

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

SUMMARY RECORD OF 16th MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The 16th 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 **January 27-28, 2014**. 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 15th EAC Meeting.

The Minutes of the 15th Meeting of EAC held on **December 16-17, 2013** were confirmed and circulated.

Agenda Item No. 2:

(2.1). KJST Iron Manganese and Bauxite Mine of M/s Prabodh Mohanty, Village Kalmang, Jaldihi, Sidimba & Tantigram, Distt. Sundergarh, Orissa (188.523 ha)(Iron Ore: from 0.7 MTPA to 2.0169 MTPA, Bauxite Ore: from 50,000 TPA to 1,30,000 TPA) (Consultant: J.M. Environ Net Pvt. Ltd.)- Environmental Clearance.

The proposal is for enhancement of production from 0.7 MTPA to 2.0169 MTPA of Iron Ore & 50,000 TPA to 1,30,000 TPA of Bauxite from KJST Iron ore, Manganese ore and Bauxite Mine (RML Area – 188.523 ha), located in villages Kalamanga, Sidimba, Jaldihi and Tantigram, Tehsil Koira, District Sundergarh, Odisha of Shri Prabodh Mohanty. The Latitude and Longitude of the mine lease area are 21° 51'02.2" N to 21° 51' 58.5" N to 85° 14' 0.5" E to 85° 15' 02.8" E.

The proposal was considered by the Expert Appraisal Committee in its meeting held during 23-25 May, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/121/2011-IA.II (M) dated 6 July, 2012.

The mine lease area is 188.523 ha which is entire forest land. Mining scheme is approved by IBM, Govt. of India vide letter no. 314(3)/2010-MCCM (CZ)/MS-40

dated 6th April, 2011. The project proponent made a presentation with regard to compliance of earlier EC granted to the project vide no. J-11015/417/2006-IA.II(M) dated 28.01.2008 for 0.7 MTPA iron and 50,000 TPA of bauxite.

The iron ore mining will be carried out by fully mechanized method for and semi-mechanized for Bauxite ore mining. The drilling of blast holes will be done by Jackhammer for bauxite & wagon drill for iron ore. The mineable reserves of iron ore is 25.49 Million tonnes and bauxite ore is 0.6513 Million tonnes. Life of Mine of Iron Ore is estimated 13 years at the production capacity of 2.0169 MTPA and for the bauxite ore is estimated 5 years at the production capacity of 1,30,000 TPA. The water requirement is estimated as 50 KLD, Water will be sourced from Groundwater and mine sump. The NOC has been obtained from CGWA vide their letter no. 21 4(135)/SER/CGWA/ 2009-979 dated 30.10.2009 for 40 KLD. Mine Working will not intersect ground water table level.

It was reported by the PP, that Top soil will not be generated during life of mine. 15,71,945 m³ and 2,90,390 m³ of waste will be generated during mining of iron and bauxite respectively. The dump will be spread over an area of 15.71 ha and 97.10 ha will be backfilled.

It was reported by the PP that there are no Ecological Sensitive Areas (National Park, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors, Biosphere Reserves etc. are located within 10 km radius from mining lease boundary. Baseline studies were carried out during Post Monsoon Season 2012 (October, November and December 2012). The public hearing for the project was conducted at Sidimba Play ground under Koira Block, District Sundargarh, Odisha on 10.01.2013. The public hearing was conducted under the chairmanship of Additional District Magistrate & Regional Officer, Sundergarh district. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia issues related to pollution, job opportunity for local people, social welfare activities for the local villagers such as education facilities, development of Dispensary with provision of doctor/pharmacist, provision of solar lantern, TV sets at village club, DG set at Batucihi village, construction of club, boundary wall at Tinto school, supply of tin sheet, bore well, drinking water supply facility & environmental based awareness programme.

The cost of the project is Rs 39.64 Crores. The capital cost for EMP is Rs. 26 lakhs and recurring cost for EMP is Rs. 24 Lakhs/annum. The amount earmarked for socio-economic welfare measures for nearby villages other than R&R plans is 144.20 lakhs. It was reported by the PP that there is no court case/litigation pending against the project and no violation.

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

- (i) Traffic density and transportation map from mine to Koira Junction and impact due to enhanced production.
- (ii) Monitoring of ground water level shall be done and data obtained from peizometers should be submitted.
- (iii) DGPS map of the mine lease area by ORSAC may be submitted.
- (iv) Primary survey of vegetation data including information on schedule-I species and status of wildlife conservation plan.

(2.2). Koira iron ore mine of M/s Essel Mining & Industries Ltd. District Sundargarh, Odisha (90.143 ha) (1.5 MTPA to 4.0 MTPA) (Consultant: B.S. Envi-Tech(P) Ltd)-Environmental Clearance.

The Mine site is located at Koira, Nuagaon, Kadodiha & Harischandrapur Villages, Koira Taluk, Sundergarh District, Odisha with an average msl of about 560 - 630 m. The site falls between latitude 21° 53' 40" to 21° 54' 20" N and longitude 85° 13' 20" to 85° 14' 00" E and part of study area falls within the Survey of India Toposheet No. 73 G/1. The proposal was considered for TOR by the Expert Appraisal Committee in its meeting held during 22nd September, 2011 and TOR was issued vide letter No. J-11015/171/2011-IA.II (M) dated 25th October, 2011. Extension of validity of TOR was considered in EAC meeting held during September 25-27, 2013. The extension of validity of TOR was granted vide letter dated 18th November 2013. The prior environment clearance for 1.5 MTPA was granted to the project vide letter no. J-11015/599/2007-IA.II(M) dated 24th September 2008. The certified compliance report of the EC was discussed during the EAC meeting.

The proposal is for enhancement of the Iron ore production from 1.5 to 4.0 MTPA by adopting deep hole drilling & blasting with fully mechanized open cast mining method. Area of the mining lease is 90.143 ha. The Iron ore produced from the mine will be transported to the crusher located at 1.5 km from the mine pit. The crushed Iron ore will be transported to different destinations by road from mines-head to different Railway sidings as well as plants as per buyer's requirement.

During the entire period of the mining a total of about 0.37 million tonnes of waste will be generated and will be utilized for backfilling. The waste material generated during the earlier mining operations is dumped over an area of 2.934 ha. The old static dumps are protected and rehabilitated by afforestation programme. This area will be reduced to 1.515 ha during the course of mining as part of the dump area is located on mineralized area. The waste from this dump area will be backfilled in mined out quarry in SE part of the lease. Total reclaimed area up to 31.3.2013 is 2.196 ha. The Mining plan is approved by IBM vide letter dated 29.03.2011 no. 314(3)/2010MCCM/SP.

The main sources of water supply are dug well and bore well within the mining lease area equipped with pumping arrangement. The mine is presently using 100 m³/day of water for various purposes at mine-sites and colony. With the increase in production the total water requirement will increase to 500m³/day and this requirement will be met from above sources. Koira Iron ore mine has obtained NOC from CGWA for withdrawal 500 KLD Water vide letter dated 05.03.2008 no. 21-4(29)/SER/CGWA/ 2008-588. The mine working will not intersect the ground water table. It was reported by the PP that no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves existing/proposed, are located within 10 km of the mine lease boundary.

Baseline studies were carried out during post monsoon season 2012 (September, October and November 2012). The Public Hearing for the project was conducted on 26.09.2013. The public hearing was chaired by Shri Rabindra Nath Mishra, OAS(S), Additional District Magistrate, Rourkela, Sundargarh. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia, included, air pollution control measures to be adopted, raising of plantation, sprinkling of water etc. As per the villager's requirements, it was informed by the PP that they would give preference to local people for employment and also provides facilities related to health issues, education, vocational training etc. These have been incorporated in the Project Plan with budgetary provisions.

Capital budget for proposed increase in production of Iron Ore from 1.5 to 4.0 MTPA is 50 Crores. A case for violation of provisions of Environment (Protection) Act, 1986 at Koira Iron Mines was registered vide no. CrI.Case No.2 (c) C.C. 38/13 in the court of Sub-Divisional Judicial Magistrate, Bonai.

Based on the presentation made and discussions held, the Committee observed that additional information on certain parameters is needed and decided to **defer the proposal** to be brought back to the Committee after the following information is submitted:

1. Certified copies of land schedule showing the correct status of Non Forest land i.e. agriculture, patta land involved in the mining project.
2. Status of litigation/case against the company
3. As per TOR point 8 the Organisation Structure showing the reporting of Environmental non-compliance to the Directors of the company.
4. Handling of additional traffic due to the expansion/material movement in various directions from the project site with details of entire transport route plan.
5. Concrete timeline for construction of workshop and the ETP.
6. The detailed R&R plan for private agricultural land.
7. Possibility of using/disposing murrum/red ochre.

(2.3) Thakurani Iron Ore Mine of M/s Kaypee Enterprises, District Keonjhar, Orissa (228.04ha) Expansion (2.00MTPA to 5.50MTPA) (Consultant: Bhagavathi Ana Labs Ltd)

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

(2.4). Lakhnauti Silica Sand Mine of M/s Chawla Silica Sand Trading Co. at village Lakhnauti Tehsil Bara, District Allahabad, U.P. (16.75ha) (50,000TPA) (Consultant: Grass Roots Research & Creation India (P) Ltd.)-re-consideration of EC.

The proposal is for opening a new opencast silica sand Mine with proposed production of 166.66 TPD (50000 Tonnes /Annum ROM) by M/s Chawla Silica Sand Trading Company, located at village Lakhnauti, Bara Tehsil, Allahabad District, Uttar Pradesh. The Latitudes and Longitudes of the site are 25°14'38.1" N to 25°15'4" N and 81°33'28.1" E to 81°33'41.5" E.

The proposal was considered by the Expert Appraisal Committee in its meeting held during 20-22th July, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/116/2011-IA.II (M) dated 20th September, 2011.

The mine lease area is 16.75 ha, which is a government revenue land. M/s. Chawla Silica Sand Trading Co. has been sanctioned mining lease vide State Government of U.P. order No. 1644/86-2010-232/2008 dated 27.07.2010. It is Category 'A' project as it is located near interstate boundary of U.P. and M.P. The Mining plan is approved by IBM vide Letter No. UP/Allahabad/S.Sd/MPLN/G-01/10-11 dated 01.04.2011. Opencast method of mining has been proposed. All operations will be done manually by using hand tools like crowbars, spades, chisels and hammers. The deployment of excavator cum loader may be done in case of shortage of labour and to meet increased demand. The development / production have been proposed in the pits-1 & 4 near north western boundary and southern boundary from one end of the lease area. No. of benches in OB will be 1 and in ore will be 1 towards south in Pit 4 while 2 in North West in Pit 1. The overall pit slope will be 45°. The bench in OB will be of height and width up to 1.5m while in ore, it will be of height and width of 3.0m. The stripping ratio will range from 1: 0.36 to 1: 0.58.

The soil is sandy in nature in loose form mixed with grit and small pebbles. It is only found in patches above sand stone. The OB is in the form of unaltered sandstone and intercalated clay etc. This will be in loose form in the shape of chips and lumps. The OB will be stacked in 1.0 ha area, ear marked for this purpose, up to 6m height. The waste will be backfilled.

The water required is mainly for dust suppression, green belt development, drinking and other domestic purpose during mining operations as well as in

Washing Plant and Crusher. The total water requirement will be 17 KLD. Sources of water will be Ground water from Dug Wells/ Bore Wells existing within the ML area and mine sump. The water Table is reported to be varying from 110m AMSL to 114m AMSL i.e. 11m to 15m bgl (125m AMSL) in the buffer zone. Maximum depth of working will be 8.5m, so ground water will not be intersected.

It was reported that there is no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves, within 10 km of the mine lease. Baseline studies were carried out during post monsoon season i.e. October to December 2011. The Public Hearing for the Proposed Project was conducted at Lakhnauti Village on 15.12.2012. The PH was chaired by Shri Ram Niwas (Additional District Magistrate, Allahabad District). The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia, included that fund should be allocated for socio-economic development of the village, blasting should be done in a proper way, migration of local people should be avoided, village development work should be carried out, mining operation should be started as early as possible.

The cost of the project is Rs 2 crores. Budget for environmental protection is Rs 15 Lacs and the budget for Socio-economic development is Rs 10 Lacs. It was reported by the PP that there is no court case/litigation pending against the project and no violation.

The Committee sought following information in the meeting held during June 26-28 2013: (i) Species specific conservation plan (ii) Additional information regarding action plan with budgetary provisions based on public hearing (iii) Revised Questionnaire shall be submitted. On submission of information, the proposal was placed in the present meeting. The PP submitted Species Specific Conservation & Management Plan for *Pavo cristatus* (peafowl), Additional information regarding action plan with budgetary provisions based on public hearing was also submitted along with revised questionnaire.

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

(2.5). Augmentation of Limestone production from 3,80,000 TPA to 7,80,000 TPA Jaggayyapeta Limestone Mine of M/s Rashtriya Ispat Nigam Limited Locaed at Tehsil Jaggayyapeta, District Kirishna, Andhra Pradesh (1295ha) (Consultant: M N Dastur & Co. (P) Ltd.)-Reconsideration Environmental Clearance.

The Proposal was first considered by the EAC in its meeting held during 25-26 February, 2010. TOR were issued by MoEF vide letter No. J-11015/28/2010 IA-II(M) dated 9th March 2010. The limestone Mine at Jaggayyapeta (JLM) is a captive mine of Rashtriya Ispat Nigam Limited (RINL) for their Visakhapatnam Steel Plant

(VSP). The mine with acquired ML area of 1295 ha (3199 acres) is in operation since 1989. RINL has obtained the 1st renewal of ML area for 20 years with effect from 8th September 2000 from the Directorate of Mines & Geology, Govt. of AP. Mining Scheme was approved by Regl. Controller of Mines & Incharge (South Zone), Bangalore of Indian Bureau of Mines in October 2010. The final EIA/EMP Report has been prepared in accordance with the aforesaid TOR and based on the Proceedings of Public Hearing (PH) conducted by APPCB on 04.04. 2012. Issues raised by the Public during Public hearing were addressed by the Project Proponent with commitment for implementation. AAQ data was collected from April to June 2010. The AAQ data is seen to be within permissible limits. VSP is presently undergoing expansion programme of liquid steel production to 6.3 MTPA from 3.4 MTPA. In view of VSP expansion, RINL proposes to increase the limestone production at Jaggayyapeta to 0.78 MTPA from the present production level of 0.38 MTPA.

Present consumption of water is 330 KLD which will be increased by 200 KLD. The proposed augmentation would be confined within the existing ML area. Estimated cost of the Project is Rs. 32.87 Crores.

The Committee sought following information in the meeting held during January 16-18th 2013:

- (i) There are number of mines surrounding this mine lease area and cumulative impact of the study area needs to be studied and reported.
- (ii) Complete list of flora and fauna is required to be provided by PP
- (iii) Air quality data at the crushing plant show very high air pollution, the reasons for which need to be ascertained and appropriate control measures need to be put in place. Proposed special Action Plans in this regard may be spelt out.
- (iv) The Questionnaire needs to be revised appropriately and resubmitted.
- (v) A complete list of flora and fauna including endangered and endemic species needs to be submitted

On submission of information the proposal was placed in the present meeting. It was noted that the information submitted was not satisfactory with respect to cumulative impact study, endangered and endemic species and control measures to deal with high air pollution in crushing plant. Therefore the Committee was of the view that the aforesaid information shall be re-submitted. Based on the presentation made and discussions held, the Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid information is submitted.

(2.6) Manganese Ore mine of M/s Balaji Electro Smelters Ltd., village Boraj, District Adilabad, A.P.(122.65 ha)(4000TPA) (Consultant: B.S. ENVI-Tech(P) Ltd Hyderabad)-re-consideration of EC.

Bhoraj Mine is located near Bhoraj Village, Jainad Mandal, Adilabad District of Andhra Pradesh. The total mine area falls under non forest land and is covered in the Survey of India Topo Sheet No 56 I/10. The mine lease area lies between 78° 31' 42"E to 78° 32' 30" E Longitude and 19° 43' 46" N to 19° 44' 38" N Latitude.

The proposal was considered by the Expert Appraisal Committee in its meeting held during 26-27th October 2009 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/253/2009-IA.II (M) dated 6th November, 2009.

Mine lease area is 122.65 Ha which is private revenue land under agriculture. The proposal is for 4000 TPA Manganese Ore production by adopting semi-mechanized mining methodology. The Mining plan is approved by IBM vide letter no. AP/ADB/MP/Mn-17/Hyd dated 19.04.2004. Mining operations will be opencast. The manganese ore that will be produced from ML area will be used in BESL Ferro alloy plant at Yavatmal.

Total waste generation for Life of mine of 36 years is 4,31,190 cu m. The waste is in the form of over burden waste (Lime stone). This waste will be stacked and immediately backfilled simultaneously with mining. The water requirement for dust suppression and domestic purpose is estimated to be about 8.5 m³/day. This requirement will be met from local purchase. There will not be any intersection with ground water table.

It was reported by the PP that there are no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves existing/proposed within 10 km of the mine lease. There are no Schedule – I species recorded in the study area. As part of Environmental Impact Assessment study, baseline environmental monitoring was carried out for the months of October 2009 to December 2009. Baseline studies were carried out by Global Enviro Labs. As per the instructions of the MOEF, EAC the baseline AAQ data and meteorological data was monitored for one month during post monsoon i.e October, 2012 by M/s B S Envi-Tech (P) Ltd. Comparison of earlier data was done and presented in the revised EIA Report and comparison was found to be satisfactory.

The Public Hearing for the Proposed Project was conducted on 31.03.2010. The public hearing was chaired by Shri R. Chandrasekhar, Dist Revenue officer and Additional District Magistrate, Adilabad. The issues raised during public hearing were to take up the lands which possess manganese ore deposits as per the owner's consent, development activities such as laying of roads, financial support

for the temple and schools, infrastructure, employment, provision of drinking water. There should not be any injustice in land acquisition process.

Estimated capital cost of the project is Rs 65.40 lakhs and Rs. 5.00 lakhs is budgeted for implementing the Environmental Management Plan.

The Committee sought following information in the meeting held during July 26-28th 2010:

- (i) EIA Report should be revised to provide data for the entire lease period and the conceptual mining plan should be prepared for the lease period.
- (ii) Form – I (as revised on 1.12.2009) shall be filled.
- (iii) Baseline AAQ data for one month during post monsoon shall be generated afresh and compared with the earlier data.

On submission of information the proposal was placed in the present meeting. The PP submitted revised EIA report along with the above clarifications. Based on the information submitted, presentation made by the project proponent and discussions held, the Committee **recommended** the proposal for the grant of environmental clearance with additional specific condition that the project proponent should ensure utilizing the limestone reject.

(2.7). Kukurdih Limestone Mine of M/s Grasim Industries Ltd. Village Kukurdi, Distt. Raipur Chhattisgarh (251.527ha)(5.0 MTPA) (Consultant: J.M. Environ Net Pvt. Ltd.) re-consideration Environmental Clearance.

The proposal is for Kukurdih Limestone Mine (ML Area: 251.527 ha., Limestone Production Capacity: 5.0 MTPA) by M/s UltraTech Cement Ltd., located at Village Kukurdih, Taluka– Balodabazar, District- Balodabazar–Bhatapara (Chhattisgarh). The Latitude and Longitude of the site are 21°39´ N to 21°40´ N and 82° 05´ E to 82° 07´ E. The proposal was considered by the Expert Appraisal Committee in its meeting held during 24-26th November, 2010 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/274/ 2010-IA.II(M) dated 28th March, 2011 and 30th August, 2011. The proponent submitted their EIA/EMP to the Ministry for seeking environmental clearance on 25th March, 2013.

The mine lease area is 251.527 ha, which is non forest land. The Mining plan is approved by IBM vide Letter No. 314(3)/2008-MCCM(CZ)/MP -24 dated 18th December, 2008. It is reported by the Project Proponent (PP) that the mine working will be by Mechanized Opencast Method, utilizing heavy earth moving machines and with deep hole drilling and controlled blasting techniques, with proper benching of deposit to exploit the available limestone reserves. Bench Height is 8 m to 10 m, Width – more than 30 m (working bench), Stripping ratio (t:m³) - 1:0.14. It is reported by the PP that Total Geological Reserves are about

120.23 million tonne. Total reserves under Proved Mineral Reserves are about 96.01 million tonnes. Life of the mine is 19 years.

The total quantity of overburden is 9.22 Mm³. During initial five years it is proposed to dump all OB in the form of embankment along lease boundary. Interburden amounting to 13.09 Mm³ will be stacked as a dump in the North-Western area of the lease. The dump will be spread over an area of 8.05 ha and will have height of 14 m to 15 m. The interburden / waste material in stacks will be analyzed to find out, if it can be blended with limestone being dispatched to cement plant. The balance material will be backfilled. Mineral Rejects are estimated at 9.36 MT.

The water requirement is estimated as 215 KLD, Water will be sourced initially from ground water and later, on development of mine sump, water requirement will be fulfilled from both ground water and water accumulated in mine sump. Permission for drawl of ground water has been obtained from CGWA (combined for Kukurdih mine and proposed new cement plant near Kukurdih mine) vide their letter no. 21 – 4(57)/NCCR/CGWA/2009-540 dated 4.09.2009.

Mine Working will intersect the ground water table. Detailed Hydrogeological study has been carried out for the project. Prior permission for the same will be obtained from the concern Govt Authority. Limestone will be crushed within mining lease area (crusher will be installed within mining lease area) and transported to fulfil the limestone requirement for the new Cement Plant and existing operating plants at Rawan Cement Works and Hirmi Cement Works of M/s UltraTech Cement Ltd.

It was reported by the PP that the no Ecological Sensitive Areas (National Park, Wild Life Sanctuaries, Tiger Resaves, Elephant Corridors, Biosphere Reserves etc within 10 km radius from mining lease boundary. Dabadih Reserved Forest is at a distance of ~2.5 km South; Mohtara reserved forest at ~8.5 km NE and Sonbarsa & Latwa Reserved Forest is at ~5.5 km NE.

Baseline studies were carried out during winter season 2011-2012. All the parameters for water and air quality were within permissible limits. The Public Hearing for the Proposed Project was conducted at Piprahi Village on 30.11.2012. The PH was chaired by Shri M. Kalyani, Addl. District Magistrate, District Balodabazar – Bhatapara. 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 considered and discussed during the meeting, which infrastructure facility i.e. ITI, Medical & Engineering College for education along with electricity, drinking water, road etc. will be provided by the project proponent, employment will be given to local people as per their qualification and proper training will also be given. Air pollution control measures will be adopted, raising of plantation, sprinkling of water etc will also be done. 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. It was reported by the PP that there is no court case/litigation pending against the project and no violation.

The cost of the project is Rs 150 crore. Cost for EMP: Capital Cost – 1.5 crore and recurring cost for EMP Rs. 10 Lakh/annum. It was suggested by the Committee that plantation of green belt should be based on the requirement of local people and native species should be selected for plantation and a detailed list of endemic species shall be provided in the EIA Report.

The Committee had sought the following information in the meeting held during May 15-17th 2013:

- i. The Annexures mentioned in the list in EIA report were not enclosed.
- ii. Mine plan is in the name of M/s Grasim Industries Ltd instead of M/s Ultra Tech Cement Ltd.
- iii. Coordinates of mine plan and EIA report are not consistent.
- iv. Chapter 11 states that no R&R plan is applicable whereas the lease area involves, around 224 land owners to be affected. Details to be submitted as per point 9 of TOR along with sample survey.
- v. The EIA report submitted to Ministry and that circulated to the EAC members were different.
- vi. Cumulative impact of water availability in the area shall be obtained from Central Ground Water Authority.

On submission of information the proposal was placed in the present meeting. The PP submitted the annexure mentioned in EIA report. It was informed by the PP that lease deed for Kukurdih Limestone Mine has been executed in the name of UltraTech Cement Limited on 4th November 2010, the mine plan was prepared in year 2008 before execution of lease deed. Procedure for change of name (for Mining Plan approval) from Grasim Industries Ltd. to UltraTech Cement Limited is under process with IBM, Nagpur.

PP informed that correct Coordinates of the mining lease area given in the Approved Mining Plan are Latitude: 21°39´ N to 21°40´ N and Longitude: 82° 05´ E to 82° 07´ E. The detailed action plan for R&R was prepared for the project and submitted. PP informed that a request letter to CGWA, New Delhi has been submitted for cumulative impact of water availability in the area as per discussion held during final technical presentation however no response have been received till now from CGWA regarding the same.

Based on the presentation made and discussions held, the Committee observed that additional information on status of NOC for grazing land by the

concerned Panchayat and alternate road proposal for the people of the area in lieu of existing road inside the lease area is needed. The Committee decided to **defer the proposal** to be brought back to the Committee after the above information is submitted.

(2.8). Manganese Ore Mining of M/s Aditya Minerals Private Ltd. Distt. Adilabad Andhra Pradesh (89.01ha) (Manganese Ore 11273.8 TPA) (Consultant: TEAM LABS and consultants, Hyderabad) re-consideration Environmental Clearance.

The proposal is for Manganese Ore production of 10,000 TPA by Aditya Minerals Pvt. Ltd. located at Sy. No: 85, 90, 91, 93, 94, 109, 110 to 115 & 133 of Pimparikunta Village, Tamsi Mandal & Sy. No: 100 to 103 & 112 to 114 of Guda Village, Jainath Mandal, Adilabad District, Andhra Pradesh. The Longitude and Latitude of the ML area is 78° 28' 07" E to 78° 29' 47" E and 19° 47' 55" N to 19° 45' 40" N respectively.

The proposal was considered by the Expert Appraisal Committee (EAC) for mining projects during its meeting held on September 28-30, 2010 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/232/2010-IA.II (M) dated 25th October, 2010. The proponent submitted its application to the Ministry on 24th March, 2012 for seeking environmental clearance after conducting the Public Hearing. The proposal was earlier placed in 30th EAC meeting held during 29th-31st August 2012 wherein the proposal was deferred as the Project Proponent did not attend the meeting.

The project proponent made a presentation with regard to compliance of TOR for mining of Manganese Ore with a capacity of 10,000 TPA. It is reported by the Project Proponent (PP) that the mine lease area is 89.01 ha, which is a plain patta land. Scheme of mining (including progressive mine closer plan) is approved by IBM vide Letter No. AP/ADB/MP/Mn-19/HYD dated 23.08.2010. It is a plain patta land, no forest land is involved in the mine lease area. Lease deed was obtained from the Department of Mines and Geology, Govt. of Andhra Pradesh vide proceeds. No. 2644/M/2004 dated 13.07.2009. The Project Proponent has further informed that this proposal is for a renewal of mining lease. The mine was earlier operating since 1970 and then closed since 2009 as mine lease fell due in 2009. It is reported by the PP that Total Geological Reserves are about 1,47,374 Tonnes with average grade of 24-33%.

It is reported by the Project Proponent that the method of mining will be by open cast method, top soil cover will be removed by manual means. The upper limestone bed, which overlies the manganese horizon will be removed after blasting. Depth of mining is restricted to 5.5m BGL and the ground water level in this area is 50m BGL, hence mining activity will not intersect ground water table.

Life of the mine is 15 years. The water requirement is estimated as 12 KLD, which will be obtained from nearby villages through tankers. The waste generation will be 2,34,059 m³ (soil-15,658 m³+Lime stone-2,18,401m³) during scheme period, area earmarked for over burden/ waste dump is 2.64ha and area proposed for top soil storage is 0.2 ha. The waste generated will be progressively backfilled in the working pits. The reclaimed land will be covered with top soil and grass will be grown to avoid erosion of land. For transportation of material temporary road of length 630m and width 3m is proposed from material storing place to the existing village road.

It was reported by the PP that there are no Wild Life Sanctuary/Tiger Reserve/National Park within 10km radius of the ML area. Arli Reserve Forest is located at a distance of 6.5km in NW direction and Tamsi Reserve Forest located at a distance of 7.72km in West direction. Penganga River is flowing at a distance of 3.0km in North direction, Andhra Pradesh and Maharashtra state boundary is located at a distance of 3.0km in North direction. Baseline studies were carried out during post monsoon season of 2010. All the parameters for water and air quality were reported to be within permissible limits.

The Public Hearing for the proposed project was conducted at Pimparikunta Village on 17.08.2011. The PH was chaired by Dr. A. Ashok, IAS, Collector & District Magistrate, Adilabad. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia, included that there should not be any asthma, TB cases among the mine workers nor any fatalities in the mine pits, nor should any effluent be discharged from the mine lease area. Air pollution control measures should be adopted (by sprinkling of water etc.), plantation should be raised, rainwater harvesting measures should be undertaken etc. As per the villager's requirements, it was informed by the PP that they would give preference to local employment; health issues, providing education, participation in development of village road and assistance in vocational training etc. These have been incorporated in the Project Action Plan with budgetary provisions.

The cost of the project is Rs. 20.0 Lakhs and cost proposed for environmental protection measures is Rs. 17 Lakhs and Recurring cost is Rs. 5.5 Lakhs. Fund allocated for CSR is Rs. 5.9 Lakhs. It was reported by the PP that there is no court case/litigation pending against the project.

The Committee had sought following information in the meeting held during June 26-28th 2013:

- (i) Though Schedule-I species are found, no Conservation Plan has been prepared. In this context, an authentic list of Schedule I species should be provided and a Conservation Plan with Species specific habitats and conservation measures should be prepared in consultation with the Forest

Department of State Govt. and submitted.

- (ii) Questionnaire containing all details need to be submitted.
- (iii) Detailed Action plan on notarized affidavit should be provided with budgetary provision on public health, education, air & water pollution and other issues raised during the public hearing.
- (iv) Detailed Action plan on notarized affidavit should be provided with budgetary provisions for socio-economic development of the local Communities.
- (v) Supporting Details of the provisions made towards Project Cost and Cost of EMP (capital and recurring cost) including PH commitments and CSR should be furnished in a Tabular form.

On submission of information the proposal was placed in the present meeting. The PP submitted revised questionnaire, detailed Action plan with budgetary provision on public health, education, air & water pollution and other issues raised during the public hearing and socio-economic development of the local Communities. The fund allocation for CSR activities was increased from 2 lakhs to 5.9 lakhs per annum.

Based on the information submitted, presentation made by the project proponent and discussions held, the Committee was of the view an authentic list of Schedule I species should be provided and a Conservation Plan with Species specific habitats and conservation measures including community sensitization programme for conservation of such species should be prepared in consultation with the Forest Department of State Govt. and submitted. The Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid information is submitted.

(2.9). Colour Granite Mine of M/s Madhucon Granite Ltd., located at Vill. meliputti mandal, distt. Srikakulam, Andhra Pradesh (10.00ha) (3011 M3/annum) (Consultant: Sri Sai Manasa Nature Tech (P) Limited, Hyderabad)-TOR

The Mine Lease area is located at Surjini Village, Meliputti Mandal, Srikakulam District (10.00 ha), Andhra Pradesh. The Mine Lease area is located near N 18°46'52.27" to E 84°14'05.14". The Project is located in Seismic Zone – III. It is 'A' category project as the site is located within 10 km radius i.e. Andhra Pradesh – Orissa State boundary – 1.13 km. it was reported by PP that no eco-sensitive zone areas are located near the mine lease.

The proposed project is opencast semi-mechanized for extracting of colour Granite by developing benches of 6m height. It has been proposed to produce approximately 3011 m³/ annum of Colour Granite. The granite waste of 12,019.2 m³/ annum will be generated. It is reported that the waste will be backfilled into the mined out pit at the end of the mining. Total water requirement for the mining

lease area is 7 KLD. About 3 KLD will be required for dust suppression purpose and 1 KLD for greenbelt and about 3 KLD for domestic purpose. This water will be supplied from bore wells of the nearby area. The Director of Mines and Geology, Hyderabad has granted the quarry lease under vide Proceedings No: 37219/ R-1 /2005 dated 07-03-2007. The Assistant Director of Mines and Geology, Tekkali executed the lease for a period of 20 Years from 05-05-2007 to 04-05-2027 vide Proceedings No: 2239/Q/2005 dated 05-05-2007.

It is reported by the project proponent that there is no court case/litigation pending against the project. The estimated cost of the project is Rs. 40 Lakhs. It was noted that this is a **violation case** as the mine operated from 2007 to 2012 without obtaining prior environmental clearance. 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 that EIA/EMP report should reflect on mandatory use of personnel protecting devices like foot ware, goggles and hand gloves etc.

(2.10). Karlapudi Silica Sand Mine of M/s. Yashpal Mendon located at village Karlapudi, Kota Tehsil, Distt. Nellore, Andhra Pradesh. (11.797 ha) (Capacity 0.25 Lakh MT/Year) (Consultant: Perfact Enviro Solutions Pvt Ltd.) –TOR

The Committee noted that this is a Category 'B' project and was of the view that the proposal shall be submitted to SEIAA, Andhra Pradesh. Therefore Committee **did not consider** the proposal.

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

The Mine Lease area is located at Sy. No.24 of Savarampuram Village, Nandigam Mandal, Srikakulam District, Andhra Pradesh (9.00 ha). The Mine Lease area is located near 18° 43' 14.9" N to 84° 16' 39.68" E. The Project is located in Seismic Zone – III. It is 'A' category project as the site is located within 10 km radius i.e. Andhra Pradesh – Orissa State boundary – 6.0 km. It was reported by PP that no eco-sensitive zone areas are located near the mine lease.

The proposed project is for open cast mining with semi-mechanized for extracting of Colour Granite by developing benches of 6m height. It has been proposed to produce approximately 3,472 m³/ annum of Colour Granite and granite waste of 2,314 m³/ annum. It is reported that the waste will be backfilled into the mined out pit at the end of the mining.

The Director of Mines and Geology, Hyderabad has granted the quarry lease

under vide Notice No: 1588/ R1-1 /2012 dated 01-04-2014. Total water requirement for the mining lease area is 4.5 KLD. About 1.5 KLD will be required for dust suppression purpose and 1.0 KLD for greenbelt and about 2.0 KLD for domestic purpose. This water will be supplied from bore wells/ tankers of the nearby area. It is reported by the project proponent that there is no court case/litigation pending against the project. The estimated cost of the project is Rs. 35 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) Certificate from State Government that the mine lease area is non-forest land; and (ii) The EIA/EMP report should reflect on mandatory use of personnel protecting devices like foot ware, goggles and hand gloves etc.

(2.12). Lime Stone Mine of M/s My Home Industries Ltd. located at Choutapalli village, mattampalli Mandal, Naalgonda District, Andhra Pradesh. (156.58 Ha.) (Capacity 2.72 MTPA) (B.S. Envi-TECH(P) Ltd.) -TOR

Choutapalli Limestone Mine Lease is located at Choutapalli & Mellacheruvu Villages, Mattampalli & Mellacheruvu Mandals, Nalgonda district of Andhra Pradesh. The Mine site falls between 16° 46'36.1"- 16° 47'40.00" N, Latitude and 79° 53' 49.00"- 79° 54' 27.4" E Longitude. Mechanized method of mining will be adopted. The limestone produced will be crushed in the mine and transported to cement plant by conveyor. It was reported by PP that no eco-sensitive zone areas are located near the mine lease. No court case/litigation is pending against the project. The estimated cost of the project is Rs. 10 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) Justification as to why new mine proposal should be considered as three existing mines are already operating in the area, and (ii) information on silt load in Krishna river and reduction in river flow including the stream adjoining mining areas due to mining operations.

(2.13). Sand Mining Project of on Banganga river bed (6.78ha) of M/s Krishna Kumar Jaiswal with production capacity of 65,000TPA at village Komar, Tehsil Shoharatgarh, District Siddhartha Nagar, State Uttar Pradesh (Consultant: Grass Roots Research & Creation India (P) Ltd.) – reconsideration of TOR

The proposed Project of 6.78 ha area is of river bed sand mining and falls under Category- "A" as per EIA Notification 2006 of the Ministry of Environment and Forests, New Delhi, due to the presence of India-Nepal International Border within 10 km of the lease area. The mining lease area is located in Village Komar, Tehsil Shohratgarh, District Sidhartha Nagar, Uttar Pradesh. There will be no change in the land use. The proposed Project activity will be carried out in the bed

of the Ban-Ganga River between Latitude: 27° 26' 16.50"N to 27° 26' 11.87" N and Longitude: 82° 55' 38.92" E to 82° 56' 5.00" E. The mining is confined to extraction of sand from the river bed. The operation will be manual in which the material will be collected in its existing form.

Mining will be carried out only during the day time. Extraction of material will be done depending upon the sedimentation rate i.e. production capacity will not exceed the replenishment capacity. In the proposed Project there is no need of water to carry out operations. The water requirement for drinking and for dust suppression will be around 1 KLD. This water will be supplied from the nearby village by tankers. The estimated cost of Project would be around Rs. 16 lakhs.

The proposal was earlier considered in EAC meeting held during February 20-22nd, 2013. It was noted by the EAC that earlier Proposal for in-stream mining are under consideration by the Ministry, Committee cannot consider this Proposal, however this Proposal being both off-stream (3.75 ha) and in-stream (2.25 ha) Committee recommended the Proposal for off-stream mining only, subject to submission of revised Form-I, specifying the off-stream mine lease area. However, the revised Form-I was not submitted by the PP in time. On submission of revised Form-I proposal was considered in present meeting. Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs of for off-stream (3.75 ha) in the mine lease area of 6.78 ha 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.

(2.14). Sivaganga Graphite Mine with production capacity of 60,000 TPA of Graphite by M/s Tamil Nadu Minerals Ltd., located at Village Kumarapatti, Senthidayanathapuram&Pudupatti, Sivaganga Taluk, Distt. Sivaganga, Tamil Nadu (236.85ha) (Consultant: Creative Engineers & Consultants)-EC

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

(2.15).Nandana Bauxite Mine with enhancement of production from 30,500 TPA to 1,28,147 TPA of Bauxite by M/s Orient Abrasives Ltd., located at Village Nandana, Taluka-Kalyanpur, District Jamnagar, Gujarat (50.83ha) (Consultant: Kadam Consultant)-EC

The proposal is for enhancement of production capacity of bauxite from 30,500 TPA to 1,28,147 TPA. The mine lease area is located in Village Nandana, Taluka-Kalyanpur, District Jamnagar, Gujarat. The Latitude and Longitude

of the mine lease area 22°9'36.0" N and 69°16'31.0" E respectively is near the lease hold on toposheet no. 41/F/8.

The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during 28th–30th September, 2010 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by the Ministry vide letter no. J-11015/255/2010.IA.II (M) dated 26.10.2010. The proposal for validity of TORs was considered during the 4th EAC meeting held during February 20-22, 2013. Ministry has extended the validity of TOR up to 25.10.2013.

The total mining lease area is 50.83ha and is designated as Government waste land. No grazing land is involved. No forest land is involved. The Scheme of Mining along with progressive mine closure plan has been approved by Indian Bureau of Mines, Udaipur, vide letter no. 682(23)MS-370/2006 MCCM (N) UDP dated 04.04.2012. The mineable reserves are 31,94,473 Metric tonnes and Life of mine is 25 years. Proponent informed that Marine National Park and Sanctuary is located at a distance of 12.00 km from the mine lease. Distance certificate has been issued by Deputy Conservator of Forests, Marine National Park, Jamnagar dated 09.02.2009. Gaga Bird Sanctuary is located at a distance of 10.10 km from the mine lease and distance certificate for the same has been issued by Deputy Conservator of Forests, Marine National Park, Jamnagar dated 23.05.2013. No other National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors or Tiger/ Elephant Reserves are located within 10 km of the mine lease boundary.

Mining will be semi-mechanized opencast method. The mining process involves drilling & blasting, loading and transportation of the excavated material. The proposed drilling will be done by digging holes of 1.5 m depth and carried out by using Jack hammer Drill. Overall pit slope will be 70°. The excavated material will be loaded in trucks and transported to Company's Abrasive plant located at Porbandar in Gujarat State. It was reported by the Proponent that Ground water will not be intersected during scheme period. The total water requirement for the project will be 19.81 KLD which is sourced by tankers from dugwell / tube well of M/s Hardasbhai Karshanbhai Ambaliya and from water stored in mined out pits. Waste water will be disposed of through soak pits.

Only one Schedule-I species was reported within buffer zone. The species specific Conservation plan has been prepared. The Committee discussed the conservation plan and noted the steps stated in the Conservation plan to protect the scheduled species.

The baseline data was generated for the period during mid -March 2011- mid -June 2011. The parameters for water and air quality were within permissible limits. The Committee noted that the ambient air quality monitoring was done from mid-March to mid-June 2011(i.e. entering the Monsoon Season). The committee deliberated the issue and was of the view that Proponent shall monitor the baseline data for one more month during summer season at all the locations to validate the earlier base line data.

The Public hearing was held on 04.10.2013 under the chairmanship of Shri D.P. Joshi, Collector and District Magistrate, Devbhumi Dwarka. The representative of the Gujarat Pollution Control Board was present. Major issues raised during public hearing were related to backfilling, blasting, employment, provision of drinking water, saline water, repair and maintenance of road and CSR activities.

The total capital cost of the project is Rs. 31.83 Lakhs. The Proponent has earmarked Rs. 28.56 Lakhs towards Environmental Protection Measures and Rs. 3.3 Lakh per annum towards recurring expenses. Proponent informed that Rs. 7.00 Lakhs/year have been earmarked towards CSR activities.

The Committee observed that it is a violation case as the mine has enhanced the production without obtaining requisite prior environmental clearance. The case has been filed in the Court of Judicial Magistrate Kalyanpur to take cognizance of offence under section 15 of the Environment (Protection) Act, 1986. The Proponent vide letter dated 09.02.2013 has stated that such violations of Environment (Protection) Act, 1986 will not be repeated in the future, the same has been taken on record.

Based on the presentation made and discussions held, the Committee noted following: -

- (i) The Committee noted that as per ToRs, the proposal is for enhancement of production from 30,500 to 1,28,385 TPA and method of mining is stated to be manual. However, EIA/EMP and Public Hearing Reports submitted to the Committee state that method of mining is proposed to be semi mechanized for enhancement of production from 30,500 to 1,28,147 TPA. In this context, Proponent needs to submit a clarification;
- (ii) Marine National Park and Sanctuary is located at a distance of 12.00 km from the mine lease. Distance certificate from Chief Wild Life Warden needs to be provided;
- (iii) The baseline data was generated for the period during mid -March 2011- mid -June 2011. The parameters for water and air quality were within permissible limits. The Committee noted that the ambient air quality monitoring was done from mid-March to mid-June 2011. The Committee deliberated the issue and was of the view that Proponent shall monitor the baseline data for one month during summer season at all the locations; Reasons for high pH and dust level have to be elaborated; Ground water data for an average of 20 years to be submitted along with analysis report for TDS of ground water and surface water;
- (iv) PP needs to submit map demarcating distance of mine lease (buffer boundary) from eco sensitive zone and Gaga Bird Sanctuary;

- (v) Details on the impact of blasting relating to wildlife needs to be submitted;
- (vi) Details of schedule of occupational health and safety measures of the mine workers needs to be submit; and
- (vii) Revised questionnaire needs to be submitted as for most of the points no specific information has been filled up.

The Committee was of the view that a report from the State Govt./State Pollution Control Board on the need of conducting regional study w.r.t. impact of other mines located within the study area may be submitted.

The Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid information is submitted in the form of an Addendum to the EIA/EMP Report.

(2.16). Amtipani Bauxite Mine with production capacity of 1,22,535 TPA of Bauxite by M/s Rajhans Refractories Ltd., located at village-Amtipani, Taluka-Bishunpur, District-Gumla, Jharkhand (64.62ha) (Consultant: Grass Root Research & Creation India Pvt. Ltd, Noida, U.P.)-EC

The proposal is for bauxite mining with production capacity 1,22,535 TPA. The mine lease area is located near Village-Amtipani, Tehsil-Bishunpur, District-Gumla, Jharkhand. The Latitudes and Longitudes of the mine lease area are 23° 20' 38.24" N to 23° 21' 23.95" N and 84° 15' 34" E to 84° 16' 0.98" E respectively on toposheet no. 73A/7.

The proposal was considered by the Expert Appraisal Committee in its meeting held during February 21-23, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by the Ministry vide letter no. J-11015/246/2011.IA.II (M), dated 26.06.2012. The Proponent submitted the EIA/EMP report 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 bauxite with a capacity of 1,22,535 TPA.

The total mining lease area is 64.62 ha. Out of this, 41.85 ha is Forest land (Jungle Jhari), 2.04ha is waste land and 20.72ha is Raiyati land. The mining lease was granted over an area of 64.62 ha in favour of M/s Rajhans Refractories Ltd. on 23.03.1985 for a period of 20 years. The Mining plan along with progressive mine closure plan has been approved by the Indian Bureau of Mines, vide letter no. RAN/GML/BX/MP-01/2012-2013, dated 21stSeptember 2012. Proponent has reported that 10.03ha area will be used for excavation, 0.095ha for overburden/dumps, 0.076ha for infrastructure development, 1.48ha for road,

1.04ha for Green belt development and 51.899ha area will be the undisturbed area. The mineable reserves are 7,40,594 tonnes and Life of mine is 6 years.

Mining is by fully mechanized opencast method. The mining process involves drilling and blasting, loading and transportation of the excavated material. Bauxite drilling will be done by Jack hammers and blasting. The wagon drills will be operated with compressed air supplied by air compressor. Blasted material after proper sizing, will be transported by using dumpers. Overall pit slope will be 37°. As per approved mine plan, total waste generation will be 4,38,313 tonnes at the end of the life of the mine. Proponent reported that ground water will not be intersected during mining scheme period. The total water requirement for the project will be 16.5 KLD which will be sourced from the nearby villages. The Gram panchayat NOC has been obtained for the use of water from the nearby villages.

There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant Reserves etc. within the study area (10 km radius of the mining lease boundary). There are three Reserved Forests & eleven Protected Forests within the study area. Three Schedules-I species namely Indian Pangolin, Sloth Bear and Indian Peafowl were reported within buffer zone. The species specific Conservation Plan has been prepared and submitted to Divisional Forest Officer, Gumla. The Committee discussed the Conservation Plan and noted the steps in the Conservation Plan to protect the scheduled species are not adequate.

The Baseline data was generated for the period during March 2012 to May 2012. The Committee deliberated on the Baseline data and noted that all the parameters for water and air quality and other environment parameters were within permissible limits.

The Public hearing was held on 06.07.2013 under the Chairmanship of Smt. Cristina Hansda, Addl. District Collector of Gumla at Village Amtipani, Tehsil Bishunpur in District-Gumla (Jharkhand). The representative of Regional Office from the Jharkhand State Pollution Control Board was present. Major issues raised during public hearing were related to employment, water availability and compensation of land. The Committee discussed the Action Plan which is prepared by the Proponent for the issues raised during the Public Hearing.

The Committee had observed that it is violation case as the mine has operated after it fell due for renewal and production from the mine was enhanced after EIA Notification, 1994 coming into force without obtaining requisite prior environmental clearance. The mine is reported to be closed since April 2011. The case has been filed in the Court of Chief Judicial Magistrate Gumla on 28.11.2013 vide Case No.C.II.35/2013 to take cognizance of offence under section 15 of the Environment (Protection) Act, 1986 which has been committed by the offending project. The affidavit of Proponent dated 10.04.2012, stating that such violations of

Environment (Protection) Act, 1986 will not be repeated in the future, has been taken on record.

The total cost of the project is Rs. 320 lakhs. The Proponent has earmarked Rs. 4.6 lakhs towards Environmental Protection Measures as a capital cost and Rs. 6.2 Lakhs per annum towards recurring expenses.

After deliberations, the Committee sought the following additional information:

- (i) Details of R&R issues w.r.t. land compensation; Information about the land to be acquired from the tribal community;
- (ii) Details of status of Stage-I Forestry clearance;
- (iii) Revised species specific wild life conservation plan to protect the scheduled species should have information on allocation of budget, time frame and agencies to be responsible for the implementation for each of the target species. The conservation plan should be duly authenticated by Wild life specialist;
- (iv) Source of secondary data of flora and fauna and details of the Expert and authentication by accredited expert;
- (v) CSR plan after proper surveys of the local areas and skill development programs; and
- (vi) DGPS coordinates of the mining lease area.

The Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid information is submitted in the form of an Addendum to the EIA/EMP Report.

(2.17). Lupungpat Bauxite mine with production capacity to 3,33,936 TPA of Bauxite by M/s Mahendra Prasad Mithal, located at village Lupungpat, TalukChainpur, District-Gumla, Jharkhand (62.161ha) (Consultant: Grass Root Research & Creation India Pvt. Ltd, Noida, U.P.)-EC

The proposal is for bauxite mining with production capacity 3,33,936 TPA. The mine lease area is located near Village-Lupungpat, Tehsil-Chainpur, District-Gumla, Jharkhand. The Latitudes and Longitudes of the mine lease area are 23° 13' 13" to 23° 13' 43.2" N and 84° 15' 42.5" to 84° 15' 52.9" E respectively on toposheet no. 73A/8.

The proposal was considered by the Expert Appraisal Committee in its meeting held during December 22-23, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by the Ministry vide letter no. J- 11015/229/2011.IA.II (M), dated 28.03.2012. The Proponent submitted the EIA/EMP report 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 bauxite with a capacity of 3,33,936 TPA.

The total mining lease area is 62.159 ha. Out of this, 20.808 ha is Forest land (Jungle Jhari), 5.464ha is Waste land, 35.652ha is Raiyati land and 0.235ha is road. The mining lease was granted on 20.01.1990 for a period of 20 years. The renewal of mine lease was applied on 15.01.2009. The Proponent has reported that they had applied to DMO Gumpla on 13.12.2005 for surrender of 20.808ha of Jungle Jhari land. The Mining plan along with progressive mine closure plan has been approved by the Indian Bureau of Mines, Nagpur vide letter no. 314(3)/2011-MCCM (C)/MP-19, dated 07.08.2012. Proponent has reported that 3.18ha area will be used for excavation, 0.16ha for overburden/dumps, 0.40ha for infrastructure, 0.64ha for roads and 57.779ha area will be the undisturbed area which includes 20.808ha of Jungle Jhari. The mineable reserves are 33,48,770 tonnes and Life of mine is 10 years.

Mining is by mechanized opencast method. The mining process involves drilling and blasting, loading and transportation of the excavated material. Bauxite drilling will be done by Jack hammers and blasting. The wagon drills will be operated with compressed air supplied by air compressor. Blasted material after proper sizing, will be transported by using dumpers. Overall pit slope will be 37°. As per approved mine plan, total waste generation will be 25,39,906tonnes at the end of the life of the mine. Proponent reported that ground water will not be intersected during mining scheme period. The total water requirement for the project will be 23 KLD which is sourced from the nearby villages. The Gram Panchyat NOC has been obtained for the use of water from the nearby villages.

There is no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant Reserves etc. exist within the study area (10 km radius of the mining lease boundary). There are 5 Reserved Forests and 6 Protected Forests within the study area. Three Schedules-I species namely Indian Pangolin, Sloth Bear and Indian Peafowl were reported within buffer zone. The species specific Conservation Plan has been prepared and submitted to divisional forest officer, Gumla. The Committee discussed the Conservation Plan and noted the steps in the Conservation Plan to protect the scheduled species are not adequate.

The baseline data was generated for the period during March 2012 to May 2012. The Committee deliberated on the baseline data and found that all the parameters for water and air quality and other environment parameters are within the permissible limits.

The Public hearing was held on 17.07.2013 under the Chairmanship of Mr. Jagjit Singh-Me.So. Officer, Welfare Department, Gumla at Banari High School Village Banari, Tehsil Bishunpur in District Gumla (Jharkhand). The representative of Regional Office from the Jharkhand State Pollution Control Board was present. Major issues raised during public hearing were related to employment, water availability and education & health facilities. The Committee discussed the Action Plan which is prepared by the Proponent for the issues raised during the Public Hearing.

The Committee had observed that it is violation case as the mine has operated after it fell due for renewal and production from the mine was enhanced after EIA Notification, 1994 coming into force without obtaining requisite prior environmental clearance. The mine is reported to be closed since June 2012. The prosecution report has been filed in the Court of Chief Judicial Magistrate Gumla on 28.11.2013 vide Case No.C.II.36/2013 to take cognizance of offence under section 15 of the Environment (Protection) Act, 1986. The Proponent stating that such violations of Environment (Protection) Act, 1986 will not be repeated in the future, has been taken on record.

The total cost of the project is Rs. 1.5 Crores. The Proponent has earmarked Rs. 3.52 lakhs towards Environmental Protection Measures as a capital cost and Rs 5.15 lakhs per annum towards recurring expenses.

The members raised the issues of not receiving the documents from the Project in time due to which members do not get sufficient time for going through the proposal.

After deliberations, the Committee sought the following additional information:

- (i) Revised species specific wild life conservation plan to protect the scheduled species should have information on allocation of budget, time frame and agencies to be responsible for the implementation for each of the target species. The conservation plan should be duly authenticated by Wild life specialist;
- (ii) Water quality status of nearby River should be submitted;
- (iii) A report on probable use of laterite soil cap by other projects;
- (iv) Details of status of surrender of forest lands and copy of mine lease allotment letter; and

- (v) The Public hearing was held on 17.07.2013 under the Chairmanship of Mr. Jagjit Singh-Me.So. Officer, Welfare Department, Gumla. In this context, the Committee was of the view that a confirmation letter of District Magistrate needed to ensure that the Public Hearing was chaired by an ADM rank officer as per EIA Notification 2006.

The Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid information is submitted in the form of an Addendum to the EIA/EMP Report.

(2.18).Amilia Limestone Mine for enhancement of production capacity from 0.1 million TPA to 1.25 million TPA of Limestone (ROM) by M/s KJS Cement Ltd., located at Village Amilia, Tehsil Maihar, District Satna, Madhya Pradesh (217.512ha)(Consultant: Bhagavathi Ana Labs Ltd., Hyderabad)-Reconsideration of EC.

The proposal is for enhancement of production of limestone from 0.1 million TPA to 1.25 million TPA for captive use in their cement plant by M/s KJS Cement Ltd., located at Beldara, Girgita, AmiliaKhurd, Lakhwar, Katia, Tighra&Maihar Villages, Maihar Tehsil, Satna District, Madhya Pradesh. The Latitudes and Longitudes of the site are 24°14'42.1" N to 24°15'47.5" N and 80°48'19.2" N to 80°49'14.7" E.

The proposal was considered by the Expert Appraisal Committee in its meeting held during 28-30th June, 2010 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/175/2010-IA.II(M) dated 30th July, 2010. The proponent submitted its application to the Ministry for seeking environmental clearance after conducting public hearing.

The project was earlier considered in the EAC meeting held during December 19 -21, 2012 wherein the Committee deferred the proposal and sought additional information/ clarifications with regard to R&R details and Ecological status of Tamas River. The project proponent submitted the clarifications to MoEF vide letter dated 07.06.2013. Accordingly the proposal was reconsidered in the 11th Meeting of EAC held during September 25-27, 2013 wherein the Project Proponent could not clarify the issues as sought by the EAC and the Committee deferred the proposal again.

The Amilia Limestone mine is situated at Amilia Village in Maihar Tehsil of Satna District in Madhya Pradesh State. Amilia Limestone mine lease was initially granted to M/s Diwan Lime Co. Pvt. Ltd in the year 1971 by Government of Madhya Pradesh, covering an area of 217.512 ha for 20 years period w.e.f. 01.10.1971 to 30.09.1991. The area was worked as quarry lease before 1971. Thereafter the mining lease was renewed for 10 years i.e. from 01.10.1991 to 30.09.2001. Further the mine lease has been renewed for 20 years i.e. for the period up to 2021. Meanwhile the name of the company changed from Diwan Lime Co. (Pvt) Ltd to KJS cements Pvt. Ltd. on 15.11.2007. The supplementary agreement to this effect was executed on 13.09.2009. The constitution of the company was again

changed from Private Limited to Limited. The mining plan for renewal was approved. The scheme of mining is approved by Indian Bureau of Mines vide letter No. 314(3)/2012-MCCM (CZ)/S-25/248 Nagpur, dated 17/12/2012 for the production of 1.25 million TPA of Limestone.

The Proposal is for enhancement of production of limestone to 1.25 million TPA for captive use in their cement plant. The mine is reported to be closed presently. No forestland is involved. Mine working will be opencast mechanised involved drilling and blasting. Life of mine is 32 years. Ultimate working depth will be 32 m from general surface level (320 m ASML). Mine working will intersect groundwater table. Tamas River passes through the mine lease. Part of the lease area is Government land and partly agricultural land. The major portion of the study area has been covered by agricultural land (386.38 ha). Other land uses include plantations (0.44 ha), vegetation (7.86 ha), settlements (18.20 ha), water body (11.73 ha) and other areas for dumps and colony.

Baseline data was collected during post-monsoon season in 2010. The baseline AAQ during the study period was below the prescribed National Ambient Air Quality standards. The MP PCB had conducted Public Hearing on 18.04.2011. Public hearing was conducted and issues raised by public were addressed by the project proponent with commitment for implementation. The Committee observed that even though there are 133 families with 684 people are within the premises of mine lease area, there is no mention of this issue in EMP report. Even though the Tamas River is flowing through mine lease area, no detailed studies had been carried out for possible pollution impacts.

Based on the presentation made, information furnished and discussions held in the EAC meeting held December 19-21, 2012, the Committee sought additional information on following and decided that the Proposal may be brought back before the Committee for its further consideration after receipt of requisite information:

- (i) R&R details for land oustees with compensation details should be provided; and
- (ii) Detailed ecological studies on Tamas River should be provided.

The Proponent had submitted the information and accordingly, the proposal is considered in the EAC meeting held during September 25-27, 2013 meeting. Based on the presentation made, information furnished and discussions held in the EAC meeting, the Committee was of the view that the details submitted by the PP are not satisfactory. Also, information on number of schools and their distance from the MLA, Community Facility to be provided by the PP, no. of Temples in the vicinity and efforts to be initiated for tribals etc. were found deficient. The Committee sought additional information on following:

- (i) R&R details for land oustees with compensation details; details w.r.t. number of schools and their distance from the MLA, Community Facility to be provided by the PP, number of Temples and other social amenities in the vicinity;

- (ii) Detailed ecological studies on Tamas River should be conducted and report on impacts and their mitigation provided.
- (iii) Details of water management plan as the mining activity is intersecting the ground water table; and
- (iv) Details of time bound action plan for tribal population.

In this context, the Project Proponent vide letter dated 23.11.2013 submitted the above mentioned information and accordingly the proposal is considered in the present meeting. The Committee discussed the R&R details, ecological studies on Tamas River, water management plan, and action plan for tribal population.

Based on the information submitted by the Proponent and discussion held in the meeting, the Committee **recommended** the proposal for environmental clearance for enhancement of production from 0.1 million TPA to 1.25 million TPA of limestone with additional specific conditions (i) Implementation of re-habilitation plan of Amila and MadiyanTola habitat within 5 years and reports submitted to the Regional Office of MoEF, (ii) No mining activity within 500 meters of habitation, (iii) A safety barrier of 60 m or as notified by the State will be left along both the banks of the River within the mine lease area, (iv) Periodic monitoring of Water Quality of Tamas River and to submit report, (v) Implementation of Action Plan on the issues raised during the Public Hearing; (vi) Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. Occupational health and safety measures for workers who are having some ailments like BP, diabetes, or are habitual smokers, should have health check-up once in six months and (vii) stratified layer system of plantation to be adopted in consultation with the State Govt., which would effectively mitigate the additional dust, sound and vibration.

(2.19).Sosopi iron ore mine with production capacity of 0.60 million TPA of Iron Ore by M/s Khushal Arjun Rathore, located at village Sosopi hamlet, Singhbhum West, Jharkhand (31.984 ha) (Consultant: Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar)-Reconsideration of EC

The proposal is for open cast Sosopi iron ore Mines with 0.60 million TPA of iron ore by M/s KhushalArjunRathore. The mine is located at village-Sosopi Hamlet, Noamundi Protected Forest, Block-40, Chaibasa South Division, Singhbhum West, Jharkhand. The latitudes and longitudes of the site are 22^o 08' 55.73" to 22^o 09' 15.56" N and 85^o 27' 50.55" to 85^o 28' 10.65" E on toposheet No is 73 F/. It is category 'A' project as the mine is located near the interstate boundary of Jharkhand and Orissa States.

The proposal was considered by the Expert Appraisal Committee in its meeting held during August 18-20, 2008 to determine the terms of reference (TOR) for under taking detailed EIA study. The TORs were issued by the MoEF vide letter no.J-11015/1112/2007-IA.II (M) dated 23.09.2008. The additional TOR was considered by the Expert Appraisal Committee in its meeting held during May 24-26, 2010 wherein the Committee reiterated earlier TORs with few additional ones. These TORs were prescribed vide MoEF letter dated 22.06.2010. After conducting the Public Hearing the proponent submitted its Application for seeking environmental clearance on 5th April 2013.

The project was earlier considered in the EAC meeting held during June 26-28, 2013 wherein the Committee deferred the proposal and sought additional information/ clarifications with regard to list of Schedule I species, details of local species of Fauna to be used for green belt, Base line data, status of other operating mines in the buffer zone and details of their cumulative environmental impacts. The project proponent submitted the clarifications to MoEF vide letter dated 21.11.2013. Accordingly the proposal was reconsidered in the present meeting.

The Project Proponent (PP) made a presentation with regard to compliance of TOR for mining of iron ore with a capacity 0.60 million TPA. The mine lease area is 31.984 ha, which is a forest land. The present Scheme of Mining was approved by IBM vide letter No. 314(3)/2012-MCCM(C)/MP-44 dated 22.05.2013. Proponent reported that the Forest Diversion Proposal of 9.687 Ha (broken area) is under consideration at State Appraisal Committee, Ranchi, Jharkhand. It is also reported that the mine is closed since 1999.

The mine working will be open cast fully mechanised using excavator, JCB loader, drilling machine, associated compressor, dumpers & auxiliary equipment. During this five year plan period, total three quarries are proposed to be developed. Height and width of the bench are proposed to be kept at 6m & 10m. The slope of the benches would be kept at 31°. The excavation & stacking will be done by mechanical means. The iron ore will transported to the crusher site at Barajamda located 8 Kms from the mine. All the iron ore shall be treated in the crusher. Further, there is a proposal to establish a Crushing & Screening Unit in the lease area. The geological reserves estimated in the recommended broken up area is about 9.18 million tonnes and the mineable reserves are estimated @ 5.43 Million Tonnes. The anticipated life of the mine will be 9 years.

The water requirement for this project (Mining, dust suppression, green belt development and domestic use) is 60m³/day. The water requirement will be met from KandeNalla and the approval has been sought. There will be no ground water intersection as the ground water table is at 435m AMSL & ultimate working depth will be 468m AMSL.

It was reported by the Proponent that Karo Karampada Elephant Corridor is beyond 10 Km from the project site. The ML area however falls within the Singhbhum Elephant Reserve. As the project is located in West Singhbhum District, an identified severely polluted area, comments of SPCB were sought, which was received vide letter no. G-2247, dated 24.06.2013 wherein it was reported that all the parameters of ambient air, noise level have been found to be within the prescribed limits. This was duly taken on record and considered by the Committee. In accordance with the TORs issued by MoEF, the Baseline studies were carried out during March-May 2009. All the parameters of water and air quality were reported to be within permissible limits.

The Public Hearing was conducted under the Chairmanship of Sri Vishnu Kumar DDC cum ADC, Chaibasa, West Singhbhum, on 19.04.2011 at Sosopi Village- Hamlet, near Sosopi Iron Ore Mines, P.O. and P.S.-Noamundi, and the representatives of Jharkhand State Pollution Control Board were also present. The issues raised in the Public Hearing were local employment, health concerns, education facilities, air & water pollution control measures, provision of drinking water, infrastructure development & assistance in vocational training for self-employment etc. These issues were considered and discussed during the aforesaid meeting. The Project Proponent has included the issues raised during Public Hearing in the Action Plan with budgetary provisions.

It was reported by the project proponent that the Wild Life conservation and management plan was submitted to the PCCF, Ranchi on 19.06.2013. The total cost of proposed wild life conservation is Rs 67.70 lakhs, this is the contribution towards comprehensive wildlife management plan which is being prepared by the State Govt. of Jharkhand.

The cost of the project is Rs 3.0 Crores. The capital investment towards Environmental Protection Measures is Rs 13.27 lakhs and the corresponding annual revenue budget for the same is Rs. 5.30 lakhs. The budgetary provision for meeting the CSR needs is Rs. 24 crores for the next 10 year period, covering the surrounding 10 kms area. It was reported by the project proponent that there is no court case/litigation pending against the project.

The Committee had sought the following information/clarifications in its meeting held during June 26-28, 2013 and deferred the proposal:

- (i) Details regarding the endangered/endemic species from the State Government and the list of Schedule I species in the core and buffer zone area;
- (ii) Details of local species of Fauna to be used for green belt;

- (iii) An undertaking to make a bridge on Kande Nala for transportation of mineral ore and to take protective measures for the Nala;
- (iv) Clarification regarding the Base line data as collected and as shared during the Public Hearing and also regarding the stations for the study and monitoring;
- (v) Status of other operating mines in the buffer zone and details of their cumulative environmental impacts;
- (vi) A note on the required Hydro Geological features of the study area and details about rain water harvesting scheme;

The project proponent vide letter dated 21.11.2013 has submitted information/clarifications to Ministry with regard to details of endangered/endemic species, list of Schedule-I species, details of local species of Fauna to be used for green belt, undertaken to make a bridge on Kande Nala for transportation of mineral ore, clarification regarding the baseline data as collected and as shared during the Public Hearing and also regarding the stations for the study and monitoring, status of other operating mines in the buffer zone and details of their cumulative environmental impacts, and a note on the required Hydro Geological features of the study area and details about rain water harvesting scheme.

The Committee discussed the issues and after deliberations, the Committee sought the following additional information:

- (i) Revised species specific wildlife conservation plan to protect the scheduled species and to be vetted by the subject area Expert;
- (ii) The Committee noted that it is a **violation case** as the PP has increased the production of iron ore from 48 MT in 1993 to 2318 MT in 1995, 2700 MT in 1996, 821 MT in 1997 and 550 MT in 1998 without prior environmental clearance. The Committee was of the view that the actions on violation may be taken as per existing Rules.
- (iii) To submit the maps which has to be obtained from the Department of Mines, State Govt. and DFO for the status of other operating mines in the buffer zone to ascertain their cumulative environmental impacts;
- (iv) Hydrological study report need to be authenticated by a subject specialist and owned by the PP; and
- (v) The Committee noted that SPCB has monitored the ambient air quality report which inter-alia includes RSPM and not PM₁₀ as prescribed in

CPCB Standard. The PP need to submit the ambient air quality report w.r.t. to PM₁₀ and PM_{2.5} along with other critical pollutants.

The Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid information is submitted in the form of an Addendum to the EIA/EMP Report.

(2.20). Argat Limestone mine with production capacity of 1.2 million TPA by M/s Jaiprakash Associate Ltd., located at village Thanghatia, BihriJhopa Kothari Argat and Jigna Tehsil Ramnagar, District-Satna, Madhya Pradesh (363.070ha) (Consultants: Vimta Labs Ltd., Hyderabad)-Reconsideration of EC

The proposal of M/s Jaiprakash Associate Ltd. is for Argat Limestone Minewith production capacity of 1.2 million TPA and the mine is located at village Thanghatia, BihriJhopa Kothari Argat and Jigna Tehsil Ramnagar, District Satna, Madhya Pradesh.

The proposal for EC was earlier considered by the Committee in its 2nd Meeting of EAC held during December 19th-21st, 2012 wherein the Committee sought additional information. Further, the proposal was reconsidered in the EAC meeting held during June 26-28, 2013 wherein the Committee recommended the proposal for environmental clearance for the production of 1.2 million TPA of limestone ROM with additional specific conditions (i) welfare measures and R&R Policy to be adopted, (ii) There shall be a brick wall within the boundary of mine lease with a minimum height of 6ft and 10 rows of plantation of trees to protect the villagers; (iii) The mining operation will not take place at the same time where the villages are sandwiched between the mining pits on either side, though not falling within the lease area.

The matter was examined in the Ministry and it is noted that as per the EIA/EMP report, Schedule I species i.e. Peacock is reported in the Core Area of the mine lease and Python is reported in the Study area. However, the species specific conservation plan has not been prepared by the Proponent. Accordingly, MoEF has asked Proponent to submit the species specific conservation plan. Proponent had prepared the conservation plan in October 2013 and submitted to the Ministry on 02.12.2013.

The Committee discussed the conservation plan and advised the project proponent that conservation plan be authenticated by a subject Expert and submitted after due signature for owning the report and commitment for implementation. The above information may be circulated among the members for taking an appropriate view on the proposal for EC.

(2.21). Renewal of mine lease and enhancement of production capacity of sandstone to 1,18,000 TPA (ROM) by M/s Gopal Ram Kashyap, located near village(s)-Bhidyani & Sajjanwas, Tehsil– Rupbas, District–Bhartpur, Rajasthan (32.10 ha) (Consultant: ENKAY Enviro Services Pvt. Ltd.)-EC

The proposal of M/s Gopal Ram Kashyap is for renewal of mine lease and enhancement of production capacity of Sandstone to 1,18,000 TPA (ROM). The mine is located near village(s)-Bhidyani&Sajjanwas, Tehsil– Rupbas, District–Bhartpur, Rajasthan. It is Category 'A' project as the mine lease is located within 10 km of the interstate boundary of U.P. and Rajasthan. The Latitude and Longitude of the site are 26°58'49"N to 26°59'23" N and 77°36'07" to 77°36'57" on the survey of India Toposheet no. 54E/12 and 54F/9.

The proposal was considered by the Expert Appraisal Committee in its meeting held during 20th–22nd June 2012 to determine the Terms of reference (TOR) for undertaking detailed EIA study. The TORs were issued by the MoEF vide letter no.J-11015/72/2012-IA.II (M) dated 23.07.2012. The proponent submitted its application to the Ministry for seeking environmental clearance after conducting public hearing.

The mine lease area is 32.10 ha which is Govt. waste land. No forest land is involved. The Mining Plan is approved by Department of Mining and Geology, Rajasthan, Bharatpur vide letter no. KHA/ Bharat./ R/ AP/ Khap.9/ 2000, dated 24.01.2012. The Mining lease was originally granted for an area of 259.0 ha for a period of five years in favour of ShriRajai Ram S/o Shri Mohan Niwas on dated 09.03.1971. After demise of lessee Sh. Rajai Ram, the lease area was transferred to his legal heir Sh. Bhairon Singh. After demise of Sh. Bhairon Singh the lease area was transferred in favour of Sh. Gopal Ram Kashyap on dated 09.03.2011. The lessee has surrendered 226.90ha area and retained only 32.10ha. The application for lease renewal was submitted on dated 08.03.2000.

The mining will be done by open cast manual method. The mining activities will be carried in two blocks i.e. Block A and Block B. The height and width of the benches will be 3.0m and slope of the faces will be kept at 75°. During the first five year the mining will be carried out in Block B forming 3 x 3m wide benches with slice of 1.0m each. During the first five year total 4,50,000 tonnes will be generated and about 14,77, 694 tonnes during the conceptual phase. The generated waste will be utilized to backfill the pit. Backfilling will be start after 5th year. The daily water demand will be 23 KLD, which will be met from nearby springs. Out of which 18.0 KLD of water will be used for plantation, 3.0 KLD for dust suppression and 2.0 KLD for domestic purposes. Water table will not be intersected as the ultimate pit limit is above the lowest ground level.

Baseline studies were carried out during the Post-Monsoon Season 2012 only for two months. All the parameters for water and air quality were within the

permissible limits. Public Hearing was conducted on 06.09.2013 at Tehsil Head Office, Rupbas, District–Bharatpur under the chairmanship of Additional District Collector. The representative of Rajasthan Pollution Control Board was present during the Public Hearing. The issues raised during public hearing were discussed during the meeting, which inter-alia, included the priority to local people in employment, blasting, maintenance of plants, CSR activity etc. These have been incorporated in the action plan with budgetary provisions.

There is no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant Reserves etc. exist within the study area (10 km radius of the mining lease boundary). The cost of the project is Rs. 10.00 Lakh. The Cost for Environmental Protection Measures is Rs. 3.60 Lakhs as capital cost and 2.60 Lakhs as recurring cost.

The Committee discussed the issues and after deliberations, the Committee sought the following additional information:

- (i) The Committee noted that it is a **violation case** as the PP has increased the production of sandstone from 146 TPA in 1993-94 to 2119 TPA in 2006-07 and Khanda from 45 TPA in 1993-94 to 296 TPA in 2006-07 without prior environmental clearance. The mining continued from 2006-07 to 2007-08 without prior EC under EIA Notification, 2006. The Committee was of the view that the actions on violation may be taken as per existing Rules.
- (ii) The Committee noted that PP monitored the AAQ for two months only. The PP need to carry out AAQ monitoring for two more non-rainy season months and submit the ambient air quality report w.r.t. to PM₁₀ and PM_{2.5} along with other critical pollutants.

The Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid information is submitted in the form of an Addendum to the EIA/EMP Report.

(2.22). Minor Mineral (Bajri) Mine with production capacity of 1,50,000 TPA by M/s Rajendra Singh Ranawat, located at near village Lasani, Tehsil Deogarh, District Rajsamand, Rajasthan. (339.62 ha) (Consultant: APEX Mintech Consultants)-TORs

The proposal of M/s Rajendra Singh Ranawatis for River Sand Mining with Production Capacity 1,50,000TPA of bajri in 339.62ha. The mine lease area is located near village Lasani, Tehsil Deogarh, District Rajsamand, Rajasthan. The lease area lies on River Kheri.

Mine working will be opencast by semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of river channel. Letter of Intent has been issued by the Directorate of Mines & Geology, Govt. of Rajasthan, no.F.10(13)Khan/Group-2/13, Jaipur dated 13.06.2013 for removal of Bajri (Minor Mineral). The lease period is valid for 5 years from the date of lease agreement. Total lease area is 339.62ha with an annual capacity of 1,50,000 TPA. The total cost of project would be 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 with additional TORs to furnish (i) Details of replenishment studies; (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment; (iii) Proper species specific Conservation plan for Schedule-I and II species; (iv) Impact of mining on plankton; (v) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch, (vi) Details of Gradient of river bed to be provided; (vii) Details of excavation schedule & sequential mining plan to be indicated; (viii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals; and (ix) The base line data shall be collected so as to represent the whole mine lease area.

(2.23). Limestone Mine with production capacity of 3.655 million TPA of Limestone by M/s UltraTech Cement Ltd., located at village(s) Sitapuri, Borlai, Awral, Andiyav, Chirakhan&Udiyapura Tehsil – Manawar, District–Dhar, Madhya Pradesh (965ha) (Consultant: JM EnvironNet Pvt. Ltd.)-TORs

The proposal is of M/s UltraTech Cement Ltd. for proposed Limestone Production Capacity of 3.66 million TPA in ML Area of 965 ha. The mine lease is located at Village(s) Sitapuri, Borlai, Awral, Andiyav, Chirakhan&Udiyapura, Tehsil–Manawar, District–Dhar in State of Madhya Pradesh. The Latitudes & Longitudes of the site are 22°20' 4.84" N to 22°23' 8.94" N and 75°05'49.76" E to 75°07'16.00"E respectively and falls within the Survey of India Toposheet No. 46N/3.

Mining is by fully mechanized opencast method to produce limestone using heavy earth moving machinery and deep-hole drilling, blasting excavation, loading & transport. Crusher capacity of 1600 TPH will be installed within the lease area. Limestone will be transported from mine pit to the crusher by dumpers and to cement plant via covered conveyor belt. Total water requirement for the project is 250 KLD will be sourced from Ground or Surface water. There is no court case/litigation is pending against the mining project. Total cost of the Project is Rs. 55 Crores.

Proponent reported that a letter vide letter No F 3-31/ 2009/12-1, dated 23.09.2013 has been issued by Additional Secretary, Madhya Pradesh, Department

of Mineral Resources for grant of mining lease for this mining project in favour of M/s. UltraTechCement Limited. There is no ecologically sensitive area (National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors and Tiger/Elephant Reserves but six Reserve Forests found within 10 km radius of the project site). The life of the mine is 19 years.

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.

(2.24). Lodhva Mining with production capacity 1.5 million TPA of Limestone by M/s Ambuja Cements Ltd., located at village-Lodhva, Tehsil-Sutrapada, District Gir-Somnath, Gujarat (591.1389 ha) (Consultant: JM EnvironNet Pvt. Ltd.)-TORs

The proposal is of M/s Ambuja Cements Ltd. for proposed limestone production capacity of 1.5 million TPA in mine lease area of 591.1389 ha. The mine lease is located at Village Lodhva, Taluka: Sutrapada, District: Gir Somnath, Gujarat. The Latitudes & Longitudes of the site are 20° 48' 46" N to 20° 50' 41" N and 70° 34' 07" E to 70° 35' 38" E respectively and part of study area falls within the Survey of India Toposheet No.41 L/9.

Mining will be done by fully mechanized opencast method deploying surface miner & dozer, excavation, loading & transport. Total mineable reserves are 63.06 million tonnes. The life of the mine is 42 years. The Letter of Intent was issued by the Industries and Mines Department, Gandhi Nagar for an area of 591.1389 ha vide letter no. MCR-1599-3748-CHH dated 20.9.2013.

Total water requirement for the project is 120 KLD. In initial stages, water for dust suppression, Green belt, washing and servicing utilities for equipment will be sourced from adjoining Solaj Mine (one of M/s. Ambuja Cement Ltd mine). Thereafter water from Lodhva mining pits will be used. The water requirement for the domestic purpose will be met from public supply or procured from surrounding areas. Total Manpower requirement for the project is around 100 persons. Top soil will be stacked separately and will be simultaneously used in plantation and pasture development. There is no court case/litigation is pending against the mining project. Total cost of the Project is Rs. 116 Crores. Capital Cost for environmental protection measures is Rs. 60 Lakhs and Recurring cost is Rs. 15 Lakh per annum. There is no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves, Reserved Forest & Protected forest within 10 km radius of the project site. From the map it appears that the boundary of the proposed site is closer to the CRZ area.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per Annexure-I with additional TORs to furnish (i) 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; (ii) Details of plantation (iii) Details of Gaucher land involved in the mine lease area; (iv) Details of existing roads and alternate road being considered for the people of the area and the action plan for the implementation.

(2.25). Varada-I Bauxite Mine of M/s Orient Abrasive Ltd. located at Village Mewasa, TalukaKalyanpur, district Jamnagar, Gujarat (11.33ha) (Consultant: Kadam Environmental Consultants)-Reconsideration of TORs

The proposed is for enhancement of production quantity from 17,673.975 TPA to 1, 24,250 TPA (ROM). The mine was with OAL since 1981, and got expired in 2001, prior to which lessee has applied for renewal in 2000 and the application is under consideration of the State Government. It was informed by the Proponent that mining is continuing by semi-mechanized open cast method using excavator and tippers.

The proposal was earlier considered in the EAC meeting held during June 28-30, 2010 wherein the Committee noted that the said mine is at a distance of about 3.1 km from Marine National Park. Accordingly the consideration of the proposal was deferred in view of the resolution of the State Government no. VPS-102008-399-C(1) dated 2.4.2008, which requires NOC to be obtained from Forest Department to carryout mining within 5 km of the National Park / Sanctuary.

The Proponent vide letter dated 17.06.2013 had submitted that the Department of Forests and Environment, Govt. of Gujarat has clarified that all projects lying within 10 kms of the Sanctuary/National Park/Conservation Reserve would require being sent to the NBWL for wild life clearance. The Proponent informed that they had submitted application vide letter dated 17.01.2012 to the Chief Conservator of Forests, Marine National Park, Gujarat for NOC. In this context, the Chief Conservator of Forests, Marine National Park, Gujarat vide letter dated 26.10.2013 mentioned that the minelease area is 3.1 km away from the Marine sanctuary and as per Revenue record of mewasa village and map, this area is not falling under Eco-sensitive zone vide MoEF notification no. 2561 dated 22.08.2013.

Based on the information furnished and presentation made by the project proponent and discussions held, the Committee noted that the Form I and PFR were very old and the Committee was of the view that the Proponent need to submit the following documents:

- (i) Revised Form I and PFR;
- (ii) Production details of the mine since 1993-94 till date and reasons for continuing the mining activity without EC; and
- (iii) Maps showing mine lease area vis-à-vis distance from outer boundary of the Eco sensitive zone.

(2.26). Minor Mineral Mining (River bed material) with production capacity of 2,02,500 TPA by M/s. Uttarakhand Forest Development Corporation, located in the Ganga Nadi, Village Lakkarghat, District Dehradun, Uttarakhand. (15.00ha) (Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Uttarakhand Forest Development Corporation is for mining of minor mineral in the mine lease area of 15ha. The Mining Lease area is located near village Lakkarghat, Tehsil-Rishikesh, District-Dehradun, Uttarakhand. The proposed production capacity is 2,02,500 TPA. The lease area lies in the bed of River Ganga. The Mine Lease area lies between 30°02'52.42"N to 30°03'3.78"N, 78°15'29.02"E to 78°15'38.76"E.

The Committee discussed the matter with reference to the Hon'ble Supreme Court order dated 28.10.2013 in the matter of "Union of India vs. Vijay Bansal & Ors" [SLP (civil) 729-731 of 2011] wherein the Hon'ble Court has held that the application for environment clearance will be filed by the Project Proponent and not by the State Government. Accordingly, the Committee was of the opinion that a clarification needs to be submitted by M/s Uttarakhand Forest Development Corporation whether they are the project proponent in accordance with above said Court Order or not.

Further, the Committee noted that the mine lease area is located 0.5 km from Rajaji National Park and was of the view that the proposal **cannot be considered** as per the direction of the Hon'ble Supreme court order in WP (C) no. 202 of 1995 [T.N. Godavarman Thirumulpad Vs. UoI & Ors.].

(2.27). Minor Mineral Mining (River bed material) with production capacity of 3,91,770 TPA by M/s Uttarakhand Forest Development Corporation, located in the Sukharo river bed, Village Balbhadrapur, Tehsil – Kotdwar, District PaurGarhwal, Uttarakhand (29.02Ha). (Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Uttarakhand Forest Development Corporation is for mining of minor mineral in the mine lease area of 29.02ha. The Mining Lease area is located near Village Balbhadrapur, Tehsil Kotdwar, District Pauri Garhwal, Uttarakhand. The proposed production capacity is 3,91,770 TPA. The lease area lies in the bed of River Sukhro. The Mine Lease area lies between 29°44'43.77"N to 29°46'7.08"N, 78°28'47.74"E to 78°30'26.87"E.

The Committee discussed the matter with reference to the Hon'ble Supreme Court order dated 28.10.2013 in the matter of "Union of India vs. Vijay Bansal & Ors" [SLP (civil) 729-731 of 2011] wherein the Hon'ble Court has held that the application for environment clearance will be filed by the Project Proponent and not by the State Government. Accordingly, the Committee was of the opinion that a clarification needs to be submitted by M/s Uttarakhand Forest Development

Corporation whether they are the project proponent in accordance with above said Court Order or not.

(2.28). Minor Mineral Mining (River bed material) with production capacity of 47,25,000 TPA by M/s Uttarakhand Forest Development Corporation, located in the lower Kosi&Dabka river bed, Villages Itabba, Jogipura, Gobra, Laxmipur D-Class, Mandaal&Gulzarpur, Tehsil District – Nainital&Udham Singh Nagar, Uttarakhand (500ha). (Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Uttarakhand Forest Development Corporation is for mining of minor mineral in the mine lease area of 500ha. The Mining Lease area is located near Villages Itabba, Jogipura, Gobra, Laxmipur D-Class, Mandaal & Gulzarpur, District – Nainital & Udham Singh Nagar, Uttarakhand. The proposed production capacity is 47,25,000 TPA. The lease area lies in the bed of River Kosi & Dabka. The Mine Lease area lies between 29°13'51.08"N to 29°19'22.36"N, 78°05'51.78"E to 78°08'33.70"E.

The Committee discussed the matter with reference to the Hon'ble Supreme Court order dated 28.10.2013 in the matter of "Union of India vs. Vijay Bansal& Ors" [SLP (civil) 729-731 of 2011] wherein the Hon'ble Court has held that the application for environment clearance will be filed by the Project Proponent and not by the State Government. Accordingly, the Committee was of the opinion that a clarification needs to be submitted by M/s Uttarakhand Forest Development Corporation whether they are the project proponent in accordance with above said Court Order or not.

(2.29).Minor Mineral Mining (River bed material) with production capacity of 10,80,000 TPA by M/s Uttarakhand Forest Development Corporation, located at Bour river bed in Barahani Forest range Near villages Haripur, Rooppur upstream &Maholichain, Mahola, Maholijangal, Harsan on downstream side Bajpur (Udham Singh Nagar) &Kaladhungi (Nainital), District – Nainital, Uttarakhand (140ha) (Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Uttarakhand Forest Development Corporation is for mining of minor mineral in the mine lease area of 140ha. The Mining Lease area is located near Villages - Haripur, Rooppur upstream &Maholichain, Mahola, Maholijangal, Harsan on downstream side Bajpur (Udham Singh Nagar) &Kaladhungi (Nainital), District – Nainital, Uttarakhand. The proposed production capacity is 10,80,000 TPA. The lease area lies in the bed of River Bour. The Mine Lease area lies between 29°10.00"N to 29°14.65"N, 79°16.25"E to 79°19.20"E.

The Committee discussed the matter with reference to the Hon'ble Supreme Court order dated 28.10.2013 in the matter of "Union of India vs. Vijay Bansal& Ors" [SLP (civil) 729-731 of 2011] wherein the Hon'ble Court has held that the

application for environment clearance will be filed by the Project Proponent and not by the State Government. Accordingly, the Committee was of the opinion that a clarification needs to be submitted by M/s Uttarakhand Forest Development Corporation whether they are the project proponent in accordance with above said Court Order or not.

(2.30). Minor Mineral Mining (River bed material) with production capacity of 4,05,000 TPA by M/s. Uttarakhand Forest Development Corporation, located in the Gulata river bed, village Kandhali (Sahaspur Block) Tehsil-Vikasnagar, District – Dehradun, Uttarakhand. (30ha) (Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Uttarakhand Forest Development Corporation is for mining of minor mineral in the mine lease area of 30ha. The Mining Lease area is located near Village Kandhali (Sahaspur Block) Tehsil-Vikasnagar, District – Dehradun, Uttarakhand. The proposed production capacity is 4,05,000 TPA. The lease area lies in the bed of River Gulata. The Mine Lease area lies between 30°20'41.22"N to 30°23'10.13"N, 77°57'5.97"E to 77°58'20.62"E.

The Committee discussed the matter with reference to the Hon'ble Supreme Court order dated 28.10.2013 in the matter of "Union of India vs. Vijay Bansal & Ors" [SLP (civil) 729-731 of 2011] wherein the Hon'ble Court has held that the application for environment clearance will be filed by the Project Proponent and not by the State Government. Accordingly, the Committee was of the opinion that a clarification needs to be submitted by M/s Uttarakhand Forest Development Corporation whether they are the project proponent in accordance with above said Court Order or not.

(2.31). Minor Mineral Mining (River bed material) with production capacity 4,77,306 TPA by M/s. Uttarakhand Forest Development Corporation located at Malan river bed, Villages Lachampur, Haldukhata, Jashodharpur, Teshil – Kotdwar, District – PauriGarhwal, Uttarakhand. (35.356Ha.) (Capacity) (Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Uttarakhand Forest Development Corporation is for mining of minor mineral in the mine lease area of 35.356ha. The Mining Lease area is located near Villages Lachampur, Haldukhata, Jashodharpur, Teshil – Kotdwar, District – PauriGarhwal, Uttarakhand. The proposed production capacity is 4,77,306 TPA. The lease area lies in the bed of River Malan. The Mine Lease area lies between 29°47'4.15"N to 29°45'9.88"N, 78°26'42.01"E to 78°27'20.43"E.

The Committee discussed the matter with reference to the Hon'ble Supreme Court order dated 28.10.2013 in the matter of "Union of India vs. Vijay Bansal & Ors" [SLP (civil) 729-731 of 2011] wherein the Hon'ble Court has held that the application for environment clearance will be filed by the Project Proponent and not by the State Government. Accordingly, the Committee was of the opinion that a

clarification needs to be submitted by M/s Uttarakhand Forest Development Corporation whether they are the project proponent in accordance with above said Court Order or not.

(2.32). Minor Mineral Mining (River bed material) with production capacity of 2,70,000 TPA by M/s. Uttarakhand Forest Development Corporation located at Village (s) Sudhowala, Kandhauli, Tehsil-Vikas Nagar, District Dehradun, Uttarakhand (20ha) (Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Uttarakhand Forest Development Corporation is for mining of minor mineral in the mine lease area of 20ha. The Mining Lease area is located near Villages Sudhowala, Kandhauli, Tehsil- Vikas Nagar, District Dehradun, Uttarakhand. The proposed production capacity is 2,70,000 TPA. The lease area lies in the bed of River Darer. The Mine Lease area lies between 30°20'50.65"N to 30°22'38.39"N, 77°56'22.98"E to 77°56'31.40"E.

The Committee discussed the matter with reference to the Hon'ble Supreme Court order dated 28.10.2013 in the matter of "Union of India vs. Vijay Bansal & Ors" [SLP (civil) 729-731 of 2011] wherein the Hon'ble Court has held that the application for environment clearance will be filed by the Project Proponent and not by the State Government. Accordingly, the Committee was of the opinion that a clarification needs to be submitted by M/s Uttarakhand Forest Development Corporation whether they are the Project Proponent in accordance with above said Court Order or not.

Item No. 3

(3.1). Nadidih Iron & Manganese Mine of M/s Feegrade & Co. (P) Ltd., in Village Nadikasira & Rengalbeda, Distt. Sundergarh, Odisha (2.6 MTPA to 2.88 MTPA (ROM) within lease area of 121.405 ha and dry processing of 4.571 MTPA of low grade iron ore reworking of old dump, installation of wet beneficiation plant of 1.142 MTPA) and Manganese production of 0.0036 MTPA (Consultant: Ecomen Laboratories Pvt. Ltd.) -Reconsideration Environmental Clearance.

The proposal is for increase in production of iron ore from 2.6 MTPA to 7.451 MTPA (28,80,000 Tonnes/Annum ROM iron ore, dry processing of 45,71,000 tonnes/annum of low grade ore/reworking of old dumps & beneficiation of 11,42,000 tonnes per of annum iron ore) by Nadidih Iron & Mn. Mines of M/s Feegrade and Company (P) Ltd., located at village Nadikashira & Rengalbeda, Tehsil Koira, district Sundergarh of Odisha. The Latitude and Longitude of the site are 21°57'23"N to 21°58'20"N and 85°14'58"E to 85°15'38"E. The proposal was considered by the Expert Appraisal Committee in its meeting held on 25 July, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The

TORs were issued by MoEF vide letter J-11015/136/2012-IA-II(M), dated 10.10.2012.

The proposal was earlier considered in the EAC meeting held during 25th - 27th September, 2013 wherein the Committee recommended the proposal for grant of environmental clearance. The proposal was referred back to EAC on the issue of carrying capacity of the region. The Committee was of the view that the impact of transport on the ecological and human community shall be monitored on regular basis and should be well within the limits prescribed in the Indian Road Congress Standard. The environmental parameters should also be collected on time series basis and report submitted.

The Committee deliberated on the proposal and was of the view that proposal involves the handling of old dumps and beneficiation of the material is also envisaged in the proposal therefore the proposed expansion of 2.6 MTPA to 2.88 MTPA would not add much to the transportation load.

The Committee again **recommended** the proposal for grant of environmental clearance with additional specific condition that traffic density and impact of transport on the ecological and human community shall be monitored on time series basis and should be well within the limits prescribed in the Indian Road Congress Standard. The environmental parameters should also be collected on regular basis and report submitted.

(3.2). Ankua Iron Ore Mine with production capacity of 10 million TPA of Iron Ore (ROM) by M/s JSW Steel Limited, located in village Ankua-Hatnaburu, Tehsil Manoharpura, District West Singhbhum, Jharkhand (999.90ha)-Reconsideration of EC.

The proposal of M/s JSW Steel Limited is for Iron Ore Mining with production capacity of 10 million TPA of Iron Ore (ROM). The mine is located in village Ankua-Hatnaburu, Tehsil Manoharpura, District West Singhbhum, Jharkhand. The mine lease area lies between latitude 22° 13' 44.34" N to 22° 17' 20.50"N and longitude 85° 14' 35.08" E to 85° 17' 16.66"E within the Survey of India toposheet No.73F/3, 73F/7 and 73F/8.

The proposal was earlier considered in EAC meeting held during August 25-27, 2010 wherein it was pointed out by the Committee that being a green field project to be located in forest area for which prior forestry clearance was made a pre requisite at the stage of TOR itself and accordingly proposal was deferred. The project Proponent has obtained Forestry clearance dated 10.05.2013 for an area of 998.07 ha covering mining and allied activities (excluding safety zone), conveyor and corridor and road widening/strengthening. The proposal was further considered in the EAC meeting held during 31.10.2013 to 01.11.2013 wherein the Committee deferred the proposal and sought clarification/information to submit revised

questionnaire, air pollution modeling, occupational health study report, land use plan and action plan on the issues raised during public hearing. The proponent has submitted the information and accordingly the proposal is placed in this meeting.

The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during 22-24 July, 2008 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by the Ministry vide letter no. J-11015/1230/2007.IA.II (M) dated 04.09.2008. The proponent submitted the EIA/EMP report to the Ministry for seeking environmental clearance after conducting public hearing.

The mining plan along with the mine closure plan for an area of 999.90 ha has been approved by Indian Bureau of Mines, MCCM, Central Zone vide letter No. 314 (3)/2008 – MCCM(CZ)/MP – 30, dated 27th January 2009. Proponent reported that total mine lease area is 999.90ha. Out of this, 988.25ha is forest land and 11.65ha is waste land. Proponent reported that 673.53ha area will be used for excavation, 100.54ha for overburden/dumps, 28.93ha for storage, 56.37ha for infrastructure development, 32.56ha for road, 20.43ha for Green belt development, 9.39ha for water treatment plant, 34.04ha for iron ore handling plant and 44.11ha is for subgrade mineral stacking.

The total forest land involved for the project is 1018.50 ha (mining lease area 999.90 ha, Conveyor Corridor 10.60ha and Road widening/ strengthening of existing road 8 ha). The project Proponent has obtained Stage I Forest clearance by the MoEF vide letter no. 8-46/2010-FC, dated 10.05.2013 for an area of 998.07ha covering mining and allied activities (excluding safety zone), conveyor and corridor and road widening/strengthening.

Proponent reported that transportation of iron ore will be done by 9 km long conveyor corridor from mine to Railway siding involving 10.60 ha Forest land and 4.4 ha Non-forest land, Road widening/ strengthening involved 8 ha Forest land and 1.2 ha Non-forest land, Loading complex, Railway line & HT line involves 48.71 ha Non-forest land and Township involves 82.64 ha Non-forest land.

Mining for Iron ore is by fully mechanized opencast method. The mining process involves drilling & blasting, loading & transportation of excavated material, crushing and screening and transportation of iron ore. The proposed working will be by putting 115mm dia DTH holes by wagon drills machine, Tractor mounted short hole drill and blasting by slurry explosives and Booster charge with Raydet detonator. Overall pit slope will be 45°. The blasted material will be loaded by excavator in dumper and transported to crushing plant for sizing and screening situated within the lease area. The crushed material will be transported to Railway siding by trucks/ conveyor belt. At the end of the life of mine, the area will be rehabilitated as per the approved Mining plan and Mine closure plan. It was reported by the project proponent that ground water will not be intersected during

the scheme period. The total water requirement for the project will be 1.95 MGD or 370 m³ per hour (3.24 MCM on annual basis). The source of the water is Koina River. The water withdrawal concurrence for 1.95 MGD or 370 m³ per hour (3.24 MCM on annual basis) has been obtained from the Water Resources Department, Government of Jharkhand vide letter No. 2/PMC/Jalapurty – 698/ 2005 – 42, dated 15th January 2013. The PP has signed the agreement with State Govt.

There is no National Park, Wildlife Sanctuaries, Biosphere Reserve, Wildlife Corridor, Tiger/ Elephant Reserves etc. within the study area. Location map of 10 km of mining lease boundary has been approved by Chief Wild Life Warden, Jharkhand vide letter No. 172 yr 08-09, dated 06.08.2009. The project proponent have mentioned that the Government of Jharkhand proposed a Comprehensive Wildlife Management Plan (CWMP) for the entire Saranda Forest Division, which is prepared by the constituted Expert Committee and submitted to Government of Jharkhand and the same has been approved by Wildlife Institute of India, Dehradun and the Chief Wild Life Warden, Jharkhand (CWLW). Project proponent has already submitted an undertaking to the CWLW vide letter dated 20.08.2010 to bear the proportionate cost of implementation of the CWMP for Saranda.

Ambient Air Quality from November to December 2013 has been carried out. The parameters for water and air quality were within permissible limits. The Committee deliberated on the baseline data and found that the principle environment parameters are well within the permissible limits.

The public hearing was held on 9.06.2009 under the Chairmanship of Mr. Punai Oraon, Additional Deputy Commissioner, Chaibasa, West Singhbhum, Jharkhand. The representative of the Jharkhand State Pollution Control Board was present. Major issues raised during the public hearing were related to employment, community development, drinking water, measures to control water pollution, hospital, school, road and transport facilities. The issues raised and budgetary provision during the public hearing were discussed during the meeting.

The total cost of the project is Rs. 1700 Crores. The project proponent has earmarked Rs. 113.32 Crores towards environmental protection measures of which 91.79 Crores is the NPV to be paid in lieu of diversion of forest land. The Project proponent reported that there is no Court Case/ litigation pending against the project.

The Committee noted in the EAC meeting during 31.10.2013 to 01.11.2013 that the EIA/EMP report has not been prepared in-line with the Annexure-III of EIA Notification, 2006. The Committee observed that Indian Council of Forestry Research and Education (ICFRE) is no longer accredited by NABET/QCI. However, ICFRE has conducted the baseline studies and prepared the EIA-EMP report during the period prior to the requirement of the accreditation by QCI came into force. Therefore, it was decided by the Committee that report is acceptable but needs to

be augmented by collecting one month AAQ data (during November-December, 2013) incorporating the National Ambient Air Quality, 2009 parameters. After deliberations in the EAC meeting held during 31.10.2013 to 01.11.2013, the Committee deferred the proposal and sought the following information:

- (i) The EIA/EMP report submitted need to revised in line with the Annexure-III of the EIA Notification, 2006 and be prepared by QCI/NABET accredited consultant;
- (ii) TORs issued were for Iron ore mining and thus the Reports should be limited to iron ore mining. Further, as per the report submitted by PP it mentions that manganese ore is intermittently present along with iron ore. The PP need to ensure safety measures to be adopted while handling manganese and these be mentioned in the EIA/EMP report ;
- (iii) Questionnaire needs to be revised and shall be duly filled;
- (iv) Air Quality modeling results in the form of isopleths should be drawn on contour map;
- (v) The land use plan given in the EIA report is at variance with that projected in the mine plan and therefore needs to be reconciled;
- (vi) Details of public consultation/public hearing and action plan with budgetary provisions should be given and
- (vii) Details of Occupational health status and action plans should be furnished.

The Proponent vide letter No. JSWJH/02/01/177 dated 04.01.2014 had submitted the above mentioned information to the Ministry. The Committee deliberated on the additional information submitted by the PP.

Based on the presentation made and discussions held, the Committee noted following deficiencies: -

- (i) Revised species specific wild life conservation plan to protect the scheduled species should have information on allocation of budget, time frame and agencies to be responsible for the implementation for each of the target species. The conservation plan should be duly authenticated by Wild life specialist;
- (ii) Water allocation agreement for the plant;
- (iii) Details of occupational health; and

- (iv) CSR budget to be increased to at least 2-3 % of the total project cost and project specific CSR plan prepared on the basis of assessment study of village needs by reputed institute may be submitted.

The Committee decided to **defer the proposal** to be brought back to the Committee after the aforesaid information is submitted in the form of an Addendum to the EIA/EMP Report.

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

* * *

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.

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List of Participants

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|-----|---|------------------|
| 1. | Dr. S. Subramaniyan | Chairman |
| 2. | Dr. L. Ajay Kumar | Member |
| 3. | Dr. S.K. Peshin | Member |
| 4. | Shri P.K. Verdia | Member |
| 5. | Prof. G.S. Roonwall | Member |
| 6. | Dr. Asha Rajvanshi | Member |
| 7. | Dr. V.P. Upadhyay Director, MoEF | Member Secretary |
| 8. | Dr. R. B. Lal, Deputy Director, MoEF | |
| 9. | Dr. Sonu Singh, Deputy Director, MoEF | |
| 10. | Representative of M/s Prabodh Mohanty. | |
| 11. | Representative of M/s Essel Mining & Industries Ltd. | |
| 12. | Representative of M/s Chawla Silica Sand Trading Co. | |
| 13. | Representative of M/s Rashtriya Ispat Nigam. | |
| 14. | Representative of M/s Balaji Electro Smelters Ltd. | |
| 15. | Representative of M/s Grasim Industries Ltd. | |
| 16. | Representative of M/s Aditya Minerals Private Ltd. | |
| 17. | Representative of M/s Madhucon Granite Ltd. | |
| 18. | Representative of M/s. Yashpal Mendon. | |
| 19. | Representative of M/s. Vajja Manjula. | |
| 20. | Representative of M/s. My Home Industries Ltd. | |
| 21. | Representative of M/s Krishna Kumar Jaiswal. | |
| 22. | Representative of M/s Orient Abrasives Ltd. | |
| 23. | Representative of M/s Rajhans Refractories Ltd. | |
| 24. | Representative of M/s Mahendra Prasad Mithal. | |
| 25. | Representative of M/s KJS Cement Ltd. | |
| 26. | Representative of M/s Khushal Arjun Rathore. | |
| 27. | Representative of M/s Jaiprakash Associated Ltd. | |
| 28. | Representative of M/s Gopal Ram Kashyap. | |
| 29. | Representative of M/s Rajendra Singh Ranawat. | |
| 30. | Representative of M/s UltraTech Cement Ltd. | |
| 31. | Representative of M/s Ambuja Cements Ltd. | |
| 32. | Representative of M/s Orient Abrasive Ltd. | |
| 33. | Representative of M/s. Uttarakhand Forest Development Corporation. | |
| 34. | Representative of M/s JSW Steel Limited. | |
