biosphere Reserves, Wildlife Corridors, Tiger/ Elephant Reserves/Schedule -I species within the 10 km radius of the mine lease area.

Baseline data was generated for the pre-monsoon season (March-May 2012). All the parameters for water and air quality were seen to be within permissible limits. The Committee noted that the chosen locations for base line ambient air quality and monitoring thereof are not as per the CPCB guidelines, which needs to be justified.

Public Hearing (PH) was conducted on 24th September 2012 at Surda Training Centre in Sohada village under the Chairmanship of Mr. Ganesh Kumar, Additional Deputy Commissioner, District East Singhbhum wherein representative of Jharkhand State Pollution Control Board were also present. The issues raised during the public hearing were discussed during the meeting held July 22-24, 2013 which inter-alia, included that there should not be any discharge of effluent from the mine area, raising of plantation, control of pollution, issues of ground water, providing education, local employment etc. As per the villagers' requirement, PP informed that local employment, education, ground water, plantation will be taken care of. The cost of project is 7,800 lakhs and Budget for EMP is Rs 203.365 lakh. There is no court case/ litigation pending against the project.

The Committee discussed the proposal in its meeting held during July 22-24, 2013 and deferred the proposal to be brought back to the Committee after the following information is submitted:

- (i) The Questionnaires needs to be resubmitted as it was not adequately filled;
- (ii) Compliance of ToRs are not properly addressed hence revised EIA report with regard to compliance of TORs needs to be submitted;
- (iii) Monitoring of ambient air quality and locations for base line data collection are not as per CPCB guidelines; hence need to be redone.
- (iv) The possibility of release of Radon gas, which is Radioactive in nature, while pumping mine water needs to be addressed for which, necessary measures to be taken for handling of Radon be provided and reported;
- (v) Analysis data w.r.t. pH of Mine water may be furnished;
- (vi) Action plan on the issues raised during Public Hearing with budgetary provisions be prepared in a tabular Form and provided;
- (vii) Permissions obtained to Abstract water from the Central Ground Water Authority & Water Resource Department, Govt. of Jharkhand may be submitted.

In this context, the PP had submitted the clarifications/ information with regard to above mentioned details and accordingly the proposal was considered in the present meeting.

The PP has mentioned that the monitoring of ambient air quality and locations for base line data collection are as per CPCB guidelines wherein the consecutive days of monitoring indicates consecutive sets of samples. Revised compliance of ToRs has been submitted. With regard to the possibility of release of Radon gas, PP mentioned that they conducted XRF analysis of ore and waste and have not found the radioactive material. However, necessary mitigation measures will be undertaken viz. continuous surveillance for presence of radon using radon detector, periodic monitoring of radon exhalation of worker, well designed ventilation network within underground mine and organizing training and awareness programs for the mine workers. PP reported that pH of mine water is measured as 6.2 which is well within the prescribed general standard for effluents discharge of environmental pollutants. Action plan on the issues raised during Public Hearing with

budgetary provisions is also provided.

The Committee noted that Permission has not yet been obtained from the Central Ground Water Authority & Water Resource Department, Govt. of Jharkhand to abstract underground and surface water respectively.

Based on the presentation made and discussion held, the Committee **recommended** the proposal for Environment Clearance subject to additional specific conditions that (i) mining shall not commence without necessary permissions for drawl of ground water from the Central Ground Water Authority and surface water from the Water Resource Department, Govt. of Jharkhand; (ii) Continuous monitoring of radioactive elements such as Radon should be undertaken till entire mine is dewatered; (iii) Mitigation measures such as well designed ventilation network within underground mine, provision of Personal Protective Equipment should be ensured and necessary training and awareness programs for mine workers should be undertaken, (iv) periodic monitoring of radon exhalation of worker should be included in the Occupational Health Monitoring Programme, (v) Continuous monitoring of pH of Mine water should be done and Reports furnished and (vi) The required precautions with respect to Sulphide Ores and Lead should be undertaken.

(2.2). Zutting Limestone Mine of M/s Murli Industries Ltd. Located at Vill-Zutting, Tehsil-Korpana, distt-Chandrapur, Maharashtra (58.52ha) (1.5MTPA) (Enviro Techno Consult Nagpur)-TORs

The proposal is for mining of 1.5 MTPA of lime stone from 58.52 ha Mine lease area by M/s Murli Industries Ltd. Located at Vill-Zutting, Tehsil-Korpana, distt-Chandrapur, Maharashtra. The latitude and longitude of the site are Latitude: 19°48'15"- 19°48'27"N; Longitude: 79°03'31"- 79°03'47"E. The lease is located at Zutting in Korpana tehsil of Chandrapur district and is surrounded by four other leases belonging to the proponent. Environmental clearance for each of these leases has been granted by SEAC, Mumbai. The Mining scheme has been approved vide IBM letter no. 314(3)/2009-MCCM(CZ)/S-53/1563, dated 12/10/2012. The total reserves are 11.44 million tonnes (MT), deposits blocked in 7.5 m barrier & pit slopes are 0.529 and 0.219 MT respectively. Mineable deposits up to 8m depth have been estimated to be 10.67 MT. The mining will be open cast by mechanized method. The mine lease has been transferred from M/s Balaji Mineral Industries to Murli Industries vide State Government order no. MMN-1007 CR. 2361 Ind-9 dated 12.02.2008.

The water requirement is estimated as 80.0m³/day. It was reported by the PP that there is no wildlife sanctuary/tiger reserve/national park, etc within the 10 km radius area around the mine lease. However, it was reported that the Critically Polluted Area is located about 30 km from mine site. It was reported by the PP that there is no court case/litigation pending against the project. The Project proponent requested to allow for collection of baseline data from 01.12.2013. The Committee agreed to the request of project proponent.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I.

(2.3). Bajri (Minor Mineral) Mine with production capacity of 0.84 million TPA by M/s Ashu Singh Bhati, located at Vill-Devaria and others, Tehsil-Shahpura, Distt-Bhilwara, Rajasthan (624.39 hac) (Consultant: EMKAY Envrio Services Pvt. Ltd., Jaipur)- TORs

The proposal of M/s Ashu Singh Bhati is for River Sand Mining (Khari, Mansi and Sameliya River) with Production Capacity of 0.84 million TPA of Sand in 624.39 ha of the Lease hold. The mine lease area is located near Villages - Devaria, Pranotia, Mewda, Sardarpura, Narayanpura, Rajpura, Ralayata, Gegwa, Arwad, Arniya Dhoda, Badla, Diyas, Dranop, Phulian Kalan, Ratanpura, Kajodia and Badta, Tehsil - Shahpura and District - Bhilwara, Rajasthan with an area of 624.39 ha. The Latitudes and Longitudes of mine lease area is

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

Mine working will be opencast by semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. Letter of Intent has been issued by the Superintending Mining Engineer (HQ), Directorate of Mines and Geology, Govt. of Rajasthan to Ashu Singh Bhati vide letter no P.10 (9) Khan/ Gr.-2/ 2013, Jaipur dated 27.02.2013 for removal of Bajri (Minor Mineral) from Gair Mumkin Nadi, Nallah and Khasara areas (excluding prohibited areas) in revenue villages of Tehsil Shahpura, District Bhilwara, Rajasthan for a period of 5 years from the date of lease agreement. Total water requirement will be 13 KLD and will be supplied from the bore well from nearby villages through tankers for dust suppression, drinking and plantation etc. The total cost of project would be around Rs. 1.4 Crore (Tender Cost).

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

(2.4).Kalingapatnam Mineral Sands Mine of M/s. Trimex Ores Private limited located at Santabommali and Polaki Mandal in Srikakulam District, Andhra Pradesh. (1538.57)(4.0 MTPA)(Bhagavathi Ana Labs Ltd. Hyderabad)-TORs

The proposal is for mining of 4.0 MTPA Mineral Sands from 1538.57 ha Mine lease area and establishment of Pre-Concentration Plant of 600 TPH capacity and Mineral Separation Plant of 90 TPH capacity within the mine lease area for processing the mineral sand produced from the mine by M/s Trimex Ores Pvt Ltd located at Umilada, S.B.Kotturu, R.H.Puram, Malagam, Seepuram, Lakkivalasa, Maruvada & Meghavaram Villages of Santhabommali mandal and Nandigam, Ampalam, D.L.Puram, Rajapuram & Koduru villages of Polaki Mandal, Srikakulam District, Andhra Pradesh. The latitude and longitude of the site

are Latitude:18°21'10"N to 18°30'00" N; Longitude: 84°07'45"E to 84°17'15"E. The mine lease area is 1538.57 ha Non-Forest, Patta, D-Patta & Government Land.

It is proposed that mining will be carried out by opencast mechanized mining method involving dry mining and dredging. No drilling and blasting or sorting of the material at mine site are necessary. Run-off mine ore will be mined and concentrated with advanced environmental friendly equipment and technology, wherein ore mining, concentration, backfilling and afforestation on reclaimed land takes place simultaneously, thus limiting the gap between mining and rehabilitation to pre-mining stage to only a few months.

The water requirement is estimated as 500.0m³/hr. Conceptual mine development will be carried out in 884 Ha area, area for green belt will be 8.0 ha, roads will occupy 7.85 ha, area for statutory buildings will be 0.15 ha, area for mineral rejects will occupy 6.32 ha, area for MSP & PCB will be 24 ha, area under settlement is 62.75 ha, environment protective measures will be over 2 ha, creek area is 89.61 ha, agricultural land will be 15.2 ha, and area unused at conceptual stage will be 438.69 ha.

It was reported by the PP that there is no wildlife sanctuary/tiger reserve/national park, etc within the 10 km radius area around the mine lease. However, it was reported that Reserve forests viz Kotta Revu Peta (KR Peta) R.F. is adjacent. 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 TORs for undertaking detailed EIA study as per Annexure-I with additional TORs (i) CRZ clearance from the State Coastal Zone Management Authority shall be obtained and submitted along with EIA/EMP report. (ii) Likely impact on nesting of fauna on the sand beach (such as Olive riddle turtle nesting) shall be specified and clearance from the Competent Authority specifying that the lease is not a place for nesting for any fauna shall be submitted. (iii) Impact analysis on migratory birds of Back waters/Salt Pan (if located within buffer zone) shall be carried out in detail and report submitted. (iv) Costal Regulation Zone map and the area of mining site including services proposed to be located shall be superimposed and a composite map shall be provided. (v) Details of rate of replenishment of the extracted minerals shall be provided, (vi) Details of shoreline changes indicating erosion/ accretion shall be studied by an organization/ institute of repute and the report shall be submitted, (vii) Details of measures taken to prevent salt water intrusion into the mining area shall be provided, and (viii) Provision of CRZ notification, 2011 shall be strictly followed.

(2.5).Silica Sand Mine of M/s. Sri Kumaraswamy Silica Mines for the production of 3,40,000 Tonnes/Annum located at Village- Momidi Chillakur Mandal, S.P.S.R Nellore District, Andhra Pradesh. (136.944ha) (3,40,000TPA) (B.S. ENVI-Tech (P) Ltd Hyderabad)-TORs

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

(2.6).Colour Granite Mine of M/s Manvith Minerals Located at Vill- mallireddipalli, Mandal –Tanakallu, distt.Ananthapur, Andhra Pradesh (7.00ha)(Sri Sai Manasa Nature Tech(P) Limited Hyderabad)-TORs

The Mine Lease area is located at Sy. No.742 of Mallireddipalli Village, Tanakallu Mandal, Ananthapur District, Andhra Pradesh (7.00 ha). The point represented by Latitude

and Longitude in the site is 13°49'41.1"N to 78°07'55.4"E, the mine site falls in survey of India topo sheet no. 57 K/1. It is 'A' category project as the site is located within 10 Km radius i.e. Andhra Pradesh – Karnataka State boundary – 1.09 km. 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 proposed mining is by opencast semi-mechanized method for extracting of Colour Granite by developing benches of 6m height. It has been proposed to produce approximately 1541 m³/ annum of Colour Granite and granite waste of 11299 m³/ annum. It is proposed that the waste will be backfilled into the mined out pit at the end of the mining.

The Director of Mines and Geology, Hyderabad has granted the quarry lease under vide Notice No: 23296/ R4-1 /2012 dated 03-04-2013. Mining plan has been approved vide letter No. 1891-MP-ATP/2013 dated 01-06-2013 by Zonal Joint Director of Mines and Geology, Anathapuram, Govt. of A.P, Hyderabad. Total water requirement for the mining lease area is 3KLD. About 1 KLD will be required dust suppression purpose and 0.8 KLD for greenbelt and about 1.2 KLD for domestic purpose. This water will be supplied from bore wells/ tankers of the nearby area.

About 11299 m³/annum of granite waste (overburden) will be generated. A retaining wall will be constructed around the dump for preventing the sliding down of boulders. Solid waste will be disposed or utilized for filling excavated areas of the worked pit at the end of life of the mine. Weathered rock if it is sufficiently soft and devoid of rock fragments will be utilized for roads, formation of approach roads to quarries, construction works etc. It is reported by the project proponent that there is no court case/litigation is pending against the project. Estimated cost of project is Rs. 45 Lakhs.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I.

(2.7).NandiniKhudini Limestone Mines of M/s. ACC Ltd. Located at Village NandiniKhudini, Tehsil Dhamdha, distt. Durg, Chhattisgarh. (53.57ha)(0.15 to 1.03 MTPA) (EMRTC Consultants Pvt Ltd.)-TORs

The proposal is for enhancement of limestone production from 015 to 1.03 MTPA from the mine lease area of 53.57 ha. The Mine Lease area is located at Village NandiniKhudini, Tehsil Dhamdha, distt. Durg, Chhattisgarh. The Mine Lease area is between 21°22'48.2"- 21°23'20.6"N to 81°23'9.8"- 81°23'16"E. The entire lease area falls in non-forest area. The mining will be conventional opencast mechanized. Drilling will be done by deep hole track mounted drill machine. Blasting will be done by NONEL. Blasted material will be loaded with hydraulic shovel and front end loader into tippers. The loaded material will be transported by tippers to JCW. The water requirement would be about 20 KLD.

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. Shivnath and Amner river flows within 10 km area of the mines.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I.

(2.8).Black & Colour Granite Mine of M/s P. Gowtham Reddy, Located at Sy, No. 107/P & 13/P of Vill-ambodarapalli&Pathapalyam, Mandal-G.D. Nellore, Distt-Chittoor, Andhra Pradesh (8.099ha) (1062 M3/ANNUM(Average Production for 5 years) (Sri Sai Manasa Nature Tech(P) Limited Hyderabad)-TORs

The Mine Lease area is located at Sy. No: 107/P&13/P Ambodarapalli & Pathapalyam Village, G.D.Nellore Mandal, Chittoor District (8.099 ha), Andhra Pradesh. The point represented by Latitude and Longitude in the site is N 13°10'35.2" to E 79°15'06.7", the mine site falls in survey of India topo sheet no. 57 O/8. It is 'A' category project as the site is located within 10 Km radius i.e. Andhra Pradesh – Tamilnadu State boundary 1.03 km. 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 proposed mining is by opencast semi-mechanized method for extracting of Black and Colour Granite by developing benches of 5m height. It has been proposed to produce approximately 1062 m³/ annum of Black Granite and granite waste of 7,686 m³/ annum. It is proposed that the waste will be backfilled into the mined out pit at the end of the mining.

The Director of Mines and Geology, Hyderabad has granted the quarry lease under vide Proceedings No: Proceedings No. 11556/R5-1/2013 dt: 20/06/2013 dt: 11/06/2013. Total water requirement for the mining lease area is 5kL/d. About 3 KLD will be required dust suppression purpose and 1KLD greenbelt and about 1 KLD for domestic purpose. This water will be supplied from bore wells of the nearby area and tankers.

About 7686 m³ per annum of granite waste (overburden) will be generated. A retaining wall will be constructed around the dump for preventing the sliding down of boulders. Solid waste will be disposed or utilized for filling excavated areas of the worked pit at the end of life of the mine. Weathered rock if it is sufficiently soft and devoid of rock fragments will be utilized for roads, filling of road side ditches, formation of approach roads to quarries, construction works etc. It is reported by the project proponent that there is no court case/litigation pending against the project. Total cost of project is Rs. 80 Lakhs.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I.

(2.9).River Sand mining with production capacity 44,80,000 TPA (ROM) by M/s Satish Kumar, located at Revenue village(s) of Koputli, District-Jaipur, Rajasthan (766.53ha) (Consultant: M/s Udaipur Mintech Pvt Ltd.)-TORs

The proposal of M/s Satish Kumar is for River Sand Mining (Sota and Sabi River and its connected nallahs) with production capacity of 44,80,000 TPA (ROM) of Sand in 766.53 ha of the Lease hold. The mine lease area is located at Revenue village(s) of Koputli, District-Jaipur, Rajasthan. The mine lease area is located in toposheet no. 54 A/1 & A/2.

Mine working will be opencast by semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. Letter of Intent has been issued by the Govt. of Rajasthan vide letter no P.7(11) Khan/ Group-2/ 2013, Jaipur dated 05.03.2013 for removal of Bajri (Minor Mineral) in revenue villages of Tehsil Shahpura, District Bhilwara, Rajasthan for a period of 5 years from the date of lease agreement. Total water requirement will be 84 KLD and will be supplied from the bore well

from nearby villages through tankers for dust suppression, drinking and plantation etc. The total cost of project would be around Rs. 1.97 Crore.

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

(2.10).Talabasta Fireclay mines of M/s. TRL Krosaki Refractories Limited located at P.O. Belpahar, District Jharsuguda, Odisha. (58.500ha)(60,000 MT per annum)-TORs

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

(2.11).Sand, Stone and Bajri Situated in khasra Number 1834/1 of M/s D. R. Stone Crusher located at Mauzariyali, tehsil fatehpur, district Kangra, Himachal Pradesh (12.1816ha, 56250 metric TPA) (shivalik Solid Waste management Ltd.)-TORs

The proposal is river bed sand, stone and bajri mining with proposed production of 56250 metric TPA by M/s D.R. Stone Crusher at Khasra Number 1834/1, Village-Riyali, Tehsil Fatehpur, District Kangra, Himachal Pradesh. The Latitude and Longitude of the proposed site is 32°01'15.1" N - 32°01'15.6" N and 75°45'55"E - 75°46'48.7" E. The mine lease area is 12.1816 ha, which is a riverbed. It is 'A' category project as the site is located within 10 Km radius i.e. Himachal Pradesh – Punjab State boundary.

The mining method will be manual collection of sand stone and bajri using hand tools from the river bed. It was reported by the project proponent, that solid waste generation will be 5650 metric tons of waste silt and clay per annum would be left in the pits as back fill. 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. It was reported by the project proponent that there is no court case/litigation pending against the project and no violation. Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of replenishment studies, (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment, (iii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan.

(2.12).Khaprajola Stone Mine alongwith crusher with production capacity of 1,89,253 TPA (ROM) by M/s. Meem Devi, located at village Khaprajola, Police Station- Pakur (M), District- Pakur, Jharkhand (7.25 ha) (Consultant: Grass Root Research & Creation India Pvt. Ltd., Noida)-TORs

The proposal of M/s Meem Devi is for Stone Mine along with crusher with production capacity of 1,89,253 TPA (ROM) in 7.25ha. The Mine Lease area is located at Village Khaprajola, Thana Pakur, District Pakur, Jharkhand. The Mine Lease area is between 24° 36' 0.318" to 24° 35' 49.91"N and 87° 50' 0.833" to 87° 50' 25.42" E. The Project is located in seismic zone-III. It is a category A Project, due to Interstate boundary of Jharkhand & West Bengal (about 3 km South).

The Mining Lease was granted over an area of 7.25 ha in Village Khaprajola, Thana Pakur, District Pakur, Jharkhand in favour of Shri Satish Lakhmani. Initially mine Lease (Renewal) was granted in favour of Shrimati Meem Devi w/o of Late Ghanshyam Das for 10 years from 17/09/2010 to 16/09/2020. After the death of Shrimati Meem Devi, Mr. Satish Lakhmani is the present Project Proponent of the proposal.

Mine working will be opencast by semi-mechanized method along with crusher. The width of bench will be kept 5 m and height of bench will be of 1.5-3.0 m. The overall pit slope will be maintained 37°. Total water requirement will be 6.0 KLD. This water will be supplied from the bore well from nearby villages. The cost of the project is 22 Lakhs.

The Committee noted that it is a **violation case** as the PP had started production of stone without obtaining requisite prior environmental clearance from 2006 to 31.01.2013. PP informed that the mine is closed since 01.2.2013.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Details of dust protection measures to be taken; (ii) Details of cumulative impact due to other mines; and (iii) Details of occupational health and periodic health checkup of the worker.

(2.13).Setting up of "Proposed 68,360.52 MT Crude China Clay and 14,200.23 MT Finished (Washed) China Clay Mine by M/s Cossimbazar China Clay Mines (P) Ltd., located at Village(s) Katepara, Kahuldiha, Karanjia, Bhonda and Dumuria, Tehsil Hagamaria, District West Singhum, Jharkhand (156.877ha) (Consultant: Visiontek Consultancy Services Pvt. Ltd.)-TORs

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

(2.14).China Clay Mine with production capacity of 5218.24 TPA by M/s Cossimbazar China Clay Mines (P) Ltd., located at Village(s) Katepara, Kahuldiha, Karanjia, Bhonda and Dumuria, Tehsil Hagamaria, District West Singhum, Jharkhand (67.20ha) (Consultant: Visiontek Consultancy Services Pvt. Ltd.)-TORs

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

(2.15).Desilting/Quarrying River Sand in u/s and d/s of Kattalai Bed Regulator in Cauvery River over an Extent of 452.31 ha by M/s Public Works Department, State Government of Tamilnadu, located at Village(s) Mayanur/Sriramasamuthiram/Silaipillayaputtur, Tehsil- Krishnaraya-puram/Thottiyam, District-Karur & Trichy, Tamil Nadu-TORs

The proposal is for Desilting/Quarrying River Sand in u/s and d/s of Kattalai Bed Regulator in Cauvery River over an Extent of 452.31 ha by M/s Public Works Department,

State Government of Tamilnadu. The site is located at Village(s) Mayanur, Sriramasamuthiram, Silaipillayaputtur, Tehsil-Krishnarayapuram/ Thottiyam, District-Karur & Trichy, Tamil Nadu. The proposed production capacity is 30,20,203 cubic meters.

The PP has informed that the Tamil Nadu Government in its order vide G.O.Ms.No. 95, Industries (MMC-1) Department, Dt. 01.10.2003 has terminated the sand quarrying in Govt. poramboke and private patta lands and undertaken sand quarry work only by the Government through single department i.e. Public Works Department. Accordingly, the Tamilnadu Government issued amendment introducing Rule 38-A, of the Tamil Nadu Minor Mineral Concession Rules, whereby all existing leases for quarrying sand in Government lands and permissions granted in Ryotwari lands ceased to be effective with effect from 02.10.2003 and the right to quarry sand in the State vests with the Government.

The Committee noted that the total lease area is 452.31ha in two districts. There are two LOIs (one is 256.06ha in River Cauvery, District Karur and other is 196.25ha District - Trichy). The Committee was of the view that there shall be two applications for two different LOIs. Accordingly, PP needs to submit the revised Form-I and PFR for both the applications.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee sought the additional information:

- (i) Revised Form-I and PFR for both the applications;
- (ii) Report on particle size analysis and their respective mineralogy;
- (iii) Details of depth of sands in the lease; and
- (iv) Explanation regarding whether it is a mining proposal or desilting proposal.

The Proposal was **deferred** and it was decided by the Committee that the proposal can be considered in the next EAC meeting to be held during November 20-22, 2013 after the information is submitted.

(2.16).Enhancement of Iron ore mining with production capacity from 0.10 million TPA (ROM) to 0.50 million TPA (ROM) and installation of beneficiation plant of 50 TPH by M/s Sri Ram Mineral Company, located in Village Khasjamda, Barajamda & Param Balijori, West Singbhum District, Jharkhand. (265.878ha)(Consultant: Visiontek Consultancy Services (P) Ltd.)- TORs

The proposal is for enhancement of Iron ore mining with production capacity from 0.10 million TPA (ROM) to 0.50 million TPA (ROM) and installation of beneficiation plant of 50 TPH by M/s Sri Ram Mineral Company. The mine is located at village- Barajamda, Khasjamda and Param Baljori P.S. - Noamundi in Singhbhum West District of Jharkhand. The Latitude and Longitude of the site are 22⁰10'03" to 22⁰11'14" N and 85⁰25'48" to 85⁰27'00" E (Topo Sheet No. 73 F/8). The proposal was earlier placed in Expert Appraisal Committee in its meeting held during 16-18 January, 2013 wherein it was deferred due to inability of the project proponent to attend the meeting.

The Ministry of Environment & Forests has earlier accorded the Environmental Clearance vide letter No. J-11015/873/2007-IA. II (M) dated 05.11.2008 for production of 0.10 million TPA of Iron Ore.

The mine lease area is 265.878 ha, out of which 129.220ha is forestland and 136.658 ha is non-forestland. The mining plan is approved by IBM Vide Letter No.314 (3)/2012/MCCM (CZ)/MP-6/03 dated 21.12.2012 and valid upto 31.03.2016. Till the enforcement of Forest Conservation Act 1980, an area of 33.134 ha (18.69ha in forest land and 14.444 ha in non forest land) has been broken due to mining and allied activities. Mining activities within the forest area will be confined to already broken area during plan period (2011-2012 to 2015-2016). Lessee has obtained a forest clearance over broken area of 18.69ha in forest land. PP informed that Renewal application was submitted.

The mining operation is being carried out by fully mechanized method by using HEMM and trippers for excavation, production and transportation. The drilling operation is carried out by Wagon drill and/or Jack hammer. In present system of mining bench height is restricted to 6.0m with width 10m. The individual slope of benches would be kept 31° from vertical. The haulage road of 10m width and 1 in 16 gradient and ramp of 12m width and 1 in 10 gradients shall be made and maintained to reach the quarry floor. Faces will be excavated by excavator and the hard patches shall be blasted with explosives. Water required for domestic purpose, will be sourced from ground water, i.e., dug well of near by village. Water for other purposes will be drawn from Karo River. A total of 85KLD of water is required at the mine site daily for domestic as well as non-domestic purposes.

PP reported that there is no national park, wild life sanctuary, eco sensitive areas and Tiger Reserve situated within 10Kms from the lease area. However a proposal has been submitted to DFO, Chaibasa for investigation & Survey under Wildlife Protection Act, 1972. The following P.F, R.F & water bodies are situated within 10Kms from the lease area namely: Silpui P.F. – inside ML area, Noamundi P.F.- 3.23 Km SE, Karampada R.F.-5.31 Km, Kumirta P.F.- 4.75 Km NE, Pandrasali P.F. – 0.4 Km S, Ghatakuri R.F. – 4.23 Km, Thakurani R.F. – 2.75 Km S, Karo River – 4.60 Km, BetlataNala – 2.25 Km E, Koina River – 12.5Km W. The cost of project is 341.48 Lakhs. A sum of 9.28 lakhs has been spent during 2012-13 towards CSR. There is no court case /litigation pending against the project and no violation.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Compliance report by the Regional Office of MoEF of earlier EC accorded vide dated 05.11.2008; (ii) Status of commitments made in the earlier Public Hearing held; and (iii) Studies on Cumulative impact due to other mining activities in the surrounding area of the mine lease to be provided.

(2.17).Enhancement of Pipakheri Limestone (Building stone) Mine from production capacity of 1.0 lakh TPA (ROM) to 6.0 lakh TPA (ROM) by M/s Atikur Rahaman S/o Hazi Abdul Gafoor, located at Village Pipakheri, Tehsil Ramganjmandi, District Kota, Rajasthan (72.8234ha) (Consultant: Udaipur Mintech Pvt. Ltd.) –TORs

The proposal of M/s Atikur Rahaman is for enhancement of Pipakheri Limestone (Building Stone) Mining Project from production capacity of 1.0 lakh TPA (ROM) to 6.0 lakh TPA (ROM) of Limestone in 72.8234 ha. The mine lease area is located near Village Pipakheri, Taluka Ramganjmandi & District-Kota State of Rajasthan. The Latitudes and Longitudes of mine lease area are 24°39'59.26" N to 24°40'21.85" and 75°59'19.33" to 75°59'42.74".

The Ministry of Environment & Forests has earlier accorded the Environmental Clearance vide letter No. J-11015/73/2008-IA. II (M) dated 11.05.2010 for production of 1.0 Lakh TPA (ROM) of Limestone over an area of 83.61 ha.

Mining is done by mechanized opencast method. Originally the mining lease was granted for 10 years from 14-11-1992 to 13-11-2002 over an area of 83.61 ha. Then renewal of mining took place for 10 years from 14-11-2002 to 13-11-2012. The next renewal for 20 years was executed from 14-11-2012 to 13-11-2032 for a reduced area of 72.8234 Ha. The drilling is conducted through 115 mm dia. holes. Blasting will be done by slurry explosive with delay detonators. The height & width of bench will be kept at min. 8m. The lease period is valid for 20 years. Total lease area is 72.8234 ha with the proposed capacity of 6.00 lakh TPA (ROM).

Total water requirement will be 20 KLD and is supplied from the rain water storage in worked out pit and Tube well situated outside the lease area, for dust suppression, drinking and plantation etc. The total cost of project would be around Rs. 5.50 Crores.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Compliance report by the Regional Office of MoEF of earlier EC accorded vide letter dated 11.05.2010; (ii) Status of commitments made in the earlier Public Hearing held; and (iii) Studies on Cumulative impact due to other mining activities in the surrounding area of the mine lease to be provided; (iii) Details of utilization of crushed lime stone OB.

(2.18).Renewal of mine lease for Jawal China Clay & Soapstone Mine with production capacity of 2,26,800 TPA (ROM) by M/s UltraTech Cement Ltd., located at Near Villlage Jawal, Jagpura, Parmeshwarpura, Tehsil Kotri, District Bhilwara, Rajasthan (155.9ha) -(Consultant: Wolkem Consultancy Services, Udaipur)-TORs

The proposal of M/s UltraTech Cement Ltd. is for Renewal of mine lease for Jawal China Clay & Soapstone Mine with production capacity of 2,26,800 TPA (ROM) of the Lease hold. The mine is located Near Villlage Jawal, Jagpura, Parmeshwarpura, Tehsil Kotri, District Bhilwara, Rajasthan. The Latitudes and Longitudes of mine lease area are 25°22'46.1N to 25°23'46 N" and 74°59'24" to 75°00'32.1 E" on toposheet no. 45K/15 & 45O/3.

The mine lease area is 155.9 ha, out of which 35.6609ha is agricultural, 59.2864ha is grazing and 60.9537ha is waste land. There is no forest land in the lease area. The mining will be carried out by opencast mechanised without drilling and blasting. PP has informed that the mine has not produced any mineral since 1994 and No litigation / court case is pending against the project. Total water requirement is 20KLD. PP had applied for renewal of mine lease for 20 years from 27.03.2007 to 26.03.2027 vide application dated 25.06.2006. The mine plan was approved by IBM vide letter dated 25.06.2013.

The Proponent reported that No National Park / Wildlife Sanctuary/ Tiger Reserve/Archaeological sites are located within 10 Km radius of the mining lease area.

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

study as per Annexure-I with additional TORs to furnish Studies on Cumulative impact due to other mining activities in the surrounding area of the mine lease.

(2.19).Expansion of Chachandeeh Bauxite Mine of production capacity from 0.125 million TPA to 0.53 million TPA (ROM) by M/s. Madhya Pradesh State Mining Corporation Ltd., located at Village- Chachandeeh, Tehsil- Pushprajgarh, District- Anuppur, M.P. (148.181 ha) (Consultant: Bhagvathi Ana Lab, Hyderabad)-TORs.

The proposal is for expansion of bauxite production from 0.125 million TPA to 0.5 million TPA (ROM) from Chachandeeh Bauxite Mine in 148.181 ha mine lease area by M/s Madhya Pradesh State Mining Corporation Ltd., located at village Chachandeeh, Tehsil Pushprajgarh, District – Anuppur, M.P

The Ministry of Environment & Forests has earlier accorded the Environmental Clearance vide letter No. J-11015/443/2005-IA. II (M) dated 12.07.2006 for production of 1.25 LTPA (ROM) of bauxite over an area of 148.181 ha.

It is noted that MoEF had earlier issued TORs vide No. J-11015/1158/2007-IA.II (M) dated 18th July, 2008. Baseline studies for the project were conducted during summer season 2008. The public hearing was conducted on 6th January 2009. The mining scheme was approved by IBM vide letter No. MP/Anuppur/Bx/M.sch-32/11-12 dated 17.2.2012. Wild Life Management Plan was approved by Chief Wild Life Warden vide letter no 6252 dated 23.10.2013.

The mine lease area is 148.181 ha (revenue land). There is no forest land in the lease area. The mining will be carried out by opencast other than fully mechanised method of mining. All operations in the mine such as development, loading and transport will be carried out by utilizing HEMM. Development of ore will be carried out by manual as well as mechanized means. Jackhammer drilling and blasting of short holes will be carried out. Life of the mine is 17 years. The water requirement is estimated as 63.0 kld, which will be obtained from ground water. It is reported by the PP that Total Proved Reserves are 5.47 million tonnes & Probable Mineral Reserves are 3.16 million tonnes. The height of mine bench will be 3m and the width will be more than 3m. Conceptual mine development will be carried out in 132.941 Ha area, green belt will cover an area of 15.24 ha, entire area disturbed will be reclaimed by backfilling. Pit depth will be upto 9 m bgl (1065 m MSL). The overall pit slope will be 45°. It was reported by the PP, 20694 m³/annum of OB soil and 160965 m³/ annum of OB waste will be generated which will be simultaneously backfilled in mined out pits. The mining will not intersect ground water table in the area. The cost of the project is Rs 2.8205 Crores.

The Locations of Protected Area viz. Wild Life Sanctuary/Tiger Reserve/National Park etc. within 10 km of the mine is marked in topo-sheet and certified by State Chief wildlife warden Bhopal and the Wildlife management Plan is also approved by State Chief wildlife warden Bhopal. It was reported by the PP that core zone of Achanakmar – Amarkantak Biosphere Reserve is located at a distance of 28 to 30 km from the lease boundary. Garhidadar RF is adjacent to Mine Lease Area.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Compliance report by the Regional Office of MoEF of earlier EC accorded vide dated 14.07.2006; (ii) Status of

commitments made in the earlier Public Hearing held; and (iii) Studies on Cumulative impact due to other mining activities in the surrounding area of the mine lease to be provided.

(2.20).Black stone Mining of M/s. Dewanganj stone Company located at vill. Talbandh, Mouza – Dewanganj, J.L. No. 36, P.s: Md. Bazar, Distt. Birbhum, West Bengal (6.06 ha)-TORs

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

(2.21).Enhancement of production of bleaching clay (mineral beneficiation plant) from 0.072 million TPA to 0.12 million TPA by M/s Ashapura Volclay Limited, located at Village Ler, Taluka Bhuj, District-Kutch, Gujarat- TORs

The proposal is to determine the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006. For this purpose, the proponent had submitted information in the prescribed format (Form-1) along with pre-feasibility report. Since the project is of Mineral Beneficiation and production > 0.1 Million TPA (Mineral Throughput) as per Schedule [S. No. 2(b)] of EIA Notification, 14th September 2006 (and subsequent amendments) of Ministry of Environment and Forests (MoEF), the project belongs to Category 'A'.

The proposal is for enhancement of production of bleaching clay (mineral beneficiation plant) from 0.072 million TPA to 0.12 million TPA. The throughput will be 0.13 million TPA. The earlier EC was obtained from SEIAA in February, 2010 for the existing 0.072 million TPA capacity. The expansion will be carried out in the existing complex having land area of 14.97 ha by utilizing the existing open area. About 6,400 tonnes/month of sulphuric acid will be used, which will be obtained from Gandhi Dham.

Total water requirement is estimated as 838 kld, which will be obtained from Gujarat Water Infrastructure Ltd through pipeline. Power requirement of 2,200 KVA will be met from Paschim Gujarat Vij Company Ltd., however, three DG sets will be kept as backup supply. The fuel requirement is estimated as 321 liter/hr of furnace oil, 46 TPD of coal and 150 liter/day of HSD (during power failure). The ETP sludge will be sold to cement manufacturing industry, spent acid will be sold to IFFCO, used oil will be reused in the plant and tar waste will be sent to integrated common hazardous waste management facility. Proponent informed that Bleaching Clay is widely used as a refining agent for various animal and vegetable oils, fatty acids, lubricating oils and waxes.

The proposal was earlier considered by the Committee in its meeting held in May 23-25, 2012 wherein the Committee sought additional information. The Additional information has been submitted. Accordingly, the proposal was considered in the present meeting. The Committee deliberated on the issues and was of the view the certified compliance report of the earlier EC need to be submitted by the PP during EC consideration.

The Proponent requested that they want to start the collection of base line data from winter season i.e. December 2013- February 2014. 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 TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Compliance report by the Regional Office of MoEF of earlier EC accorded; and (ii) Status of commitments made in the earlier Public Hearing held.

(2.22).Expansion of Thandiberi Limestone (from capacity 1.065 to 1.165 million TPA) Mine by M/s. Binani Cement Limited, located at village – Thandiberi, Tehsil – Pindwara, District – Sirohi, Rajasthan (256.0 ha) (Consultant: JM Environet Pvt. Ltd.)-TORs

The Proposal is for the expansion of production capacity of Thandiberi limestone mine from 1.065 million TPA to 1.165 million TPA within the existing ML area of 256.0 ha at village Thadiberi, Tehsil-Pindwara, District – Sirohi, Rajasthan. The geographical location of the project falls in Survey of India Toposheet No. 45 H/I and is located between Latitude 24⁰ 48'57.66" N to 24⁰ 49'54.69"N and longitude 73⁰ 4'36.77" E to 73⁰ 6'4.82"E.

The Ministry of Environment & Forests has earlier accorded the Environmental Clearance vide letter No. J-11015/22/2006-IA. II (M) dated 10.11.2006 for production of 1.065 TPA (ROM) of Limestone over an area of 256 ha.

The proposed expansion of limestone mine will involve open cast mechanized method of mining which involves drilling, blasting utilizing heavy earth moving machineries (HEMM). Limestone bench will be formed by drilling and blasting. No litigation / court case is pending against the project. The anticipated life of mine is 30.33 years @1.165 million TPA production rate. The Proponent reported that No National Park / Wildlife Sanctuary are located within 10 Km radius of the mining lease area. The existing mining lease area is 256.0 ha. No additional land acquisition is required, therefore no R & R Is involved. No water bodies/streams exist within the ML area. The capital cost of the project is 2.18 Crores. Total water Requirement is 57 m³ per day which will be sourced from CPP blow down and ground water from existing bore wells.

The Proponent submitted that they had already started the collection of base line data from Post monsoon season i.e. October 2013. Based on the request made by the Project Proponent w.r.t. use of collection of base line data i.e. the post monsoon season, 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 TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Compliance report by the Regional Office of MoEF of earlier EC accorded; (ii) Status of commitments made in the earlier Public Hearing held; and (iii) Details of native trees planted and proposed for plantation.

(2.23).Expansion of Amlı Limestone Mine (from production capacity of 6.35 million TPA to 10.486 million TPA) by M/s. Binani Cement Limited, located at Village – Amlı, Tehsil – Pindwara, District – Sirohi, Rajasthan. (468.6875ha) (Consultant: JM Environet Pvt. Ltd.)-TORs

The Proposal is for expansion of production capacity of Amlı limestone mine from 6.35 million TPA to 10.486 million TPA within the existing ML area of 468.6875 ha at Village Amlı,

Tehsil-Pindwara, District – Sirohi, Rajasthan. The geographical location of the project falls in Survey of India Toposheet No. 45 D/13,45 H/I, 45 H/2 and is located between Latitude 24° 48'57.66" N to 24° 49'54.69"N and longitude 73° 4'36.77" E to 73° 6'4.82"E.

The Ministry of Environment & Forests has earlier accorded the Environmental Clearance vide letter No. J-11015/21/2006-IA. II (M) dated 10.11.2006 for production of 6.35 TPA (ROM) of Limestone over an area of 468.6875 ha.

The proposed expansion of limestone mine will involve open cast mechanized method of mining which involves drilling, blasting utilizing heavy earth moving machineries (HEMM). Limestone bench will be formed by drilling and blasting. No National Park / Wildlife Sanctuary are location within 10 Km radius of the mining lease area. The existing mining lease area is 468.6875 Ha. No additional land acquisition is required, therefore, no R&R issues are involved. No water bodies/streams exist within the ML area. The capital cost of the project is Rs. 90.07 Crores. Total water requirement is 270 m³ per day which will be sourced from CPP blow down and ground water from existing bore wells. No litigation / court case is pending against the Project. The anticipated life of mine is 13 years @10.486 MTPA production.

The Proponent submitted that they had already started the collection of base line data from Post monsoon season i.e. October 2013. Based on the request made by the Project Proponent w.r.t. collection/use of base line data i.e. the post monsoon season, 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 TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) Compliance report by the Regional Office of MoEF of earlier EC accorded; (ii) Status of commitments made in the earlier Public Hearing held; and (iii) Details of native trees planted and proposed for plantation.

(2.24).Gularmauzi Sand & Soil Mining (production capacity 2,49,40 TPA) project M/s Geology & Mining Unit, Directorate of Industries, Located at Village Gularmauzi, Tehsil Jaspur, District Udham Singh Nagar, Uttarakhand. (17.101ha) (Consultant: Grass Root Research & Creation India Pvt. Ltd., Noida)-TORs

The Mining Lease area is located near Village Gular Mauzi, Tehsil Jaspur, District Udham Singh Nagar, Uttarakhand. The proposed production capacity is 2,49,400 TPA. Total mine lease area is 17.101ha. The lease area lies on River Feeka. The Mine Lease area lies between 29°17'50.67"N to 29°17'23.27"N, 78°47'0.30"E to 78°46'49.93"E. The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Interstate Boundary between Uttarakhand & Uttar Pradesh (about 3.5 km in W direction) within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand & soil from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, pan, sieves, etc. Excavation will be carried out up to a maximum depth of 1.5 meters. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Joint Inspection done on 17/05/2013.

Total water requirement will be 3.89 KLD. This water will be supplied from available sources through tankers as well as from surface water sources from nearby village for dust suppression. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 9, 15, 000.

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

(2.25).Dhora Sand & Soil Mining (1,78,500 TPA) Project of M/s Geology & Mining Unit, Directorate of Industries, located at Village Dhora, Tehsil Sitarganj, Distriaact Udham Singh Nagar, Uttarakhand. (14.929ha) (Consultant: Grass Root Research & Creation India Pvt. Ltd., Noida)-TORs

The Mining Lease area is located near Village Dhora, Tehsil Sitarganj, District Udham Singh Nagar, Uttarakhand. The proposed production capacity is 1,78,500 TPA. Total mine lease area is 14.929ha. The lease area lies on River Kailash. The Mine Lease area lies between 28°56'31.27"N to 28°56'34.80"N, 79°44'10.73"E to 79°43'43.54"E.

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Interstate Boundary between Uttarakhand & Uttar Pradesh (about 6 km in S direction) within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand & soil from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, pan, sieves, etc. Excavation will be carried out up to a maximum depth of 1.5 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Joint Inspection done on 23/05/2013.

Total water requirement will be 2.8 KLD. This water will be supplied from available sources through tankers as well as from surface water sources from nearby village for dust suppression. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 7, 20, 000.

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

the area.

(2.26).Rampurakaji Sand, Bajri, & Soil Mining (production capacity 1,91,000TPA) of M/s Geology & Mining Unit, Directorate of Industries, located at Village Rampurakaji, Teshil-Bazpur, District Udham Singh Nagar, Uttarakhand (12.388 ha) (Consultant: Grass Root Research & Creation India Pvt. Ltd., Noida)-TORs

The Mining Lease area is located near Village Rampurakaji, Tehsil Bajpur, District Udham Singh Nagar, Uttarakhand. The proposed production capacity is 1,91,000 TPA. Total mine lease area is 12.388ha. The lease area lies on River Baur. The Mine Lease area lies between 29°2'36.95"N 29°3'8.89"N , 79°9'18.14"E 79°10'4.35"E.

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Interstate Boundary between Uttarakhand & Uttar Pradesh (about 0.5 km in W direction) within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand & soil from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, pan, sieves, etc. Sand will be separated from bajri and boulders by sieving process. Excavation will be carried out up to a maximum depth of 1.5 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Joint Inspection done on 21-5-2013.

Total water requirement will be 2.0 KLD. This water will be supplied from available sources through tankers as well as from surface water sources from nearby village for dust suppression. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 7, 55, 000.

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

(2.27).Hajiro Sand & Soil Mining Project (production capacity 4,66,600TPA) of M/s Geology & Mining Unit, Directorate of Industries, located at Village Hajiro, Tehsil Jaspur, District, Udham Singh Nagar, Uttarakhand (30.576 ha) (Consultant: Grass Root Research & Creation India Pvt. Ltd., Noida)-TORs

The Mining Lease area is located near Village Hajiro, Tehsil Jaspur, District Udham Singh Nagar, Uttarakhand. The proposed production capacity is 4, 66,600 TPA. Total mine lease area is 30.576ha. The lease area lies on River Feeka. The Mine Lease area lies between 29°20'41.72"N to 29°20'5.85"N, 78°50'57.31"E to 78°49'32.01"E.

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

presence of Interstate Boundary between Uttarakhand & Uttar Pradesh (about 4 km in W direction) within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand & soil from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, pan, sieves, etc. Sand will be separated from bajri and boulders by sieving process. Excavation will be carried out up to a maximum depth of 1.5 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Joint Inspection done on 17-5-2013.

Total water requirement will be 4.56 KLD. This water will be supplied from available sources through tankers as well as from surface water sources from nearby village for dust suppression. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 15, 20, 000.

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

(2.28).Maseet Sand, Bajri and Soil Mining Project (production capacity 2,02,900 TPA) of M/s Geology & Mining Unit, Directorate of Industries, located at Village Maseet, Tehsil Gadarpur, District Udham Singh, Uttarakhand. (14.300 ha) (Consultant: Grass Root Research & Creation India Pvt. Ltd., Noida)-TORs

The Mining Lease area is located near Village Maseet, Tehsil Gadarpur, District Udham Singh Nagar, Uttarakhand. The proposed production capacity is 2,02,900 TPA. Total mine lease area is 14.300ha. The lease area lies on River Baur. The Mine Lease area lies between 29°06'08.57"N to 29°05'06.52"N; 79°12'22.85"E to 79°11'48.63"E.

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Interstate Boundary between Uttarakhand & Uttar Pradesh (about 6 km in W direction) within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand, *bajri* & soil from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, pan, sieves, etc. Sand will be separated from bajri by sieving process. Excavation will be carried out up to a maximum depth of 1.5 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Joint Inspection done on 15-05-2013.

Total water requirement will be 3.62 KLD. This water will be supplied from

available sources through tankers as well as from surface water sources from nearby village for dust suppression. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 10,20,000.

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

(2.29).Kuikhedi Sand, Bajri and Soil Mining Project (production capacity 1,26,900 TPA) of M/s Geology & Mining Unit, Directorate of Industries, located at VillaageKuikhedim Tehsil Gadarpur, District Udhmsingh Nagar, Uttarakhand (9.787ha) (Consultant: Grass Root Research & Creation India Pvt. Ltd., Noida)-TORs

The Mining Lease area is located near Village Kuikhedi, Tehsil Gadarpur, District Udhamsingh Nagar, Uttarakhand. The proposed production capacity is 1,26,900 TPA. Total mine lease area is 9.787 ha. The lease area lies on River Baur. The Mine Lease area lies between 29°04'02.54"N to 29° 03'41.67"N; 79° 10'57.79"E to 79° 10'41.05"E

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Interstate Boundary between Uttarakhand & Uttar Pradesh (about 4 km in SW direction) within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand, *bajri* & soil from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, pan, sieves, etc. Sand will be separated from bajri by sieving process. Excavation will be carried out up to a maximum depth of 1.5 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Joint Inspection done on 15-05-2013.

Total water requirement will be 3.19 KLD. This water will be supplied from available sources through tankers as well as from surface water sources from nearby village for dust suppression. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 5,50,000.

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

plan and (vi)-Appropriate Disaster Management safeguards in view of the high seismicity of the area.

(2.30).Sarwar Khera Sand & Soil Mining Project (with capacity 1,23,200 TPA) of M/s Geology & Mining Unit, Directorate of Industries, Govt. of Uttarakhand, located at Village Sarwarkhera, Tehsil-Kashipur, District Udhamshingh Nagar, Uttarakhand (8.447ha) (Consultant: Grass Root Research & Creation India Pvt. Ltd., Noida)-TORs

The Mining Lease area is located near Vill- Sarwar Khera, Tehsil- Kashipur, Distt- Udhamshingh Nagar, Uttarakhand. The proposed production capacity is 1, 23,200 TPA. Total mine lease area is 8.447 ha. The lease area lies on River Dehla. The Mine Lease lies between 29°11'47.54"N - 29°12'12.94"N, and 78°55'54.86"E - 78°56'30.60"E

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Interstate Boundary between Uttarakhand & Uttar Pradesh (about 3.5 km in W direction) within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand & soil from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, pan, sieves, etc. Sand will be separated from bajri and boulders by sieving process. Excavation will be carried out up to a maximum depth of 1.5 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Joint inspection done 21st May, 2013.

Total water requirement will be 2.55 KLD. This water will be supplied from available sources through tankers as well as from surface water sources from nearby village for dust suppression. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 5, 75, 000.

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

(2.31).Khushalpur Sand, Bajri and Soil Project (production capacity 3,09,000TPA) of M/s Geology & Mining Unit, Directorate of Industries, located at village Khushalpur, tehsil Gadarpur, District Udhamshingh Nagar, Uttarakhand (13.257 ha) (Consultant: Grass Root Research & Creation India Pvt. Ltd., Noida)-TORs

The Mining Lease area is located near Vill- Khushalpur, Tehsil- Gadarpur, Distt- Udhamshingh Nagar, Uttarakhand. The proposed production capacity is 3,09,000 TPA. Total mine lease area is 13.257 ha. The lease area lies on River Baur. The Mine Lease lies between 29°04'34.20"N to 29°04'54.84"N, and 79°10'49.53"E to 79°11'27.61"E

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Interstate Boundary between Uttarakhand & Uttar Pradesh (about 4 km in SW direction) within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand, *bajri* & soil from the proposed site. The operation will be manual with use of hand tools like shovel, pick-axe, pan, sieves, etc. Sand will be separated from *bajri* and boulders by sieving process. Excavation will be carried out up to a maximum depth of 1.5 metre. Extraction of material will be done only during the day time and stopped during the monsoon season. The lease area has been decided as per the Joint inspection done on 15th May, 2013.

Total water requirement will be 3.65 KLD. This water will be supplied from available sources through tankers as well as from surface water sources from nearby village for dust suppression. Silt/Clay generated as waste, will be disposed off as filling in low-lying area, for plantation & as spreading in agricultural fields. The total cost of project would be around Rs. 11, 80, 000.

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

(2.32).River Bed Mining Project of Bajri with production capacity of 1.129 million TPA by M/s. Shri Ramashankar Gurjar, located at Tehsilbansur, Distt.- Alwar (Rajasthan) (1096.56 ha) (Consultant: J.M. EnviroNet Pvt. Ltd.)-TORs

The proposal of Shri Ramshankar Gurjar is for River Sand (*Bajri*) Mining with Production Capacity of 1.129 million TPA of Sand in 1096.56 ha. The mine lease area is located near revenue villages of Tehsil-Bansur, District-Alwar (Rajasthan).

Mining is semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of three meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. Letter of Intent (LOI) for grant of mining lease for *Bajri* over an area of 1096.56 ha has been issued by the Joint Secretary, Department of Mines & Geology, Government of Rajasthan vide letter no. F.7(20)Mines/ Group-2/2013 dated 29.04.2013. The lease period is valid for 5 years. Applied area is Non- Forest Land.

Total water requirement will be 80 KLD and will be supplied from ground water. The total cost of project would be around Rs. 50 lakhs. PP informed that the proposed project does not fall in the critically polluted area of District Alwar.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as

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

(2.33).River Bed Mining Project with production capacity of 2.8 million TPA by M/s. Shri Vikramaditya Rathore, located at Tehsil – Hurda; District: Bhilwara & Tehsil – Masuda; District: Ajmer, Rajasthan (544.03ha) (Consultant: J.M. Enviro Net Pvt. Ltd.)-TORs

The proposal of Shri Vikramaditya Rathore is for River Sand Mining with Production Capacity of 2.8 million TPA of Sand in 544.03 ha. The mine lease area is located near revenue villages of Tehsil-Hurda, District: Bhilwara & Tehsil-Masuda, District: Ajmer. The lease area lies on River Khari & River Mansi.

Mining is semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of three meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. Letter of Intent (LOI) for grant of mining lease for Bajri has been issued by the Joint Secretary, Department of Mines & Geology, Government of Rajasthan vide letter no. P.10 (10) Khan/ Group-2/2013 dated 26.02.2013. The lease period is valid for 5 years. Applied area is Non- Forest Land. Total water requirement will be 90 KLD and will be supplied from ground water. The total cost of project would be around Rs. 65 lakhs.

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

(2.34).River Bed Mining (Bajri) with production capacity of 3.39 million TPA by M/s Shri Mahendra Singh Rajawat, located at Tehsil-Kotri, District: Bhilwara (Rajasthan) (1191.37 ha) (Consultant: JM Enviro Net Pvt.)-TORs

The proposal of Shri Mahendra Singh Rajawat S/o Shri Salam Singh Rajawat is for River Sand Mining with Production Capacity of 3.39 million TPA of Sand in 1191.37 ha. The mine lease area is located near revenue villages of Tehsil-Kotri, District: Bhilwara. The lease area lies on River Kothari & River Banas.

Mining is semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. Letter of Intent (LOI) for grant of mining lease for Bajri over an area of 1096.56 ha has been issued by the Joint Secretary, Department of Mines & Geology, Government of Rajasthan vide letter no. P.10 (7) Khan/ Group-2/2013 dated 26.02.2013. The lease period is valid for 5 years. Applied area is Non- Forest Land. Total water requirement will be 90 KLD and will be supplied from ground water. The total cost of project would be around Rs. 75 lakhs.

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

(2.35).Kishanpura Main Gypsum mine with production capacity of 1,00,000 TPA by M/s. FCI Aravali Gypsum and Minerals India Ltd., located at village Kishanpura main, Tehsil: Suratgarh, District: Sriganganagar Rajasthan. (49.5 ha) (Consultant: Consulting Engineering Group Ltd., Jaipur)-TORs

The mine lease area is 49.5ha and there are no General conditions as per the EIA, Notification, 2006. Hence it is Category 'B' project and to be dealt by SEIAA, Rajasthan. The Committee suggested to **transfer** the proposal to the SEIAA, Rajasthan for consideration as per the EIA, Notification, 2006.

(2.36).River sand Mining project with production capacity of 2.475 Lakh TPA (ROM) by M/s. Sanjay Kumar Garg, located at Village(s) of Tehsil-Dudu (Mozamabad), District Jaipur, Rajasthan (954.15075 ha) (Consultant: Team Institute of Science & Technology Pvt. Ltd.)-TORs

The proposal of M/s Sanjay Kumar Garg is for River Sand Mining with Production Capacity of 2.475 Lakh TPA of Sand in 954.15075 ha. The mine lease area is located near revenue villages of Tehsil-Dudu (Mozamabad), District Jaipur, Rajasthan. The lease area lies on River Bandi, Dantara & Mashi.

The Committee noted that the consultant (Team Institute of Science & Technology Pvt. Ltd) is not accredited by QCI/NABET. However, Proponent has submitted an order of S.B Civil Writ Petition No. 3471 of 2103, dated 12.08.2013 of Hon'ble High Court of Rajasthan at Jaipur staying the applicability of QCI accreditation to the instant consultant. Hence, the consultant was allowed by the Committee to present the proposal.

Mining is semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from

the water level of the River channel whichever is reached earlier. Letter of Intent (LOI) for grant of mining lease for Sand over an area of 954.15075 ha has been issued by the Department of Mines & Geology, Government of Rajasthan vide letter no. P.7 (17) Mine/ Group-2/2013 dated 20.03.2013. The lease period is valid for 5 years. Applied area is Non-Forest Land. Total water requirement will be 10 KLD and will be supplied from water tankers. The total cost of project would be around Rs. 90 lakhs. PP reported that protected forests are within the 10 km of mine lease area.

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

(2.37).Bajri (Minor Mineral) Mine with production capacity of 10 lakh TPA (ROM) by M/s Himmat Singh, located at Revenue village (s) of Tehsil – Osiya, District– Jodhpur, State – Rajasthan (668.96 ha) (Consultant:M/s Udaipur Mintech Pvt Ltd.)-TORs

The proposal of M/s Himmat Singh is for River Bajri Mining with Production Capacity of 10 Lakh TPA of Bajri in 668.96 ha. The Mine lease area is located at Tehsil – Osiya, District – Jodhpur, Rajasthan. The lease area lies on Khari River bed. The Latitudes and Longitudes of the Mine Lease areas in Block 1- 26°22'20" to 26°29'14" N & 72°47'39" to 72°50'43" E , Block 2 - 26°25'40" to 26°29'44" N & 73°05'10" to 72°58'10" E, Block 3- 26°29'47" to 26° 28' 53" N & 73°05' 17" to 73° 03' 04" E Block 4- 26°36' 47" to 26°41' 27" N & 73° 03' 27" to 73° 02' 28" E, Block 5 -26°40' 20" to 26°42' 34" N & 73°10' 49" to 73° 08' 14" E, Block 6- 26°47' 00" to 26°48' 07" N & 72° 57' 18" to 72°56' 34" E, Block 7- 26°44' 07" to 26°49' 47" N & 73°13' 02" to 73°15' 30" E respectively.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 668.96 ha which non-forest land. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 668.96 ha has been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 27.02.2013 for the period of 5 year to Sh. Himmat Singh. Total water requirement for the project will be 18.5 KLD which will be sourced from nearby villages. Total Cost of the Project is Rs. 1 Crore. PP informed that no court case/litigation is pending against the project.

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

Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan to be indicated; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

(2.38). Bajri (Minor Mineral) Mine with production capacity of 25 lakh TPA (ROM) at Luni River by M/s Meghraj Singh, located at Revenue village(s) of Tehsil(s) Merta and Degana, District – Nagaur, Rajasthan (408.1216 ha) (Consultant:M/s Udaipur Mintech Pvt Ltd.)-TORs

The proposal of M/s Meghraj Singh S/o Sh.Kalyan Singh Sekhawat is for River Bajri Mining with Production Capacity of 25 Lakh TPA of Bajri in 408.1216 ha. The Mine lease area is located at Tehsils – Merta&Degana, District – Nagaur, Rajasthan. The lease area lies on Luni River bed. The Latitudes and Longitudes of the Mine Lease area are 26°25'53.42" to 26°30'38.82"N and 74°04'39.52" to 74°21'56.67"E respectively.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 408.1216 ha which non-forest land. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 408.1216 ha has been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 31.10.2012 for the period of 5 year to Sh. Meghraj Singh S/o Sh.Kalyan Singh Sekhawat. Total water requirement for the project will be 20 KLD which will be sourced from nearby villages. Total Cost of the Project is Rs. 1 Crore. PP informed that no court case/litigation is pending against the project.

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

(2.39).Bajri (Minor Mineral) Mine with production capacity of 24 LakhTPA (ROM) by M/s Sarv Shri Kuber Associates, located at Revenue village(s) of Tehsil-Bhopalgarh, District Jodhpur, Rajasthan (2130ha) (Consultant: M/s Udaipur Mintech Pvt Ltd.)-TORs

The proposal of M/s Sarv Shri kuber Associates is for River Bajri Mining with Production Capacity of 24 Lakh TPA of Bajri in 2130 ha. The Mine lease area is located at Tehsils – Bhopalgarh, District – Jodhpur, Rajasthan. The lease area liessukli,Joari,Mitri,&GuniMata River bed. The Latitudes and Longitudes of the Mine Lease

area in BLOCK-1 26°08'44" to 26°25'28" N & 72°57'32" to 73°05'35" E , BLOCK-2 26°34'38" to 26°41'18" N & 73°09'02" to 73°21'36" E, BLOCK -3 26°30'00" to 26°35'36" N to 73°21'52" to 73°28'43" E , BLOCK- 4 26°38'20" to 26°43'29" N to 73°11'00" to 73°15'48" E Respectively.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 2130 ha which non-forest land. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 2130 ha has been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 27-02-2013 for the period of 5 year to Sh. Sarv Shri kuber Associates. Total water requirement for the project will be 23 KLD which will be sourced from nearby villages. Total Cost of the Project is Rs. 2 Crore. PP informed that no court case/litigation is pending against the project.

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

(2.40).Bajri (Minor Mineral) Mine with production capacity of 25 Lakh TPA (ROM) in River Luni by M/s Sher Singh, located at Revenue village(s) of Tehsil – Parbatsar, District – Nagaur, State – Rajasthan (415.07) (Consultant:M/s Udaipur Mintech Pvt Ltd.)-TORs

The proposal of M/s Sher Singh is for River Bajri Mining with Production Capacity of 25 Lakh TPA of Bajri in 415.07 ha. The Mine lease area is located at Tehsils – Parbatsar, District – Nagaur, Rajasthan. The lease area lies on Luni River bed. The Latitudes and Longitudes of the Mine Lease area are 26°48'03" to 26°46'15" N and 74°27'53" to 74°37'5" E respectively.

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

The total mine lease area is 415.07 ha which non-forest land. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 415.07 ha has been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 15.2.2013 for the period of 5 year to Sh. Sher Singh. Total water requirement for the project will be 16 KLD which will be sourced from nearby villages. Total Cost of the Project is Rs. 1 Crore. PP informed that no court case/litigation is pending against the project.

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

(2.41).Bajri (Minor Mineral) Mine with production capacity of 24 Lakh TPA (ROM) by M/s Sarv Surya Associates, located at Revenue village(s) of Tehsil- Jodhpur, District – Jodhpur, State – Rajasthan (2060 ha) (Consultant:M/s Udaipur Mintech Pvt Ltd.)-TORs

The proposal of M/s Sarv Surya Associate is for River Bajri Mining with Production Capacity of 24 Lakh TPA of Bajri in 2060 ha. The Mine lease area is located at Tehsil – Jodhpur, District – Jodhpur, Rajasthan. The lease area lies on Luni, & Mitri Nadi and their tributaries/Nala and Bala River bed. The Latitudes and Longitudes of the Mine Lease areas are-BlockB, 26°00'45" N 73°02'54" E, Block C- 26°09'16" N 73°25'15" E , BlockE- 26°18'02" N 73°22'25" E respectively.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 2060ha which non-forest land. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 2060 ha has been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 05.03.2013 for the period of 5 year to Sh. Sarv Surya Associate. Total water requirement for the project will be 23 KLD which will be sourced from nearby villages. Total Cost of the Project is Rs. 2 Crore. PP informed that no court case/litigation is pending against the project.

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

(2.42).Bajri (Minor Mineral) Mine with production capacity of 40 Lakh TPA (ROM) by M/s Himmat Singh Shekhawat, located at Revenue village(s) of Tehsil – Bilada,

District – Jodhpur, State – Rajasthan (2439 ha) (Consultant:M/s Udaipur Mintech Pvt. Ltd.)-TORs

The proposal of Sh. Himmat Singh Shekhawat is for River Bajri Mining with Production Capacity of 40 Lakh TPA of Bajri in 2439 ha. The Mine lease area is located at Tehsils – Bilara, District-Jodhpur, Rajasthan. The lease area lies on Luni&Mitri River bed. The Latitudes and Longitudes of the Mine Lease area in Block-1(26° 16' 56" to 26° 30' 58" N and 73° 22' 08" to 73° 44' 27" E), Block-2 (26° 09' 24" to 26° 17' 25" N and 73° 25' 08" to 73° 50' 57" E) respectively.

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit and not less than one meter from the water level of the River channel whichever is reached earlier. The total mine lease area is 2439 ha which non-forest land. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 2439 ha has been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 5.3.2013 for the period of 5 year to Himmat Singh Shekhawat. Total water requirement for the project will be 29 KLD which will be sourced from nearby villages. Total Cost of the Project is Rs. 2.5 Crores. PP informed that no court case/litigation is pending against the project.

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

(2.43).Bajri (Minor Mineral) Mine with production capacity of 0.112 million TPA by M/s Puspchandra Gochar, located at Vilage (s) Rehana and Bagli, Tehsil-Bundi, Distt-Bundi, Rajasthan (28.28 hac) (Consultant: ENKAY Envrio Services Pvt. Ltd., Jaipur)-TORs

The proposal of M/s Puspchandra Gochar is for River Sand Mining (Mej River) with Production Capacity 0.112 million TPA of Sand in the mine lease area of 28.28 ha. The mine lease area is located near Villages -Rehana and Bagli, Tehsil and District- Bundi, Rajasthan. The Latitudes and Longitudes of mine lease area is 25°28'40.39" N to 25°28'44.51"N and 75°53'17.17" E to 75°54'21.28"E. This is Category 'A' project as the mine lease is located within 10 km of Ramgarh Vishdhari Sanctuary.

Mine working will be opencast by semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. Letter of Intent has been issued by Mining Engineer, Div - II, DMG – Bundi, Govt. of Rajasthan to Pushpchand Gochar vide letter no M.E./ Bundi/ II/ C.C-II/ Khan Bajri/ 2013/ 156 dated 9th January 2013 for removal of Bajri (Minor Mineral) from Gair Mumkin Nadi, Nallah and Khasra areas in revenue villages and Khasra no. Bagli (249, 257) and Rehana. (394) of

Tehsil and District - Bundi, Rajasthan. Total water requirement will be 10 KLD and will be supplied from the bore well from nearby villages through tankers for dust suppression, drinking and plantation etc. The total cost of project would be around Rs. 7,11,500/- (Tender Cost).

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

(2.44).Minor Mineral Bajri Mine (with capacity 5.60 million TPA) by M/s Aman Sethi, located at Tehsil-Baswa, Distt-Dausa, Rajasthan (2148.29 ha) (Consultant: ENKay Enviro Services Pvt. Ltd, Jaipur)– TORs

The proposal of M/s Aman Sethi is for River Sand Mining (Banganga, Palasan and Sanwan rivers) with Production Capacity 5.6 MMTA of Sand in 2148.29 ha. The mine lease area is located near villages Akshaypuri, Anantwada, Arniya, Aliyapada, Anandpura, Abhaneri, Udarwada, Upreda, Urwadi, Unbadagaon, Achedi, Kukarwadi, Keeratpura, Kanchanpura, Khaipur, Khuntla, Tugadkawas, Sidh baba ka gwada, Sahupada, Sevara ki Dhani, Sumelkalan, Sumel, Sabdavali, Sungadi, Sudharanpada, Syalawaskhurd, Simla, Syalawaskalan, Rampura, Rani ka bas, Liloj, Liloj ka gola, Lotwada, Handali, Sonadi, Hingota, Shaikhpura, Moradi chak 3, Mautipura, Ralawata, Rupbas, Rehdiya, Rajahera, Ranapada, Motuka, Moradi chak 2, Meenapada, Mahukalan, Mahukhera, Alipur, Balahera, Bawdikhera, Baijupada, Kuti, Aliapada, Kakrawas, Kathanadi, Kaririya, Keshopura, Kishanpura, Kaleshwarkhurd, Garhdubbi, Gudaashikpura, Gudakatla, Chorwada, Jassapada, Jhuthaherakalan, Jhajhirampura, Badialkhurd, Turwada, Thalakabas, Dubbi, Devara, Dilwarpura, Dhanawad, Dhyawana ki dhani, Nandera, Nayagaon, Noorpur, Nai meenao ka bas, Nangal, Nangaljhamarwada, Nagwas, Nihalpura, Pundarpada, Palda, Patarkhera, Papdaki, Pamadi, Pichupada kalan, Pichupada khurd, Phulela, Bedhadi minan, Bedhari gujran, Banapura, Baswa A, Baswa C, Basda, Basda brahmanan, Basbiwai, Biwai, Bhandeda, Bhanwata, Bhanwra, Bhojwada, Mundaghisya, Tehsil- Baswa&Distt.-Dausa, Rajasthan. The Latitudes and Longitudes of mine lease area is

Zone	Starting Point (Lat/ Long)	End Point (Lat/ Long)
I	26°58'00.26" N & 27°16'47.76" E	27°03'40.98" N & 76°48'09.82" E
II	27°06'00.80" N & 76°24'32.60" E	
III	27°08'38.1" N & 76°30'29.21"E	

Mine working will be opencast by semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. Letter of Intent has been

issued by the Joint Secretary, Administration, Govt. of Rajasthan, Group – 2, Jaipur to Aman Sethi vide letter no P.7(12)Khan/Group-2/2013 dated 05.03.2013 for Removal of mineral Bajri from Khasara areas of Gair mumkin Nadi, Nallah in revenue villages of Tehsil - Baswa & District - Dausa, Rajasthan. Total water requirement will be 13 KLD and will be supplied from the bore well from nearby villages through tankers for dust suppression, drinking and plantation etc. The total cost of project would be around Rs. 15.61 Crores (Tender Cost).

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

(2.45). Minor Mineral Bajri Mine of (production capacity 0.504 million TPA) by M/s Mangal Singh Solanki, located at Vill-Jodhpur and others, Tehsil-Niwai, Distt-Tonk, Rajasthan (104.7775 hac) (Consultant: ENkay Enviro Services Pvt. Ltd, Jaipur)– TORs

The proposal of M/s Mangal Singh Solanki is for River Sand Mining (Bandi and Mashi rivers) with Production Capacity 0.504 million TPA of Sand in 104.7775 ha. The mine lease area is located near villages Jodhpura, Ratanpura (Rohera), Manoharpura, Borada, Chaturbhujpura, Churada and Gudha Anandpura, Tehsil- Niwai&Distt.-Tonk, Rajasthan. The Latitudes and Longitudes of mine lease area are 26°29'02.00" N to 26°22'45.16"N and 75°46'18.81" N to 75°44'35.49"E.

Mine working will be opencast by semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. Letter of Intent has been issued by the Additional Director, DMG Jaipur in favor of Mangal Singh Solanki vide letter no. ADM / Jai / 1 /Tonk / Bajri / P - 1 / 2012 / 89 dated 05/01/ 2013 for removal of Bajri (Minor Mineral) from Gair mumkin Nadi, Nallah and Khasra areas (excluding prohibited areas) in revenue villages of Tehsil - Niwai, District -Tonk, Rajasthan. Total water requirement will be 10 KLD and will be supplied from the bore well from nearby villages through tankers for dust suppression, drinking and plantation etc. The total cost of project would be around Rs. 75.0 Lac (tender cost).

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

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

Any other matter with the permission of the Chairman and the as per directions of Hon'ble High Court of Rajasthan in the matter of D.B. Civil Misc. Application no. 250 of 2013 (21st October, 2013)

(3.1).Bajri Mine (Minor Mineral) Production Capacity 3.36 million TPA by M/s Ramesh Morani located at Villages of Tehsil-Sapotara, District- Karauli, Rajasthan (894.5ha) (Consultant: Enkay Enviro Services Pvt. Ltd., Jaipur)-TORs

The proposal of Ramesh Morani is for River Sand Mining (Banas River) with Production Capacity 3.36 million TPA of Sand in 894.5 ha. The mine lease area is located near villages Simir, Garhi ka Gaon, Ekat, Khedla, Kiradi, Bagida, Gavda, Pardampura, Neemoda, Hadoti, Saimarda and Fatehpur, Tehsil- Sapotara, District-Karauli, Rajasthan. The lease area lies on River Morel and Kapel. The Latitudes and Longitudes of mine lease area is

Latitude	Longitude
26°17'37.61" N to 26°11'51.33" N	76°33'27.69" E to 76°36'48.06" E
26°13'40.42" N to 26°12'55.08" N	76°39'43.99" E to 76°40'25.40" E

Mine working will be opencast by semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. Letter of Intent has been issued by the Joint Secretary Administration, Govt. of Rajasthan to Ramesh Morani vide letter no P.6(1) Khan/ Gr. – 2/ 2013, Jaipur dated 01.03.2013 for Removal of Bajri (Minor Mineral) from Gair mumkin Nadi, Nallah(as per khasra) in revenue villages of Tehsil – Sapotara, District - Karauli, Rajasthan. The lease period is valid for 5 years from the date of agreement. Total lease area is 894.5 ha with an annual capacity of 3.36 million TPA (ROM). Total water requirement will be 25.0 KLD and will be supplied from the bore well from nearby villages through tankers for dust suppression, drinking and plantation etc. The total cost of project would be around Rs. 1, 04, 99,999/- (Tender cost).

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

(3.2).Bajri Mine (Minor Mineral) Production Capacity 4.48 million TPA by M/s Ramesh Morani located at Villages of Tehsil - Khandar, District –Sawai Madhopur, Rajasthan (1028.51ha) (Consultant: Enkay Enviro Services Pvt. Ltd., Jaipur)

The proposal of M/s Ramesh Morani is for River Sand Mining (Banas River) with Production Capacity 4.48 million TPA of Sand in 1028.51 ha. The mine lease area is located near villages- Talda, Bhaopur, Khidarpur Jadon, Davich, Savta, Naypur, Khatkad, Pilendi, Kyarda, Bagdada Khurd, Piplet, Bahnala, Kudal, Varnavda, Parsipura, Singor Kalan, Gokulpur, Akoda, Sevti Kalan, Vichpuri Gujran, Kaneti, Bajoli, Kundla, Dungri, Bhuri Pahadi, Karauli Ghata, Kutalpura and Akshaygarh, Tehsil- Khandar District.-Sawai Mahopur, Rajasthan. The Latitudes and Longitudes of mine lease area is

Star point of lease	26°12'33.07"N - 76°34'16.80"E
End point of lease	25°54'35.11"N - 76°43'55.73"E

Mine working will be opencast by semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. Letter of Intent has been issued by Joint Secretary Administration, Govt. of Rajasthan in favor of Ramesh Morani vide letter no P.6(2) Khan/ Gr. – 2/ 2013, Jaipur dated 5th March 2013 for removal of Bajri (Minor Mineral) from Gair mumkin Nadi, Nallah and Khasara areas (excluding prohibited areas) in revenue villages of Tehsil- Khandar, District – Sawai madhopur, Rajasthan. The lease period is valid for 5 years from the date of lease agreement. Total lease area is 1028.51 ha with an annual capacity of 4.48 million TPA (ROM). Total water requirement will be 34.0 KLD and will be supplied from the bore well from nearby villages through tankers for dust suppression, drinking and plantation etc. The total cost of project would be around Rs. 8,13,99,999 (Tender cost).

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

(3.3).Bajri Mine (Minor Mineral) Production Capacity 5.60 million TPA by M/s Ridhi Siddhi Associates, located at Villages of Tehsil - Siwana, District – Barmer, Rajasthan (19,011.89) (Consultant: Enkay Enviro Services Pvt. Ltd., Jaipur)-TORs

The proposal of M/s Ridhi Siddhi Associates is for River Sand Mining (Luni, Sukri, Luni Wala, Mamaji ka wala River) with Production Capacity 5.60 million TPA of Sand in 19011.89 ha. The mine lease area is located near villages- Annapurna Nagar, Arjiyana, Indrana, Kundal, Kumpawas, Kalyaan Singh ki Dhani, Kuseep, Kankhi, Kathadi, Kotadi, Kheda Khindawada, Khetasar, Kharantiya, Khakharlai, Gungrot, Gudanaal, Godo ka bara, Goliya, Charno ka bada, Jinpur, Junakhera Motisara, Jhethantari, Teekampura, Thakarkhera, Tandabera, Telwada, Thanmata hinglaaj, Thapan, Dantla, Devandi, Devliyali, Dharna, Dhira,

Nayi Khakharlai, Naal, Nimbeshwar, Pariharon ki dhani, Paton ka bara, Padardi kalan, Piploon, Baamsin, Baalu, Bijliya, Bhallaron ka bada, Bhakharpura, Bhagwa, Bhatikhera, Bhanawas, Bheemgoda, Bhilon ki dhani, Majal, Mawdi, Mahilawas, Mangla, Mangi, Mubari, Meli, Mokalsar, Ramaniya, Railon ki Dhani, Lalana, Ludarada, Valiyana, Harmalpur, Hemawas, Samdadi, Sariyadevi nagar, Samuja, Siner, Siwana, Suily, Saila and Ramdev Nagar Tehsil-Siwana, District-Barmer, Rajasthan. The lease area lies on Rivers Luni, Sukri, Luni Wala, Mamaji ka wala. The Latitudes and Longitudes of mine lease area is

Drainage	Latitude	Longitude
Luni River	25°51'39.72"N to 25°46'48.20"N	72°46'27.61"E to 72°23'4.84"E
Sukri	25°48'38.95"N to 25°49'31.74"N	72°36'59.73"E to 72°43'32.96"
Mamaji ka Wala	25°38'29.45"N to 25°37'4.96"N	72°34'32.30"E to 72°29'33.57"E
Luni Wala	25°32'21.92"N to 25°32'12.07"N	72°31'05.85"E to 72°21'52.89"E

Mine working will be opencast by semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. Letter of Intent has been issued by the Joint Secretary Administration, Govt. of Rajasthan in favor of M/s Ridhi Siddhi Associates vide letter no P.8(23) Khan/ Gr. - 2/ 2013, Jaipur dated 26.04.2013 for removal of Bajri (Minor Mineral) from Gair mumkin Nadi, Nallah in revenue villages of Tehsil - Siwana, District - Barmer, Rajasthan. The lease period is valid for 5 years from the date of lease agreement. Total lease area is 995.0 ha with an annual capacity of 5.60 million TPA (ROM). Total water requirement will be 28.5 KLD and will be supplied from the bore well from nearby villages through tankers for dust suppression, drinking and plantation etc. The total cost of project would be around Rs. 10, 77, 77,777 /- (Tender cost).

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

(3.4).Bajri Mine (Minor Mineral) Production Capacity of 1.68 million TPA (ROM) by M/s Manohar Lal, located at Villages of Tehsil - Amet, District- Rajsamand, Rajasthan (376.5088ha) (Consultant: Enkay Enviro Services Pvt. Ltd., Jaipur) - TORs

The proposal of M/s Manohar Lal is for River Sand Mining (Chandrabhaga River) with Production Capacity 1.68million TPA of Sand in 376.5088ha. The mine lease area is located near villages Dhelana, Selaguda, Amet, Ganga Guda, Ghosundi, Bheelmagra, Kishanpuriya,

Sardargarh, Devariya, Kabri, Galwa, Karatwas, Kalamaton ka Kheda, Kishanpura, Veerwas and Lodhiyana, Tehsil- Amet, District- Rajasamand, Rajasthan. The lease area lies on River Chandrabhaga. The Latitudes and Longitudes of mine lease area are 25°19'23.41" to 25°10'21.81" and 73°51'47.56" to 74°03'21.56" respectively.

Mine working will be opencast by semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. Letter of Intent has been issued by the Superintending Mining Engineer (HQ), Directorate of Mines & Geology, Govt. of Rajasthan, Khanij Bhawan, Udaipur in favor of Manohar Lal vide letter no P.6 (2) Khan/Group-2/2013 dated 05.03.2013 for removal of Bajri (Minor Mineral) from Gair mumkin Nadi, Nallah and Khasara areas (excluding prohibited areas) in revenue villages of Tehsil- Amet, District - Rajsamand, Rajasthan. The lease period is valid for 5 years from the date of lease agreement. Total lease area is 376.5088 ha with an annual capacity of 1.68 million TPA. Total water requirement will be 19.5 KLD and will be supplied from the bore well from nearby villages through tankers for dust suppression, drinking and plantation etc. The total cost of project would be around Rs. 81, 11,151/- (Tender cost).

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

Any other matter with the permission of the Chairman:

(3.5).Composite Sand Mining by M/s. Eastern Coalfields Ltd., located at Eastern Coal fields Ltd. PO – Sanctoria, Dist- Burdwan, West Bengal. (86.58 ha)-TORs

The proposal is for River sand mining by M/s. Eastern Coalfields Ltd. with production capacity of 1.5 million m³ per annum in the mine lease area of 86.58ha. The mine is located over a stretch of 42 kms in Damodar River bed in the District- Burdwan, West Bengal. The sand is required for the purpose of stowing in underground mines of Eastern Coalfields Ltd. in Raniganj Coalfield.

The proposal was earlier considered in the its meeting of EAC held during September 2013 wherein the Committee noted that Pre-Feasibility Report (PFR) has not been submitted by the Project Proponent and Form-I also has not been adequately filled. The Committee deferred the proposal, requiring that PP need to submit the revised Form-I & PFR.

In this context, PP submitted the revised Form-I and Pre-Feasibility Report and accordingly the proposal was considered in the present meeting. The Committee deliberated the issues.

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

(3.6).Composite Sand Mine by M/s. Eastern Coalfields Ltd., located at Distt.- Birbhum, State- West Bengal. (414.36 ha) (Consultant: Central Mine Planning & Design Institute Ltd.)-TORs

The proposal is for River sand mining by M/s. Eastern Coalfields Ltd. with production capacity of 2.0 million m³ per annum in the mine lease area of 414.36ha. The mine is located over a stretch of 30 kms in Adjoy River bed in the District.-Birbhum, West Bengal. The sand is required for the purpose of stowing in underground mines of Eastern Coalfields Ltd. in Raniganj Coalfield.

The proposal was earlier considered in the its meeting of EAC held during September 2013 wherein the Committee noted that Pre-Feasibility Report (PFR) has not been submitted by the Project Proponent and Form-I also has not been adequately filled. The Committee deferred the proposal, requiring that PP need to submit the revised Form-I & PFR.

In this context, PP submitted the revised Form-I and Pre-Feasibility Report and accordingly the proposal was considered in the present meeting. The Committee deliberated the issues.

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

Annexure-I

S. No.	Terms of Reference (TORs)
1)	Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification, 1994 came into force w.r.t. the highest production achieved prior to 1994.
2)	A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3)	All documents including approved mine plan, EIA and public hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management and mining technology and should be in the name of the lessee.
4)	All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/toposheet should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5)	Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large may also be detailed in the EIA report.
6)	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
7)	The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc should be for the life of the mine / lease period.
8)	Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
9)	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
10)	A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status

	of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
11)	Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
12)	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
13)	The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
14)	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required, should be worked out with cost implications and submitted.
15)	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the State Wildlife Department/Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished.
16)	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
17)	Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered.
18)	Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
19)	R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be

	clearly brought out whether the village located in the mine lease area will be shifted or not. The issues relating to shifting of Village including their R&R and socio-economic aspects should be discussed in the report.
20)	One season (non-monsoon) primary baseline data on ambient air quality (PM ₁₀ , SO ₂ and NO _x), water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM ₁₀ , particularly for free silica, should be given.
21)	Air quality modelling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modelling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
22)	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
23)	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
24)	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
25)	Impact of the project on the water quality, both surface and groundwater should be assessed and necessary safeguard measures, if any required, should be provided.
26)	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
27)	Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
28)	Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
29)	A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the project.
30)	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out,

	indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.
31)	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA report.
32)	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
33)	A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.
34)	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP.
35)	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
36)	Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
37)	Detailed environmental management plan to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
38)	Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
39)	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.
40)	The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.

List of Participants

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|-----|--|------------------|
| 1. | Shri M.S. Nagar | Chairman |
| 2. | Dr. S. Subramaniyan | Member |
| 3. | Dr. S.K. Peshin | Member |
| 4. | Shri P.K. Verdia | Member |
| 5. | Prof. G.S. Roonwall | Member |
| 6. | Dr. D. Mohamed Kizhar Irshath | Member |
| 7. | Dr. Saroj Director, MoEF | Member Secretary |
| 8. | Dr. R. B. Lal, Deputy Director, MoEF | |
| 9. | Dr. Sonu Singh, Deputy Director, MoEF | |
| 10. | Representative of M/s Hindustan Copper Limited (HCL) | |
| 11. | Representative of M/s Murli Industries Ltd. | |
| 12. | Representative of M/s Ashu Singh Bhati | |
| 13. | Representative of M/s Trimex Ores Private limited | |
| 14. | Representative of M/s Manvith Minerals | |
| 15. | Representative of M/s ACC Ltd. | |
| 16. | Representative of M/s P. Gowtham Reddy | |
| 17. | Representative of M/s Satish Kumar | |
| 18. | Representative of M/s D. R. Stone Crusher | |
| 19. | Representative of M/s Meem Devi | |
| 20. | Representative of M/s Cossimbazar China Clay Mines (P) Ltd. | |
| 21. | Representative of M/s Public Works Department, State Government of Tamilnadu | |
| 22. | Representative of M/s Sri Ram Mineral Company | |
| 23. | Representative of M/s Atikur Rahaman S/o Hazi Abdul Gafoor | |
| 24. | Representative of M/s UltraTech Cement Ltd. | |
| 25. | Representative of M/s Madhya Pradesh State Mining Corporation Ltd. | |
| 26. | Representative of M/s Ashapura Volclay Limited | |
| 27. | Representative of M/s Binani Cement Limited | |
| 28. | Representative of M/s Geology & Mining Unit, Directorate of Industries, Govt. of Uttarakhand | |
| 29. | Representative of M/s Shri Ramashankar Gurjar | |
| 30. | Representative of M/s Shri Vikramaditya Rathore | |
| 31. | Representative of M/s Shri Mahendra Singh Rajawat | |
| 32. | Representative of M/s Sanjay Kumar Garg | |
| 33. | Representative of M/s Himmat Singh | |
| 34. | Representative of M/s Meghraj Singh | |
| 35. | Representative of M/s Sarv Shri Kuber Associates | |
| 36. | Representative of M/s Sher Singh | |
| 37. | Representative of M/s Puspchandra Gochar | |
| 38. | Representative of M/s Aman Sethi | |
| 39. | Representative of M/s Mangal Singh Solanki | |
| 40. | Representative of M/s Ramesh Morani | |

41. Representative of M/s Ridhi Siddhi Associates
42. Representative of M/s Manohar Lal
