

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

**SUMMARY RECORD OF 10th MEETING OF THE RECONSTITUTED COMMITTEE OF
THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF
MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.**

The 10th Meeting of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment and Forests was held during August 21st-23rd, 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 9th EAC Meeting.

The Minutes of the 9th Meeting of EAC held during July 22nd-24th, 2013 were confirmed as circulated.

Agenda Item No. 2:

**2.1 Acchi Bavri Soapstone (Cap. 20,000 TPA ROM) & Dolomite (Cap. 2,40,000 TPA ROM) Mine of M/s Mahesh Mantri located village Semal, Tehsil Nathdwara, District Rajsamand, Rajasthan (129.50ha) (Consultant: Apex Mintech, Udaipur)-
Environmental Clearance**

The proposal of M/s Mahesh Mantri is for mining of Soapstone (20,000 TPA ROM) & Dolomite (2,40,000 TPA ROM). The mine lease area is located at village Semal, Tehsil Nathdwara, District Rajsamand, Rajasthan. The Latitudes and Longitudes of the Mine Lease area 24°49'32.0" N -24°51'53.6" N and 73°40'06.1" E- 73°41'46.0" E respectively.

The proposal was earlier considered by the Expert Appraisal Committee in its meeting held during August 29-31, 2012 to determine Terms of Reference (TORs) for undertaking detailed EIA study. The TORs were issued by the MoEF vide letter no. J-11015/212/2012-IA.II (M) dated 1st November, 2012. The Proponent submitted its application to the Ministry for seeking environmental clearance. It is noted that the Committee while prescribing TORs exempted the public hearing considering that the minerals being mined are environmentally benign; the incremental impacts consequent on the proposed expansion are not going to be materially different from the impacts placed before the Public on the previous occasion.

The Committee while deliberating the issues on PH, noted that it was conducted on 27.08.2008, which is more than three years old. Therefore, the Committee was of the view that PP needs to conduct fresh PH as this is an expansion case and environmental impact needs to be re-assessed.

Total mine lease area is 129.50 ha out of which Govt. waste land is 27.02 ha, Pvt. Waste land is 70.48 ha and Grazing land is 32.00 ha. No Forest Land is involved. The

mining method is mechanized opencast and the dimension of benches is 6m height and 9 m width. Water requirement is 13 KLD and source of water is sump water (12KLD) and tube well (1KLD). The mine lease was granted by Govt. of Rajasthan for an area of 129.50 ha for mineral soapstone to Shri Manak Lal Nahar for a period of 20 years w.e.f. 11.09.1969 to 10.09.1989. The Renewal of mining lease granted for 10 years w.e.f. 11.09.1989 to 10.09.1999 & executed on 25.02.1991. The Mineral Dolomite was included vide Govt. order No. PA-5/86/Khan/Gr-I/97 dated 06.06.1998. Transfer of lease in the name of Shri Mahesh Mantri was effective from 15.02.1998 vide Govt. order No. Khan/Raj-I/Pakha/SL-1/88 dt. 15.02.1999. Application of renewal of mining lease was made and the new mining lease number is from 11.09.1999 for 20 years. Mining Scheme with Progressive Mine Closure Plan was approved by Supdt. Mining Engineer, Directorate of Mines & Geology vide letter No. SME/UD-Cir/Mine-Scheme/Raj/Major/F/11/10/1295-1301 dated 15.07.2011. The life of mine is 29 years. Mining will not intersect the Ground Water Table.

The Committee noted that Earlier Environment Clearance was granted by MoEF vide letter No. J-11015/186/2005-IA. II (M) dated 22.09.2006 for production of Soapstone (8,500 TPA) & for Dolomite (74,700 TPA). The PP presented the certified compliance report of the Regional Officer for earlier Environment Clearance which was forwarded by the RO on 16.08.2012. The Committee noted that the compliance report is one year old.

PP reported that there is no Wild Life Sanctuary, National Park, Biosphere Reserves, Wildlife Corridors, Tiger /Elephant Reserves within the 10 km of the mine lease area. Three Schedule-I species are reported in the Buffer zone, whereas the conservation plan is prepared for only one Schedule-I species, which too is found inadequate. The Committee was of the view that, PP need to submit the Species specific conservation plan for the identified Schedule-I species with budgetary provisions.

The baseline data was generated for the Months of October 2012 to December 2012. All the parameters for water and air quality were seen to be within permissible limits. The Committee noted that only 5 stations are taken for ambient air quality monitoring and there is no monitoring station in South-East direction.

PP informed that they are undertaking medical checkup for the workers once in three years. The Committee noted that Periodicity of medical checkup (for different types of workers with more vulnerable health records and or working at sites more vulnerable to occupational health hazards) is not adequate; hence the periodicity for medical checkup for the workers (more vulnerable to occupational diseases) in the Core zones need to be more frequent compared to the workers who are not directly involved in the mining activity. In this regard PP needs to provide the details and commitment for the same.

The project cost is 3.0 Crores and the EMP cost is Rs. 13.0 Lakhs towards capital cost and Rs. 7.0 Lakhs per annum is earmarked towards recurring expense for monitoring.

After deliberations, the Committee sought the following additional information:

- i. To conduct fresh Public Hearing as per the provisions of the EIA Notification, 2006;

- ii. Latest RO Certified Compliance report for earlier Environment Clearance accorded vide letter No. J-11015/186/2005-IA. II (M) dated 22.09.2006 for production of Soapstone (8500 TPA) & Dolomite (74,700 TPA);
- iii. To submit Species specific conservation plan for the identified Schedule-I species with budgetary provisions;
- iv. Details of High Court case or other litigation pending for the project;
- v. NOC letter from Gram Panchayat for grazing land;
- vi. Revised Environment policy;
- vii. Suggestion for plantation of fruit trees like *Sharifaa* etc. and Strip plantation around the periphery needs to be provided;
- viii. Questionnaire duly filled in;
- ix. Need for additional monitoring of ambient air quality in the South-West direction of the mine lease area;
- x. Commitment to enhance the periodicity of medical checkup selectively for the more vulnerable workers;
- xi. Details of CSR activities.

The Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid information is submitted.

2.2 Silica Sand Beneficiation Plant (Technology up-gradation and Capacity expansion from 60,000 TPA to 0.6 million TPA of graded silica sand) of M/s Mandovi Minerals Pvt. Ltd, located at village Bhimpur, Rajpardi, Tehsil Jhagadia, District Bharuch, Gujarat (4.856ha) (Consultant: Perfect Enviro Solutions Pvt. Ltd.)- Environmental Clearance

The proposal is for technology up gradation of the existing silica sand beneficiation (washing plant) and enhancement of capacity from 60,000 TPA to 0.6 million TPA throughput of graded silica sand. The mine lease area is located at village Bhimpur, Rajpardi, Tehsil Jhagadia, District Bharuch, Gujarat.

The proposal was earlier considered by the Expert Appraisal Committee in its meeting held during November 28-30, 2011 to determine Terms of Reference (TORs) for undertaking detailed EIA study. The TORs were issued by the MoEF vide letter no. J-11015/222/2011-IA.II (M) dated 28th December, 2011. The proponent submitted its application to the Ministry for seeking environmental clearance after conducting public hearing.

The Mine Lease area is 4.856ha. It is Category 'A' project because of the beneficiation capacity being more than 0.1 million TPA throughput graded silica sand. PP informed that 300 tonnes per day of solid waste will be generated. The low grade silica sand obtained from other mines will be used as raw material for the beneficiation plant. PP informed that the plant has presently obtained approval to use 50 cubic meters water per day for the existing plant. Water supply is from the Bore well within the plant. The treated water is again used back in the plant. Fresh water is used as make up water to compensate the losses. The proposed make up water requirement will be 224 cum per day for which application is under process with Central Ground Water Authority.

The PP informed that the existing washing plant produces washed silica sand that caters the needs of only foundry industries. The existing plant cannot produce a final product that meets the specifications of glass making industries. To cater the market of

glass industries up gradation and expansion of the existing washing plant is taken up. Up gradation of Washing section is being done by Physical/Mechanical means and also by Chemical means to meet market demand for the different grades of Glass. Capacity enhancement in drying section is being done keeping in mind the sand requirements for foundry. PP informed that Existing Silica Sand Beneficiation Plant is installed over an area of 4.70 hectare land which is a core zone. Major part i.e. almost three-fourth (75%) of the buffer zone area is covered by Agricultural land, only (3%) of the total land is covered by manmade constructions like houses, buildings, road and railway. It is noted by the Committee that Consent from Gujarat PCB is available for producing graded silica sand with the capacity of 60,000 TPA and valid up to 05.07.2016.

PP reported that there is no Wild Life Sanctuary, National Park, Biosphere Reserves, Wildlife Corridors, Tiger /Elephant Reserves within 10 kms of the mine lease area. Two Schedule-I species are reported in the Buffer zone. PP submitted the site specific Conservation Plan which was discussed.

The baseline data was generated during Months of December 2011 to February 2012. All the parameters for water and air quality were seen to be within permissible limits. Public Hearing (PH) was conducted on 9th January 2013 under the Chairmanship of Shri I. J. Mali, Additional Collector and SDM Jhagadia, District Bharuch, wherein representative of Gujarat State Pollution Control Board were also present. The issues raised during the public hearing were discussed during the meeting.

The project cost is Rs.20 Crores and the EMP cost is Rs. 1.32 Crores towards capital cost and Rs. 37.5 Lakhs per annum is earmarked towards recurring expense for monitoring. No court case/litigation is pending against the project.

Based on the information submitted, presentation made by the proponent and discussions held, the Committee **recommended** the proposal for environmental clearance with the specific condition that the activity will not commence until Permission of Ground Water withdrawal from the Central Ground Water Authority has been obtained.

2.3. Vastan Limestone Mine with production capacity of 0.0425 million TPA (ROM) of M/s Gujarat Industries Power Co. Ltd. located near village Vastan, Taluk Mangrol, District Surat, Gujarat (80ha)-(Consultant: M/s Udaipur Min-Tech Pvt. Ltd.)-Environmental Clearance

The proposal is for opening of a new mine for production of 0.0425 million TPA (ROM) of limestone in the name of Vastan limestone mine within the existing Vastan lignite mine of the proponent. The mine lease area is located at N/V Vastan, Tehsil – Mangrol & District – Surat, Gujarat. The Mine Lease area is between Latitudes 21°22'57 to 21°24'41"N and Longitudes is 73° 05' 26" to 73° 06' 22" E. The Project is located in Seismic Zone III.

The proposal was earlier considered by the Expert Appraisal Committee in its meeting held during July 20-22, 2011 to determine Terms of Reference (TORs) for undertaking detailed EIA study. The TORs were issued by the MoEF vide letter no. J-11015/112/2011-IA.II (M) dated 10th January, 2012. The proponent submitted its application to the Ministry for seeking environmental clearance after conducting public hearing.

Mining Plan was approved by IBM, Ajmer vide order no. 682(23)(378)/2005-UDP dated 28/4/2005 for period 2004-05 to 2008-09 and Scheme of Mining was approved vide order no. 682(23) MS-547/09 MCCR (U) UDR.Dt.04/01/2011 for period 2009-10 to 2013-14. The State Government has granted approval for inclusion of mineral limestone to the existing lignite mining lease vide letter No.4/65/98 dated 08.09.1998. The Vastan Lignite Mine was accorded environmental clearance by the Ministry vide J-11015/40/95-IA.II (M), dated 19.06.1996. It has been envisaged that an area of 28ha will be acquired outside the mine lease area for waste dumps.

The mine lease area is 80.00 ha which waste-land. No forest land is involved. The mine working is opencast by mechanized method with rock breaking techniques using 110mm dia. drill rod rock breaker. The life of the mine is 26years. The ultimate working depth of mine will be 22m RL. The mine working will not intersect the ground water table. The water requirement of the project is estimated as 88kld which will be sourced from the dug well/tube well in the plant site. Out of 88kld, 80.00 kld will be used for water spray, 5.00 kld for green belt development and 3.00 kld for drinking & others uses.

PP reported that there is no Wild Life Sanctuary, National Park, Biosphere Reserves, Wildlife Corridors, Tiger /Elephant Reserves/Schedule -I species with-in 10 kms of the mine lease area. The baseline data was generated for the period during December 2011 to February 2012. All the parameters for water and air quality were seen to be within permissible limits. The Committee noted that PP has not taken any ambient air quality monitoring station in the South-West direction of the mine lease area.

Public Hearing (PH) was conducted on 12th March 2013 under the Chairmanship of Shri Jai Prakash Shivahare, Collector and District Magistrate, Surat wherein representatives of Gujarat State Pollution Control Board were also present. The issues raised during the public hearing were discussed during the meeting, however, the Committee noted that the Action Plan with budgetary provisions was not submitted.

The Committee noted that it is a **violation** case as the PP had started production of limestone without obtaining requisite prior environmental clearance from January 2012 to June 2013 and it was noted that this is a violation for the second time after the TOR was issued. PP informed that the mine is closed since June 2013. The project cost is 245 Crores and the EMP cost is Rs. 17 Lakhs towards capital cost and Rs. 6.20 Lakhs per annum is earmarked towards recurring expense. No court case/litigation is pending against the project.

After deliberations, the Committee sought the following additional information:

- (i) Action plan on the issues raised during Public Hearing with budgetary provisions in a tabular Form;
- (ii) Need to submit RO Compliance Report for Vastan Lignite Mine which was accorded environmental clearance by the Ministry vide J-11015/40/95-IA.II (M), dated 19.06.1996;
- (iii) Need for additional monitoring of ambient air quality in the South-West direction of the mine lease area;

- (iv) Commitment for the development of Green Belt and Details of species to be planted;
- (v) Revised Questionnaires;

The Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid information is submitted.

2.4 Enhancement of production of Saruabil Chromite Mines from 0.136 million TPA to 0.35 million TPA of M/s Misrilall Mines Pvt. Ltd. located in village Saruabil in Tehsil Sukinda, District Jajpur of Odisha State (246.858 ha)– Environmental Clearance

The proposal is for enhancement of production of Chromite Ore in Saruabil Chromite Mines from 0.136 million TPA to 0.35 million TPA along with beneficiation plant as well as 3rd renewal of Mining Lease of M/s Misrilall Mines Pvt. Ltd. The mine is spread over in villages Saruabil, Kamarda and Talangi in Sukinda Tehsil under Jajpur district of Odisha. The Area falls in survey of India Toposheet No. 73G/16 and bounded by Latitudes 21° 01' to 21° 05' N and Longitudes 85°45' to 85°50' E.

The proposal was earlier considered by the Expert Appraisal Committee in its meeting held during April 28-30, 2010 to determine Terms of Reference (TORs) for undertaking detailed EIA study. The TORs were issued by the MoEF vide letter no. J-11015/72/2010 IA.II (M) dated 31st May 2010. The Proponent submitted its application to the Ministry for seeking environmental clearance after conducting public hearing. The project proponent made a presentation with regard to compliance of TORs for mining of Chromite Ore.

The mining lease area is 246.858 ha which includes 224.633 ha of forest land and 22.225 ha non-forest land. Forest clearance for 224.633 ha has been obtained vide MoEF letter no. 8-100/95-FC dated 16.01.2007. Mine Plan has been approved by IBM vide letter No. 314(3)/2009-MCCM (CZ)/MS-50 dated 31/05/2010. The life of the mines is 9 years. Project Proponent informed that the said Mine had earlier obtained Environmental Clearance for production capacity of 0.136 million TPA from MoEF vide letter no. J-11015/7/2007-IA.II (M) dated 15th February, 2009.

The mining is by open cast mechanized method on double shift basis during the proposed plan period. The existing 20 TPH beneficiation plant is proposed to be expanded to 30 TPH. The process being wet, no dust will be generated during the processing of ore. However, dust generation is anticipated during dumping and truck movement, which will be suppressed by sprinkling of water at regular interval using a water tanker on hauling road. The permission for ground water drawl of 350 KLD, has been obtained from Central Ground Water Authority, Govt. of India, Ministry of Water Resources, New Delhi, vide letter no. 21-4 (73)SER/CGWA/2008-1300 dated 24.10.2008. The PP informed that the mine will intersect the ground water and the Hydro Geological study has been carried out. From the field investigation and well inventory studies carried out, it has been revealed that the depth of water table over the larger parts of the valley area lies between 3 to 6 m.

PP reported that there is no Wild Life Sanctuary, National Park, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves Schedule - I species within 10 kms of the mine lease area. However, the Committee was of the view that as MLA has major

forest area and therefore, the information provided by PP needs to be re-assessed. Fresh primary data of flora and fauna of study area to be carried out and certified by the State Government.

Baseline data was generated for the Post Monsoon season (September-November, 2011). All the parameters for water & air quality were seen to be within permissible limits. Public Hearing was (PH) was conducted on 29.01.2013 under the Chairmanship of Sri Chakrayudha Hota, Additional District Magistrate, Kalingnagar, Jajpur and the representative of Regional Officer, State Pollution Control Board, Odisha were present. The issues raised during the Public Hearing were discussed during the meeting which inter-alia, included Treatment of mine drainage water, groundwater depletion and provision of Rain Water Harvesting, Over Burden (OB) dump management, Deforestation, Peripheral development i.e. education, health, drinking water supply & employment etc. As per the villagers requirement, PP informed that all issues have been taken care of and will be continued to be taken care of during expansion.

The cost of project is Rs. 900.00 Lakhs only for expansion project and budget for EMP is Rs. 201.47 Lakhs. The developmental activities under CSR activities in the surrounding villages for the year 2008-09 to 2012-13 were worth Rs.184.230 Lakhs. There is no Court Case/litigation pending against the project.

After deliberations, the Committee sought the following additional actions/information:

- (i) Fresh primary data of flora and fauna of study area to be carried out and certified by the State Government.
- (ii) An additional monitoring station for ambient air quality may be set in the East direction of the mine lease area and confirmed in writing;
- (iii) Action plan on the issues raised during Public Hearing with budgetary provisions be prepared in a tabular Form and submitted;

The Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid actions are taken and information is submitted.

2.5: Mining of Sand, Bajri and Boulder in River Tons Lot No. 3/6 of M/s Garhwal Mandal Vikas Nigam Ltd. located at Vill-Prempur Maafi, Kaulagarh, Bilaspur Kandli and Bajawala, Tehsil-Dehradun, Distt-Dehradun, Uttarakhand. (10.523 ha) (Grass Roots Research & Creation India (P) Ltd. Noida)-TOR

The Mining Lease area is located near Village Prempur Maafi, Kaulagarh, Bilaspur Kandli and Bajawala, Tehsil & District Dehradun, Uttarakhand. The proposed production capacity is 85,000 TPA. The lease area lies on River Tons. The Latitudes and Longitudes of Mine Lease area 30°21'6.84"N - 30°21'28.56"N, 77°59'18.13"E - 78°0'34.80"E.

The Project is located in seismic zone-IV. It is 'A' category project due to the presence of Doon Valley (Project site lies within Doon Valley) within 10 Km radius of the lease area.

Mining is by open-cast method, confined to extraction of sand, bajri and boulder 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 Letter of Intent (Letter No.40/Bhu. Khani.E./2012-13 dated 18-4-2013, issued by the Govt. of Uttarakhand.

Total water requirement will be 3.0 KLD. This water will be supplied from available sources through tankers as well as from surface water sources for dust suppression from nearby village. 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. 11,70,000.

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.

2.6 Bhadwasi Gypsum Mine of Production capacity of 3.0 Million TPA (ROM) of M/s Rajasthan State Mines and Minerals Ltd. located at Vill-Bhadwasi, Makodi, Bhadana, Manzwas, Tehsil & Distt-Nagaur, Rajasthan (1122.38 ha) (Consultant: Wolkman Consultancy Services, Udaipur)-TORs

The proposal is of M/s Rajasthan State Mines and Minerals Ltd. for Mining of Gypsum with the Production capacity of 3.0 Million TPA (ROM). The mine is located at Village-Bhadwasi, Makodi, Bhadana, Manzwas, Tehsil & District Nagaur, Rajasthan. The Latitudes and Longitudes of the mine lease area are 27°17' to 27° 22' N and 73°38' to 73°49' E in the Toposheet number 45 E/11, 12 E/15 respectively.

The total mine lease area is 1122.38 ha, which is Revenue land. PP informed that total 683.0 ha land will be degraded during entire life of the mine and around 433 ha pit area will be simultaneously backfilled, reclaimed, afforested and returned back for cultivation and 156 ha area will remain as a water reservoir. No forest Land is involved. Life of mine is 27 years. Method of mining is opencast fully mechanized without drilling and blasting. Total water requirement is 23 kld. It is reported by the project proponent that there is no court case pending against the project. The total cost of project would be around Rs. 44 Crores.

The Committee noted that it is a **violation** case as the PP had started production of gypsum from 2001 to June 2005 without obtaining requisite prior environmental clearance as per the 1994 Notifications. The mine lease was renewed on 24.07.1999 w.e.f. 01.08.1995 to 31.07.2015.

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 condition (i) Details of handling of

waste to be provided, (ii) Studies on Cumulative impact due to other mining activities in the surrounding area of the mine lease.

2.7 Barui Bauxite & laterite mine (30,000 TPA) of M/s Raghvendre Kumar Agrawal located at Village Barui, Sub division Majhgawan, District Satna, Madhya Pradesh (11.099 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TORs

The proposed project is categorized under Category "A" project due to the presence of Interstate boundary between Uttar Pradesh & Madhya Pradesh lying within 10 km radius from the mine site. The geographical location of the proposed site falls in Survey of India Topo Sheet No. 63 D/13 and is between Latitudes 24°51'49"N to 24°52'10" N and Longitudes 80°56'7" E to 80°56'17" E and is located at Village-Barui, District- Satna, Madhya Pradesh.

The Proponent has reported that it is an existing mine with mine lease area of 11.099 ha which is a non-forest land and proposed production is 30,000 TPA of Bauxite and Laterite ore. The mine lease was granted in favour of Shri Raghvendra Agrawal for 20 years from 19.05.2002 to 18.05.2022. Total water requirement is about 9 KLD. Expected life of mine is 6 years. Mining is by opencast semi-mechanized method. No Drilling and blasting will be done. The total project cost is Rs 1 Crore.

The Committee observed that this is a **violation case** as mine was operating from 01.08.2002 to 31.03.2007 without obtaining prior environmental Clearance.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed TOR** for undertaking detailed EIA study as per Annexure-I subject to fulfilling the guidelines of violation.

2.8 Kathara Kothar laterite mine (25,000 TPA) of M/s Shri Vishvanath Prasad Agrawal located at Village Katharakothar , District Satna, Madhya Pradesh (7.025 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TORs

The proposed project is categorized under Category "A" project due to the presence of Interstate boundary between Uttar Pradesh & Madhya Pradesh lying within 10 km radius from the mine site. The geographical location of the proposed site falls in Survey of India Topo Sheet No. 63 D/13 and lies between Latitudes 24°53'11.5"N to 24°53'24.7" N and Longitudes 80°58'58.2" E to 80°59'12.6" E and is located at Village-Kathara Kothar, District- Satna, Madhya Pradesh.

The Proponent has reported that it is an existing mine with mine lease area of 7.025 ha which is a non-forest land and proposed production is 25,000 TPA of Laterite ore. Initially lease was executed in favour of Shabbir Ahmad Siddiqui for 30 years from 22.01.2004 to 21.01.2034. Lease was then transferred to Sh. Vishvanath Prasad Agrawal on 26.08.2004. Total water requirement is about 8 KLD. Expected life of mine is 16 years based on present level of exploration. Mining is by opencast semi-mechanized method. No drilling and blasting will be done.

The Committee observed that this is a **violation case** as mine was operating from 2007 to 2008 without obtaining prior environmental Clearance. Mining activities

have been stopped w.e.f. 30.05.2008.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed TOR** for undertaking detailed EIA study as per Annexure-I subject to fulfilling the guidelines of violation.

2.9 Batahara Ochre & Laterite mine (50,000 TPA) of M/s Shri Sharad Kumar Bansal located at Village Batahara, District Satna, Madhya Pradesh (11.655 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TORs

The proposed project is categorized under Category "A" project due to the presence of Interstate boundary between Uttar Pradesh & Madhya Pradesh lying within 10 km radius from the mine site. The geographical location of the proposed site falls in Survey of India Topo Sheet No. 63 H/1 and lies between Latitudes 24°54'16"N to 24°54'26" N and Longitudes 81°05'11" E to 81°05'36" E and is located at Village-Batahara, District- Satna, Madhya Pradesh.

The Proponent has reported that it is an existing mine with mining lease area of 11.65ha which is a non-forest land and proposed production is 50,000 TPA of Ochre, Laterite and White Clay. The mining lease was granted in favour of Shri Sharad Kumar Bansal for a period of 20 years i.e. 26.05.2000 to 25.05.2020. Total water requirement is about 13.5 KLD. Expected life of mine is 16 years based on present level of exploration. Method of mining is by opencast semi-mechanized. No drilling and blasting will be done. Total Project cost is 1.5 Crores.

The Committee observed that this is a **violation case** as mine was operating from 2005 to 2007 without obtaining prior environmental Clearance. Mining activities have been stopped w.e.f. 30.06.2007.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed TOR** for undertaking detailed EIA study as per Annexure-I subject to fulfilling the guidelines of violation.

2.10 Barui Ochre and Bauxite Mine (15,000 TPA) of M/s Rakesh Agencies located at village Barui, District Satna, Madhya Pradesh(5.10ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TORs

The proposed project is categorized under Category "A" project due to the presence of Interstate boundary between Uttar Pradesh & Madhya Pradesh lying within 10 km radius from the mine site. The geographical location of the proposed site falls in Survey of Indian Topo Sheet No. 63 D/13 and is between Latitude 24°52'18.4" N to 24°52'24.3" N and Longitude 80°56'40.1" E to 80°56'55.9" E. The mining site is located at Village-Barui, District- Satna, Madhya Pradesh.

The Proponent has reported that it is an existing mine with mining lease area of 5.10 ha which is a non-forest barren land having proposed production of 15,000 TPA of Bauxite, Laterite and Ochre ore. Application for renewal of mine lease was submitted for 20 years on 07.08.2012 to 06.08.2032. Total water requirement is about 5.5 KLD. Expected life of mine is 20 years. The estimated cost of the project is Rs. 1.0 crore. Method of mining is by opencast semi-mechanized. No drilling and blasting is proposed for the project.

The Committee observed that this is a **violation case** as mine was operating from 1996 to 2011 without obtaining prior environmental Clearance. Mining activities have been stopped w.e.f. 01.04.2011.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed TOR** for undertaking detailed EIA study as per Annexure-I subject to fulfilling the guidelines of violation.

2.11 Kumhra (Judwani) Ochre, Bauxite & White Earth mine (40,000 TPA) of M/s Jai Lal Bharat Lal located at Village Kumhra (Judwani), District Rewa, Madhya Pradesh (10.730 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TORs

The proposed project is categorized under Category "A" project due to the presence of Interstate boundary between Uttar Pradesh & Madhya Pradesh lying within 10 km radius from the mine site. The geographical location of the proposed site falls in Survey of Indian Topo Sheet No. 63 H/1 and lies between Latitude 24°51'32.2" to 24°51'52.8" N and Longitude 81°07'18.1" to 81°07'29.8" E. The mining site is located at Khasra No.: P-43, Village: Kumhra (Judwani), District Rewa, Madhya Pradesh.

The Proponent has reported that it is an existing mine with mining lease area of 10.730 ha which is a non-forest barren land having proposed production of 40,000 TPA of Ochre, Bauxite and White Earth mine. Application for renewal of mine lease was submitted on 02.11.2011. Total water requirement is about 10.5 KLD. Expected life of mine is 18 years. The estimated project cost of the project is Rs. 1.0 Crore. Method of mining is opencast semi-mechanized method. No drilling and blasting is proposed for the project.

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

2.12 Siddha Kothar Bauxite & Laterite mine (30,000 TPA) of M/s Rakesh Agencies located at Village Siddha Kothar, District Satna, Madhya Pradesh (12.14 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TORs

The proposed project is categorized under Category "A" project due to the presence of Interstate boundary between Uttar Pradesh & Madhya Pradesh lying within 10 km radius from the mine site. The geographical location of the proposed site falls in Survey of Indian Topo Sheet No. 63 D/13 and lies between Latitude 24°52'34.7" N to 24°52'48.8"N and Longitude 80°54'40.1"E to 80°54'54.8"E. The mining site is located at Village-Siddha Kothar, District- Satna, Madhya Pradesh.

The Proponent has reported that it is an existing mine with mining lease area of 12.14 ha having proposed production of 30,000 TPA of Bauxite & Laterite ore. Application for renewal of mine lease was submitted on 15.10.2007. Total water requirement is about 13 KLD. Expected life of mine is 14 years. The estimated project cost of the project is Rs. 1.0 crore. Method of mining is opencast semi-mechanized method. No drilling and blasting is proposed for the project.

The Committee observed that this is a **violation case** as mine was operating from 1980 to 2012 without obtaining prior environmental Clearance. Mining activities have been stopped w.e.f. 01.03.2012.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed TOR** for undertaking detailed EIA study as per Annexure-I subject to fulfilling the guidelines of violation.

2.13 Berundla Quartz Mine (5,000 TPA of Quartz) of M/s Satish Kumar Garg, located at Vill-Berundla, Taluka-Narnaul, Distt-Mohindergarh, Haryana (18.77 ha) (Consultant: M/s Udaipur Mintech Pvt. Ltd., Rajasthan)-TORs

The proposal is of M/s Satish Kumar Garg for Quartz Mining with production capacity of 5,000 TPA (ROM). The mine lease area is located at N/V Berundla, Tehsil – Narnaul & District – Mahindergarh, Haryana. The Mine Lease area is between Latitudes 27° 57' 26.80" to 27° 57' 50.00" N and Longitudes is 76° 03' 02.10" to 76° 03' 31.50" E. This is Category 'A' project as it is located from the interstate boundary of Rajasthan and Haryana.

The total lease area is 18.77 ha out of which at the end of the lease period 6.36 ha will be occupied by the pits and 3.76 by the dumps. The entire lease area consists of Government Waste land. A Mining plan with Progressive Mine Closure Plan under rule 22 MCR 1960 approved by Directorate of Mines and Geology, Chandigarh vide letter no. Sr.G/ DMG/ HR/ 684 dated 29.01.2002. No forest land is involved. The State Government of Haryana accorded a letter of intent in favor of Shri Satish Kumar Garg vide memo no. Glg/Hy/E-1372/304 dated 14.01.2002, following which the lease deed, under provisions of MCR 1960.

Method of mining will be open cast manual method using JCB for scraping of the loose material. A compressed air operated jack hammer will be used for drilling 32 mm drill holes. Bench Height will be kept 3.0 m and width not less than the height in compliance of MMR 1961. Total water requirement will be about 4.00 KLD for drinking, spraying and plantation. The project cost is 57 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 TOR i.e. Studies on Cumulative impact due to other mining activities in the surrounding area of the mine lease to be provided.

2.14 Musnota Quartz and Feldspar Mine (50,000 TPA) of M/s Satish Kumar Garg, Located at Vill-Musnota, Taluka-NangalDurgu, Distt-Mahindergarh, Haryana(79.32 ha) (Consultant: M/s Udaipur Mintech Pvt. Ltd., Rajasthan)-TORs

The proposal is of M/s Satish Kumar Garg for Quartz and Feldspar Mining with production capacity of 7,000 TPA (ROM).The mine lease area is located at N/V Musnota, Tehsil –Narnaul & District – Mahindergarh, Haryana. The Mine Lease area is between Latitudes 27° 52' 01.48" to 27° 52' 30.40" N and Longitudes is 76° 01' 03.95" to 76° 01' 40.10" E. The Project is located in Seismic Zone III.

The total lease area is 79.32 ha, out of which at the end of the lease period 8.71 ha will be occupied by the pits and 4.20 by the dumps. The entire lease area consists of Government Waste land. No forest land is involved. A Mining plan with Progressive Mine Closure Plan under rule 22 MCR 1960 approved by Directorate of Mines and Geology, Chandigarh vide letter DMG/Hy./Sr.G/M.P./6563 dated 02.08.2001. The proponents, Shri Satish Kumar Garg and Shri Gopal Sharan Garg were issued a letter of intent vide memo no. Glg./Hy/101 dated 16.01.2001 for grant of mining lease for an area of 79.32 ha.

Method of mining will be open cast manual method using JCB for scraping of the loose material. A compressed air operated jack hammer will be used for drilling 32 mm drill holes. Bench Height will be kept 3.0 m and width not less than the height in compliance of MMR 1961. Total water requirement will be about 4.50 KLD for drinking, spraying and plantation. The project cost is 1.15 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 TOR i.e. Studies on Cumulative impact due to other mining activities in the surrounding area of the mine lease to be provided.

2.15 Proposed River Bed Mining Project from River Banas with Production Capacity of Bajri 7.2 million TPA by M/s. S.R Associates located at near Villages: Amlia, Banthali, Jalseena, Jaleri, Jagatya, Nandpura, Rajmahal, Satwara, Santhali; Tehsil- Deoli; District: Tonk (Rajasthan) (1667.78ha) (Consultant: JM Environet Pvt. Ltd., Haryana)-ToR

The Mine lease area is located at village: Banthali, Jalseena, Jaleri, Jagatya, Nandpura, Rajmahal, Satwara, Santhali, Tehsil: Deoli, District: Tonk, Rajasthan. The proposed production capacity of Bajri is 7.2 million TPA (ROM). The lease area lies on River Banas. The Latitudes and Longitudes of the Mine Lease area are 25°52'13.66" to 25°59'19.75"N and 75° 28'3.6" to 75° 38'51.6" E respectively.

The total mine lease area is 1667.78ha which is non-forest land. The Mining Plan & Progressive mine closure plan has been approved by Govt. of Rajasthan vide letter no. SME/JP/MP/352/13 dated 10th July 2013. Method of Mining is manual cum semi mechanized. No drilling & blasting will be done. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 1667.78 ha has been issued by the Joint Secretary, Mines Department, Government of Rajasthan vide letter no. Group-2/ 2013 dated 26.02.2013, for the period of five years. Total water requirement for the project will be 100 KLD which will be sourced from nearby villages. Waste water will not be generated from the mining activities. Domestic waste water generated from toilet will be disposed in soak pits via septic tank. No waste is generated in the mining activities as the project involves collection of Bajri.

Total Cost of the Project is Rs. 1 Crores and the EMP cost is Rs 15 lakhs towards capital and Recurring cost is Rs. 6 Lakh per annum. 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.16 Kaolinised Sand, Silica sand, China Clay mine & its Beneficiation Plant (1,50,000 TPA) of M/s Standard Mercantile Company (Mining Division) Pvt. Ltd. located at Village Rai Bazar, Taluka Rajmahal District Sahibganj, Jharkhand (65.197 ha) (Consultant: Grass Root Research & Creation India (P) Ltd., Noida)-TORs

The proposal is for Kaolinised Sand, Silica sand, China Clay mine & its Beneficiation Plant of M/s Standard Mercantile Company (Mining Division) Pvt. Ltd. located at Village Rai Bazar, Taluka Rajmahal District Sahibganj, Jharkhand over an area of 65.197 ha with proposed production capacity of 1,50,000 TPA. The Mine Lease area fall sin Survey of Topo sheet No. 73 O/14 (restricted) & lies between Latitudes & Longitudes i.e. 25° 03' 23.41" N to 25° 03' 57.34" N and 87° 47' 14.07" E to 87° 47' 52.18" E. It is a category 'A' project due to Udhwa Lake Bird Sanctuary being at a distance of about 4.5 km in SE direction and Interstate boundary between Jharkhand & West Bengal being at a distance of 1 km in East direction.

The mining operation is by Opencast Other than fully mechanized method. The Mining Lease was originally granted to M/s Standard Mercantile Company (partnership firm) dated 07.10.1979 for a period of 15 years (up to 06.10.1994). Company has been granted renewal of mine lease vide Govt. of Jharkhand's order number 1240/M, Ranchi dated 28.9.2004 for a period of 20 years from 07.10.1994 to 06.10.2014. The water required for washing unit: 126.5 KLD out of which 70% i.e 88.5 KLD will be recycled and fresh water requirement 38 KLD. It is reported by the project proponent that there is no court case/litigation pending against the project. The cost of the project is Rs 2.36 Crore.

While appraising the project, the Committee had observed that this is a **violation case** as mine operated from 1994 to 2013 without obtaining prior environmental clearance & mine was closed w.e.f. 09.04.2013.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee prescribed the TOR for undertaking detailed EIA study as per Annexure-I subject to fulfilling the guidelines on violation with additional TOR conditions (i) Proper Conservation plan for Schedule-I species (ii) Necessary NBWL clearance should be obtained.

2.17 River Sand Mining Project (Production Capacity 2.80 Lakh TPA) of M/s Himmat Singh Shekhawat, located at vill-Revenue, Tehsil-Nathdwara, Distt-Rajsamand, Rajasthan (773.27ha)-TORs

The proposal of M/s Himmat Singh Shekhawat for River Sand Mining with the Production Capacity 2.80 Lakh TPA of Sand in 773.27 ha. The mine lease is located at village-Revenue, Tehsil-Nathdwara, Distt-Rajsamand, Rajasthan. The Coordinate of river (Berach & Lapli River) having Latitudes 24⁰ 54' 49" N to 25⁰ 01'13" N and Longitudes 73⁰37'19" E to 73⁰ 56'10" E.

The Department of Mines & Geology, Govt. of Rajasthan has awarded the lease for 5 years vide Letter No. P10(3)Mine/Group-2/2013 dated 05.03.2013 in favor of Mr. Himmat Singh Shekhawat. Mining will be carried out by opencast semi – mechanized method. River Sand Mining will be restricted to 3 meter depth from the top of the sand bed and will be kept 1-2 meter above the water level of the river. Total water requirement of the project will be 5 KLD for dust suppression & plantation and met from nearby tube-well or tankers. Mining will be done in day time and restricted in heavy rainfall. No natural cause of the river will be changed. Capital cost of the project is Rs 68 Lac.

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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.18 River Sand Mining project (1.68 Lakh TPA) of M/s Rajasthan Fort & Palace Pvt. Ltd., located at Vill-Revenue, Tehsil-Begun, Distt-Chittorgarh, Rajasthan (286.43ha)-TORs

The proposal of M/s Rajasthan Fort & Palace Pvt. Ltd. is for River Sand Mining with the Production Capacity 1.68 Lakh TPA of Sand in 286.43 ha. The mine lease is located at village-Revenue, Tehsil-Begun, Distt-Chittorgarh, Rajasthan. The Coordinate of river (Berach river) having Latitudes 25⁰ 10'20" N to 25⁰ 5'55" N and Longitudes 74⁰46'57" E to 74⁰ 51'40" E.

The Department of Mines & Geology, Govt. of Rajasthan has awarded the lease for 5 years vide Letter No.P2(A3)Chittod/Sand/2012/837, Dated: 30/11/2012 in favor of M/s Rajasthan Fort and Palace Pvt. Ltd. Mining will be carried out by opencast and semi – mechanized method. River Sand Mining will be restricted to 3 meter depth from the river bed and will be kept above 1-2 meter from the water table. Total water requirement of the project will be 4 KLD for dust suppression & plantation) and met from nearby tube-well or tankers. No natural cause of the river will be changed. Capital cost of the project is Rs. 60 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.19 River Sand Mining project of (25.2 Lakh TPA) M/s Raman Sethi, located at Vill-Revenue, Tehsil-Pachpadra, Distt-Barmer, Rajasthan (3056.6181ha)-TORs

The proposal of M/s Raman Sethi is for River Sand Mining with the Production Capacity 25.2 Lakh TPA of Sand in 3056.6181 ha. The mine lease is located at village-Revenue, Tehsil-Pachpadra, Distt-Barmer, Rajasthan. The Coordinate of River (Luni River) having Latitudes: 25°47'38"N to 25°48'40" N Longitudes: 71°58'25" E to 72°29'12" E.

The Department of Mines & Geology, Govt. of Rajasthan has awarded the lease for 5 years vide Letter No P.8 (18) Mining/Group-2/2013 Dated 22.02.2013 in favor of Mr. Raman Sethi for River Sand Mining in revenue villages of Tehsil: Pachpadra, District: Barmer, State: Rajasthan. Mining shall be carried out as opencast and semi – mechanized method. River Sand Mining will be restricted to 3 meter depth from the river bed and will be kept above 1-2 meter from the water table. Total water requirement of the project will be 10 KLD and met from nearby tube well or tankers. Mining will be done in daytime and restricted in heavy rainfall. No natural cause of the river will be changed. Capital cost of the project is Rs. 72 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.20 River Sand Mining project (3.92 Lakh TPA) of M/s Ashu Singh Bhati, located at Vill-Revenue, Tehsil-Gangrar, Distt-Chittorgarh, Rajasthan (77.50ha)-TORs

The proposal of M/s Ashu Singh Bhati is for River Sand Mining with the Production Capacity 3.92 Lakh TPA of Sand in 77.50 ha. The mine lease is located at village-Revenue, Tehsil-Gangrar, Distt-Chittorgarh, Rajasthan. The Coordinate of River (Berach River) having Latitudes 25° 59' 17" N to 25°3'40" N and Longitudes 74°41'02" E to 74°44'03" E.

The Department of Mines & Geology, Govt. of Rajasthan has awarded the lease for 5 years vide Letter No. Akh/Bhilwara/Minor/Sand/2012/2083, Dated: 20/12/2012, in favor of Mr. Ashu Singh Bhati, for River Sand Mining in revenue villages of Tehsil: Gangrar, District: Chittorgarh, State: Rajasthan. Mining shall be carried out as opencast and semi – mechanized method. River Sand Mining will be restricted to 3 meter depth from the river bed and will be kept above 1-2 meter from the water table. Total water requirement of the project will be 6 KLD and met from nearby tube-well or tankers.

Mining will be done in daytime and restricted in heavy rainfall. No natural cause of the river will be changed. Capital cost of the project is Rs. 50 Lakh.

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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.21 River Sand Mining project (1.40 Lakh TPA) of M/s Rajasthan Fort & Palace Pvt. Ltd, located at Vill-Revenue, Tehsil-Kapasan, Distt-Chittorgarh, Rajasthan (335.03ha)-TORs

The proposal of M/s Rajasthan Fort & Palace Pvt. Ltd. is for River Sand Mining with the Production Capacity 1.40 Lakh TPA of Sand in 335.03 ha. The mine lease is located at village-Revenue, Tehsil-Kapasan, Distt-Chittorgarh, Rajasthan The Coordinate of river (Berach river) having Latitudes 24⁰44'13" N to 24⁰47'29" N and Longitudes 74⁰07'11" to 74⁰26'22".

The Department of Mines & Geology, Govt. of Rajasthan has awarded the lease for 5 years vide Letter No. P. 10 (22) Mining/ G-2/2012 dated 28.01.2013, in favor of M/s Rajasthan Fort and Palace Pvt. Ltd for River Sand Mining in revenue villages of Tehsil: Kapasan District: Chittorgarh, State: Rajasthan. Mining shall be carried out as opencast and semi – mechanized method. River Sand Mining will be restricted to 3 meter depth from the river bed and will be kept above 1-2 meter from the water table. Total water requirement of the project will be 6 KLD and met from nearby tube-well or tankers. Mining will be done in daytime and restricted in heavy rainfall. No natural cause of the river will be changed. Capital cost of the project is Rs. 60 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.22 Nadidih iron and manganese mine of M/s Bonai Industrial Co. Ltd. Village – Nadikasira & Rengalbeda, Distt. Sundergarh, Orissa (73.855ha) (Ecomen Laboratories Pvt. Ltd.)-Environmental Clearance.

The proposal is for increase in production of iron ore from 2.0 MTPA to 5.3 MTPA (43,00,000 Tonnes/Annum ROM iron ore, 10,00,000 tonnes/annum reworking of old

dumps & wet beneficiation of 10,00,000 tonnes per annum iron ore) by M/s Bonai Industrial Co. Ltd., located at village Nadikashira & Rengalbeda, Tehsil Bonai, district Sundergarh of Odisha. The Latitude and Longitude of the site is 21°57'53"N to 21°58'23"N and 85°15'30"E to 85°16'10"E.

The proposal was considered by the Expert Appraisal Committee in its meeting held on 26 July, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter J-11015/135/2012-IA-II(M), dated 19.11.2012. The proponent submitted its application to the Ministry for seeking environmental clearance after conducting public hearing. The Environmental Clearance for the mine was earlier granted by Ministry of Environment and Forest, Govt. of India vide letter no. J-11015/138/2007-I.A-II(M) dated 18.02.2009 for production of 2.0 million TPA of Iron Ore. The Certified Compliance Report by MoEF Regional Office, Bhubaneswar vide letter no. 101-488/08/EPE dated 18.03.2013 was discussed in the meeting. As per the report of regional office no pizometers were installed. In this regard, Project Proponent informed that this condition has now been complied.

The mine lease area is 73.855 ha. The break-up of land use category at present is mining (32.628 ha), over burden dump (12.648 ha), Mineral Storage (8.438), Infrastructure & mine camp (0.769 ha), Roads (2.513 ha), Green belt & Plantation (4.575 ha), mineral separation (1.396 ha) & unutilized (10.888 ha). The Mining Scheme is approved by IBM vide letter no.314(3)/2012MCCM(CZ)/MS/40 dated 17.04.2013. The mine lease area is 73.855 ha out of which 67.637 ha is forest land and 6.218 ha is non forest land. Stage-II Forest Clearance has already been obtained by the lessee vide letter no. 8-97/2008-FC dated 09.02.2011 for 65.237 ha of forest land. The balance 2.4 ha is safety zone.

The working will be open cast fully mechanized. Total Mineable Reserves are about 31.96 million tonnes. The life of the mine is 9 years. In this conventional opencast mine, mechanized drilling with 110mm dia drill machine, deep hole blasting, excavation by excavator, breaking of iron ore and reject boulders by rock breaker to avoid secondary blasting, stacking by loader etc. shall be adopted. It is proposed to install a wet beneficiation Plant of 2 x 250 tph for processing of low grade ore. 1st line of 250 tph capacity shall be installed during 2013-14 and 2nd line of similar capacity shall be installed during 2015-16. The feed material to the proposed Plant shall be 30mm low/sub grade iron ore material from the above mines. The quantity of feed to the Plant working to full capacity shall be 1.0 million tones/annum to produce saleable product of 0.7 million tons/annum. The quantity of tailings to be generated in this Plant will be 0.3 million tones/annum. Total requirement of water for this wet beneficiation Plant will be 1490 m³day.

At present 46,91,850 m³ of waste are lying in dump-A. During scheme period, total generation of waste is 22,35,621 m³. Total tailings generation during scheme period is 5,24,583 m³. The total waste of 46,91,850 m³ shall be handled by dry and wet beneficiation. In scheme period 20,57,659 m³ of waste shall be backfilled and 1,77,962 m³ shall be dumped in Dump A. Upto life of the mine around 48,81,539 m³ of waste including tailings shall be backfilled in 35.249 hectare of exhausted quarry. Around 50% of the tailings generated shall be filter pressed and rest shall be disposed in tailing pond.

Total Water requirement is 1,940.60 KLPD. 1,490.30 KLPD for wet beneficiation Plant. The quantity of water will be met from Karo river & Ground water. 1,785.6 KLPD water from the river Karo and 155 KLPD from ground water. Ground water approval for

806.094 KLPD has already been obtained from CGWA. Approval of surface water for 434.21 lakh gallon per annum is already obtained from Irrigation Dept. and for remaining, is under process.

The present working is at 546mRL and ultimate working will be at 506mRL. The water table (post monsoon) is at 502 mRL. Therefore, water table will not be intersected. Project proponent reported that no wild life Sanctuary/Tiger Reserve/National Park is located within 10 km radius of the mine lease. For conservation of wildlife in the buffer and core zone, site specific conservation plan is already approved by Principal CCF (Wild Life) & Chief Wild Life Warden, Odisha. Project proponent has contributed proportionate amount in preparation of regional Wild Life Management Plan. The proposed fund requirement for implementation of the plan has been deposited (an amount of Rs. 91 Lacs) to DFO Bonai. All other conservation measures within the lease area shall be undertaken by the company under the guidance of the monitoring committee and DFO and a budget of Rs. 32 Lacs has been earmarked by the company for implementation of the plan within lease area.

Baseline studies were carried out in October, November and December, 2012. The parameters were reported within the prescribed standards. Public hearing was held on 14.05.2013 in Nadikashira under Koira Block. Issues raised during public hearing were addressed by the Project Proponent. The action plan with budgetary allocation are given as: Plantation (Rs.9.6 lakhs), Dust suppression (already spent Rs. 1.0 crore, proposed yearly Rs. 20 lacs), Retaining wall around dumps (already spent Rs. 1.0 crore, proposed yearly Rs. 20 lacs), Retaining wall around dumps (already spent Rs. 8 lacs, proposed yearly Rs. 50 lacs), Health care (proposed yearly 21.4 lacs), girls education (Rs. 50,000), Bore wells (Rs.14.35 lacs), Dug well (Rs. 1.0 lac), Education facilities (Rs.4.73 lacs) & Peripheral development (Rs.9.1 lacs).

The estimated cost of the project is Rs.200 crores and environmental cost towards EMP is Rs. 84.62 lakhs. Proposed peripheral development expenditure/CSR recurring expenditure per year is Rs.23.05 lakhs. There was no court case/litigation pending against the project and no violation of the rule was there.

Based on the information submitted, presentation made by the proponent and discussions held, the Committee **recommended** the proposal for environmental clearance with additional specific conditions (i) Lease area is surrounded by two river stream Karo and Sona, PP shall take mitigative measures to protect both rivers, (ii) Green barrier (five stratified rows) should be raised on the boundary of MLA towards Karo river, (iii) 10-15% of plantation/green belt should be of endemic/endangered species, (iv) Additional monitoring station shall be installed in E /SE direction of the mine lease area, and (v) Traffic density on the route of mineral transportation shall be regularly monitored and report shall be submitted along with compliance report.

2.23 Mogalgad Bauxite Mining Project of M/s Hindalco Industries Ltd., village Mogalgad, Chandgad Taluka, District Kolhapur, Maharashtra(9.05ha)-Environmental Clearance

Mogalgad Bauxite Mine of M/s Hindalco Industries Ltd. is a new mine with production capacity of 0.1 million tonnes per annum of Bauxite Ore from the MLA 9.05 Ha. The mine is located at Kitwade and Hajgoli villages, Chandgad Taluka, District Kolhapur, Maharashtra. The Mogalgad Bauxite Mine falls between Latitudes 15°49'17" N to 15°50'05" N and Longitude 74°17'14." E to 74°17'56" E.

Mining will be done by opencast semi-mechanized method using deep hole drilling and blasting. The bauxite produced from this mine will be for captive use in the Alumina Refinery of the company located at Belgaum, Karnataka. The proposal was considered by the Expert Appraisal Committee in its 14th meeting held during 25-27th April, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/23/2011-IA.II(M) dated 20th May, 2011. The proponent submitted its application to the Ministry for seeking environmental clearance after conducting public hearing. This is category 'A' project as it is located near interstate boundary of Maharashtra and Karnataka.

The mine lease area is 7.5 ha along with 1.55 Ha for approach road (Total: 9.05 Ha). The mine lease area and approach road falls in Reserve Forest land. The Mining plan is approved by IBM vide Letter No. MP/KLP/GOA(MAH)/BX-239-SZ/745 dated 16.11.2011. Stage I Forest Clearance from MoEF is granted vide Letter No. 8C/39/2003-FCW/2478 dated 06/10/2009. NOC from four Village Panchayats i.e. Kaliwade, Hajgoli, Jangamhatti and Madivale is obtained.

The total bauxite reserves are about 471,751 Tonnes and aluminous laterite/sub-grade bauxite reserves are estimated as 112,520 tonnes. The bauxite will be loosened by deep hole drilling and blasting. Breaking and Sizing of blasted bauxite will be by manual means before loading into the trucks for dispatch to Belgaum Plant. Maximum depth of the workings would be 8 m bgl. The ground water table in the area is estimated at more than 100 m below the ground level in the mine lease area. Hence, the mining activities will remain above the ground water table. An ultimate pit slope angle of 45° on the inner sidewalls of the pits will be maintained. A safety barrier of 7.5 m will be maintained around the periphery of the Mine lease area. Production of mineral will be carried out every year from October to May i.e. for a period of about 200 days. During rainy season, it will be suspended because of higher moisture content. The anticipated life of mine is about 10 years. A total of 6.03 Ha area will be excavated for mining during the life of the mine. 4.91 ha of the mined out area will be reclaimed with plantation and in the remaining 1.12 Ha mined out area, two surface water reservoirs will be developed by accumulating rainwater into it. Also green belt will be developed in the 1.47 Ha un-mined area within the mine lease.

The water requirement is estimated as 15 KLD, which will be obtained by tanker from nearby villages in the initial period of mining. Later, the rainwater accumulated in mine pits will be used for dust suppression and plantation to the extent possible. It was reported by the PP, that Aluminous laterite, sub-grade bauxite will be generated to the tune of 112,520 tonnes during the mine life. This will be blended with the bauxite ROM and will be dispatched to the Aluminium Refinery of the company.

It was reported by the PP that the ML area falls in reserve forest land and there are a number of reserve forests in the 10 km radius study area of the project. Radhanagri wild life sanctuary (46 km NW) and Chandoli Wildlife Sanctuary (150 km) are located far away from the mine lease. The Schedule I species observed in the 10 km radius study area includes Mouse Deer, Bison, Leopard, Elephant, Indian Pangolin and Sloth Bear. A detailed conservation plan has been prepared for the Schedule I species and is approved by Dy. Conservator of Forests, Kolhapur.

The Public Hearing for the Proposed Project was conducted on 30th April 2013 at Madwale Vidyamandir School Ground. The PH was chaired by Shri Appasaheb Dhulaj, Additional District Collector, Kolhapur. The proponent informed that the chairman of the

public hearing is of the level of ADM as per EIA Notification, 2006. The issues raised during public hearing were also discussed and considered during the meeting, which inter-alia, included that there should not be any discharge of effluent from the mine lease area, road safety and dust pollution, cashew crop destruction by mining, preventing the silt from ML area flowing into the agricultural lands, air pollution control measures to be adopted, sprinkling of water, repairs to the roads, conservation of flora & fauna of the area etc. As per the villager's requirements, it was informed by the PP that they would take care of local employment; health issues, providing education, and assistance in vocational training etc. These have been incorporated in the Project Plan with budgetary provisions.

The cost of the project is Rs. 3.278 Crores. Proposed Capital cost for implementation of Environmental Management Plan is Rs. 59 Lakhs and the recurring expenses per annum are Rs. 38.8 Lakhs. It was reported by the PP that there is no court case/litigation pending against the project and no violation.

Based on the information submitted, presentation made by the proponent and discussions held, the Committee **recommended** the proposal for environmental clearance with additional specific condition: 10-15% of plantation/green belt should be of endemic/endangered species, for which a nursery shall be set up.

2.24 Collection of River Bed Sand from the River Yamuna of M/s Charan Singh & Others, Village Subhanpur Bangar, Tehsil Khekra, Distt. Baghpat. UP. (16.01ha) (Grass Roots Research & Creation India (P) Ltd)- Environmental Clearance

The proposal is for opencast Sand Mining with proposed production of 3.6 Lakh TPA located at Village Subhanpur Bangar, Tehsil Khekra, District Baghpat, Uttar Pradesh. The Latitude and Longitude of the site is 28°50' 6.98" N to 28°49'41.03" N and 77°13'31.77" E to 77°13'27.40" E.

The proposal was considered by the Expert Appraisal Committee in its meeting held during 19th Oct, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/186/2011-IA.II(M) dated 30th April, 2012. The PP submitted their application to the Ministry for seeking environmental clearance after conducting public hearing.

The proposal is for mining sand over an area of 16.01 ha from river bed of Yamuna with proposed capacity of 4.2 lakhs TPA. The Mining plan is approved by Director of Geology and Mining, UP vide Letter dated 07.05.2013. The mining process is opencast river bed mining of minor minerals. Before the mining process, lease area will be demarcated with wooden planks. Mining is proposed to be carried out manually. Safety distance of 50 m from the river bank will be left as 'no mining zone'. Drilling and blasting is not required. During the entire lease period, the deposit will be worked from the top surface to 3 m bgl or above the ground water level whichever comes first. Ground water table at the project site at present is 6.5 m bgl, hence there will be no intersection. No solid waste will be generated during mining as the entire material is saleable.

Total water requirement for the project 4.64 kld of which 1.8 kld will be required for dust suppression and 2.84 kld will be required for domestic use. Water will be obtained from nearby village Subhanpur Bangar through tankers. NOC has been obtained for the same.

It was reported by the PP that no protected area like Wildlife Sanctuary/Tiger

Reserve/National Park/Schedule I species are present within 10 km of the mine area. Baseline studies were carried out during pre-monsoon season 2011-12 (Dec, 2011 - Feb, 2012). All the parameters for air, water, soil & noise quality were found to be within permissible limits.

The Public Hearing for the Proposed Project was conducted at Subhanpur Bangar Village on 19.09.2012. The public hearing was chaired by ADM. The issues raised during public hearing were related to ML area into transportation, pollution and its control measures to be adopted etc. As per the villager's requirements, it was informed by the PP that they would take care of local employment; health issues, providing education, and assistance in vocational training etc. These have been incorporated in the Project Plan with budgetary provisions. The cost of the project is Rs 20 Lakhs. It was reported by the PP that there is no court case/litigation pending against the project.

The mine started operating since September 2006 (28.09.2006) without obtaining prior environmental clearance, the Committee was informed by the PP that the mine operated as per the order of the Hon'ble High Court of Allahabad which permitted mining of minor minerals up to 30.6.2011. The date of closing of mine was ascertained by State Government of Uttar Pradesh. State Government had confirmed that mine was closed since 30.06.2011. Thus the Committee was of the view that this cannot be treated as **a violation case.**

Based on the presentation made and discussion held, the Committee decided to **defer the proposal to be brought back** to the Committee after the following information is submitted: (i) In compliance to the TOR point no. 18, the replenishment study shall be done and Report submitted, (ii) Schematic diagram needs to be re-drawn, as the present one is not technically acceptable, as it shows the ground and river at the same level (iii) Fresh baseline data collection shall be undertaken, and (iv) Detailed survey of aquatic fauna and flora needs to be done.

2.25 Sanindpur Iron & Bauxite mine of M/s Rungta Sons(P) Ltd., Village Sanindpur & Oraghat, Distt. Sundergarh, Orissa (147.10ha)(Ecomen Laboratories Pvt. Ltd.) Environmental Clearance.

The proposal is for increase in production of iron ore from 1.65 MTPA to 4.5 MTPA (28,50,000 Tonnes/Annum ROM iron ore, 16,50,000 tonnes/annum reworking of old dumps & wet beneficiation of 14,40,000 tonnes per annum iron ore) by M/s Rungta Sons (P) Ltd., located at village Sanindpur, Tehsil Bonai, district Sundergarh of Odisha. The Latitude and Longitude of the site is 21⁰55'18"N to 21⁰55'55"N and 85⁰17'19"E to 85⁰18'30"E

The proposal was considered by the Expert Appraisal Committee in its meeting held on 31 August, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter J-11015/206/2012-IA-II(M), dated 08.11.2012. The proponent submitted their to the Ministry application for seeking environmental clearance after conducting public hearing.

The present renewal of mining lease is under deemed extension from 06.09.2005 for a period of 20 years. The Mining Scheme is approved by IBM vide letter no. 314(3)/2010/MCCM(CZ)/MS/04 dated 28.05.2010. A modification of Scheme of Mining is also approved on 31.07.2013 vide letter No. 314(3)/2013/MCCM(CZ)/MS-01. The mine lease area is 147.10ha out of which 126.324 ha is forest land and 20.776 ha is non forest

land. The lessee has obtained Stage-II Forest Clearance for 52.742 ha of forest land vide letter no No.8-135/2003-FC dated 19.06.2006. In addition to this Stage-I has also been obtained by the lessee for 15.393 ha. vide letter No.8-135/2003-FC (vol) dated 21.12.2010. The lessee had reapplied renewal application for reduced area of 88.737ha. The reduced mine lease area of 88.737ha comprises of 68.135 ha forest land and 20.602 ha of non forest land.

The earlier environmental clearance to the project was granted vide no. J-11015/197/2006-IA.II(M) dated 17.05.2007 for enhancement of production capacity from 0.053 to 1.65 MTPA. The Certified Compliance Report by MoEF Regional Office, Bhubaneswar vide letter no. 101-489/EPE dated 15.03.2013 was discussed.

The mine will be worked by fully mechanized open cast method. Total Mineable Reserves are about 42.5 million tones. The life of the mine is 15 years. In this conventional opencast mine, mechanized drilling with 110mm dia drill machine, deep hole blasting, excavation by excavator, breaking of iron ore boulders by rock breaker (to avoid secondary blasting by plaster shooting), stacking by loader shall be adopted. It is proposed to install a wet beneficiation Plant of 2 x 250 tph for processing of low grade ore. The feed material to the proposed Plant shall be -30mm low/sub grade iron ore material from above mines. The quantity of feed to the Plant, working at full capacity, shall be 1.44 million tones/annum to produce saleable product of 1.008 million tons/annum. The quantity of tailings to be generated in this Plant will be 0.216 million tones/annum. Total requirement of water for this wet beneficiation Plant will be 1599 m³day.

Total 50,04,520 m³ of overburden has been accumulated. It is expected that 9,62,799 m³ of overburden and 2,16,000 m³ of tailing will be generated during scheme period. 93.08% of overburden and 100% tailing will be backfilled in exhausted quarry of 47.509 ha+6.662 ha.

Total water requirement is 2415 KLD, 1599 KLD for wet beneficiation Plant. The quantity of water will be met from Kundra nala (2265 KLPD) and from ground water (150 KLPD). Ground water approval for 805 KLPD has already been obtained from CGWA. Approval of surface water for 933.139 lakh gallon per year has already been obtained from irrigation Deptt and approval for remaining water is under process. The present working is at 619mRL and ultimate working will be at 542mRL. The water table (post monsoon) is at 538mRL. Therefore, water table will never intersect the pit bottom.

It was reported by Project Proponent that no wild life sanctuary/tiger Reserves/National Park is located within 10 km radius of the mine lease. For conservation of wildlife in the area, site specific Wildlife conservation plan has been prepared and submitted with the DFO, Sundergarh for necessary approval. The proposed fund requirement for implementation of the plan has been deposited (Rs. 79 Lacs) to DFO Bonai. All other works within the lease area shall be undertaken by the company under the guidance of the monitoring committee and DFO and a budget of Rs. 35 Lacs has been kept by the company for implementation of the plan within lease area.

Baseline studies were carried out in October, November and December, 2012. Public Hearing was held on 14.05.2013 at, Oraghat under Koira Block as per provisions of EIA Notification 2006. The public hearing was chaired by Additional District Magistrate, Rourkela, Sundergarh. Issues raised & the action plan with budgetary allocation is given as; Plantation (7.5 lacs), Dust Suppression (Spent Rs.60 lacs, proposed yearly 10-15 lacs), Road infrastructure (Rs.3.0 crore), Health care (Rs.30 lacs), School Bus (Rs.5 lacs),

Girls education (Rs. 7.5 lacs), School teacher (Rs. 50,000/annum), Bore well (Rs. 14 lacs) village pond (Rs. 3.0 lacs) & BSNL tower (Rs. 2.3 Lacs).

The cost of the project is Rs.300 crore and environmental cost towards EMP already incurred is Rs.211 lakhs & further proposed is Rs. 207.1 lakhs. Proposed recurring cost per year is Rs. 416.6 lakhs for peripheral development expenditure/CSR proposed recurring expenditure per year is Rs.12.64 lakhs. There was no court case/litigation pending against the project and no violation of the rule was there.

Based on the information submitted, presentation made by the proponent and discussions held, the Committee **recommended** the proposal for environmental clearance with additional specific conditions (i) Lease area is near Sona river therefore PP shall ensure the mitigative measures to protect the Sona river, (ii) Green barrier (five stratified rows) should be raised on the boundary of MLA towards Sona river, (iii) 10-15% of plantation/green belt should be of endemic/endangered species, if present in lease area, and (iv) Traffic density on the route of mineral transportation shall be regularly monitored and report shall be submitted along with compliance report.

2.26 Renewal of capacity limestone Mine of M/s JK lakshmi Cement Ltd. Village Semaria, Ghikuria and Nadini Kundani, Distt. Durg, Chhattisgarh (267.695ha) 4.8MTPA) (J.M. EnviroNet Pvt. Ltd.)-TOR.

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

2.27 Mellacheruvu limestone Mine of M/s MY Home Industries, Located at Village & Mandal-Mellacheruvu. Distt. Nalgonda, Andhara Pradesh (141.644ha) (B.S. Envi-Tech (P) Ltd.) –TOR.

The Mine site is located at Mellacheruvu Village, Nalgonda District, Andhra Pradesh with an average of about 100 m above MSL. The site falls between 16^o 47' 51.8" and 16^o48'52.5" N Latitude and 79^o 54' 53.4" and 79^o 55' 52.2" E Longitude and part of study area falls within the Survey of India Toposheet No. 56 P/13. The mine lease area is 141.644 ha.

No increase in the production or the mine lease area is proposed. The proposal is for renewal of mine lease. The existing Environmental Clearance was received by the PP prior to 2006. Opencast Mechanized method of mining is adopted. Requirement of water is 125m³/day. The harvested rain water in the mine pit is the source of water. It is reported by the project proponent that there is 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.

2.28 Mohkampur Nawada Stone Mining Project of M/s Gajender Pal Singh located at Mohkampur Nawada, tehsil-paonta sahib, Distt. Sirmour Himachal Pradesh (10.5408ha) (Consultant: Grass Roots Research & Creation India (P) Ltd) –TOR.

The Mine Lease area is located near Mauza Mohkampur Nawada, Tehsil Paonta sahib, District Sirmour, Himachal Pradesh. The lease area lies on River Giri. The Mine Lease area is located between Latitude 30°28'14.53" to 30°28'10.48"N and 77°41'11.37"

to 77°41'31.83"E. The Project is located in seismic zone-IV. It is 'A' category project as Interstate boundary of Himachal Pradesh & Uttarakhand (About 2 km in E direction), Himachal Pradesh & Uttar Pradesh (About 9 km in S direction), Doon Valley (About 3 km in E direction), Simbalbara Wildlife Sanctuary (About 8 km in NW direction) and Asan Wetland Conservation Reserve (4 km in S direction) are located within the radius of 10 km from the lease boundary. Clearance from Standing Committee of NBWL is mandatory for the project.

The mining is confined to extraction of sand, stone and bajri from the proposed mine site. The operation will be manual. Minor Mineral (sand, stone and bajri) mining will be carried out only up to a depth of 3 feet, using hand tools like shovel, pan, sieve etc only during the day time. After leaving 1/5th distance from HFL/banks as no mining zone, the left out area will be divided into two parts to carry out mining operation in a rotational manner, so that the excavation carried out in the particular year gets replenished during the subsequent year. Extraction of sand, stone and *bajri* material will be completely stopped during the monsoon season. Total water requirement is 2.15 KLD. This water will be supplied from the bore wells in nearby villages through tankers as well as from surface water sources for dust suppression with appropriate permission. It is reported by the project proponent that there is no court case/litigation pending against the project. The estimated cost of project would be around Rs. 3,00,000.

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 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, (ii) Proper species specific Conservation plan for Schedule-I and II species, (iv) Impact of mining on plankton, (v) Appropriate Disaster Management safeguards in view of the high seismicity of the area, (v) Details of excavation schedule & sequential mining plan, The PP should also obtain necessary NBWL clearance.

2.29 Sand Mining Project of M/s Krishna Kumar Jaiswal, Village Komar, tehsil shohratgah, Distt. Siddharth, U.P. (6.78ha)(Grass Roots Research & Creation India (P) Ltd) –TOR.

The Proposal was **deferred** as the project was inadvertently placed in the meeting.

2.30 Mallapura Limestone & Dolomite Mine M/s Vanivilas Cements (P) Ltd. Located at Vill-Mallapura, Iyyanahalli, & Bevinahalli, Tehsil-Hosaduraga, Chitradurga, Karnataka (336.50ha) (M/s Perfect Envirosolutions Pvt. Ltd) –TOR.

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

2.31 Silica Sand Mine of M/s V.U.S.B. Bhushan kumar located at Village Bukkapuram, Mandal-Veldurthi, Distt. Kurnool, Andhra Pradesh (108.032ha, 2,39,987 TPA) (Pioneer Enviro Laboratories & consultant Pvt. Ltd) –TOR.

The Mine Lease area is located at Village Bukkapuram, Mandal-Veldurthi, Distt. Kurnool, Andhra Pradesh. The Mine Lease area is between 78°04'15.25" to 78°07'14.74"E and 15°34'14.33" to 15°35'06.25" N. The Project is located in seismic zone-II.

The mining will be by opencast semi mechanized method, employing drilling by jack hammers for breaking the Quartzite & Silica Sand, using heavy earth moving machinery viz., hydraulic excavators to excavate the broken material and load the same into tippers and dumpers. Open cast mining in this area involves of removing 2 benches of each 1.5 m height, one after the other from higher levels to lower levels.

The proposed production of Silica Sand to the tune of 2,39,987 TPA with an anticipated intercalated waste generation of 1,19,993 Cum which would be stored at the dump site. Industries & Commerce (Mines I) Department has issued Letter of Intent vide Memo. No. 14636 / M.I (1) / 2012 dated 17-10-2012.

Total water requirement will be 60 KLD. Only source of waste water generation will be sanitary waste water which will be treated in septic tank followed by soak pit. Estimated cost of the project is around 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.

2.32 Bukkapuram Silica Sand Mine of M/s V.U.S.B. Bhushan kumar located at Village Bukkapuram, Mandal-Veldurthi, Distt. Kurnool, Andhra Pradesh (54.846ha, 81,005 TPA) (Pioneer Enviro Laboratories & consultant Pvt. Ltd) – TOR.

The Mine Lease area is located Sy. No. 214 Village Bukkapuram, Mandal-Veldurthi, Distt. Kurnool, Andhra Pradesh. The Mine Lease area is between $78^{\circ} 06' 16.85''$ E to $78^{\circ} 07' 17.80''$ E & $15^{\circ} 35' 09.85''$ N to $15^{\circ} 35' 50.74''$ N. The Project is located in seismic zone-II.

The mining will be opencast semi mechanized mining, employing drilling by jack hammers for breaking the Quartzite & Silica Sand, using heavy earth moving machinery viz., hydraulic excavators to excavate the broken material and load the same into tippers and dumpers. Open cast mining in this area involved of removing 2 benches of each 1.5 m height, one after the other from higher levels to lower levels. It is proposed to extract of Silica sand of 81,005 TPA.

The quantity of waste generated in first 5 years period is about 17,308 m³. Some quantity will be utilized in road laying and balance will be stored at the dump site. Industries & Commerce (Mines I) Department has issued Letter of Intent vide Memo. No. 14330 / M.I (1) / 2012 dated 17-10-2012.

Water will be required for dust suppression to prevent fugitive dust emissions, greenbelt development and for domestic purpose will be 30 cum/day. The water requirement will be met from the ground water. The estimated cost of the project is Rs. 60 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.

2.33 Silica Sand Mine of M/s V.U.S.B. Bhushan kumar located at Village Bukkapuram, Mandal-Veldurthi, Distt. Kurnool, Andhra Pradesh (121.457ha, 2,66,299 TPA) (Pioneer Enviro Laboratories & consultant Pvt. Ltd) –TOR.

The Mine Lease area is located Sy. No. 203, Village Bukkapuram, Mandal-Veldurthi, Distt. Kurnool, Andhra Pradesh. The Mine Lease area is between 78° 06' 09.55" E to 78° 07' 16.12" E & 15° 36' 44.92" N to 15° 35' 40.86" N. The Project is located in seismic zone-II.

The mining will be opencast semi mechanized mining, employing drilling by jack hammers for breaking the Quartzite & Silica Sand, using heavy earth moving machinery viz., hydraulic excavators to excavate the broken material and load the same into tippers and dumpers. Open cast mining in this area involved of removing 2 benches of each 1.5 m height, one after the other from higher levels to lower levels. It is proposed to extract of Silica sand of 2,66,299 TPA.

Industries & Commerce (Mines I) Department has issued Letter of Intent vide Memo. No. 14325 / M.I (1) / 2012 dated 17-10-2012. Water will be required for dust suppression to prevent fugitive dust emissions, greenbelt development and for domestic purpose will be 60 KLD. The water requirement will be met from the ground water. The estimated cost of the project is Rs. 90 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.

2.34 Manganese Ore Mine of M/s T. Nagaiah located at Vill-Sikhaparuvu, Mandal-Saluru, Distt-Vizianagaram, Andhra Pradesh (9.35 ha) –TOR.

The Mine Lease area is located at Mis. T. Nagaiah Manganese Ore Mine, at Unsurveyed Area of Sikhavarapu Village, Saluru MandaI. Vizianagaram Dist, Andhra Pradesh. The Mine Lease area is located between 18°39'49.5" to 18°39'58.7" N to 83°06'13.8" to 83°06'29.7" E. The proposal is considered as category 'A' project as it is located within 10 km radius of inter-state boundary of Andhra Pradesh and Orissa (4.2 km). The proposed project is open cast manual mine. Proposed production capacity for Manganese Ore is 6,840 TPA. Water Requirement is about 6.0 KLD and waste water generation is about 1.0 KLD. Waste water will be treated through septic tank followed by soak pit. As per estimates the total waste to be handled for the first five years is 44,560 MT The waste consists of weathered Garnet Gneiss and lithomarge. It is estimated that about 98,000 MT of Waste will be generated till the end of the life of the mine. It will be dumped separately in the designated dump yard. It is reported by the project proponent that there is no court case pending against this project. Estimated cost of project is about Rs.60.0 Lakhs.

The proposal was earlier prescribed TOR vide letter no. J-11015/34/2010-IA.II(M) dated 06.04.2010. The TOR was valid till 05.04.2012, the validity of TOR was extended for one year on request of PP. The TOR has expired on 05.04.2013. The public hearing for the project was conducted on 06.04.2013 therefore PP could not submit the EIA/EMP report within stipulated time period.

The proponent therefore requested for issue of fresh TORs with permission to use the Public hearing conducted on 06.04.2013 and Baseline data undertaken in 2012 to prepare EIA/EMP report. The Committee was of the view that as public hearing was held on 06.04.2013 and baseline data was collected during post-monsoon period in 2012,

these can be accepted. Further, the PP needs to submit addendum EIA/EMP Report for the TORS not addressed in the earlier reports.

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.

2.35 Mallapura Limestone & Dolomite Mines of M/s Vanivilas Cements (P) Ltd., located at Vill-Mallapura, Iyyanahalli, & Bevinahalli, Tehsil-Hosadurga, Chitradurga, Karnataka (336.50 ha) –TOR.

The Proposal was not considered as it was **inadvertently placed** in the meeting. The proposal was earlier considered in EAC meeting held during June 26th -28th, 2013.

2.36 Colour Granite Mine of M/s B. Mohan Reddy, located at vill-Amudala, Mandal-Palسامudram, Distt-Chittoor, Andhra Pradesh (5.064 ha) –TOR.

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

2.37 Bajri Mine of M/s H.S.D Stone Crusher, located at Vill-Mauza Takarla, Tehsil-Amb, Distt-Una, Himachal Pradesh (16.0945 ha) –TOR.

The Mining Lease area is located near Mauza Takarla, Tehsil Amb, District Una, Himachal Pradesh. The Mine Lease area lies between 31°36'11.751" N, 76°10'6.300" E to 31°36'2.713"N, 76°9'43.230" E, toposheet no. 53 A/2. The Project is located in Seismic Zone-V. It is reported that there is no national park and wildlife sanctuary within 10 km radius of the project site. It is an 'A' category project due to location of the Interstate Boundary of Himachal Pradesh and Punjab within the 10 km radius of the project site. The proposed project is an open-cast mining project, confined to extraction of sand, bajri and stone from the proposed site. The operation will be manual with use of tools like shovel, pick-axe, pan, sieves, etc. Sand will be separated from bajri and stone by sieving process. Excavation will be carried out up to a maximum depth of 3 feet (0.914 meter). Total material production in a year would be 91,100 TPA. Extraction of sand, bajri and stone material will be done only during the day time and completely stopped during the monsoon season.

The mining lease having an area of 16.095 hectare has been granted in the name of Sh. Satish Kumar, Prop. M/s HSD Stone Crusher, resident of village and post office Chururu, Tehsil Amb and district Una, Himachal Pradesh for mining of Sand, stone and bajri for 15 years from 17-12-2012. Garni Khad passes through the lease area. Total water requirement will be 0.94 KLD. This water will be supplied from nearby village from the available sources through tankers as well as from surface water sources for dust suppression with appropriate permissions. The Total cost of project would be around Rs. 13,85,000.

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) Cumulative impact due to sand mining (iv) Proper species specific Conservation plan for Scheduled-I and II species, (v) Impact of mining on

plankton, (vi) Appropriate Disaster Management safeguards in view of the high seismicity of the area, and (vii) Details of excavation schedule & sequential mining plan.

2.38 Sand Mining project in River Godavari Bed of M/s Singareni Collieries Company Ltd. (SCCL) located at Vill-Mallepalli, Mandal-Nanuguru, Distt-Khammam, Andhra Pradesh (71.02 ha) –TOR.

The proposal is for excavation of sand from River Godavari with proposed capacity of 6.00 L.Cu.m per annum in the mining lease area of 71.02 ha by M/s Singareni Collieries Company Limited, located at village Mallapalli, Tehasil Manuguru, District Khammam, Andhra Pradesh. The project is bounded between the latitudes 17° 58' 34.65" to 17° 59' 15.45" N and longitudes 80°50'36.67" to 80°51'15.06" covered in Survey of India Topo sheet 65 C/13.

The mining lease was granted in 2004 and the PP is operating the sand mining project from 2004 with a capacity of the 3.50 L.Cu.m in the 71.02 Ha Lease Area. In view of the additional sand requirement for hydraulic sand stowing into the voids of the proposed Kondapuram Underground Coal mining Project, it is proposed to increase the capacity from 3.50 L.Cu.m to 6.00 L.Cu.m in the same mining lease area of 71.02 Ha. The mining lease has been granted by Government of Andhra Pradesh vide G.O.Ms.No. 95 of Industries and Commerce Department dated 01.04.2004 for a period of 20 years in the Mining Lease area of 71.02 Ha. The entire mining lease area is falling in the river bed of Godavari near Mallapalli Village, Manuguru Mandal, Khammam District, A.P. There is no forestland involved in the project and the lease area does not fall in any Wildlife sanctuary/National Park / Eco-fragile zone and no Wildlife sanctuary/National Park exists within 10 Km radius of the project boundary.

The mine working will be carried out (except during monsoon months) through back hoe and truck combination. The entire mining lease area is divided into two blocks. The mining operations will be restricted to one block in a year and shifted to another block in the next year and the sequence will be repeated during the life of the project. Each of the Blocks will be subdivided into further strips in order to ensure conservation of sand. The maximum extraction thickness will be 2 m. The extracted sand will be transported to Prakasham Khani No.1 incline and Proposed Kondapuram Underground Coal Mining Project of SCCL located in the Manuguru area for protection of surface features by minimizing the impact of subsidence.

The proposal is for excavation of sand from the river bed and no waste is generated during the mining process. The water requirement for the project is 20 KLD for spraying and drinking will met from the river Godavari and the requisite clearance will be obtained from the Ground Water department of A.P. The estimated cost of the project is Rs. 93.00 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, and (v) Details of excavation schedule & sequential mining plan.

2.39 Ispat Sukinda Chromite Mine of M/s Balasore Alloys Ltd. locate at Vill. Kaliapani, Tehsil-Sukinda, district Jajpur, Odisha (35.6ha) –TOR.

The proposal of Chromite Mine of M/s Balasore Alloys Ltd. was not considered as it is a category B project, mine lease area is 35.6 ha and does not attracts General Conditions of EIA notification, 2006. The Committee was of the view that the proposal be considered at the State level.

2.40 Kulum Iron Ore Mine of M/s Adhunik Metaliks Ltd located at Village Kulum, Deojhar & Mahadevnasa, District Keonjhar, Orissa (33.803 ha) (Envomin Consultancy Pvt. Ltd, Bhubaneswar) -Environmental Clearance.

The Kulum Iron ore mines of M/s Adhunik Metaliks Ltd. comprise of 33.803 hectares is located in villages Kulum, Deojhar & Mahadevnasa, under Champua Sub-division, Dist. Keonjhar, Odisha. The mine lease are falls between 22°06'15" to 22°07'08" N latitude and 85°29'30" to 85°30'45" E Longitude. It presents an undulated hilly topography. The topography elevation in the lease varies from 653m to 516m above MSL. The lease has been granted for 30 years over 33.803 ha out of the initial applied area of 109.791 ha. w.e.f. 13.05.2011. Environmental Clearance was obtained on 19th Feb., 2009 for production of 1,20,000 MT/annum of iron ore vide letter no. J-11015/240/2007-IA-II (M). The compliance report of the EC was discussed in the meeting. The parameter which are to be monitored monthly as per the EMP should be so done. Committee suggested that the ground water table monitoring with time series data should be submitted on regular basis.

The present proposal is for enhancing the production of iron ore from 0.12 million TPA to 0.414 million TPA & setting up two 150 TPH crushing & screening units within the ML area. This particular project is considered to be of 'A' category since inter-state boundary between Odisha and Jharkhand is within 10km of the boundary of mine lease. TOR were prescribed to the project vide Letter No J-11015/181/2011-IA.II(M) on 27th October, 2011. Accordingly, the modified mining plan has been approved for an area of 33.803 ha by IBM vide letter no. MPM/OTFM/10-ORI/BHU/2012-13 dated 06.12.2012, with a production capacity of 4,14,000 MT /annum of iron ore. Out of the total mining lease area of 33.803 ha, 21.497 ha is forest land & 12.306 ha is of non-forest land. Stage -II Forest Clearance has been obtained over 19.370 ha vide letter no. 5-ORC077/2007-FCE dated 23.11.2009.

Open cast semi-mechanised method of mining is being adopted, with drilling & blasting. Mineable Reserves of Iron ore in the ML area are computed to be 5.543 million MT. With the proposed production of 0.414 million TPA, the anticipated life of the mine would be 13 years. The waste materials generation during the conceptual period shall be 5,36,624m³, out of which 70% of the waste material would be used for backfilling of the exhausted quarries. The PP stated that the reclamation procedure will be started in the financial year of 2018-19. The ultimate dump will be covering a height about 30m in total over an area of 5.751 hectares with three terraces i.e. each of 10m height. The ultimate dump slope would be maintained at 22°. Conceptually, the proposed area would be 18.700ha for mining, 5.715 ha for dumping, 2.0 ha for mineral storage, 2.130 ha for road, 1.348 ha for infrastructure development and 3.410 ha for green belt development. The employment potential would comprise of 32 nos. of management & supervisory personnel and 380 nos. of labourers. The cost of the project is Rs 12 crores. The budget

towards implementing EMP is Rs 55 lakhs and Rs 20 lakhs would be annual recurring cost.

Three perennial nallas i.e. Mahadev nalla, Betlata nalla and Kundra nalla flow at a distance of 0.9 km to the south-western side, 5.3 km to the north-western side and 6.7 km to south of the lease area respectively. Apart from these three, Baitarani river is flowing at a distance of 7.5 km away in SE side of the leasehold. About 38 kld water shall be required daily by the project, which includes 28 kld for dust suppression, 4 kld for plantation and balance 6 kld for drinking purpose. This requirement shall be fulfilled from the ground water source for which, due permission has been obtained from Central Ground Water Authority. The ultimate working depth of the mines will be at 530m AMSL, whereas the ground water table of the region is at 412m AMSL. Thus, proposed mining activities will not intersect the ground water table.

The collection for baseline data was carried out in the winter season (December, 2011 to February, 2012) at eight selected locations taking into consideration the predominant wind direction, topographical features, human habitat, sensitive areas, water sources etc. The observed ambient air quality, water quality, soil quality and noise level of the area are within the prescribed limit of CPCB standards. There is no National Park /Sanctuary, Biosphere reserve, Wildlife Corridor, Tiger Reserve within 10 Km radius of the mining lease area. Elephant, a Schedule – I species, is reported in the buffer zone of mine lease area. A site specific wildlife conservation plan has been prepared and approved by the PCCF (Wild Life), Odisha with a budget of Rs. 122 lakhs.

The public hearing was held on 03.12.2012 under the Chairmanship of Project Director, DRDA, Keonjhar. The major issues raised during public hearing were employment to the local people, medical facility, education, drinking water supply, transportation facility etc. Issues raised during public hearing were addressed by the Project Proponent. The action plan with budgetary allocation was provided. It was informed by PP that the biodiversity of the area will not be affected to a large extent and also the site specific wild life conservation plan will help in minimizing the impact. The reclamation and plantation would be carried out with the selected local species. The mine gives preference in employment to the locals who belong to the nearby villages. Further, this mine generates direct and indirect employment for several persons on different associated activities like local trading, house construction, transportation of ore, loading of materials, supply of different materials to mines etc. Apart from introducing eco-friendly mining method and generating employment, the company will also take care to pay special attention as per the demands in Public Hearing, for up-lifting the socio-economic conditions of the nearby villagers by providing facilities towards education, health, drinking water, electricity, supply of seedlings, maintenance of road, etc.

The Project Proponent informed that Murga Mahadev temple is located at 1500 m from the boundary of mine lease area topo sheet was presented due the meeting for verification. Based on the presentation made and discussion held, the Committee **recommended** the proposal for EC subject to submission of following information:

(i) The Stage-II forest clearance was obtained over 19.370 ha vide letter no. 5-ORC077/2007-FCE dated 23.11.2009. The mine lease renewal fell due on 12.05.2011. FC being co-terminus with mine lease the FC has expired. Proposal for mining operations can only be considered for 12.306 ha of non-forest land. The details of mineable reserves in

non-forest lease-hold to achieve enhanced production, and (ii) application for diversion of forest land.

2.41 Patmunda Manganese Ore Mine of M/s Orissa Manganese & Minerals Ltd., village patmunda, Kadamdihi, Podadihi, Barpatholi, Sanpatholi, District Sundergarh, Orissa (807.316ha) (Sun Consultancy and Services) - Environmental Clearance.

Patmunda Manganese Ore Mining Lease of M/s Orissa Manganese & Minerals Limited was originally held by M/s Young & Company during 1939. Subsequently M/s. Young & Company transferred the lease area to the Central Province Manganese Ore Limited to operate the said lease till 1955. Subsequently the mining lease areas have been transferred in favor of M/s Manganese & Minerals Ltd. and transfer of lease deed executed on 25.8.1955. The first renewal for the said mines was granted in favor of M/s Orissa Manganese & Minerals Private Limited for a period of 20 years from 1.1.1960 to 31.12.1979 over an area of 807.316 hectares. The deed with respect to first renewal had been executed on 13.5.1969. The Company applied for 3rd renewal on 21.12.1998. The mine lease renewal fell due on 31.12.1999.

Patmunda manganese mine falls in the Survey of India toposheet No: 73-G/5 & 73-G/1. It is located between latitude 21°50'15" to 21°53'07"N and longitude 85°18'06" to 85°20'05"E. The proposal was considered in EAC meeting held during May 25-27, 2011. Terms of Reference (TOR) were prescribed vide letter no. J-11015/67/2011-IA-II (M), dated 27th June, 2011 for preparation of EIA/EMP Report. The mine lease area is 807.316 ha of which 115.299 ha is agricultural land, 608.202 ha is forest land, 18.564 is waste land, 51.480 is grazing land, 10.036 is surface water bodies and 3.735 ha is others. Stage - I approval of Forest Diversion Proposal was also obtained vide letter no. F No.8- 92/2007-FC, dated 28th Nov, 2009 for diversion of 238.447 ha of forest land.

Earlier environmental clearance for production capacity of 1,83,375 TPA was obtained vide MoEF letter no. J-11015/819/2007-IA. 11(M), dated 10th Nov., 2008. Subsequently, the said lease has also obtained Consent to Operate from State Pollution Control Board, Odisha for production of Manganese ore for the quantity 1,83,375 TPA vide Consent Order No. 887 and letter No. 7029/IN D-I-CON-1709 dated 27.04.2011 and it is valid up to 31.03.2016. Stage - I approval of Forest Diversion Proposal is also obtained vide letter no. F No.-8- 92/2007-FC, dated 28th Nov, 2009. Subsequently, approved Mining Plan with PMCP modified for enhancement of production and got approved by IBM vide their letter No. MPM/OTF IMEC H/31-ORI/BHU/2009-10, dated 22-12-2009. Accordingly application for Environment Clearance for Enhancement of Production Capacity from 1,83,375 to 2,53,375 TPA of Manganese Ore and setting up a Jigging Plant of capacity 1 X 10 TPH and 3 X 15 TPH is submitted to MoEF.

The total mineable reserves are 16.297 MT. Keeping 2,53,375 MT / year as the target, the anticipated life of the mine would be 65 years. Methods of mining will be open cast, semi-mechanized and the proposed machineries for the project are Excavator, Jack Hammer, Drill Machine, Air Compressor, Tipper etc. Drilling and Blasting will be used for loosening of Strata. The dimensions of benches will be 5m Height, 10m Width.

Conceptually, there will be generation of 3,37,78,849 m³ of waste from Manganese ore zone. During proposed plan period of five years, out of the waste from the proposed iron ore zone, 50% will be disposed in the mined out area and 30% will be

used for maintenance of mine road and nearby village road. Remaining 20% of waste will be disposed on the proposed dump. During conceptual period out of the waste from the proposed iron ore zone, 70% will be disposed in the mined out area and 20% will be used for maintenance of mine road and nearby village road. Remaining 10% of waste will be disposed on the proposed dump. The ultimate dump slope should be maintained at 20-22° with individual terrace slopes not exceeding 37° and average terrace height of 6.14 m.

120m³/day liters of water is required at the mine site daily for domestic as well as non-domestic purposes and the water will be sourced from ground water sources. The permission for drawl of ground water has been obtained from Central Ground Water Authority vide letter no. 21-4(449)/SER/CGWA/2012-4516 dated 12.09.2012. The mine working will not intersect the ground water table.

The period of baseline data collection was the Post Monsoon of 2011 i.e. September, October and November, 2011. Ambient air quality was studied at eight locations in the study area. To assess the water quality, water samples from both surface and ground were collected from sixteen locations. The baseline data was found to be within the permissible limits.

The public hearing was held on 30.05.2012 under the Chairmanship of Sri Sidheswar Naik, OAS-I (JB), Project Administrator, I.T.D.A., Bonai, Sundargarh. The major issues raised during public hearing were employment to the local people, provision of health care and drinking water facility, development of nearby schools, School infrastructure, afforestation activity, dust pollution, transportation facility etc. Issues raised during public hearing were addressed by the Project Proponent. The action plan with budgetary allocation was provided. It was informed by PP that the mine gives preference to the locals in employment who belong to the nearby villages. Further, mine generates direct and indirect employment for several persons on different associated activities like local trading, house construction, transportation of ore, loading of materials, supply of different materials to mines etc. Apart from introducing eco-friendly mining method and generating employment, the company will also take care to pay special attention as per the issues raised during public hearing. It was informed that social welfare activities will be carried out by the mining lease Authority and a budgetary allocation of Rs. 1,72,59,000/- has been earmarked for the year 2013-14 for peripheral development of the area covered under OMM Group of Mines, Koira of which Patmunda Manganese Mine is a part.

No endangered or endemic species were reported in the study area. Schedule-I species like Sloth bear, Elephant and Panther have been reported in the study area. Site Specific Wildlife Conservation Plan for schedule-I species will be taken up in the study area by the DFO of Bonai Forest Division. The total cost of the plan is 217.00 lacs out of which Rs.45.00 lacs for the ML area and Rs. 172.00 lacs for buffer zone. The estimated cost of Project is about Rs. 10.00 Crores. Estimated cost for EMP will be Rs. 1.00 Crore.

Based on the presentation made and discussion held, the Committee decided to **defer the proposal to be brought back** to the Committee after the following information is submitted:

- i. It is intended to surrender 281.39 ha of area, thus the MLA has been reduced from 807.316 ha to 525.926 ha. It may be clarified whether mine lease deed has

been revised or not. If revised, mine lease is executed, revised mine plan shall be submitted for area of 525.926 ha.

- ii. The details of preventive measures for manganese poisoning and details of steps taken shall be submitted.
- iii. The baseline data undertaken is from September to November, which is not as per IMD guidelines. Therefore fresh baseline data should be collected as per IMD guidelines.
- iv. The compliance status was discussed and it was observed that the earlier EC conditions were not fully complied. The latest certified compliance report from RO should be submitted.

2.42 Balda Block Iron Mines of M/s Serajuddin & Co. Village Balda, Bada Kalimati & Nayagarh, Tehsil Barbil, Distt. Keonjhar, Orissa (335.594ha) (Creative Engineers & consultants, Chennai) -Environmental Clearance.

The proposal is for open cast fully mechanised iron ore Mines with 15.15 MTPA iron ore production by M/s Serajuddin & Co., located at Village(s) Balda, Bada Kalimati & Nayagarh, Tehsil Barbil, Keonjhar district, Odisha. The topo sheet No. is 73 G/5 & the latitude and longitude of the site is 21° 51' 49.6" to 21° 53' 28.8" N - 85° 23' 40.8" to 85° 25' 04.8" E.

The proposal was considered by the Expert Appraisal Committee in its meeting held during May 23-25, 2012 to determine the terms of reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEF vide letter no. J-11015/18/2012-IA-II (M) dated 6th July 2012. The earlier EC was granted to the project vide no. J-11015/193/2008-IA.II(M) dated 27.04.2012. The compliance report of the project was discussed in the meeting.

The total mine lease area of 335.594 Ha comprises 77.461 Ha of non forest land and 258.133 hectares of forest land, of which 38.182 Ha classified as Village forest and balance 219.951 Ha as DLC forest. Forest Clearance obtained for 24.446 Ha of village forest out of 38.182 Ha under the F.C Act 1980 from MOEF, GOI, New Delhi vide letter No 8-119/96-FC, dated 11.12.1998. Working permission for 112.773 ha of broken up DLC forest area was obtained from MOEF vide letter F. No 8 – 119/96-FC(pt.) dated 12th Mar, 2012. Presently the operations are restricted to the area comprising 24.446 Ha of village Forest area, 112.773 Ha of broken-up DLC forest and 77.461 Ha of Non-forest area. The applicant has applied for diversion of entire forest land (including safety zone, broken-up area & already diverted area) for non forest purpose for mining activities under Forest Conservation act 1980 on 21.08.2013. The 2nd renewal of mine lease is effective from 03.12.1997 to 02.12.2017.

The method of working i.e. opencast fully mechanized mining using drilling, blasting and conventional shovel dumper combination by adopting 10.0 m bench height and a width more than the height of benches. Ultimate pit slope shall be maintained at 37.5°. The ramp gradient shall be maintained at 1 in 14. The ROM shall be process through crusher/screen Plant (stationary/Mobile) to produce sized ore. Total estimated mineable reserve within the area is 278.561 million tons. The anticipated life of mine is about 20 years with the proposed production of 15.15 MTPA of ROM. The present Mining scheme is approved by IBM vide letter no – 314(3)/2011-MCCM (CZ)/MS-47 on dated 27.04.2012.

The total waste generated by mining would be 36.85 million Tons in addition to 9.24 million tons of already accumulated waste. The total waste will be used for backfilling. The waste generated during the conceptual period will be directly utilized for backfilling. Two new dump yards namely Dump – A & Dump – B are proposed. The dump shall be covering a height about 40 m in total over an area of 7.35 Ha. The ultimate dump slope will be maintained at 28° with individual terrace at 37°. Dumping will be in three stages each of 10m height. Each terrace shall be inward sloped which will be connected to the garland drain outside the periphery of the dump along with de-silting structures. Dump slopes will be covered with coir matting and mixed grass seeds or vetiver plantation for additional stability.

The total water requirement for domestic, dust suppression and green belt development is estimated to be 500 m³/ day. The water requirement will be met from ground water (bore well). Project proponent has obtained the approval from CGWA vide letter No. 21-4(401)/SER/CGWA/2011-319 dated 21th February, 2013 for quantity of 500 m³/ day. The present working depth of the said opencast mine is at 558 m AMSL. The depth to groundwater table in the mine lease area lies at 517m AMSL in pre-monsoon and 515 m AMSL in post monsoon period. Ultimate working depth will be 480 m AMSL. Presently there is no intersection of ground water table. However during the conceptual plan period there will be intersection of ground water table for which the PP has done detailed hydro-geological study in the study area. It was noted that details of road transportation submitted by PP was discussed.

There are no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger / Elephant Reserves within 10 km of the mine lease. However karo-karampada elephant corridor is 22.06 km from the lease boundary. Schedule 1 species like Sloth bear, Elephant, Monitor Lizard, Yellow Monitor, Python are found in the buffer zone area for which site specific wild life conservation plan approved by PCCF & Chief Wildlife Warden, Odisha was submitted.

The baseline data was collected during October-2012 to December-2012. The baseline data is within the prescribed limits. Public Hearing was conducted on 29.05.2013 under the chairmanship of Sri Sangram Keshari Swain. Addl. Dist. Magistrate, Keonjhar District. The issues raised in the public hearing were also considered and discussed during the meeting. As per the villagers requirements, it was informed by the project proponent that they would take care of local employment, health issues, education & skill development facilities, Environmental protection measures, drinking water, infrastructure development & assistance in SHGs for self employment, social welfare etc.

The total cost of the expansion project is about Rs. 150 Crores, Environmental cost towards EMP already spent is 5.74 Crores and another additional Rs 4.59 Crores is proposed for the same. The CSR budgetary provision allocated by the Project proponent is 19.75 Crores as capital cost for the surrounding areas.

Based on the information submitted, presentation made by the proponent and discussions held, the Committee **recommended** the proposal for environmental clearance.

2.43 Kotapadu Limestone Mine (ML area 234.032ha and production capacity of 2.14MTPA) at village Kotapadu, in Kolimigundla Mandal, in Kurnool district, Andhra Pradesh-Environmental Clearance.

The Proposal was **deferred** on the request of Project Proponent.

2.44 River Sand Mining project (50.40 Lakh TPA) of M/s Bharat Singh Shekhawat, located at Tehsil-Gudhamalani, Distt-Barmer, Rajasthan (5151.6828ha)-TORs

The proposal of M/s Bharat Singh Shekhawat is for River Sand Mining (Luni River) with the Production Capacity 50.40 Lakh TPA of Sand in 5151.6828 ha. The mine lease is located at Revenue villages of Tehsil: Gudhamalani, District: Barmer, Rajasthan. The Latitudes and Longitudes of Mine Lease area are 24°59'12"N to 25°48'45" N and 71°40'58"E to 71°58'57" E respectively.

The Department of Mines & Geology, Govt. of Rajasthan awarded the lease for 5 years vide Letter No P.8 (19) Mining/ G-2/2013 dated 27.02.2013, in favor of Mr. Bharat Singh Shekhawat for River Sand Mining in revenue villages of Tehsil: Gudhamalani, District: Barmer, State: Rajasthan. Total lease area is 5151.6828 ha with an annual capacity of 50.40 Lakh TPA. Mining shall be carried out by opencast and semi – mechanized method. River Sand Mining will be restricted to 3 meter depth from the river bed and will be kept above 1-2 meter from the water table. Total water requirement of the project will be 10KLD and met from nearby tube-well or tankers. Capital cost of the project is Rs 80.0 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.45 River Sand Mining (Shivpura River- a tributary of Luni River) project (2.52 Lakh TPA) of M/s Paras Sethi, located at Revenue villages of Tehsil-Chohtan, Distt-Barmer, Rajasthan (54.68ha)-TORs

The proposal of M/s Paras Sethi is for River Sand Mining (Shivpura River- a tributary of Luni River) with the Production Capacity 2.52 Lakh TPA of Sand in 54.68 ha. The mine lease is located at Revenue villages of Tehsil- Chohtan, Distt-Barmer, Rajasthan. The Latitudes and Longitudes of Mine Lease area are 25° 31'48" N - 25° 32'57" N and 71° 13'44" E - 71° 14' 39" E respectively.

The Department of Mines & Geology, Govt. of Rajasthan has awarded the lease for 5 years vide Letter No. Jodhpur/CC/Barmer/Tender/2012-13, dated 18/02/2013, in favor of Mr. Paras Sethi, for River Sand Mining in revenue villages of Tehsil: Chohtan, District: Barmer, State: Rajasthan. Total mine lease area is 54.68 ha with an annual capacity of 2.52 Lakh TPA. Mining shall be carried out as opencast and semi – mechanized method. River Sand Mining will be restricted to 3 meter depth from the river bed and will be kept above 1-2 meter from the water table. Total water requirement of the project will be 5 KLD for dust suppression & plantation) and met from nearby tube-well or tankers. Mining

will be done in daytime and restricted in heavy rainfall. No natural cause of the river will be changed. Capital cost of the project is Rs. 50 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.46 River Sand Mining project (5.60 Lakh TPA) of M/s Shiva Corporation (I) Ltd., located at Vill-Revenue, Tehsil-Rashmi, Distt-Chittorgarh, Rajasthan (681.23ha)-TORs

The proposal of M/s Shiva Corporation (I) Ltd is for River Sand Mining (Banas River) with the Production Capacity 5.60 Lakh TPA of Sand in 681.23 ha. The mine lease is located at Revenue villages of Tehsil-Rashmi, Distt-Chittorgarh, Rajasthan. The Latitudes and Longitudes of Mine Lease area are 25°02'13" N to 25°11'27" N and 74°18'52" E to 74° 29'07" E respectively.

The Department of Mines & Geology, Govt. of Rajasthan awarded the lease for 5 years vide Letter No. P .10(23) KHAN /GROUP -2/2012, Dated: 21/01/2013, in favor of M/s Shiva Corporation (I) Ltd, for River Sand Mining in revenue villages of Tehsil: Rashmi, District: Chittorgarh, State: Rajasthan. Total lease area is 681.23 ha with an annual capacity of 5.60 Lakh TPA. Mining shall be carried out as opencast and semi – mechanized method. River Sand Mining will be restricted to 3 meter depth from the river bed and will be kept above 1-2 meter from the water table. Total water requirement of the project will be 6.6 KLD for dust suppression & plantation and met from nearby tube-well or tankers. Mining will be done in daytime and restricted in heavy rainfall. No natural cause of the river will be changed. Capital cost of the project is Rs. 62 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.47 Bharkundi (Patanpura) Soapstone & Dolomite Mine (70,000 TPA) of M/s Nalwaya Mineral Industries Pvt. Ltd. located Vill-Bharkundi (Patanpura), Tehsil-Aspur, Distt-Dungarpur, Rajasthan (117.51ha) (Consultant: M/s Apex Mintech, Rajasthan)-TORs

The Project Proponent has requested for withdrawal of TORs proposal due to non-finalization of mine lease area by the Department of Mines, State Government. The Committee **recommended** withdrawal of the proposal for TORs and mentioned that the PP may submit the TORs proposal after finalization of the mine lease area.

2.48 River Sand Mining with production capacity of 15 Lakh TPA of M/s. Pankaj Singh Jadaun located near villages- Hanutiya, Rampura, Loharwada, Chat, Tehsil-Nasirabad & District-Ajmer, Rajasthan (120.312 ha) (Consultant: Perfect Envirosolutions Pvt. Ltd., New Delhi)-TORs

The proposal of Pankaj Singh Jadaun is for River Sand Mining (Dai River) with Production Capacity 15 Lakh TPA of Sand in 120.312 ha. The mine lease area is located near villages Hanutiya, Rampura, Loharwada, Chat, Tehsil-Nasirabad & District-Ajmer, Rajasthan. The Latitudes and Longitudes of mine lease area is 26°19'33.08"N to 26°11'27.90"N and 74°39'38.16"E to 74°48'34.27"E respectively

The proposed project is an opencast mining project, confined to extraction of river sand (Bajri). The operation will be semi-mechanized. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. The mine lease area has been granted by the Govt. of Rajasthan vide letter no. (ME/AJ/R.C.C./2012-13/998, dated 21/01/2013. The lease period is valid for 5 years. Total lease area is 120.312 ha with an annual capacity of 15 Lakh TPA. Total water requirement will be 12 KLD and will be supplied from the bore well from nearby villages through tankers for dust suppression, drinking and plantation etc. No waste will be generated during mining. The total project cost would be around 2.0 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.49 River Sand Mining with production capacity of 30 Lakh TPA of M/s. Bharat Singh located near villages-Chausla, Chandthali, Bajta, Devkhedi, Dhundhari, Tankawas, Naya Gaon Mehrukala, Bhandawas, Gulgaon, Sadara, Sadari, Rajpura, Banediya, Mehrukala, Aamli, Balapura, Gothra, Devpura, Kadera, Alamboo Tehsil-Kekri, District-Ajmer (Rajasthan) (1025.70 ha) (Consultant: Perfect Envirosolutions Pvt. Ltd., New Delhi)-TORs

The proposal of M/s Bharat Singh is for River Sand Mining (Khari River) with Production Capacity 30 Lakh TPA of Sand in 1025.70 ha. The mine lease area is located near villages Chausla, Chandthali, Bajta, Devkhedi, Dhundhari, Tankawas, Naya Gaon Mehrukala, Bhandawas, Gulgaon, Sadara, Sadari, Rajpura, Banediya, Mehrukala, Aamli, Balapura, Gothra, Devpura, Kadera, Alamboo Tehsil-Kekri, District-Ajmer (Rajasthan). The lease area lies on River Khari. The Latitudes and Longitudes of mine lease area is 25°49'30.81"N to 25°50'3.30"N and 75°01'23.74"E to 75°20'56.48"E respectively.

The proposed project is an opencast mining project, confined to extraction of river sand (Bajri). The operation will be semi-mechanized. Excavation will be carried out up to a maximum depth of 3 meters from surface. The mine lease area has been granted by the Rajasthan State Govt. vide letter no. (P.7(19)/Khan/Group-2/2013, dated 20/03/2013). The lease period is valid for 5 years. Total lease area is 1025.70 ha with an annual capacity of 30 Lakh TPA.

Total water requirement will be 18 KLD. This water will be supplied from nearby wells from nearby villages through water tankers for drinking, dust suppression, plantation etc. No waste will be generated during mining. The total project cost would be around 7.0 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.50 River Sand Mining with production capacity of 30 Lakh TPA of M/s. Abhishek located near villages- Bakarwaliya, Sinodiya, Bhadun, Palri Bhopatan, Tehsil-Kishangarh, District-Ajmer (Rajasthan) (1219.03ha) (Consultant: Perfect Envirosolutions Pvt. Ltd., New Delhi)-TORs

The proposal of M/s Abhishek is for River Sand Mining (Rupangarh River) with Production Capacity 30 Lakh TPA of Sand in 1219.03 ha. The mine lease area is located near villages Bakarwaliya, Sinodiya, Bhadun, Palri Bhopatan, Tehsil-Kishangarh, District-Ajmer, Rajasthan. The lease area lies on River Rupangarh. The Latitudes and Longitudes of mine lease area is 26°51'11.03"N to 26°55'56.22"N and 74°47'22.14"E to 74°58'0.65"E respectively.

The proposed project is an opencast mining project, confined to extraction of river sand (Bajri). The operation will be semi-mechanized. Excavation will be carried out up to a maximum depth of 3meters from surface bed of river channel. The lease area has been granted by the Govt. of Rajasthan vide letter of intent (F7 (18) Khan/Group-2/2013, dated 20th March 2013. The lease period is valid for 5 years. Total lease area is 1219.03 ha with an annual capacity of 30 Lakh TPA. Total water requirement will be 18 KLD and will be supplied from the bore well from nearby villages through tankers for dust suppression, drinking and plantation etc. No waste will be generated during mining. The total project cost would be around 4.0 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/ Zonal wise, as the mine lease area having a

long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.51 River Sand Mining with Production Capacity of 52 Lakh TPA Sand of M/s. Abhimanyu Singh located near villages-Barli, Mataji Ka Kheda, Deoliya Kalan, Guda Khurd, Gudha Kalan, and Kitab, Tehsil-Bhinay, District-Ajmer (Rajasthan) (342.08ha) (Consultant: Perfect Envirosolutions Pvt. Ltd., New Delhi)-TORs

The proposal of M/s Abhimanyu Singh is for River Sand Mining (Khari River) with Production Capacity 52 Lakh TPA of Sand in 342.08 ha. The mine lease area is located near villages-Barli, Mataji Ka Kheda, Deoliya Kalan, Guda Khurd, Gudha Kalan, and Kitab, Tehsil-Bhinay, District-Ajmer, Rajasthan.

The proposed project is an opencast mining project, confined to extraction of river sand (Bajri). The operation will be by semi-mechanized. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. The lease area has been granted by the Govt. of Rajasthan vide letter no. (F.7(3) Khan/Group-2/2013, dated 13th February 2013. The lease period is valid for 5 years. Total lease area is 342.08 ha with an annual capacity of 52 Lakh TPA. Total water requirement will be 12 KLD and will be supplied from the bore well from nearby villages through tankers for dust suppression, drinking and plantation etc. No waste will be generated during mining. The total cost of project would be around Rs. 5 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.52 River Sand Mining with production capacity of 15 Lakh TPA Sand of M/s. Pankaj Singh located near villages-Bilavatiya Khera, Hingoniya, Manpura, Lallai, Hingtada, Sohanpura, Goverdhanpura, Someliya, Sarwad, Jadana, Khiriya, Sanodiya, Jawala, Chandama, Piproli, Tantoti, Gudliya, Motipura, Tehsil-Sarwar, District-Ajmer, Rajasthan (433.93ha) (Consultant: Perfect Envirosolutions Pvt. Ltd., New Delhi)-TORs

The proposal of M/s Pankaj Singh is for River Sand Mining (Dai and Nearan River) with Production Capacity 15 Lakh TPA of Sand in 433.93 ha. The mine lease area is located near villages Bilavatiya Khera, Hingoniya, Manpura, Lallai, Hingtada, Sohanpura, Goverdhanpura, Someliya, Sarwad, Jadana, Khiriya, Sanodiya, Jawala, Chandama, Piproli, Tantoti, Gudliya, Motipura, Tehsil-Sarwar, District-Ajmer (Rajasthan). The lease area lies on River Dai and Nearan. The Latitudes and Longitudes of mine lease area is 26°11'27.87"N to 26°02'53.38"N and 74°48'33.92"E to 75°10'19.04"E respectively.

The proposed project is an opencast mining project, confined to extraction of river sand (Bajri). The operation will be semi-mechanized. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. The lease area has been granted by the Govt. of Rajasthan vide letter no. (F.7(4)/Khan/Group-2/2013 dated

13/02/2013. The lease period is valid for 5 years. Total lease area is 433.93 ha with an annual capacity of 15 Lakh TPA. 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. No waste will be generated during mining. The total project cost would be around 5.0 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.53 Deopur II Soapstone & Dolomite Mine of M/s Nalwaya Mineral Industries Pvt. Ltd., located at Vill-Deopur, Tehsil-Aspur, Distt-Dungarpur, Rajasthan (225.165 ha) (Consultant: Apex Mintech, Udaipur)-TORs

The proposal of M/s Nalwaya Mineral Industries Pvt. Ltd. is for renewal of mining lease and enhancement of production of Soapstone @ 30,000 TPA and Dolomite @ 40,000 TPA. The mine is located at village Deopur, Tehsil-Aspur, Distt-Dungarpur, Rajasthan. The Latitudes and Longitudes of mine lease area is 23°52'58.62"N to 23°54'25.92"N and 74°20'6.72"E to 74°21'35.46"E respectively.

The total mine lease area is 225.165ha, which is protected forest. The method of mining is opencast mechanized. The life of mine is 27 years. The 2nd renewal was due from 06.10.2000. The Lessee applied for the renewal on 7.6.1999. The mine was closed since December 1996 as per the Hon'ble Supreme Court order dated 12.12.1996 as area falls in forest land. PP informed that application for forest land diversion is under consideration.

PP informed that MoEF has prescribed TORs for the same project vide MoEF letter no. J-11015/450/2008-IA.II (M) dated 05.02.2009. The proponent submitted EIA/EMP report to the Ministry for seeking environmental clearance after conducting public hearing on 06.03.2013 after expiring the validity of TORs. In this context, MoEF informed to PP to apply for afresh TORs as per MoEF circular dated 22.03.2012. The base line data was undertaken from December 2011 to February 2012 and the Public Hearing held on 08.01.2013. PP has requested to use the base line data and public hearing for preparation of the EIA/EMP report.

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 and also recommended to use the base line data and public hearing undertaken on 08.01.2013 for preparation of the EIA/EMP report for the said project as there was a delay of about one month in submitting the documents like EIA/EMP report, Mine Plan for consideration of EC proposal.

2.54 River Sand Mine (2.80 Lakh TPA) of M/s Narrotham Singh Jadaun, located at Revenue Villages of Tehsil & Distt-Rajsamand, Rajasthan (489.39ha)-TORs

The proposal of M/s Narrotham Singh Jadaun is for River Sand Mining (Bansa, Gomati & Tileri River) with the Production Capacity 2.80 Lakh TPA of Sand in 489.39 ha. The mine lease is located at Revenue villages of Tehsil & Distt-Rajsamand, Rajasthan. The Latitudes and Longitudes of Mine Lease area is 25⁰00'21" N to 25⁰13'34" N and 73⁰49'27" E to 74⁰00'28" E respectively.

The Department of Mines & Geology, Govt. of Rajasthan has awarded the lease for 5 years vide Letter No. P(10)2/ Mining/Group-2/2013, dated 05-03-2013 in favor of, Mr. Narrotham Singh Jadaun for River Sand Mining in revenue villages of Tehsil & District: Rajsamand, State: Rajasthan. Total Mine lease area is 489.39 ha with an annual capacity of 2.80 Lakh TPA. Mining shall be carried out as opencast and semi – mechanized method. River Sand Mining will be restricted to 3 meter depth from the river bed and will be kept above 1-2 meter from the water table. Total water requirement of the project will be 3 KLD for dust suppression & plantation and will be met from nearby tube-well or tankers. Mining will be done in daytime and restricted in heavy rainfall. No natural cause of the river will be changed. Capital cost of the project is 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.55 River Sand Mine (2.24 Lakh TPA) of M/s Shiva Corporation (I) Ltd, Located at Revenue Villages of Tehsil & Distt-Chittorgarh, Rajasthan (450.89ha)-TORs

The proposal of M/s Shiva Corporation (I) Ltd is for River Sand Mining (Gambhiri and Berach River) with the Production Capacity 2.24 Lakh TPA of Sand in 450.89 ha. The mine lease is located at Revenue villages of Tehsil & Distt-Chittorgarh, Rajasthan. The Coordinate of Mine Lease is 25⁰ 46' 25" N to 25⁰ 11' 09" N Latitudes and 74⁰32'07" E to 74⁰ 57'13" E Longitudes respectively.

The Department of Mines & Geology, Govt. of Rajasthan has awarded the lease for 5 years vide Letter No. P10(21)Mine/Group-2/2012, Dated: 28/01/2013, in favor of M/s Shiva Corporation (I) Ltd, for River Sand Mining in revenue villages of Tehsil: Chittorgarh, District: Chittorgarh, State: Rajasthan. Total mine lease area is 450.89 ha with an annual capacity of 2.24 Lakh TPA. Mining shall be carried out as opencast and semi – mechanized method. River Sand Mining will be restricted to 3 meter depth from the river bed and will be kept above 1-2 meter from the water table. Total water requirement of the project will be 3 KLD for dust suppression & plantation and met from nearby tube-well or tankers. Mining will be done in daytime and restricted in heavy rainfall. No natural cause of the river will be changed. Capital cost of the project is 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/ Zonal wise, as the mine lease area having a long stretch, (vi) Details of Gradient of river bed to be provided; and (vii) Details of excavation schedule & sequential mining plan.

2.56 Motijharna stone mine (1,52,734 TPA) of M/s Mayur Machine Pvt. Ltd. located at Village Motijharna, District Sahibganj, Jharkhand (7.831 ha) (Consultant: Grass Root Research & Creation India (P) Ltd. Noida)-TORs

The proposed project is categorized under Category "A" project due to the presence of Interstate boundary between Bihar, West Bengal and Jharkhand. The geographical location of the proposed site falls in Survey of India's restricted Topo Sheet and lies between Latitudes 25°12'52.24"N to 25°12'37.45" N and Longitudes 87°44'21.88" E to 87°44'30.28" E and is located at Village-Motijharna, District-Sahibganj, Jharkhand.

The Proponent has reported that it is an existing mine with mining lease area of 7.831ha which is a non-forest land and proposed production is 1,52,734 of stone. Originally mining lease was in favour of Sarv Shree Jay Bharat Construction Company for the period of 5 years from 18.12.2010 to 17.12.2015. Then mining lease was transferred to Sarv Shree Mayur Machinery Pvt. Ltd. Director- Shri Mayur Khushwani and Shri Govardhandas Khuswani on 04.04.2011 for the balance period of lease from 04.04.2011 to 17.12.2015. Method of mining is by opencast semi-mechanized. Occasional drilling and blasting will be done. Total water requirement is about 5.9 KLD. Life of mine is 10 years.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed TOR** for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish Cumulative impact of cluster mining in the area.

2.57 Limestone Mining Project of M/s Assam Mineral Development Corporation Ltd located at near village New Umrungshu, District DimaHasao, Assam (31ha)-TORs

The mine lease area is located at N/V New Umrangshu, Tehsil -Umrangshu & District - DimaHasao, Assam. The Mine Lease area is between Latitudes 25° 31' 37" to 25° 32' 09" N and Longitudes is 92° 47' 13" to 92° 47' 27"E. The Project is located in Seismic Zone V. It is considered as Category 'A' project as the absence of SEIAA in the State of Assam.

The mine lease area is 31ha, which is Non-Govt. barren land. Govt. of Assam has granted mining lease over an area of 31 ha vide letter no. PEM/81/2009/72 dt. 3rd May 2010. The mining plan with PMCP has been submitted to IBM, Kolkatta for approval. PP informed that there is no reserves forest or protected forest land within the applied area. There is no village or hutments within the applied area.

Mining will be by opencast mechanized method by forming benches of 6.0 m height. 100-115 mm dia. holes will be drilled and blasted using ANFO & slurry explosive. Loading of limestone into trucks will be with the use of excavator. Individual bench slope will be 80°. The daily water requirement is about 11 KLD and will be met from the Dug wells / Tube wells situated outside the applied area.

The cost of the project is 262.0 Lakhs and the projected cost of EMP is 4.5 Lakh per annum.

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

2.58 Golden Hills Resort Mine (1.38MTPA) of M/s Golden Hills Resort Pvt. Ltd. Village Jai Surjana, Dist-Chittorgarh Rajasthan. (242.104ha) (Enkay Enviro Services, Rajasthan)-Validity of Extension of TOR

The Proponent received TOR from the MoEF vide letter no. J-11015/34/2011-IA. II (M) dated 20.05.2011, which was valid up to 19.05.2013. The Project Proponent vide Letter dated 22.03.2013 requested to extend the validity of the TORs; as they anticipated delay in submission of final EIA Report to MoEF.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR as per MoEF circular for additional one year i.e. from 20.05.2013 to 19.05.2014.

2.59 Khetri Copper Mine of M/s Hindustan Copper Ltd. located at village Gothra-Banwas, Tehsil Kehtri, Distt-Jhunjhunu, Rajasthan (395.07ha)-Amendment in TORs

The proposal is for amendments in TORs prescribed to the M/s Hindustan Copper Ltd. for Copper Mine located at village Gothra-Banwas, Tehsil Kehtri, Distt-Jhunjhunu, Rajasthan.

MoEF has prescribed ToRs vide letter no. J-11015/205/2011-IA.II (M) dated 6th July, 2012 wherein in Para no.2, line no.2, it is mentioned that "..... The earlier environmental clearance was granted in March, 2009 for increase in lease from 297.94ha to 395.07 by amalgamation of two mines and also for beneficiation plant with a capacity of 0.2 million TPA."

The Committee noted that it is a typographical error and **recommended** for amendment from "..... The earlier environmental clearance was granted in March, 2009 for increase in lease from 297.94ha to 395.07 by amalgamation of two mines and also for beneficiation plant with a capacity of 0.2 million TPA." to "..... The earlier environmental clearance was granted in March, 2009 for increase in lease from 297.94ha to 395.07 by amalgamation of two mines and also for beneficiation plant with a capacity of 0.2 million TPM i.e. 2.4 million tonnes per annum)."

Any other item with the permission of the Chair

(3.1).Kalwar-Nagur Iron Ore Mine of M/s Steel Authority of India Ltd. over an area of 938.059 ha with capacity 1 MTPA at Kanker District of Chhattisgarh State- Amendments in Minutes of Meeting for Agenda Item no. 3.2, held during June 26th-28th, 2013-TORs

The proposal of TORs of M/s Steel Authority of India Ltd was earlier placed in the 8th Meeting of the Reconstituted Expert Appraisal Committee held during June 26th-28th, 2013 wherein it was mentioned that PP may use the Public Hearing proceedings and base line data. The Committee discussed and reviewed the decision taken in its earlier EAC meeting that as the PH was held in February 2012 after the expiry of the validity of TORs i.e. February 2011 and base line data was collected during March-May, 2013 i.e. prior to the fresh TORs accorded. In view of this, the Committee **recommended** for issue of TORs and to generate fresh baseline data and re-conduct Public Hearing.

The Meeting concluded with thanks to the Chairman and it was decided that the next EAC meeting would be held on 25-27, September, 2013.

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

1. Shri M.S. Nagar Chairman
2. Dr. S. Subramaniyan Member
3. Dr. L Ajay Kumar Member
4. Dr. S.K. Peshin Member
5. Prof. G.S. Roonwall Member
6. Sri P.K. Verdia Member
7. Prof. A. K. Bhatnagar Member
8. Dr. Asha Rajvanshi Member
9. Dr. Saroj Director, MoEF Member Secretary
10. Dr. R. B. Lal, Deputy Director, MoEF
11. Dr. Sonu Singh, Deputy Director, MoEF
12. Representative of M/s Mahesh Mantri
13. Representative of M/s Mandovi Minerals Pvt. Ltd.
14. Representative of M/s Gujarat Industries Power Co. Ltd.
15. Representative of M/s Misrilall Mines Pvt. Ltd.
16. Representative of M/s Garhwal Mandal Vikas Nigam Ltd.
17. Representative of M/s Rajasthan State Mines and Minerals Ltd.
18. Representative of M/s Raghvendre Kumar Agrawal
19. Representative of M/s Shri Vishvanath Prasad Agrawal
20. Representative of M/s Shri Sharad Kumar Bansal
21. Representative of M/s Rakesh Agencies
22. Representative of M/s Jai Lal Bharat Lal
23. Representative of M/s Satish Kumar Garg
24. Representative of M/s S.R Associates
25. Representative of M/s Standard Mercantile Company (Mining Division) Pvt. Ltd.
26. Representative of M/s Himmat Singh Shekhawat
27. Representative of M/s Rajasthan Fort & Palace Pvt. Ltd.
28. Representative of M/s Raman Sethi
29. Representative of M/s Ashu Singh Bhati
30. Representative of M/s Rajasthan Fort & Palace Pvt. Ltd.
31. Representative of M/s Bonai Industrial Co. Ltd.
32. Representative of M/s Hindalco Industries Ltd.
33. Representative of M/s Charan Singh & Others
34. Representative of M/s Rungta Sons(P) Ltd.
35. Representative of M/s MY Home Industries
36. Representative of M/s Gajender Pal Singh
37. Representative of M/s V.U.S.B. Bhushan kumar
38. Representative of M/s T. Nagaiah
39. Representative of M/s H.S.D Stone Crusher
40. Representative of M/s Singrarenii Collieries Company Ltd. (SCCL)
41. Representative of M/s Balasore Alloys Ltd.
42. Representative of M/s Adhunik Metaliks Ltd.
43. Representative of M/s Orissa Manganese & Minerals Ltd.
44. Representative of M/s Serajuddin & Co.
45. Representative of M/s Bharat Singh Shekhawat
46. Representative of M/s Paras Sethi
47. Representative of M/s Shiva Corporation (I) Ltd.
48. Representative of M/s Nalwaya Mineral Industries Pvt. Ltd.

49. Representative of M/s Pankaj Singh Jadaun
50. Representative of M/s Bharat Singh
51. Representative of M/s Abhishek
52. Representative of M/s Abhimanyu Singh
53. Representative of M/s Pankaj Singh
54. Representative of M/s Narrotham Singh Jadaun
55. Representative of M/s Mayur Machine Pvt. Ltd.
56. Representative of M/s Assam Mineral Development Corporation Ltd.
57. Representative of M/s Golden Hills Resort Pvt. Ltd.
58. Representative of M/s Hindustan Copper Ltd.
