

MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE
IA DIVISION
(NON COAL MINING SECTOR)

SUMMARY RECORD OF 21st MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The 21th Meeting of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forests and Climate Change was held during **July 8-9, 2014**. The list of participants is annexed.

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

Agenda Item No. 1:

(1.1). Confirmation of the Minutes of the 20th EAC Meeting.

The Minutes of the 20th Meeting of EAC held during **May 28-30, 2014** were confirmed and circulated.

Agenda Item No. 02:

(2.1). Mining of Sand Stone & Bajri in Khasra number 2074 & 2228 of M/s Mahesh Stone Crusher, located at Mauza & Mohal-andora Nichala, Tehsil-Amb, District Una, Himachal Pradesh (7-02-03ha)(74000 metric tone) (Consultant: Shivalik Solid Waste Management Ltd.)

The proposal is for river bed Sand, Stone and Bajri mining with proposed production of 74,000 metric TPA by M/s Mahesh Stone Crusher at Khasra No. 2074 & 2228, located at Mauza & Mohal Andora Nichala, Tehsil-Amb, District-Una, Himachal Pradesh. The Latitude and Longitude of the proposed site is 30°39'10"N to 30°39'10.6"N and 76°05'31.8"E and 76° 05'38.5"E. The proposal was considered by the expert Appraisal Committee in its 16th Meeting held on 21-23 June, 2011 to determine the terms of reference for undertaking detailed EIA study. The TOR was issued by MOEF vide letter No. J-11015/80/2011-IA.II (M) dated 29th July 2011 for mining of 74,000 TPA of Sand Stone and Bajri from River bed of Soan River.

It was noted that the Proponent received TOR from the MoEF vide letter no. J-11015/80/2011-IA.II (M) dated 29.07.2011, which was valid up to

28.07.2013. However, the EIA/EMP report was received in the Ministry on 13.03.2014. The Project Proponent vide letter no. nil dated 08.07.2014 requested during the meeting, to extend the validity of the TORs.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR as per MoEF O.M. no. J-11013/41/2006.IA.II(I) dated 22.03.2010 for additional one year i.e. from 29.07.2013 to 28.07.2014.

(2.2). Goendamal Graphite Mine of M/s. Natwar Lal Agarwal, Located at village Goendamal, District - Bolangir, Orissa(63.771ha) enhancement in production of graphite ore from 3,500 to 15,000MTPA)(Consultant: Kalyani Laboratories PVT. LTD)

The proposal of Goendamal Graphite Mine of M/s. Natwar Lal Agarwal, Located at village Goendamal, District - Bolangir, Orissa is for enhancement in production of graphite ore from 3,500 to 15,000 MTPA) over mine lease area of (63.771ha). The Latitude & Longitude of the project are 20° 34' 07" to 20° 35' 20" N and 82° 46' 10" to 82° 46' 34" E. The TOR to the project was issued vide letter No. J-11015/329/2010-IA.II(M) dated 30.6.2011. It was noted that PP had changed the Consultant without informing the MoEF. The Committee decided to **defer** the proposal to be brought back to the Committee with Accredited Consultant along with validated data to be collected/owned and also with affidavit of owning the earlier data if used by new Consultant; thereafter revised EIA may be submitted. The EIA report should have complete information on environmental impacts of graphite mining and proposed mitigation measures. Occupational health impact due to graphite mining may be included in EIA report. As flora and fauna inventory is incomplete, the same needs to be updated in EIA report.

(2.3). Silica Sand Mine of M/s V.U.S.B. Bhushan Kumar located at Sy. No. 270 of Village Bukkapuram, Mandal-Veldurthi, Distt. Kurnool, Andhra Pradesh (35.352ha, 1,07,983 TPA)(Consultant: Pioneer Enviro Pvt. Ltd.)

The proposal is for opencast manual and semi mechanized mining of silica sand by M/s V.U.S.B. Bhushan Kumar at Survey No.270, Village Bukkapuram, Mandal Veldurthy, District Kurnool, Andhra Pradesh (35.352 ha). The mine lease falls between latitude - 15° 34' 41.15" to 15° 35' 21.09" N and longitude – 78° 05' 56.05" to 78° 06' 22.73" E.

The proposal was considered by the State Expert Appraisal Committee, Andhra Pradesh in its meeting held 27, June, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The Model TOR were prescribed by SEIAA, Andhra Pradesh vide No. SEIAA/AP/KNL/2013 - 2864 dated 08th August, 2013. The proposal is Category 'B' proposal however it was considered in MoEF as tenure of State Environment Impact Assessment Authority (SEIAA), Andhra Pradesh has expired and State is in the process of bifurcation.

The OM for consideration of Category 'B' projects at MoEF was issued on 13.05.2014 vide no. J-11013/36/2007-IA.II(I).

The mine lease area is 35.352 Ha, which is Govt. waste land. The Mining plan is approved by Joint Director of Mines & Geology, Government of Andhra Pradesh vide Mining plan approval Letter No. 1689/MP – KNL /2013 dated 18-05-2013. The proposed production of Silica Sand to the tune of 1,07,983 tons/annum with an anticipated intercalated waste generation of 1,199 Cum; which would be stored at the dump site.

The mining will be opencast, manual and semi mechanized mining, employing drilling for drilling and blasting with gun powder. After blasting the boulders will be subjected to further sizing manually. Transportation will be made by trucks to dispatching points. Total waste generation during the life of the mine will be 3,73,828 Tons. The waste will be used for laying roads and the balance will be dumped at the dump site on the Eastern portion of the ML area. Water required for proposed mining activity will be 15 KLD and it will be met from ground water source. Mine working will not intersect the ground water table.

It was reported by the PP that there are no Wildlife Sanctuary/Tiger Reserve/National Park/Schedule I species etc. within 10 km of the mine lease area. Baseline studies were carried out during October, 2013 to December, 2013. All the parameters for water and air quality were within permissible limits. The Public Hearing for the Proposed Project was conducted at Bukkapuram Grampachayat office, Bukkapuram Village, Veldurthy Mandal, Kurnool District, Andhra Pradesh on 15/02/2014. The Public Hearing was presided over by Shri. S. Rama Swamy, Addl. Joint Collector and Addl. Dist. Magistrate, Kurnool District, Andhra Pradesh. 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 inter-alia, included priority to local people in employment, effective implementation of measures to control dust pollution, protection of nearby fields and social development of the village. These have been incorporated in the Project Plan with budgetary provisions.

The anticipated cost of the project is Rs. 40.0 Lakhs. Cost for Environmental protection and occupational health is Rs. 25.0 Lakhs. For CSR Rs. 6.50 Lakhs/ annum will be allocated. It was informed by the PP that no court case is pending; nor any violation done in this proposed project.

During further deliberations, the Committee found deficiencies in respect of the following issues and desired additional information to be furnished; viz:

- (i) The list of flora and fauna is incomplete; therefore a complete list authenticated by an expert shall be provided.
- (ii) The maps provided in the EIA/EMP report lack clarity; therefore readable/ legible maps shall be provided.

- (iii) Details of stream passing through mine lease area shall be submitted.
- (iv) Detail report on the occupational health shall be submitted.
- (v) The Questionnaire shall be checked, refurbished and resubmitted.
- (vi) Copies of Form-I and PFR submitted to SEIAA at the time of application for TOR shall be provided.
- (vii) Report of Sub-committee of SEIAA shall be submitted.
- (viii) Legal status of 'open scrub' available in the lease area may be clarified.

The Committee decided that the proposal be **deferred** and considered further after the proponent furnishes the aforesaid information/clarifications.

RECONSIDERATION OF EC PROPOSALS

(2.4). Laterite Mining of M/s J. Lakshmana Rao, Village Bhamidika, Sarugudu Grampanchyat, Nathavaram mandal, District Visakhapatnam, Andhra Pradesh (212ha) (1.0 MTPA of Laterite) (consultant: SV Enviro Labs & Consultants Visakhapatnam).

The Proposal is for open cast Laterite Mining with proposed production of 1.0 MTPA of Laterite per year by M/s J. Lakshmana Rao., located at village Bhamidika, tehsil Nathavaram, Visakhapatnam District, Andhra Pradesh. The Latitude and Longitude of the site are East 82°20'05" to 82°20'49" E and North 17°30'58" to 17°32'12" N.

The Proposal was considered by the Expert Appraisal Committee in its meeting held during 23-25th March, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/379/2011-IA.II(M) dated 28th April, 2011. The mine lease area is 121.0 ha, which is a un-surveyed hill portion (Gap area Government land). The Mining lease is granted vide Letter No. 10474 / M.II (2) / 2010-2 dated 12-10-2010, Govt. of A.P, Industries & Commerce (M-iii) Department. The mine plan has been approved by Directorate of Mines and Geology, Government of Andhra Pradesh, Hyderabad vide letter no 5042/M/2010 dated 13.12.2010.

It is proposed to carry out the mining activity with the help of semi-mechanized method by using an excavator without drilling and blasting. Laterite is formed and exposed to surface on the top of the hill without any overburden. The excavated Laterite will be loaded directly into tippers of 10 tonnes capacity without any segregation or separation of mineral. This mineral will be transported by tippers to the mineral stacked yard/railway loading point. From there the mineral will be supplied to the consuming industries through trucks of 20 to 30 tonnes capacity or through rail wagons. About 5% waste will be generated from the proposed mining. During this plan period about 1,32,943m³ of waste will be generated from the mining activity.

The waste will be stacked by the side of the workings in non-mineralized zone over an extent of 160 x 20m (3,200 sq.m) and to a height of 3m. The waste will

be stacked separately in proposed dump yard over an extent of 160 x 20m (3,200 sq.metres) and to a height of 3m. The dumps will be stabilized with retaining wall.

The total water requirement is about 12 KLD per day for various activities such as dust suppression and domestic use including green belt. Water requirement will be met through tankers from nearby villages. Mining will not intersect the ground water. It was reported by the PP that the protected areas viz. Wild Life Sanctuary/Tiger Reserve/National Park/Schedule I species are not located within 10 km of the proposed MLA.

Baseline studies were carried out during pre monsoon season 2011 (March-May 2011) and also some studies during pre monsoon season 2012 (January-March 2012). All the parameters for water and air quality were within permissible limits. The Public Hearing for the Proposed Project was conducted at Mandala Praja Parishath School at Erakannapalem Village, Nathavaram Mandal, on 17.11.2011. 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 inter-alia, included that mining activities should not result into any adverse affects on environment and that the natural resources should not be affected, air pollution control measures to be adopted, raising of plantations, sprinkling of water etc. Need to be ensured. 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 providing infrastructure facilities like road development, basic amenities etc. Necessary budget provision have been incorporated in the Project Plan

The estimated cost of the project is Rs 85 lakh. It was reported by the PP that there is no court case/litigation pending against the project without any violation. The proposal was placed in EAC meeting held during April 29-30, 2014 wherein the proposal was deferred for want of following information:

- a) Fresh baseline data for one month as the earlier data was not collected as per IMD guidelines in the summarized form in date wise table.
- b) Clarification on production details as the proposed capacity mentioned in mine plan does not match with EIA report.
- c) Revised Questionnaire dully filled.
- d) Copy of proceedings of public hearing shall be submitted.
- e) The survey for flora and fauna shall be re-done and in case of schedule-I species are found in the study area, a species specific conservation plan along with budgetary allocation.

On submission of above information the proposal was considered in the present meeting. The PP submitted the baseline data for the month of May 2014 as the earlier data was not collected as per IMD guidelines. The PP submitted that the Mining will be carried at the rate of 1.0 MTPA only and at this capacity the life of mine will be 14 years. The revised Questionnaire and copy of proceedings of Public Hearing was also submitted. The survey for flora and fauna was re-done and it

was reported that no schedule-I species are found in the study area. Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **recommended** the proposal for grant of Environmental Clearance.

CONSIDERATION OF TOR PROPOSALS

(2.5). Kamando & Kula Mangnese ore Mines of M/s Umesh Chandra Mishra located at village Kamando & Kula, District Sundergarh, Odisha(60.70ha) (0.02 MTPA) (Consultant: Visiontek Consultancy Services (P) Ltd., Bhubaneswar)- ToR

The proposal is for semi mechanized (opencast) Manganese ore mining by Sri Umesh Chandra Mishra located at village- Komando & Kula under Koira Tehsil in Sundergarh district of Odisha. The Latitudes and Longitudes of the site are 21°55'23" to 21°55'53" N and 85°11'33" to 85°12'08" E. (Topo Sheet No. 73 G/1). This Project attracts the general condition of the EIA notification, as the Jharkhand-Odisha State boundary comes within 10 Km radius of the lease area.

The Mining Lease was granted by Government of Odisha on 21.01.1985 and executed on 08.08.1988 for a term of 20 years which expired on 08.08.2008. Renewal application was submitted on 06.08.2007 for a further period of 20 years. In the renewal application, lessee had requested for part surrender of forest area as well as inclusion of Bauxite in the said lease. Out of the total mining lease area of 60.70 hectares, lessee has applied for surrender of 16.04 ha area.

It was informed by PP that there is no national park, wildlife sanctuary, eco-sensitive areas and Tiger Reserve situated within 10kms from the lease area. PP also stated that there is no court case/litigation pending against the project and no violation either. However, during the deliberations, The Committee observed

- a) That the PP had applied to SEIAA for grant of EC. However, PP was unable to explain the fate of this Application made to SEIAA.
- b) That the status of the application made for surrender of 16.04 ha forest area is also not clear.

Therefore the Committee decided that the proposal be **deferred** and that the same be considered further by the Committee internally (the PP need not be called again, unless the response received warrants otherwise) after the clarifications as above, are furnished by the PP.

(2.6). Limestone Mine of M/s Emami Cement Ltd. located at village : Tengada, taluka: Dachepalli, Dist: Guntur, AP. (521.691 ha)(4.5 MTPA) (Consultant: J.M. EnviroNet Pvt. Ltd.)-TOR

The proposal of Tengada Limestone Mine of M/s Emami Cement Ltd. is located at village : Tengada, taluka: Dachepalli, Dist: Guntur, AP. The ML area is 521.691 ha with proposed limestone production capacity of 4.5 MTPA. The latitude and longitude of the proposal are 16°37'38"N to 16°40'00" N and 79°46'43" E to 79°48' 25" E. No forest land is involved in the mine lease area. The letter of intent for grant of mine lease in favour of M/s Emami Cement Ltd. has been issued by the State Government of Andhra Pradesh vide its Memo no. 15011/M.IV(2)/2013-1 dated 03.12.2013.

It is reported by PP that no National Parks / Sanctuary / Eco-sensitive Zone area are located within 10km of the mine lease area. 14 reserve forests exist within 10km radius. Krishna river is ~3.5 km NNE and Tangeda Major canal is ~ 2.5 km towards South. Opencast mining will be carried out by mechanized method. The life of mine will be 21 years with a production rate of 4.5 million tonnes. One seasonal stream flows through the Centre of the leases in NE-SW direction with water flowing towards NE direction.

The estimated water requirement is 170 KLD. The capital cost of the project is about Rs. 63 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**

(2.7). Bailadila Iron Ore Mine of M/s. NMDC Ltd., located at Bachel, South Bastar dantewada District, Chhattisgarh (309.340 ha)(Capacity expansion of Bailadila Deposit-10 Mine from existing 4.2 MTPA to 6.0MTPA)-TOR

Bailadila Iron Ore Mine, Deposit-10 mining lease falls in SOI Tope sheet no: 65F/2. The area lies between Latitude 18° 41'40" to 18°43'15" North and Longitude 81° 13'15"- 81°13' 45" East. The proposal is for enhancement of production of iron ore from Deposit no: 10 from existing 4.2 MTPA capacity to 6.0 MTPA. The mine lease area is 309.340 ha which is a forest land and the lease is valid upto 10-09-2015. Application for obtaining renewal of mining lease and forest clearance for further period of 20 years have already been submitted.

Earlier, Environmental Clearance for Bailadila Deposit-10 project was obtained from MoEF for expansion in production capacity from 3.3 MTPA to 4.2 MTPA vide letter no. J-11015/506/2008-IA.II(M) dated 13th October 2011 and amendment dated 19th February 2014. The proposed capacity expansion of mine does not warrant any increase in HEMM, addition of extra screening line, creation of additional stock pile for fine ore, etc. The production capacity of Deposit no 10 mine will be enhanced by increasing Net Utilization of HEM machinery. The life of mine will be 37 years with a production rate of

6.0 million tones. At present, the water requirement for the project is 12,375 KLD which is obtained from surface water sources such as Galle calla and is sufficient for catering to the additional iron ore production.

It is reported by PP that no National Parks / Sanctuary / Eco-sensitive Zone area are located within 10km of the mine lease area. The capital cost of the project is about Rs. 385.44 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**.

(2.8). Granite mine of M/s. J.R. Granites Pvt. Ltd. located at kotamakanapalli village, Gudipalli Mandal, Chittoor District AP. (4.846 ha.)(3079 M3/annum)(Consultant: Vison Labs Hyderabad)

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

(2.9). Limestone mine of M/s Shree Cement Ltd. located near village Kachavaram & inuparajupalli, Mandal – Karempudi, District Guntur, AP. (283.585 ha.)(3.6 MTPA)

The proposal is for opencast captive limestone mine of M/s Shree Cement Ltd. located near village Kachavaram & inuparajupalli, Mandal – Karempudi, District Guntur, AP. The mine working will be fully mechanized. The mine lease is for 283.585 ha and proposed production is 3.6 Million TPA. The latitude and longitude of the mine lease are 16°30'59" to 16°32'55" N and 79°43'03" to 79°44'04" E. No forest land is involved in the mine lease area. It was reported by PP that no National Parks / Eco-sensitive zone / Sanctuaries etc are located within 10km radius of mine lease. The mining plan including Progressive Mine Closure Plan has been approved vide letter no. MP/AP/GNR/Lst-243-SZ/462 dated 03/08/2012. Life of mine is 48 years.

The total estimated water requirement is 150 KLD. Average ground water is 15-20 meter in the area. Ultimate mine working depth would be 27 mbgl. Mine working will intersect ground water table. It was reported by PP that there is no court case / litigation / violation against the project. The estimated capital cost of the project is Rs. 169 Crores. It was informed by PP that the TOR for the integrated project was issued vide MoEF letter no. J-11015/563/2010-IA.II(I) dated 31.12.2010. The TOR was extended till 31.12.2013, thereafter MOEF asked Shree Cements Limited to apply for fresh TOR. 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**.

(2.10). Chilai dolomite mine of M/s Mohammadi Minerals located at village Chilai, tehsil Wani, District Yavtmal (MS), Maharashtra (61.91ha) (1.5 MTPA) (Consultant : Enviro Techno Consult (P) Ltd. Nagpur)

The proposal is for Open cast Chilai dolomite mine of M/s Mohammadi Minerals located at village Chilai, tehsil Wani, District Yavtmal (MS), Maharashtra. The mine working will be fully mechanized. The mine lease is for 61.91 ha and proposed production is 1.5 Million TPA. The latitude and longitude of the mine lease are N 19°49' 39.6" - N 19°50' 09.5" and 78°55' 32.6" - E 78°56' 09.4"E. No forest land is involved in the mine lease area. It was reported by PP that no National Parks / Eco-sensitive zone / Sanctuaries etc. are located within 10 km radius of mine lease. Life of mine is 34 years. The mine lease has been granted by Government of Maharashtra vide no. MMN-2099/(7707)/Desk, dated 08.01.2011.

Total minable reserves are estimated to be 51,540,748 MT. The total estimated water requirement is 100 KLD. It was reported by PP that there is no court case / litigation / violation against the project. The estimated capital cost of the project is Rs. 2932.74 lakhs. No R&R are involved. 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**.

(2.11). Bailadila Iron Ore Mine of M/s. NMDC Ltd., located at Bachel, South Bastar dantewada District, Chhattisgarh. (646.596 ha) (7.0MTPA)-TOR.

The present project proposal of Bailadila Deposit no: 4 is to cater the iron ore requirement of upcoming Integrated Steel Plant of NMDC Limited at Bastar and also other Steel industries in the state of Chhattisgarh. The Bailadila Deposit no: 4 is located North of Deposit No: 5 on the western flank of Bailadila range of hills lying at a distance of about 135km towards SW of Jagdalpur. The deposit is 27km SW of Bachel railway station by road and is also approachable from Bhansi. The latitude and longitude of the mine lease area are 18° 41' 27.7" to 18° 43' 45.7" N and 81° 11' 57.7" to 81° 13' 10.8" E respectively. The location is falling in SOI top sheet no: 65F/1. The elevation above mean sea level is 1200 MRL. The deposit is hilly and rough terrain. It was reported by PP that no National Parks / Eco-sensitive zone / Sanctuaries etc are located within 10km radius of mine lease.

It was informed by PP that the application for obtaining forest clearance for diversion of total 751.726 ha forest land has been submitted to Nodal Officer, Forest Deptt, Raipur on 30/3/2013 and obtained registration number 2013/035 vide letter dated 13/05/13. The F.C application is under process at DFO, Dantewada level. The Deposit no: 4 will be developed as per approved Mining Plan by IBM. It will be developed and operated by highly mechanised open cast mining method which involves drilling, blasting, excavation by shovel – dumper combination and transportation of ore upto primary crushing plant by dumpers. The life of the mine will be 21 years. The average demand of water is estimated to be 14500 Cu m per day (approx) and 4500 Cu m (approx) in wet and dry season respectively. Sankani nallah and Nerli nalla have been identified as the sources of water. The estimated capital cost of the project will be

1899.74 crores. It was reported by PP that there is no court case / litigation / violation against the project.

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

(2.12). Granite mine of M/s Sri Sukracharya Minerals located at village keeramanda, Mandal Bangarupalyam, district Chittor, Andhra Pradesh. (7.00ha) (1280m³/annum)

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

(2.13). Limestone Mine of M/s Shree Cement Ltd. located near village Semaradih & Bharuwadhih, Tehsil Balodabazar, District Balodabazar Bhatapara (531.126ha) Chhatisgarh(Expansion 4.8 Million TPA to 8.6 Million TPA) (Consultant: J.M. EnviroNet Pvt. Ltd.)

The proposal is for expansion of captive limestone mine of M/s. Shree Cement Ltd. from 4.8 Million TPA to 8.6 Million TPA located near villages Semaradih & Bharuwadih, Tehsil- Balodabazar in District Balodabazar-Bhatapara, Chhattisgarh. The integrated environmental clearance was granted by the MOEF vide letter No. J - 11011/235/2008- IA II (I) dated 7th March, 2011 and amendment letter dated 1st June, 2011 for the production of Clinker 3.0 MTPA, Cement- 5.2 MTPA, Captive Power Plant- 2x25 MW and Limestone Mining- 4.8 MTPA. Latitude and Longitude of the mine site is 21°36'6.72" N to 21°37'2.32" N and 82°02' 53.10" E to 82°3' 41.72" E, respectively.

The existing mining lease area is 531.126 ha, out of which 78.722 ha is Govt. Land & 454.404 ha is Private Land. Lease grant order has been issued by Chhattisgarh State Government for an area of 531.126 ha vides their letter no. F-2-32/2003/12(3) dated 25/03/2008. The opencast mining will be carried out by mechanized method. The anticipated life of the mine is 16 years. The estimated requirement of water for mining activities and domestic activity would be around 300 m³/day. It was reported by PP that there is no Wild Life Sanctuary/Tiger Reserve/National Park/Schedule I species etc. within 10 km radius of the mining lease boundary. Total cost of the project is Rs. 74.70 Crores. It was reported by PP that there is no court case / litigation / violation against the project.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per **Annexure-I** and desired that the Project Proponent should furnish a Report on the Cumulative Impact Assessment of the area.

(2.14). Limestone Mine of M/s Jyoti Pramanik located at village Putka, Distt. Bargarh in the State of Odisha (97.031ha) (70,200TPA)(Consultant: Visiontek consultancy services Pvt. Ltd.)

The proposal is for open cast manual mining method to produce 70,200 TPA of Limestone from Putka Limestone Mines by M/s Sri Jyoti Pramanik. The mine lease is located at village-Putka under Jagdalpur PS in Baragarh district of Odisha. The Latitude and Longitude of the site is N 21°10' 32" to N 21°11' 08" & E 82° 57' 00" to E 82° 57' 38";(Topo Sheet No. 64 K/16). This project is considered as Category 'A' as it is located within 10 km radius of the Chhattisgarh-Odisha State boundary.

The Mining Lease over 97.031 ha was granted and executed on 25.09.1974 for a period of 20 years. The renewal of mining lease was done on 13.09.2007 for a period of another 20 years with effect from 26.09.1994, which is valid till 25.09.2014. Total mining lease area of 97.031 ha is non-forest land. Total water requirement for the proposed project is about 25 m³/day. Mining will not intersect the ground water table. It was reported by PP that there is no National Park, Wildlife Sanctuary, Eco-Sensitive areas and Tiger Reserve located within 10 kms from the lease area. The estimated cost of the project is Rs. 45 lakh. It was reported by PP that there is no court case /litigation pending against the project. It is a case of **violation** as mine was operating without obtaining prior environmental clearance after the renewal fell due in 2007.

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**.

(2.15) Colour Granite Mine of M/s Rajyog Minerals Pvt. Ltd. located at Unsurveyed hill of Surjini Village, Meliaputti Mandal, Srikakulam District Andhra Pradesh (21.30ha)(4914 Cum/Year) (Consultant: Global Enviro Labs, Hyderabad)

The Mine Lease area is located in Un-surveyed Hill of Surjani Village, Meliaputti Mandal, Srikakulam District, Andhra Pradesh. The Mine Lease area is between North Latitude 18°47'9.9" to 18°47'18.09" and East Longitude 83° 13'19" to 83° 13'31.9". It is 'A' category project as the site is located within 10 Km radius i.e. 0.7 km of Andhra Pradesh and Orissa interstate boundary.

The proposed project will be worked out by semi mechanized opencast quarrying by using jack hammer drilling & cutting by Wire Saw & blasting by low explosives where required. The waste will be handled by excavators & tippers/dumpers. About 10 KLD of water will be required and source is Bore well. It is reported by the project proponent that there is no court case / litigation is pending against the project. The estimated cost of the Project is Rs 75 lakhs.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per **Annexure-I** and that the Project Proponent should furnish impact study on occupational health due to granite mining along with mitigation measures.

(2.16) Colour Granite Mine of M/s Rajyog Minerals Pvt. Ltd. located at Unsurveyed Area of Surjani Village, Meliaputti Mandal, Srikakulam District Andhra Pradesh (10.0ha)(14400 Cum/Year) (Consultant: Global Enviro Labs, Hyderabad)

The Mine Lease area is located in Un-surveyed Hill of Surjani Village, Meliaputti Mandal, Srikakulam District, Andhra Pradesh. The Mine Lease area is between North Latitude 18°47'51.13" and East Longitude 84° 13'25.58". It is 'A' category project as the site is located within 10 Km radius i.e. 0.7 km of Andhra Pradesh and Orissa interstate boundary.

The proposed Project will be worked out by semi mechanized opencast quarrying by using jack hammer drilling & cutting by Wire Saw & blasting by low explosives if required. The waste will be handled by excavators & tippers/dumpers. Proposed production colour granite with a capacity of 14,400 Cum/Year. About 12 KLD of water will be required and source is Bore well. It is reported by the project proponent that there is no court case / litigation is pending against the project. The estimated cost of the Project is Rs.75 lakhs.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per **Annexure-I** and that the Project Proponent should furnish an Impact study on occupational health due to granite mining along with mitigation measures.

(2.17). Manganese mine of M/s Girija Manganese Mine located at Poram reserve Forest block-II, Village-Chintalavalasa, Tehsil-Ramabhadrapuram, Distt. –Vizianagaram, Andhra Pradesh (29.48ha) (26,967 TPA)-TOR

The proposal is for Manganese mine of M/s Girija Manganese Mine located at Poram reserve Forest block-II, Village-Chintalavalasa, Tehsil-Ramabhadrapuram, Distt. –Vizianagaram, Andhra Pradesh. The Latitude and Longitude of the mine lease are 18°25' 09.4" N to 18 °25 '06.6" N and 83° 13' 45.1" E to 83° 13' 55.6" E. The nearest river is Champavathi, located at 9 km in the south direction.

The mine lease was declared in favour of legal heir Mr. Y.P. Rama Rao of Mr. Y.V. Krishna Rao vide Proc. No. 760/M/97 dated 10/102006. The proponent has proposed for mining of Manganese ore over an area of 29.48ha already broken forest land at Poram Reserve Forest-Block-II Chintalavalasa (V), Ramabhadrapuram (M) and

Vizianagaram Distt. The Forest clearance was obtained vide GO ms No: 38 Energy & Forest (For-I) Department dated 25.02.1995.

The lease was renewed for broken up area of 29.48ha vide G.O. Ms No. 42 of A.P. Industries & Commerce (M-II) Department dated 06.03.1997 and the renewed lease deed was executed on 27.08.1997 for an unexpired period of time up to 26.08.2017. Initially the TOR application was submitted to SEAC, Hyderabad and was considered in the SEAC meeting held on 03.07.2012. In the same, the Project was considered as a case of violation, as the Proponent had already started mining operations without getting EC and therefore a subcommittee was constituted to submit the report on the project. Later after submission of subcommittee report the project was considered in SEAC meeting held on 3.05.2013. In a letter from SEIAA, Lr. No. SEIAA/AP/VZM-59/2013-3917 dated 07.10.13 to Secretariat, Hyderabad, Special Chief Secretary was asked by the Member Secretary, SEIAA to initiate credible action on the violation which in turn was taken by Director, Department of Mines & geology vide Lr. No. 49462/R1-1/2013 after ADMG and technical staff visited the site.

The opencast mining will be done by semi-mechanized method. The lessee will deploy excavators for excavation of overburden. Blasting is not proposed as manganese to be mined is a soft ore. It was reported by PP that there is no Wild Life Sanctuary/Tiger Reserve/National Park/Schedule I species etc. within 10 km radius of the mining lease boundary.

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**. The **violation** matter may be taken up by the Ministry as per the existing guidelines. The Project Proponent should furnish the followings:-

(i) Impact study on occupational health due to manganese mining along with mitigation measures and provisions for safety measures and monitoring.

(2.18). Limestone mine of M/s My Home Industries Ltd. located at village Palkur, Mandal Banaganapalle, Distt. Kurnool, Andhra Pradesh (149.392ha) (0.40 MTPA) -TOR

The Proposal was inadvertently placed in this Agenda. The proposal was already considered in the 18th EAC Meeting held during March 20-21, 2014 and TOR issued vide letter no. J-11015/34/2014-IA.II(M) dated 01.05.2014.

(2.19). Quartz and Feldspar Mine of M/s A.D. Gideon located at village peddamandadi Mandal, Mahabubnagar, District, Telangana State. (8.09ha) (Quartz-8000 TPA, Feldspar-13000 TPA) -TOR

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

(2.20). Limestone mine of M/s Sri Sainath Minerals located at village & Mandal Kolimigundla, District-Kurnool, Andhra Pradesh (4.048ha) (96,00 TPA) -TOR

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

(2.21). Malangtoli Iron Ore Mine of M/s. Mesco Steels Ltd. at Village Luhakala, kadakala & Sundara in the District of Keonjhar, Odisha (802.6678ha)- Extension of validity of TOR.

The proposal is for opening of a new mine for production of 3.5 million TPA (ROM) of iron ore along with Crushing and Screening Plant with a capacity of 2,000 TPH. Mine lease area is 802.6678 ha, which includes 615.2813 ha of forestland. Mine working will be opencast mechanized. The EAC in its meeting held during June 20-22, 2012 recommended for TOR. The proposal was prescribed TOR by MoEF vide letter no. J-11015/219/2009-IA.II(M) dated 23.07.2012.

In the EAC meeting held during June 2012, it was noted that the site is located in the forest area surrounded by hilly terrain and water bodies, rich in biodiversity. There is also a major water fall in proximity of the mine lease area. A site visit was to be made to get first hand information on the site specific features, of ecological significance. Accordingly, it was decided that immediately after the monsoon season, when the site becomes approachable, a site visit would be undertaken, based on which, any additional studies as may be required to be conducted, shall also be prescribed. The PP will be required to include the study results in the draft EIA report to be placed before the public for Public Hearing. Accordingly, the Committee constituted a Sub-Committee comprising of Prof. G. S. Roonwal, Prof. A. K. Bhatnagar and Dr. V. P. Upadhyay, Member Secretary, MoEF, New Delhi, which visited the site on 26.03.2014. The team was accompanied by Dr. S. Kerketta, Addl. Director, ERO, MoEF and Shri S. Giri, Regional Officer, Keonjhar, OSPCCB. The Sub-Committee submitted its Report to the EAC which was discussed and accepted by the EAC. Based on the Report of Sub-Committee, **EAC prescribed the following additional TORs:**

- (i) A Hydro-geological study, particularly pin-pointing the locations and depth of shallow and deep water aquifers and springs inside the lease area with DGPS details should be carried out. The Mining Plan may have to be suitably revised by leaving out such aquifer areas undisturbed to protect the springs and natural flow from the aquifers.
- (ii) Year long study of the springs and streams to measure the water flow from each by a reputed Institution is needed. The measurements should preferably be conducted once in a week. The downstream of the Khandadhar fall should also be covered for year long study and both data may be compared to ascertain the flow in the streams, springs and waterfall.

- (iii) Ecological assessment of epiphytic vegetation, Bryophytes and Pteridophytes and other lower forms of the Malangtoli area should be done by subject area expert.
- (iv) Apart from scientific studies, a general community awareness programme on eco-restoration need to be framed particularly for local population involved in Jhum cultivation and hunting.

The Sub-Committee in its Report has also recommended that Project Authority may look into following issues:

- (i) The Project has divided the lease into two parts and has obtained two TORs for the same lease area and, Mining Plan has also been approved in two parts. To make the EC compatible with FC Act, where forest clearance is given for whole lease area and not for blocks, the Project Authorities may be asked to prepare one EIA report for the whole lease and carry out one Public Hearing to avoid duplication of information and data. The EIA Report should comprehensively cover the social impact i.e. community issues and water impact i.e. impact on streams and springs with collection of primary data for all the seasons of the year and not for one season. Similarly, biodiversity inventory of higher and lower plants and the fauna will be based on collection of primary data.
- (ii) During the visit, no bird species was observed from morning till evening in and around the lease area. It was informed that the local communities carry out hunting of bird species which may be due to their subsistence need as there is no alternative available with them in respect of food and may be due to their age old cultural and traditional practices. To mitigate such impact, it is recommended that poultry and animal husbandry may be encouraged in the villages, by supporting the communities with good quality germplasm for growth and good return in reasonably short time. In addition, community awareness programme highlighting the significance of bird population for health of the ecosystem may also be launched in such villages. It may not be out of place to mention that four or five adults including a woman should be chosen from the villages as **communicators for the village population** to achieve success in the programme. They should be provided proper training before appointing them as a communicator on the Pay Roll of these mining projects.

The PP had applied for extension of validity of TOR vide letter no. MESCO/BBSR-14/Malangtoli/62 dated 16.06.2014. Based on the information furnished and discussions held, the Committee (besides the additional TOR and other recommendations of the Sub-Committee as narrated above) **recommended** extension of the validity of TOR as per MoEF O.M. no. J-11013/41/2006.IA.II(I) dated 22.03.2010 for additional one year i.e. from 23.07.2014 to 22.07.2015.

Day 2: 09th July, 2014 (Wednesday)

- (2.22). Topailore Iron Ore Mining Project of Gua Iron Ore Mines with production capacity of 0.6 million TPA by of M/s Steel Authority of India Ltd., located at District Singbhum West, Jharkhand (14.160ha) (Consultant: MECON Limited, Jharkhand)-regarding EC**

The Proposal was **deferred** as per the request of Project Proponent vide letter dated 08.07.2014 that Project Proponent could not attend the meeting.

- (2.23). 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)-reconsideration of 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. Lease area is shown on toposheet no. 41/F/8 (Latitude and Longitude 22°9'36.0" N and 69°16'31.0" E).

The proposal was earlier appraised in the EAC meeting held during January 27-28, 2013 wherein the Committee deferred the proposal and sought some information/clarifications. PP vide letter dated 01.04.2014 has submitted the same; accordingly the proposal was placed in the present meeting.

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 extension of validity of TORs was considered during the 4th EAC meeting held during February 20-22, 2013. Ministry extended the validity of TOR up to 25.10.2013. The PP vide letter dated 19.10.2013 has submitted the EIA/EMP report to the Ministry.

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 dated 09.02.2009, has been issued by Deputy Conservator of Forests, Marine National Park, Jamnagar. 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 reported within 10 km of the mine lease boundary.

Mining will be by semi-mechanized opencast method. The mining process involves drilling & blasting, loading and transportation of the excavated material. The proposed drilling (holes of 1.5 m depth), will be 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 (Peafowl) was reported within in the core and 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. However, the Conservation Plan is yet to be approved by the Chief Wildlife Warden of the State Govt.

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 presided over by 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, 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 Lakhs 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 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 in the EAC meeting held during January 27-28, 2014, the Committee noted following deficiencies and deferred the proposal: -

- (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 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 submitted; and
- (vii) Revised Questionnaire needs to be submitted as for most of the points, no specific information has been filled up.

PP vide letter dated 01.04.2014 has submitted the above mentioned information. The Point wise explanation of the queries is given as below:

- (i) ToRs was granted for manual mining and subsequently mining scheme was modified to semi-mechanized method. A letter has been submitted to MoEF informing that mining will be done by semi-mechanized method. In the revised approved mining scheme, the maximum production was 1,28,147

TPA. So, EIA/EMP and Public Hearing has been done with semi mechanized mining method with this production capacity.

- (ii) It is informed that Conservator of Forest has forwarded a letter regarding distance from Marine National Park and sanctuary to the mine lease to the Chief Wildlife Warden to provide the distance certificate from Marine National Park and Sanctuary. The certificate from the Chief Wildlife Warden is awaited.
- (iii) As per the recommendation of EAC, additional one month monitoring has been done in the month of March 2014. Ground water data for an average of 12 years has been procured from Ground Water Resource Development Corporation (GWRDC) since data for 20 years was not reportedly available with GWRDC.
- (iv) The distance of mine lease (buffer boundary) from eco sensitive zone and Gaga Bird Sanctuary on map duly authenticated by Chief Conservator of Forest & Deputy Conservator of Forests has been submitted.
- (v) Marine National Park and Sanctuary, Gaga Wildlife Sanctuary and eco-sensitive zone is more than 9.00 km from the mine lease, so any significant impact on National Park & Sanctuary, Wildlife Sanctuary and eco-sensitive zone is not anticipated. However, Blasting (using Controlled Blasting Technique) will be carried out once a day. Greenbelt development around the lease area will help to reduce noise level and improve biodiversity /Wildlife in the study area.

After deliberations on the material submitted, the Committee desired that that the Proponent shall furnish the following information for further consideration of the Proposal.

- (i) The Committee noted that the ToR was granted for manual mining. The mining scheme was modified by PP to semi-mechanized method and EIA/EMP and Public Hearing has been done on the basis of semi mechanized mining method. However, PP has not obtained any amendment in the TORs. In this context, the Committee desired that at first PP should submit an application for the required revision in TORs from manual to semi-mechanized mining.
- (ii) It is informed that Conservator of Forest has forwarded a letter regarding distance from Marine National Park and sanctuary to the mine lease to the Chief Wildlife Warden to provide the distance certificate from Marine National Park and Sanctuary. The certificate from the Chief Wildlife Warden may be submitted by the PP.
- (iii) The Committee noted that PM_{10} value is much higher than the prescribed limit. In this context, PP should submit the reasons for the high

concentration of PM₁₀ alongwith mitigation measures to bring down the level to acceptable limits and also analyze the composition of PM₁₀.

- (iv) PP to submit a report on feasibility of low charge blasting to reduce impact on wildlife and other habitations.
- (v) Details of Report on examination of occupational health of workers working in the mines of PP. Periodic schedule and details of occupational health should be provided.
- (vi) Revised Questionnaire submitted by PP has not been filled up with significant data. Accordingly, the revised Questionnaire needs to be submitted again with the required details.
- (vii) Rain water harvesting plan of the mine may be submitted.
- (viii) Conservation Plan shall be approved by the Chief Wildlife Warden of the State Govt. and submitted.
- (ix) The mine area is surrounded by several other operating mines and the data on AAQ provided by the PP, it is observed that the environment pollution load is high including vehicular impacts. That there is a need for conducting regional study w.r.t. impact of other mines located within the study area may be submitted.

Under the circumstances, the Committee decided that the proposal be **deferred** till the aforesaid information is received. The Committee also decided that a Inspection of the Study Area be carried out and Report submitted within one month by a Sub-Committee comprising of Prof. G.S. Roonwall and Shri P.K. Verdia alongwith Dr. V.P. Upadhyay and Dr. R.B. Lal and that the Proposal be considered further after the said Site Inspection by the Sub-Committee and receipt of the aforesaid information.

(2.24). Earich Sand Mining Project (129.9ha) M/s Meera Yadav with production capacity of 23,30,000 TPA at Village Earich, tehsil garotha, District Jhansi, State Uttar Pradesh (consultant: Grass Roots Research & Creation India (P) Ltd.).

The proposal is for opencast Sand Mining with proposed production of 23,30,000 TPA located at Village Earich, Tehsil Garautha, District Jhansi, Uttar Pradesh. The Latitude and Longitude of the site are:

Plot no. (1Ka, 42, 154Ga)	Latitude: 25° 48' 57.510" to, 25° 48' 56.508" N. Longitude: 79° 7' 22.207" to, 79° 5' 752" E.
Plot No. (2142, 2147, 2166, 2167)	Latitude: 25° 48' 14.045" N, 25° 47' 55.001" N Longitude: 79° 5' 6.046" E, 79° 5' 7.010" E.

The proposal was considered by the Expert Appraisal Committee for prescribing TOR in its meeting held on 20th and 22nd Feb, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/383/2012-IA.II (M) dated 1st April, 2013.

The proposed project is to mine out sand over an area of 129.9 ha from River bed of Betwa. The mine plan has been approved vide letter No 81/MP/2014 dated 24.04.2014 by Directorate of Geology & Mines, U.P. The mining process is opencast river bed mining of minor minerals. Before the mining process, lease area will be demarcated with wooden planks. The minable reserves in the mine lease were estimated to be 56,81,826 tonnes. Mining is proposed to be carried out manually, no drilling and blasting will be done. Safety distance of 50 m from the bank of the river and 12 m from the main stream will be left as no mining zone. During the entire lease period, the deposit will be worked from the top surface to 3 m bgl or above the ground water level whichever comes first. No solid waste will be generated during mining. Total water requirement is 1.65 KLD. Water will be supplied from the nearby area.

It was reported by the Project Proponent that eco-sensitive areas like Wild Life Sanctuary/Tiger Reserve/National Park etc. are not located within the 10 km radius of mine lease area. There is no significant wildlife or Schedule I species within the 10 km of radius of MLA.

Baseline studies were carried out during Pre Monsoon Season 2013 (March-May, 2013). All the parameters for air, water, soil & noise quality were found to be within permissible limits. The Public Hearing for the Proposed Project was conducted at Earich Village on 21.10.2013. The public hearing was chaired by SDM. The issues raised during public hearing were related to environmental pollution & local employment etc. Villagers had no objection for mining and requested for environmental clearance so that they can earn their livelihood. Project report has been incorporated with action plan with budgetary provisions for monitoring of environmental parameters. The estimated cost of the project is Rs 1 Crore with Rs 11.85 lakh allotted for EMP implementation. Around 5% of the project cost has been allotted for CSR activities.

It was reported by the PP that there is no court case/litigation pending against the project without any violation case as per the order of Hon'ble High Court of Allahabad in W.P. 9416 (M/B) of 2010 in matter of Mohd. Kausar Jah

vs. Union of India and others, and Writ Petition No.10025 of 2010 (M/B) Shyam Bahadur Sakhya Vs. Union of India & Ors. mining was permitted upto 30.6.2011. It was informed by PP that mining is stopped since 2007.

In the main river Betwa, where in the mining is proposed is subject to shifting due to meandering effect and hence, this aspect need to be kept in mind while fixing the specific area of mining of sand and coarse materials.

The proposal was considered in EAC meeting held during April 29-30, 2014 wherein the Committee suggested the proponent to furnish the following information:

- (i) On the meandering effect of the river and its impact on the bank.
- (ii) An affidavit to the effect that trucks used for the mining activity and transportation of sand will not pass through the villages.
- (iii) Revised Questionnaire.
- (iv) The survey for flora and fauna shall be re-done and in case schedule-I species are found in the study area, a species specific conservation plan along with budgetary allocation should be prepared and submitted.
- (v) The Public Hearing was chaired by SDM and therefore, re-conducted with an entitled officer.
- (vi) Details of land, if any to be acquired for road construction.

On submission of the above mentioned information the proposal, was placed in the present meeting. The PP submitted that in present scenario, the convex side of the river will be mined if this area is not mined it may lead to erosion of the river bank leading to cutting and decrease in forest land bordering the river banks. An affidavit that trucks used for the mining activity and transportation of sand will not pass through the villages was submitted. A Revised Questionnaire and survey report on flora and fauna was submitted and it was reported that no schedule-I species are located in the study area. A letter from regional Office of U.P. Pollution Control Board was submitted stating that Public Hearing was presided over by ADM of District Jhashi. PP informed that the lease area is approachable at MDR 31B through already present un-metaleed roads. So there is no need of construction of new road, hence no new land will be required for the same. Based on the information submitted by the Proponent and discussion held in the meeting, the Committee **recommended** the proposal for environmental clearance with additional specific conditions that (i) the trucks used for the mining activity and transportation of sand will not be allowed to pass through the villages, (ii) After one year, Experts on River Morphology and Sedimentation along with Member Secretary & one Representative from Regional Office, MoEF may visit and appraise the EAC(M) on further course of action.

(2.25). Mauza Kunja Sand, Stone & Bajri Mining project with production capacity of 54,400TPA (khasra No-283/13/1) on River Yamuna of M/s Mahender Singh & Co. at village Mauza Kunja, District-Sirmour, Himachal Pradesh (10.25ha) (consultant: Grass Roots Research & Creation India (P) Ltd.

The proposal is for opencast sand, stone & bajri Mining with proposed production of 54,400 TPA located at Village: Kunja, Tehsil: Paonta Sahib, District: Sirmour, Himachal Pradesh. The co-ordinates of the site are: Latitude 30°26'22.077"N to 30°26'27.756"N and Longitude 77°38'40.081"E to 77°38'57.886"E

The proposal was considered by the Expert Appraisal Committee in its meeting held on March 13th to 15th 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. No.J-11015/442/2012-IA.II (M) dated 22nd April 2013. The proposed Project is to mine Sand, Stone & *Bajri* over an area of 10.25 ha from River bed of Yamuna.

The Mine Plan has been approved vide *Udyog Bhu Khani Laghu-120/07-168* dated 6/4/2011 by State Geologist, Geological Wing, Dept. of Industries, H.P. The entire mine lease area lies on the river bed. The project is confined to extraction of Stone, Sand & Bajri from the bed of River Yamuna. The operations will be carried out manually by using hand tools like shovel, pan, and sieve etc. The area towards upstream side is proposed for mining to be carried out for 1st, 3rd and 5th year, whereas the area towards downstream side is proposed for 2nd, and 4th year. Mining will be done after leaving 1/5th width of the river from the banks as No Mining Zone; mining operations will be carried out in the left out area. Drilling and blasting will not be carried out. Mining will be carried out during day time and will be completely stopped during the Monsoon season.

During the entire lease period, the deposit will be worked from the top surface to 1 m bgl or above the ground water level whichever comes first. Thus at no point of time, mining will intersect with ground water level. The silt/clay generated have no market value, thus this mineral is the waste generated during mining. Part of the waste generated will be used for backfilling for plantation. The total waste generated during the 5 years will be 7,225 tonnes. The water requirement of the project is 69 KLD and water will be obtained from nearby area.

It was reported by the project proponent that Simbalbara Wildlife Sanctuary is located at approx 8.5 km from the lease area. Two species categorised as Schedule-I namely *Elephas maximus indicus* & *Panthera pardus fusca* are reported from the study area. A site specific Conservation Plan was also submitted. Asan Wetland Conservation Reserve is located at a distance of

2 km from the project site. The authenticated map along with distance was submitted.

Baseline studies was carried out during pre monsoon season 2013 (March-June, 2013). All the parameters for air, water, and soil & noise quality were within permissible limits. The Public Hearing for the Proposed Project was conducted at Kunja Village on 11.10.2013. The issues raised during public hearing were discussed during the meeting which, inter alia, included mitigation of environmental pollution, Unemployment in the area and evacuation route. As per the villagers' requirements, it was informed by PP that they would make provisions for the evacuation route which wouldn't impact the environment, the locals will be given preference for employment. The same has been incorporated in the Project Plan with budgetary provisions.

The estimated cost of the project is Rs 20 lakh and Rs 6.1 lakh is earmarked for EMP implementation. Around 5% of the project cost will be allotted for CSR activities. It was reported by the PP that there is no court case/litigation pending against the project.

The proposal was considered in EAC meeting held during April 29-30, 2014 wherein the Committee suggested the Proponent to furnish the following information:

- (i) Certificate from state government authorities that mining is stopped since 15.10.2010.
- (ii) Ownership of the land details in mine lease area and its acquisition status.
- (iii) Revised Questionnaire shall be submitted.

On submission of the above mentioned information, the Proposal was placed in the present meeting. The PP submitted the certificate from Mining Officer, District Sirmour No. 154 dated 02.05.2014 that mining is stopped since 15.10.2010. The documents on the ownership of land, that the mining land is owned by Shri Mahender Singh were also submitted. The duly filled in revised Questionnaire was also submitted by the PP. Based on the information submitted by the Proponent and discussion held in the meeting, the Committee **recommended** the proposal for environmental clearance.

(2.26). Integrated Durgaiburu Iron Ore Mining, Beneficiation and Pelletisation Plant Project of M/s Steel Authority of India Limited (SAIL), located in Ghatkuri Reserve Forest, Tehsil Gua, District West Singhbhum, Jharkhand-amendment of EC.

The Proposal was **deferred** as per the request of Project Proponent vide letter dated 08.07.2014 that Project Proponent could not attend the meeting.

- (2.27). Guda Clay mine with production capacity of 60,000 TPA by M/s Harish Clays, located at village Guda, Tehsil Kolayat, District Bikaner, Rajasthan. (284.20ha)-TORs**

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

- (2.28). Jamuwani Kalan, Khirwa & Durjanpur Limestone mine with production capacity of 2.5 million TPA by of M/s RMG Superconductors Limited, located at village Jamuwani Kalan, Khirwa & Durjanpur, tehsil Vijayraghavad, Ditric kati, Madhya Pradesh. (740.35 ha.)- TORs**

The Proposal was **deferred** as per the request of Project Proponent vide letter dated 09.07.2014 that Project Proponent could not attend the meeting.

- (2.29). Mothaiyanur Limestone Mine with production Capacity of 2,10,000 TPA by M/s The India Cements Ltd. located at village Chinnagoundnur, Taluk Sankari, District Salem, Tamil Nadu. (50.84 ha.) (Consultant: Team labs and Consultants, Hyderabad) – TORs**

The Proposal was **deferred** as per the request of Project Proponent vide letter dated 01.07.2014 that Project Proponent could not attend the meeting.

- (2.30). Expansion of production capacity of Limestone Mine from 12,800 TPA to 2.0 million TPA (ROM) of limestone by M/s Saurashtra Chemicals, located at village Zinzarka-Boricha, Tehsil & District Porbanda, Gujarat (24.28ha) (Consultant: Mantec Consultant Pvt. Ltd.) – TORs**

The proposal of M/s Saurashtra Chemicals is for expansion of production capacity of limestone mine from 12,800 TPA to 2.0 million TPA (ROM) of limestone in the mine lease area of 24.28ha. The Mine Lease area is located at village-Zinzarka Boricha, Taluka & District Porbandar, Gujarat. The co-ordinates of Limestone Mine are 21°44'56.76" N to 21°45'14.90" N Latitude and 69°40'19.65" E to 69°40'37.74" E Longitude respectively and falls within the Survey of India Topo sheet No. 41 G 4 "Restricted". It is category "A" Project due to Barda Wildlife sanctuary being located within 10 km radius of mine lease.

Mining lease of Zinzarka Limestone mine was granted in favour of Shri Laxman Bhai Bhim Bhai Agath in the year 1985 and the lease deed was executed on 08.06.1988 for 20 years. The lease was transferred vide Govt. of Gujarat Order No. MCR-1589 (S-54)-2164-CHH dated 24.11.1992 and corrigendum dated 17.01.1994 was issued in the name of M/s "Saurashtra Chemicals". Transfer deed was executed on 24.01.1994. The PP had applied for renewal of lease vide application dated 30.05.2007. Receipt of the

renewal application was acknowledged in from 'D' by Govt. of Gujarat on 21.06.2007.

The Ministry had earlier prescribed Terms of Reference (ToR) for the said mine vide MoEF letter no. J-11015/1243/2007-IA.II (M), dated 25.01.2008. SPCB had conducted the Public Hearing on 22.10.2008 and PP has submitted the EIA/EMP report on 17.01.2013 i.e. after expiry of the validity of TORs. Accordingly, MoEF vide letter dated 11.03.2013 communicated to the PP that the validity of TORs has already expired.

Total water requirement for the project is 5.85 KLD which shall be met from bore well located at Dharpur-kajawadri limestone mine. Necessary Permission for abstraction of ground water for a quantity of 94.025 KLD has been granted by Central Ground Water Authority vide letter no. 21-4(732)/WCR/CGWA/2010-2590 dated 24.11.2010.

PP has informed that the Application to obtain National Board of Wildlife clearance has been submitted vide letter dated 15.09.2012. Jambuvanti cave is a Historical monument of Archeological importance in the study area at a distance of 5 km from Zinzarka mine for which NOC has been granted by the Directorate of Archaeology, Gandhinagar vide its letter dated 12.05.2009. There is no court case/litigation is pending against the mining project. Total cost of the Project is Rs 25 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** subject to submission of certificate from the Department of Mines & Geology with regard to limestone production details from 1993-94 onwards. Further, the Project Proponent, along with EC proposal, should also furnish the Cumulative environmental impacts of all other mines located in the vicinity of MLA.

(2.31). Limestone Mine with production capacity of 1.0 million TPA by M/s Abhijeet Cement Ltd., located at village (s) Mahawa, Saipura, Bhilampur, Badhreta, District Morena, Madhya Pradesh (268.520ha) – extension of validity of TORs

The Limestone mining project of M/s Abhijeet Cement Ltd. is located at village (s) Mahawa, Saipura, Bhilampur, Badhreta, District Morena, Madhya Pradesh. The Proposal is for opening of new mine for production of 1.0 million TPA of limestone for captive use in their cement plant at a distance of about 3.0 km. Mine lease area is 268.50ha.

The Proposal for TORs was considered by the Expert Appraisal Committee in its meeting held during February 21st -23rd, 2011. TORs were issued by MoEF vide letter no. J-11015/285/2011-IA.II (M) dated 26th March, 2012.

The Project Proponent vide Letter dated 21st April, 2014 requested to extend the validity of the TORs; as they anticipated delay in submission of final EIA Report to MoEF. The Committee noted that the Project Proponent has submitted the application after expiry of the validity of TORs.

Based on the information furnished and discussions held, the Committee **recommended** the extension of validity of TOR as per MoEF O.M. no. J-11013/41/2006.IA.II(I) dated 22.03.2010 for additional one year i.e. from 26.03.2014 to 25.03.2015.

(2.32). Limestone Mine with production capacity of 1.8 million TPA by M/s Abhijeet Cement Ltd., located at village (s) Sehadpur & Itoura, District Morena, Madhya Pradesh (186.79ha) –extension of validity of TORs

The Limestone mining project of M/s Abhijeet Cement Ltd. is located at village (s) Sehadpur & Itoura, District Morena, Madhya Pradesh. The Proposal is for opening of new mine for production of 1.8 million TPA of limestone for captive use in their Cement Plant at a distance of about 3.0 km. Mine lease area is 186.79ha.

The Proposal for TOR was considered by the Expert Appraisal Committee in its meeting held during February 21st -23rd, 2011. TORs were issued by MoEF vide letter no. J-11015/285/2011-IA.II (M) dated 26th March, 2012.

The Project Proponent vide Letter dated 21st April, 2014 requested to extend the validity of the TORs; as they anticipated delay in submission of final EIA Report to MoEF. The Committee noted that the Project Proponent has submitted the application after expiry of the validity of TORs.

Based on the information furnished and discussions held, the Committee **recommended** the extension of validity of TOR as per MoEF O.M. no. J-11013/41/2006.IA.II (I) dated 22.03.2010 for additional one year i.e. from 26.03.2014 to 25.03.2015.

(2.33). Limestone Mine with production capacity of 0.45 million TPA by M/s Abhijeet Cement Ltd., located at village Badhreta, District Morena, Madhya Pradesh (190.326ha) –extension of validity of TORs

The Limestone mining project of M/s Abhijeet Cement Ltd. is located at village (s) Mahawa, Saipura, Bhilampur, Badhreta, District Morena, Madhya Pradesh. The Proposal is for opening of new mine for production of 0.45 million TPA of limestone for captive use in their cement plant at a distance of about 3.0 km. Mine lease area is 190.326ha.

The Proposal for TOR was considered by the Expert Appraisal Committee in its meeting held during February 21st -23rd, 2011. TORs were issued by MoEF vide letter no. J-11015/285/2011-IA.II (M) dated 26th March, 2012.

The Project Proponent vide Letter dated 21st April, 2014 requested to extend the validity of the TORs; as they anticipated delay in submission of final EIA Report to MoEF. The Committee noted that the Project Proponent has submitted the application after expiry of the validity of TORs.

Based on the information furnished and discussions held, the Committee **recommended** the extension of validity of TOR as per MoEF O.M. no. J-11013/41/2006.IA.II (I) dated 22.03.2010 for additional one year i.e. from 26.03.2014 to 25.03.2015.

Meeting ended with the thanks to the Chair.

* * *

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 schedule-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. The Conservation Plan for Schedule-I species shall be approved by the Chief Wildlife Warden of the State Government.
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 modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
22)	Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the project.
23)	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.
24)	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
25)	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.
26)	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.
27)	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.
28)	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.
29)	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.
30)	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.
31)	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.
32)	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA report.
33)	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.
34)	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.
35)	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP.
36)	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.

37)	Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38)	Detailed environmental management plan to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
39)	Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
40)	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.
41)	The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.
42)	Provide a brief background of the project, financial position, group companies and legal issues etc.; past and current important litigations.

* * *

List of Participants

- | | |
|--|------------------|
| 1. Shri M. S. Nagar | Chairman |
| 2. Dr. L. Ajay Kumar | Member |
| 3. Shri P.K. Verdia | Member |
| 4. Prof. G.S. Roonwall | Member |
| 5. Prof. A.K. Bhatnagar | Member |
| 6. Dr. S. K. Peshin | Member |
| 7. Dr. V.P. Upadhyay, Director, MoEF | Member Secretary |
| 8. Dr. R. B. Lal, Joint Director, MoEF | |
| 9. Dr. Sonu Singh, Deputy Director, MoEF | |
| 10. Representatives of M/s Mahesh Stone Crusher. | |
| 11. Representatives of M/s Natwar Lal Agarwal | |
| 12. Representatives of M/s V.U.S.B. Bhushan Kumar | |
| 13. Representatives of M/s J. Lakshmana Rao | |
| 14. Representatives of M/s Umesh Chandra Mishra. | |
| 15. Representatives of M/s Emami Cement Ltd. | |
| 16. Representatives of M/s Mohammadi Minerals | |
| 17. Representatives of M/s NMDC Ltd. | |
| 18. Representatives of M/s Shree Cement Ltd. | |
| 19. Representatives of M/s Jyoti Pramanik | |
| 20. Representatives of M/s Rajyog Minerals Pvt. Ltd. | |
| 21. Representatives of M/s Girija Manganese Mine | |
| 22. Representatives of M/s Mesco Steels Ltd. | |
| 23. Representatives of M/s Orient Abrasives Ltd. | |
| 24. Representatives of M/s Meera Yadav | |
| 25. Representatives of M/s Mahender Singh & Co. | |
| 26. Representatives of M/s Saurashtra Chemicals | |
| 27. Representatives of M/s Abhijeet Cement Ltd. | |
