

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

SUMMARY RECORD OF 31st MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The 31st Meeting of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during **March 16-18, 2015**. 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). Confirmation of the Minutes of the 30th EAC Meeting

The Minutes of the 30th Meeting of EAC held during **January 29-30, 2015** were confirmed and circulated.

Day 1: 16th March, 2015 (Monday)

Agenda Item No. 1:

Consideration of Environmental Clearance Proposals

(1.1). Mining of Stone (Minor Mineral) with production capacity of 10.0 million TPA (ROM) of Stone by M/s Haryana State Industrial and Infrastructure Development Corporation Ltd., located at village-Khanak, Tehsil-Tosham, District-Bhiwani, Haryana (258.30ha) (Consultant: JM EnviroNet Pvt. Ltd., Haryana)-Reconsideration EC

The proposal of M/s Haryana State Industrial and Infrastructure Development Corporation Ltd. is for mining of Stone (Minor Mineral) with production capacity of 10 million TPA (ROM) of Stone in the mine lease area of 258.30 ha. The mine lease is located at village: Khanak, Tehsil: Tosham, District: Bhiwani, Haryana.

The proposal was earlier appraised by the Expert Appraisal committee in its meeting held during January 15-16, 2015 wherein the Committee **recommended** the Proposal for environmental clearance for Mining of Stone (Minor Mineral) with proposed production capacity of 5.0 million TPA (ROM) of Stone. The Committee

recommended additional specific conditions viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; (ii) An independent study be organised during peak activity, to understand how the actuals compare with the carrying capacities and further decisions taken to maintain sustainability of this essential stone extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of stone; (iii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The PP shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing held on 18.11.2014; (iv) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry; (v) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (vi) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (vii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; (viii) A comprehensive study for slope stabilization of mine benches and OB dumps shall be undertaken within one year; (ix) Washing of all transport vehicle should be done inside the mining lease (x) "Environmental Clearance is subject to final outcome of the Court case in Hon'ble High Court of Punjab and Haryana"; (xi) Native plant species of Amla, Tamarind, Neem, Arjun, Bauhinia and others as suggested by villagers/specialist may be planted; (xii) Two villages namely Khanak and Toshan heavily saturated with respect to Ambient Air Quality may be selected for Air Pollution prevention and control measures to bring down AAQ within the prescribed standards; and (xiii) **The EC will be valid only for 50% of the proposed production (5.0 million TPA (ROM) as per condition of LoI as informed by the PP.**

In this context, Project Proponent, vide letter dated 04.02.2015, has represented that the LoI condition no. (xviii) pertains to crushing of stone produced to desired size instead of extraction of stone/mineral, as interpreted by the EAC and

requested to **rectify the Minutes of Meeting of EAC and consideration of EC for 10.0 million TPA of Stone** as per Mining Plan duly approved by DMG. Accordingly, the proposal is considered in this meeting.

The PP has informed that the condition no. (xviii) of LoI dated 03.01.2014 issued by Department of Mines and Geology, Haryana is as:-

"The lessee shall be under obligation to make available up to 75% of the produced raw material/stone to be downstream industries i.e. stone crushers operating in the area. However, in case is unable to find market for this raw mineral to extent of 75% of its production, he would be required to obtain prior permission to the department to consume raw mineral in excess of 25% of his production but not exceeding 50% of his production for grounds to be recorded in writing."

The Project Proponent has informed that **there is Court case namely M/s KJSL – Sunder (JV) and others versus State of Haryana and others [CWP 2599 2014]** in the Hon'ble High Court of Punjab & Haryana. The Hon'ble Court vide order dated 04.03.2015 inter-alia dismissed the writ petitions. The text of order inter-alia is as:-

.... "The statement made on behalf of the respondents that the HSIIDC would not commence the mining operations without complying with the provisions of Section 17-A(2) of the Mines and Minerals (Development and Regulation) Act, 1957, namely, obtaining the approval of the Central Government and issuing the notification in the official gazette is accepted. There shall be no order as to costs".

The Committee noted that the above mentioned clause of LoI relates to the crushing capacity of the stone and not to the extraction of stone/proposed rate of production. Based on the deliberation, the Committee **recommended** the Proposal for environmental clearance for Mining of Stone (Minor Mineral) with proposed production capacity of 10.0 million TPA (ROM) of Stone with one more **specific condition that the M/s HSIIDC would not commence the mining operations without complying with the provisions of Section 17-A(2) of the Mines and Minerals (Development and Regulation) Act, 1957, namely, obtaining the approval of the Central Government and issuing the notification in the official gazette.**

Agenda Item No. 2:

CONSIDERATION OF ENVIRONMENTAL CLEARANCE PROPOSALS

(2.1-2.10) Ten proposals of Sand/Gravel mining Project of M/s Punjab Small Industries & Export Corporation Ltd. located at

1. **Gurdaspur, Simbli Gujran (12.00 ha, 3.34 lakh TPA);**
2. **Jandwal, Pathankot (88.00ha, 5.28 lakh TPA);**
3. **Baghar, Pathankot (57.60 ha, 5.13 lakh TPA);**
4. **Kharkhra, Pathankot (93.20ha, 7.83 lakh TPA);**
5. **Maira, Gurdaspur (103.60ha, 9.34 lakh TPA);**
6. **Jhumber, Pathankot (53.20ha, 4.86lakh TPA);**
7. **Nangal, Pathankot (31.20 ha, 4.34 lakh TPA);**
8. **GurrahKalan, Pathankot (19.00ha, 2.4 lakh TPA);**
9. **Abadgarh, Pathankot (38.00 ha, 5.00 lakh TPA) and**
10. **Chhatwal, Pathankot (42.40ha, 3.40 lakh TPA).**

The State Government of Punjab submitted 13 proposals to the Ministry on 08.11.2013 for consideration for grant of EC for mining of sand/gravel (minor minerals) from various Districts of Punjab namely Rupnagar, Gurdaspur & Pathankot. However, in the Application I.A. NO.7-9 & 10-12 in SLP (C) NO.729-731 of 2011 Hon'ble Supreme Court vide its order dated 28.10.2013 by a larger bench of three Hon'ble Judges have held that it is the "Project Proponent" who has to apply for environmental clearance under the EIA Notification for mining leases instead of "the State Government". These proposals were submitted after above mentioned Hon'ble Supreme Court Order dated 28.10.2013. The details of 13 proposals are as follows:

S. No	File No.	Name of Project	Date of ToR	Date of Public Hearing	Date of submission of EIA Report
1	J-11015/180/2012.IA.II(M)	Gurdaspur, Simbli Gujran	17.03.2010 (SEAC)	29.02.2012	08.11.2013
2	J-11015/338/2010.IA.II(M)	Jandwal, Pathankot	04.03.2011 (MoEF)	17.03.2012	08.11.2013
3	J-11015/ 182 /2012.IA.II(M)	Chak Chimna, Pathankot	17.03.2010 (SEAC)	21.02.2012	08.11.2013
4	J-11015/165/2010.IA.II(M)	Baghar, Pathankot	28.02.2011 (MoEF)	17.03.2012	08.11.2013

5	J-11015/166/2010.IA.II(M)	Kharkhra, Pathankot	28.02.2011 (MoEF)	28.03.2012	08.11.2013
6	J-11015/164/2010.IA.II(M)	Maira, Gurdaspur	28.02.2011 (MoEF)	20.03.2012	08.11.2013
7	J-11015/167/2010.IA.II(M)	Jhumber, Pathankot	28.02.2011 (MoEF)	27.03.2012	08.11.2013
8	J-11015/168/2012.IA.II(M)	Nangal, Pathankot	17.03.2010 (SEAC)	22.02.2012	08.11.2013
9	J-11015/ 345 /2010.IA.II(M)	Nangli, Rupnagar	04.03.2011 (MoEF)	16.03.2012	08.11.2013
10	J-11015/ 186 /2014.IA.II(M)	Seaonty, Pathankot	17.03.2010 (SEAC)	20.03.2012	08.11.2013
11	J-11015/187/2014.IA.II(M)	Gurrah Kalan, Pathankot	17.03.2010 (SEAC)	27.03.2012	08.11.2013
12	J-11015/178/2012-IA.II(M)	Abadgarh, Pathankot	17.03.2010 (SEAC)	28.02.2012	08.11.2013
13	J-11015/188/2014.IA.II(M)	Chhatwal, Pathankot	17.03.2010 (SEAC)	16.03.2012	08.11.2013

2. The proposals were put on hold in view of aforesaid Supreme Court order. The matter was examined in the Ministry and it is decided that since these 13 proposals have been received after the order dated 28.10.2013 and the SLP against this order is pending in the Supreme Court, therefore, the proposals are being returned back. However, considering that the TORs for these Projects were issued way back in the year 2010/2011, public hearing has been held and EIA/EMP reports prepared, with a view to using these documents in the appraisal process, it has been decided that the State Government may go ahead with the auction of these mine leases and the selected LOI holders in each case may attend the EAC meeting along with the State Government Representative and the Consultant. LOI holder may submit an affidavit that he will abide by the provisions under the EIA/EMP Reports and implement the commitments made during Public Hearing. The public hearing and EIA/EMP Report already prepared will be considered by the EAC for each of these 13 Projects provided that the baseline data and date of public hearing is not more than three years old at the time of consideration in EAC. Based on EIA/EMP Reports and other documents available in each case, EAC may appraise the proposal and make appropriate recommendations to the Ministry for taking a view. The PP submitted the request for consideration of proposals along with the documents transferring the lease to M/s Punjab Small Industries & Export Corporation Ltd. vide letter dated 18.01.2015. on

request of State Government the three cases of category ' B' i.e. Chak Chimna, Pathankot, Nangli, Rupnagar and Seaonty, Pathankot were transferred to the SEIAA, Punjab. The brief summary of the rest of the 10 proposals are as follows:

2.1 River Bed Mining of Sand/Gravel from River Chakki, located in Village Simbli Gujran, Tehsil Pathankot, District Pathankot, Punjab (12 ha, 3.34 lakh TPA).

The proposal is for environmental clearance for Simbli Gujran Sand/Gravel Mining Project from the bed of River Chakki in Village Simbli Gujran, Tehsil Pathankot, District Pathankot, Punjab for a production of 3.34 lakh TPA. The mine lease area is of 12 ha. The proposed mining area is reported lying between Latitudes-32°10'34.88"N to 32°10'41.13"N and Longitude-75°36'52.06"E to 75°37'3.00"E in topo sheet No. 43P/12. An Interstate Boundary between Punjab and Himachal Pradesh lies within 10km radius of the mine lease area. No forestland is involved. There is no Protected Forest within 10 km radius from mine lease boundary. It was reported by the Project Proponent that there is no National Park/Wildlife Sanctuary within 10 km from the boundary of the mine lease. The mine working will be opencast by semi-mechanized method without involving drilling and blasting. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers. The ground water level is reported to be 5-7 m below ground level. In order to maintain safety and stability of river banks, 3 m or 10% of the width of the river whichever is more, will be left intact as 'no mining zone'. Water requirement will be 0.74 KLD which will be sourced from nearby village; NOC from the Gram Panchayat has been procured for the utilization of water from the village Simbli Gujran. It was reported by the Project Proponent that there is no court case pending against the Project. Cost of the Project is Rs.40 lakhs and EMP cost is Rs 5.1 lakhs per annum. The terms of reference for the Project were issued by SEAC (No. SEAC/297-340/13289 on 17.03.2010. Draft EIA/EMP report was prepared by complying the TOR points. Baseline studies were conducted during March-May, 2011. Ambient Air Quality Parameters were reported to be within permissible limits. Sediment budget calculation was done by using Dandy-Bolton Equation, in which the entire catchment area of the river was considered to calculate the annual replenishment rate. The proponent has also submitted the Approved Mine Plan which was approved by State Geologist, Director of Industries, Punjab vide letter number 9265-A dated 16-08-2013. The Public hearing was held on 29.02.2012 at village Simbli Gujran, Pathankot by Punjab Pollution Control Board chaired and presided over by Shri Sibin C, DC, Pathankot. Major issues raised by the Public were regarding, start of mining in the area, maintenance of road etc. The objections and suggestions raised by the participants were taken on record and responded by the PP.

2.2 River Bed Mining of Sand/Gravel from River Chakki, located in Village Jandwal, Tehsil Pathankot, District Pathankot, Punjab (88 ha; 5.28 lakh TPA).

The proposal is for environmental clearance for Jandwal Sand/Gravel Mining Project from the bed of River Chakki in Village Jandwal, Tehsil Pathankot, District Pathankot, Punjab for a production of 5.28 lakh TPA. The mine lease area is of 88 ha. The proposed mining area is reported lying between Latitudes - 32°17'3.87" to 32°16'33.09"N and Longitude - 75°45'5.90" to 75°44'14.77"E in topo sheet No. 43P/11 & 43P/15. An Interstate Boundary between Punjab and Himachal Pradesh lies within 10km radius of the mine lease area. No forestland is involved. There is no Protected Forest within 10 km radius from mine lease boundary. It was reported by the Project Proponent that there is no National Park/Wildlife Sanctuary within 10 km from the boundary of the mine lease. The mine working will be opencast by semi-mechanized method without involving drilling and blasting. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers. The ground water level is reported to be 5-7 m below ground level. In order to maintain safety and stability of river banks 3 m or 10% of the width of the river whichever is more will be left intact as no mining zone. Water requirement will be 4.0 KLD which will be sourced from nearby village, NOC from the Gram Panchayat has been procured for the utilization of water from the village Jandwal. It was reported by the Project Proponent that there is no court case pending against the Project. Cost of the Project is Rs. 3.8 crores and EMP cost is Rs 5.1 lakhs per annum. The terms of reference for the Project were issued by MoEF [Ref No.: J-11015/338/2010-IA.II(M)] on 04.03.2011. Draft EIA/EMP report was prepared by complying the TOR points. Baseline studies were conducted during March-May, 2011. Ambient Air Quality Parameters were reported to be within permissible limits. Sediment budget calculation was done by using Dandy-Bolton Equation, in which the entire catchment area of the river was considered to calculate the annual replenishment rate. The proponent has also submitted the Approved Mine Plan which was approved by State Geologist, Director of Industries, Punjab vide letter number 7117-B dated 15-05-2013. The Public hearing was held on 17.03.2012 at village Abadgarh, Pathankot by Punjab Pollution Control Board and presided over by Shri Sibin C, DC, Pathankot. Major issues raised by the Public were regarding, start of mining in the area, maintenance of road etc. The objections and suggestions raised by the participants were taken on record and responded by the PP.

2.3. River Bed Mining of Sand/Gravel from River Chakki, located in Village Baghar, Tehsil Pathankot, District Pathankot, Punjab (57.6 ha, 5.13 lakh TPA).

The proposal is for environmental clearance for Baghar Sand/Gravel Mining Project from the bed of River Chakki in Village Baghar, Tehsil Pathankot, District Pathankot, Punjab for a production of 5.13 lakh TPA. The mine lease area is of 57.6 ha. The proposed mining area is reported lying between Latitudes - 32° 16' 47.35" to 32°17'11.18" N and Longitude - 75°45'13.68" to 75°46'0.98" E in topo sheet No.

43P/15. An Interstate Boundary between Punjab and Himachal Pradesh lies within 10km radius of the mine lease area. No forestland is involved. There is no Protected Forest within 10 km radius from mine lease boundary. It was reported by the Project Proponent that there is no National Park/Wildlife Sanctuary within 10 km from the boundary of the mine lease. The mine working will be opencast by semi-mechanized method without involving drilling and blasting. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers. The ground water level is reported to be 5-7 m below ground level. In order to maintain safety and stability of river banks 3 m or 10% of the width of the river whichever is more will be left intact as 'no mining zone'. Water requirement will be 2.78 KLD which will be sourced from nearby village. NOC from the Gram Panchayat has been procured for the utilization of water from the village Baghar. It was reported by the Project Proponent that there is no court case pending against the Project. Cost of the Project is Rs. 3.7 crores and EMP cost is Rs 5.1 lakhs per annum. The terms of reference for the Project were issued by MoEF [Ref No.: J-11015/165/2010-IA.II(M)] on 28.02.2011. Draft EIA/EMP report was prepared by complying the TOR points. Baseline studies were conducted during March-May, 2011. Ambient Air Quality Parameters were reported to be within permissible limits. Sediment budget calculation was done by using Dandy-Bolton Equation, in which the entire catchment area of the river was considered to calculate the annual replenishment rate. The proponent has also submitted the Approved Mine Plan which was approved by State Geologist, Director of Industries, Punjab vide letter number 1620 dated 17-05-2013. The Public hearing was held on 17.03.2012 at village Baghar, Pathankot by Punjab Pollution Control Board and presided over by Shri Sibin C, DC, Pathankot. Major issues raised by the Public were regarding, start of mining in the area, maintenance of road etc. The objections and suggestions raised by the participants were taken on record and responded by the PP.

2.4 River Bed Mining of Sand/Gravel from River Ravi, located in Village Karkhara, Tehsil Pathankot, District Pathankot, Punjab (93.2 ha, 7.83 lakh TPA).

The proposal is for environmental clearance for Karkhara Sand/Gravel Mining Project from the bed of River Ravi in Village Karkhara, Tehsil Pathankot, District Pathankot, Punjab for a production of 7.83 lakh TPA. The mine lease area is of 93.2 ha. The proposed mining area is reported lying between Latitudes - 32°16'54.968"N to 32°17'12.60"N and Longitude - 75°28'43.924"E to 75°29'30.18"E in toposheet No. 43P/7. An Interstate boundary between Himachal Pradesh & Punjab and "Kathlaur Kaushlian" wildlife sanctuary also lie within 10 Km radius from the Project site. No forestland is involved. There is no Protected Forest within 10 km radius from mine lease boundary. The mine working will be opencast by semi-mechanized method without involving drilling and blasting. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers. The

ground water level is reported to be 5-7 m below ground level. In order to maintain safety and stability of river banks 3 m or 10% of the width of the river whichever is more will be left intact as no mining zone. Water requirement will be 4.73 KLD which will be sourced from nearby village, NOC from the Gram Panchayat has been procured for the utilization of water from the village Karkhara. It was reported by the Project Proponent that there is no court case pending against the Project. Cost of the Project is Rs. 5.63 crore and EMP cost is Rs 5.1 lakhs per annum. The terms of reference for the Project were issued by MoEF letter No. J-11015/166/2010-IA.II (M) on 28.2.2011. Draft EIA/EMP report was prepared by complying the TOR points. Baseline studies were conducted during March-May, 2011. Ambient Air Quality Parameters were reported to be within permissible limits. Sediment budget calculation was done by using Dandy-Bolton Equation, in which the entire catchment area of the river was considered to calculate the annual replenishment rate. The proponent has also submitted the Approved Mine Plan which was approved by State Geologist, Director of Industries, Punjab vide letter number 5336-A dated 15-05-2013. The Public hearing was held on 28.03.2012 at village Karkhara , Pathankot by Punjab Pollution Control Board and presided over by Shri Sibin C, DC, Pathankot. Major issues raised by the Public were regarding, start of mining in the area, maintenance of road etc. The objections and suggestions raised by the participants were taken on record and responded by the PP.

2.5. River Bed Mining of Sand/Gravel from River Ravi, located in Village Maira, Tehsil Pathankot, District Pathankot, Punjab (103.6 ha, 9.34 lakh TPA).

The proposal is for environmental clearance for Maira Sand/Gravel Mining Project from the bed of River Ravi in Village Maira, Tehsil Pathankot, District Pathankot, Punjab for a production of 9.34 lakh TPA. The mine lease area is of 103.6 ha. The proposed mining area is reported lying between Latitudes - 32° 18' 13.357" N to 32°17'32.351" N and Longitude - 75°29'21.903" E to 75° 28' 46.226" E in toposheet No. 43P/7. An Interstate boundary of Jammu & Kashmir & Punjab and Kathlaur Kaushlian Wildlife Sanctuary" also lies within 10 km radius. No forestland is involved in the mine lease area of the Project. There is no Protected Forest within 10 km radius from mine lease boundary. The mine working will be opencast by semi-mechanized method without involving drilling and blasting. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers. The ground water level is reported to be 5-7 m below ground level. In order to maintain safety and stability of river banks 3 m or 10% of the width of the river whichever is more will be left intact as no mining zone. Water requirement will be 5.14 KLD which will be sourced from nearby village NOC from the Gram Panchayat has been procured for the utilization of water from the village Maira. It was reported by the Project Proponent that there is no court case pending against the Project. Cost of the Project is Rs.6.72 crores and EMP cost is Rs 5.1 lakhs per annum. The terms of reference for the Project were issued by MoEF vide letter No. (J-11015/164/2010-

IA.II(M) on 28.02.2011. Draft EIA/EMP report was prepared by complying the TOR points. Baseline studies were conducted during March-May, 2011. Ambient Air Quality Parameters were reported to be within permissible limits except for PM₁₀. The PM₁₀ readings are exceeding the norms because of the wheat harvesting season in which the left over wheat stubble are burnt, this entrainment in higher PM₁₀ value is a temporary phase. Sediment budget calculation was done by using Dandy-Bolton Equation, in which the entire catchment area of the river was considered to calculate the annual replenishment rate. The proponent has also submitted the Approved Mine Plan which was approved by State Geologist, Director of Industries, Punjab vide letter number 1612.A dated 17-5-2013. The Public hearing was held on 20-3-2012 at village Maira by Punjab Pollution Control Board chaired by Smt. Sarojini Gautam, PCS (ADC), Pathankot. Major issues raised by the Public were regarding, pollution prevention methods, method of mining in the area, maintenance of road etc. The objections and suggestions raised by the participant were taken on record and responded by the PP.

2.6 River Bed Mining of Sand/Gravel from River Singaawan, located in Village Jhumber, Tehsil Pathankot, District Pathankot, Punjab (53.20 ha, 4.86lakh TPA).

The proposal is for environmental clearance for Jhumber Sand/Gravel Mining Project from the bed of River Singaawan in Village Jhumber, Tehsil Pathankot, District Pathankot, Punjab for a production of 4.86 lakh TPA. The mine lease area is of 53.20 ha. The proposed mining area is reported lying between Latitudes - 32° 17' 53.026"N to 32°18'11.958"N and Longitude - 75° 26'55.880" E to 75°27'34.769" E in topo sheet No. 43P/7. An Interstate boundary between Jammu & Kashmir & Punjab and "Kathlaur Kaushlian" wildlife sanctuary also lies within 10 km from the Project site. No forestland is involved in the lease area. There is no Protected Forest within 10 km radius from mine lease boundary. The mine working will be opencast by semi-mechanized method without involving drilling and blasting. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers. The ground water level is reported to be 5-7 m below ground level. In order to maintain safety and stability of river banks 3 m or 10% of the width of the river whichever is more will be left intact as no mining zone. Water requirement will be 3.13 KLD which will be sourced from nearby village NOC from the Gram Panchayat has been procured for the utilization of water from the village Jhumber. It was reported by the Project Proponent that there is no court case pending against the Project. Cost of the Project is Rs.3.50 crore and EMP cost is Rs 5.1 lakhs per annum. The terms of reference for the Project were issued by MoEF vide letter No. (J-11015/167/2010-IA.II(M) on 28.2.2011. Draft EIA/EMP report was prepared by complying the TOR points. Baseline studies were conducted during March-May, 2011. Ambient Air Quality Parameters were reported to be within permissible limits except for PM₁₀. The PM₁₀ readings are exceeding the norms because of the wheat harvesting season in which the left over wheat stubble are burnt, this entrainment in higher PM₁₀ value is a temporary phase. Sediment budget calculation was done by

using Dandy-Bolton Equation, in which the entire catchment area of the river was considered to calculate the annual replenishment rate. The proponent has also submitted the Approved Mine Plan which was approved by State Geologist, Director of Industries, Punjab vide letter number 5328.A dated 15-5-2013. The Public hearing was held on 27.03.2012 at village Nangal by Punjab Pollution Control Board and presided over by Smt. Sarojini Gautam Sharda, (ADC), Pathankot. Major issues raised by the Public were regarding, pollution prevention methods, compensation of land, method of mining in the area, maintenance of road etc. The objections and suggestions raised by the participant were taken on record and responded by the PP.

2.7 River Bed Mining of Sand/Gravel from River Chakki, located in Village Nangal, Tehsil Pathankot, District Pathankot, Punjab (31.2 ha, 4.34 lakh TPA).

The proposal is for environmental clearance for Nangal Sand/Gravel Mining Project from the bed of River Chakki in Village Nangal, Tehsil Pathankot, District Pathankot, Punjab for a production of 4.34 lakh TPA. The mine lease area is of 31.2 ha. The proposed mining area is reported lying between Latitudes - 32°11'05.83"N to 32°11'33.37"N and Longitude - 75°38'17.15"E to 75°38'41.71"E in topo sheet No. 43P/11 & 43P/12. An Interstate Boundary between Punjab and Himachal Pradesh lies within 10km radius of the mine lease area. No forestland is involved. There is no Protected Forest within 10 km radius from mine lease boundary. It was reported by the Project Proponent that there is no National Park/Wildlife Sanctuary within 10 km from the boundary of the mine lease. The mine working will be opencast by semi-mechanized method without involving drilling and blasting. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers. The ground water level is reported to be 5-7 m below ground level. In order to maintain safety and stability of river banks 3 m or 10% of the width of the river whichever is more will be left intact as no mining zone. Water requirement will be 2.248 KLD which will be sourced from nearby village NOC from the Gram Panchayat has been procured for the utilization of water from the village Nangal. It was reported by the Project Proponent that there is no court case pending against the Project. Cost of the Project is Rs.50 lakh and EMP cost is Rs 5.1 lakhs per annum. The terms of reference for the Project were issued by SEAC/297-340/13289 on 17.03.2010. Draft EIA/EMP report was prepared by complying the TOR points. Baseline studies were conducted during March-May, 2011. Ambient Air Quality Parameters were reported to be within permissible limits except for PM₁₀. The PM₁₀ readings are exceeding the norms because of the wheat harvesting season in which the left over wheat stubble are burnt, this entrainment in higher PM₁₀ value is a temporary phase. Sediment budget calculation was done by using Dandy-Bolton Equation, in which the entire catchment area of the river was considered to calculate the annual replenishment rate. The proponent has also submitted the Approved Mine Plan which was approved by State Geologist, Director of Industries, Punjab vide letter

number 9269.A dated 16-8-2013. The Public hearing was held on 22.02.2012 at village Nangal by Punjab Pollution Control Board and presided over by Shri Sibin C., DC, Pathankot. Major issues raised by the Public were regarding, pollution prevention methods, compensation of land, method of mining in the area, maintenance of road etc. The objections and suggestions raised by the participant were taken on record and responded by the PP.

2.8. River Bed Mining of Sand/Gravel from River Beas, located in Village Gurah Kalan, Tehsil Pathankot, District Pathankot, Punjab (19 ha, 2.4 lakh TPA).

The proposal is for environmental clearance for Gurah Kalan Sand/Gravel Mining Project from the bed of River Beas in Village Gurah Kalan, Tehsil Pathankot, District Pathankot, Punjab for a production of 2.40 lakh TPA. The mine lease area is of 19 ha. The proposed mining area is reported lying between Latitudes - 32° 07' 28.912"N to 32°07'40.159"N and Longitude - 75° 38'07.466"E to 75°38'33.034" E in topo sheet No. 43P/12. An Interstate Boundary between Punjab and Himachal Pradesh lies within 10km radius of the mine lease area. No forestland is involved. There is no Protected Forest within 10 km radius from mine lease boundary. It was reported by the Project Proponent that there is no National Park/Wildlife Sanctuary within 10 km from the boundary of the mine lease. The mine working will be opencast by semi-mechanized method without involving drilling and blasting. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers. The ground water level is reported to be 5-7 m below ground level. In order to maintain safety and stability of river banks 3 m or 10% of the width of the river whichever is more will be left intact as no mining zone. Water requirement will be 1.76 KLD which will be sourced from nearby village NOC from the Gram Panchayat has been procured for the utilization of water from the village Gurah Kalan. It was reported by the Project Proponent that there is no court case pending against the Project. Cost of the Project is Rs.20 lakh and EMP cost is Rs 5.1 lakhs per annum. The terms of reference for the Project were issued by SEAC/297-340/13289 on 17.03.2010. Draft EIA/EMP report was prepared by complying the TOR points. Baseline studies were conducted during March-May, 2011. Ambient Air Quality Parameters were reported to be within permissible limits except for PM₁₀. The PM₁₀ readings are exceeding the norms because of the wheat harvesting season in which the left over wheat stubble are burnt, this entrainment in higher PM₁₀ value is a temporary phase. Sediment budget calculation was done by using Dandy-Bolton Equation, in which the entire catchment area of the river was considered to calculate the annual replenishment rate. The proponent has also submitted the Approved Mine Plan which was approved by State Geologist, Director of Industries, Punjab vide letter number 1614.A dated 17-5-2013. The Public hearing was held on 27.02.2012 at village Gurah Kalan by Punjab Pollution Control Board and presided over by Shri Sibin C., IAS (DC), Pathankot. Major issues raised by the Public were regarding, pollution prevention methods, compensation of land, method of mining in the area,

maintenance of road etc. The objections and suggestions raised by the participant were taken on record and responded by the PP.

2.9 River Bed Mining of Sand/Gravel from River Chakki, located in Village Abadgarh, Tehsil Pathankot, District Pathankot, Punjab (38 ha, 5 lakh TPA).

The proposal is for environmental clearance for Abadgarh Sand/Gravel Mining Project from the bed of River Chakki in Village Abadgarh, Tehsil Pathankot, District Pathankot, Punjab for a production of 5.0 lakh TPA. The mine lease area is of 38 ha. The proposed mining area is reported lying between Latitudes - 32°06'29.91" to 32°07'05.63"N and Longitude - 75°35'32.06" to 75°35'48.05"E in topo sheet No. 43P/12. An Interstate Boundary between Punjab and Himachal Pradesh lies within 10km radius of the mine lease area. No forestland is involved. There is no Protected Forest within 10 km radius from mine lease boundary. It was reported by the Project Proponent that there is no National Park/Wildlife Sanctuary within 10 km from the boundary of the mine lease. The mine working will be opencast by semi-mechanized method without involving drilling and blasting. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers. The ground water level is reported to be 5-7 m below ground level. In order to maintain safety and stability of river banks 3 m or 10% of the width of the river whichever is more will be left intact as no mining zone. Water requirement will be 1.92 KLD which will be sourced from nearby village, NOC from the Gram Panchayat has been procured for the utilization of water from the village Abadgarh. It was reported by the Project Proponent that there is no court case pending against the Project. Cost of the Project is Rs. 90 lakhs and EMP cost is Rs 5.1 lakhs per annum. The terms of reference for the Project were issued by MoEF [Ref No.: SEAC/297-340/13289] on 17.03.2010. Draft EIA/EMP report was prepared by complying the TOR points. Baseline studies were conducted during March-May, 2011. Ambient Air Quality Parameters were reported to be within permissible limits. Sediment budget calculation was done by using Dandy-Bolton Equation, in which the entire catchment area of the river was considered to calculate the annual replenishment rate. The proponent has also submitted the Approved Mine Plan which was approved by State Geologist, Director of Industries, Punjab vide letter number 9261-A dated 15-05-2013. The Public hearing was held on 28.02.2012 at village Abadgarh, Pathankot by Punjab Pollution Control Board and presided over by Shri Sibin C, DC, Pathankot. Major issues raised by the Public were regarding, start of mining in the area, maintenance of road etc. The objections and suggestions raised by the participants were taken on record and responded by the PP.

2.10 River Bed Mining of Sand/Gravel from River Chakki, located in Village Chattwal, Tehsil Pathankot, District Pathankot, Punjab (42.4 ha, 3.34 lakh TPA).

The proposal is for environmental clearance for Chattwal Sand/Gravel Mining

Project from the bed of River Chakki in Village Chattwal, Tehsil Pathankot, District Pathankot, Punjab for a production of 3.34 lakh TPA. The mine lease area is of 42.4 ha. The proposed mining area is reported lying between Latitudes - 32° 16' 27.74" N to 32°16'39.26" N and Longitude - 75° 42' 37.55" E to 75° 44' 6.85" E in topo sheet No. 43 P/11. An Interstate Boundary between Punjab and Himachal Pradesh lies within 10km radius of the mine lease area. No forestland is involved. There is no Protected Forest within 10 km radius from mine lease boundary. It was reported by the Project Proponent that there is no National Park/Wildlife Sanctuary within 10 km from the boundary of the mine lease. The mine working will be opencast by semi-mechanized method without involving drilling and blasting. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers. The ground water level is reported to be 5-7 m below ground level. In order to maintain safety and stability of river banks 3 m or 10% of the width of the river whichever is more will be left intact as no mining zone. Water requirement will be 2.04 KLD which will be sourced from nearby village, NOC from the Gram Panchayat has been procured for the utilization of water from the village Chattwal. It was reported by the Project Proponent that there is no court case pending against the Project. Cost of the Project is Rs.85 lakh and EMP cost is Rs 5.1 lakhs per annum. The terms of reference for the Project were issued by SEAC [Ref No.: SEAC/340/13289] on 17.03.2010. Draft EIA/EMP report was prepared by complying the TOR points. Baseline studies were conducted during March-May, 2011. Ambient Air Quality Parameters were reported to be within permissible limits. Sediment budget calculation was done by using Dandy-Bolton Equation, in which the entire catchment area of the river was considered to calculate the annual replenishment rate. The proponent has also submitted the Approved Mine Plan which was approved by State Geologist, Director of Industries, Punjab vide letter number 5332-A dated 15-05-2013. The Public hearing was held on 16.03.2012 at village Chattwal, Patiala by Punjab Pollution Control Board and presided over by Shri Sibin C, DC, Patiala. Major issues raised by the Public were regarding, start of mining in the area, maintenance of road etc. The objections and suggestions raised by the participants were taken on record and responded by the PP.

After deliberations, the Committee observed various deficiencies in the documents and presentation, therefore, the Committee desired that the Proponent shall furnish the following information/clarification for further consideration:-

- (i) The baseline data is more than three year old; however, the Project was considered by the EAC as there has not been much change in environmental quality. The Committee was of the view that one month baseline data shall be collected and variation in the parameters shall be reported.
- (ii) The detailed Action Plan with budgetary provision for the public hearing shall be submitted.
- (iii) The questionnaires were not filled completely; revised complete questionnaires shall be submitted.

- (iv) The consultant had claimed that mining in low lying area will not affect the agricultural field. A report on this issue shall be submitted prepared from a reputed institute.
- (v) The coordinates of the mine lease area shall be re-verified and submitted for record.
- (vi) The public hearing was conducted based on the draft mining plan. A certificate from the State Mining Department that draft mining plan and final mining plan are same shall be submitted. In case there are any changes these shall be categorically mentioned.
- (vii) The distance from interstate boundary, Protected Area etc shall be provided in all the cases so that categorization of the Project can be done.
- (viii) The lease area mentioned in LOI at TOR stage is different from that mentioned in EIA report, the justification for same shall be provided.
- (ix) The in-stream mining is not permitted, however, mine plan and EIA report shows plan of in-stream mining. In cases where in-stream mining plan is provided shall be revised and re-submitted.
- (x) Only river bed mining will be permitted no agriculture land should be used for mining purposes.
- (xi) Cumulative impact study of the area shall be submitted.
- (xii) The green belt shall be developed in a manner wherein the local species are planted that is useful; a revised list of species to be planted in the green belt shall be provided.
- (xiii) Separate budget for Occupational Health, Public Health and CSR budget needs to be provided.

The Committee decided that the Proposal be **deferred** till the aforesaid information is submitted and proposal will be re-considered thereafter.

RECONSIDERATION OF EC PROPOSALS

(2.11). Iron Ore Mine of M/s K. Rajamohan Reddy and 0.3 MTPA Beneficiation Plant (Production of 0.5 MTPA Iron Ore & Throughput of 0.3 MTPA) located at Village Pendlamarri, Mandal Kadapa, Andhra Pradesh (88.95ha)(500000 TPA of Iron ore & 0.3 Million TPA of Beneficiation Plant)

The proposal is for Iron Ore Mining with proposed production of 0.5 MTPA & Throughput of 0.3 MTPA Beneficiation iron ore by M/s. K. RAJA MOHAN REDDY, located at S.No.320 of Chabali Village, Pendlimarri Mandal, Kadapa district of Andhra Pradesh. The Latitudes and Longitude of the site is 14° 28' 06.4"N to 14° 29' 01.1" N and 78° 35'22.1" E to 78° 36'12.7" E.

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

11015/164/2011 – IA. II (M), Dated on 14th February 2011. The proponent submitted its application to the Ministry on 10th September, 2012 for seeking environmental clearance after conducting public hearing.

The proposal was considered in the EAC meeting held during the meeting held during 16-18th January, 2013 wherein Committee sought following information:

- (i) Details of the tailing pond design may be furnished.
- (ii) The Environment Management cell set up needs to be strengthened with persons having qualifications/specialisation in environment protection.
- (iii) The budgetary provision for occupational health and safety/ may be enhanced.
- (iv) Details of plantation on wasteland may be given.
- (v) Measures to prevent surface runoff and water conservation with due emphasis to raise water table may be provided.
- (vi) Details of land use, flora, fauna including endangered and endemic species may be furnished.
- (vii) Measures for proper utilization of wasteland for social purpose to be submitted.
- (viii) Compliance of TOR to be submitted.

On submission of the information, the proposal was considered in the EAC meeting held during July 22nd-24th, 2013. The Project Proponent submitted following information:

- a) Large Plate & Frame type filters would be used instead of a tailing pond for squeeze drying the tailings.
- b) A separate wing "Environmental Management Cell (EMC)" will be formed to look after the inspection / monitoring requirements. The mine management will undertake the control measures in coordination with the State Forest Department, Regional APPCB and Environmental consultant. The management of environment shall be made an integral part of the major activities of mining. Integrated land, water and afforestation program may be allotted to a reputed professional contracting firm through outsourcing.
- c) Proposed Budget for Occupational Health & Safety is 115.50 lakhs for 280 workers for awareness, insurance, emergency purpose (revolving fund), safety equipment, medical check-up lab, medicines to workers & their families. In addition to budget for occupational health & safety an amount of Rs. 2.00 Crores is earmarked for CSR activities and will be spent over a period of 5 years for the proposed Project.
- d) and e) proposed to undertake an integrated land, water, wasteland utilization and afforestation programme. It involves integration of physical or engineering systems and biological systems for sustainable development. The main objectives of the programme are:

1. Rain water harvesting and ground water recharge
2. Soil erosion and flood control
3. Afforestation and wasteland development

- f) Survey of flora and fauna in 88.395 Ha iron Ore mine and its buffer zone was undertaken by Prof. K.B.Reddy, Retd. Professor of Environmental Sciences, Acharya Nagarjuna University and his team. No rare, endangered, endemic, threatened (RRET) species of plants or animals were recorded in the study area.
- g) The waste land forms part of the mine lease area and any part of the Mine lease area cannot be delineated directly for any social purpose. In order to maximize the utilization of the waste land, the beneficiation plant is also planned in this area. The remaining area shall be suitably afforested as per the afforestation program.
- h) TOR compliance was submitted.

Based on discussions the Committee in its meeting held during July 22nd-24th, 2013 sought following information:

- (i) Details of health check up of the workers w.r.t. frequency, number of workers in buffer zone.
- (ii) Preventive measures to be adopted for workers health.
- (iii) Credible action report from concerned State Government with regard to the violation of Environmental (Protection) Act, 1986.

On submission of the information the proposal was considered in the EAC meeting held during November 24-25, 2014. It was brought to the notice of the Committee that a few complaints have been received against the Project. The complaints were discussed during the meeting. Based on the presentation made and discussions held, the Committee sought following information:

- (i) The Compliance of the Directions issued under the section 5 of the EPA.
- (ii) The status of 18.623 ha of the land as mentioned in the complaint against the Project (a copy of the complaint to be provided to PP).
- (iii) Copy of court case wherein the credible action against the Project has been taken.
- (iv) Permission for drawl of water from CGWA.

On submission of the information the proposal was considered in the present EAC meeting. In compliance to the Directions issued under the Section 5 of EPA the PP submitted letter from Department of Mines and Geology dated 20.11.2014 informing that Mine is not working since February, 2011 due to non-submission of Environmental Clearance. The Project Proponent opposed the complaint and

mentioned that the complaint is baseless. The PP also submitted that the 18.623 ha of land in Survey no. 1461 of Ganganapalli village, pendlimarri Mandal, TSR District is owned by IBC limited which is their family promoted company. The copy of letter from Mines and Geology, Kadapa confirming that court case no. C.C. No. 288 of 2014 under EPA has been registered in Court of judicial Magistrate Kadapa for taking the credible action against the Project. PP informed that they will submit a common application for all necessary clearance including the permission for ground water drawl under single window clearance system to the Commissionerate of Industries.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for grant of environmental clearance.

(2.12). Mining of Chrome Ore and Beneficiation Plant of M/S JSL Ltd., located at village - Kaliapanim, District Jajpur, Orissa (89.00ha) (enhancing the capacity of COBP plant from 36,000 TPA to 60,000 TPA; Existing capacity being 1,00,000 TPA of Chromite ore and 36,000 TPA COBP plant) (Consultant : SrushtiSewa)

The Proposal is for enhancement of production capacity of Chrome Ore Beneficiation Plant (COBP) from 36,000 TPA to 60,000 TPA by M/s Jindal Stainless Limited, located at village Kaliapani & Forest Block 27, Tehsil Sukinda, District Jajpur, Odisha. The Latitudess and Longitudes of the site are 21° 01' 12" N to 21° 02' 46" N and 85° 45' 42" E to 85° 47' 16" E, respectively.

The Proposal along with "enhancement of production of chrome ore from 0.1 million TPA to 0.215 million TPA" was considered by the Expert Appraisal Committee in its meeting held during 20-22nd January, 2010 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/369/2009-IA. II(M) dated 15th February, 2010. The mine lease area is 89.00 ha, which include 24.24 ha of forestland.

The Proposal was placed in the EAC meeting held during January 19 -21, 2011 the Committee sought following additional information:

- (i) The details of the land acquired / to be acquired outside the mine lease area for any activity of the Project should be furnished. It should inter-alia include, extent of land, its ownership, its land use, the modus of acquisition, the purpose for which it will be utilized, distance from the mine lease, R&R involved, if any etc. It may also clearly be shown whether it has been reflected in the approved mine plan. The mine plan should take into account the total area of the land to be utilized in the Project.
- (ii) It may be clarified whether any forestry clearance is required for the forestland in the safety zone. The confirmation in this regard from the competent authority should be provided.

- (iii) The AAQ data for one month should collect afresh and the data so collected should be compared with the already collected data.
- (iv) The water balance taking into account the total water requirement for the Project, its source, recirculation and reuse of water, rainwater harvesting proposed, if any, should be provided.
- (v) The approval from the competent authority regarding pumping of groundwater should be provided.
- (vi) Report of the detailed hydro-geological study reported to have been carried out should be provided.
- (vii) In the details of the first order streams passing through the mine lease area which are likely to be affected due to the Project and its impact on the hydrology of the area should be given.
- (viii) Analysis of water quality with specific reference to chromium content should be carried out through an accredited lab and results furnished.
- (ix) Quantity of waste to be generated and its management with specific reference to the number of dumps, their height, location and area should be given.
- (x) Details of tailing pond in term of its location with respect to COB plant, area, adequacy for the life of the plant keeping in view the quantity of tailing to be generated along with its closure plan should be given.
- (xi) Details of ETP along with analysis of treated effluents to be generated should be provided.
- (xii) The detailed biological study as per TOR no (xxviii) be redone and details furnished.
- (xiii) Action Plan to address the issues raised during Public Hearing should be given.
- (xiv) Occupational health impacts and their mitigation based on identification of hazards especially with regard to Hexavalent chromium (Cr^{+6}) should be given.
- (xv) Details of EMP cost and CSR should be given separately.

On submission of the information, the Proposal was reconsidered in the present meeting. The PP has submitted following point wise reply:

- (i) Not Applicable: (Presently at this time, we are requesting to consider the expansion only for Chrome Ore Beneficiation Plant-2 (COBP-2). Mining expansion would be considered at latter stage after obtaining the required land with a fresh application for Environmental Clearance)
- (ii) As per the Forest (Conservation) amendment Rules, 2004 (published in Gazette of India: Extraordinary on 3rd February, 2004 and Corrigendum on 9th February, 2004). Safety Zone for mining operation.

Para 4.11 says "Forest area required for safety zone for mining operations should not be part of the forest area proposed for diversion. However, it should be indicated separately in the Proposal. Such area will have to be fenced at the cost of the Project authority. Further, Project

authority will have to deposit funds with the Forest Department for the protection and regeneration of such safety zone area and also will have to bear the cost of afforestation over one and a half times of the safety zone area in degraded forest elsewhere. (See Annexure-xxiv)”

In view of the above, forest clearance is not required for the forestland in the safety zone.

- (iii) PP had collected one month AAQ data of the lease and buffer zone for the month of February –March 2011 and it is found that except the lease area where some variation observed in PM_{10} ranging maximum to 17 mg/m³, rest all the data are almost equivalent to the previous data.
- (iv) The water balance taking into account the total requirement of water for the Project, its source, recirculation and reuse of water and the report on rainwater harvesting was submitted.
- (v) The approval /NOC for with drawl of 1030 cum/day from CGWA vide letter no. 21-4(246)/SER/CGWA/2010-2492 dated 03.11.2010.
- (vi) A hydro –geological report was submitted.
- (vii) There are no streams passing or laying inside the lease area. One seasonal drain generated nearby the eastern boundary shall be utilized for the mining activity. However, the downstream user will not be affected due to mining. It may have positive impact by pouring the treated mine pit water into it, by which they may be benefited.
- (viii) The water sample from Damsala nala (both upstream &downstream) and nearby surface water body has been collected and analyzed at M/s IMMT (CSIR Laboratory), Bhubaneswar. From the analysis report, it is observed that the results are well within the permissible limits for inland surface water.
- (ix) Not Applicable, as presently the Mines capacity expansion Proposal is dropped.
- (x) The tailing ponds are very big in size to accommodate Minimum 15 days of tailings and water. Since both the tailing ponds will be alternatively used, each being used for one month and cleared in the immediate following month. Hence, capacity of ponds will be more than adequate, with which proposed Chrome Ore Beneficiation Plant-2 (COBP-2) can be operated without any difficulty.
- (xi) Water from mine pit is pumped to a common pucca setting/ receiving tank. Then, the water is channelized to the treatment plant through a pucca drain. A PVC tank containing $FeSO_4$ solution and a PVC tank containing alkali is placed on effluent discharge channel. Estimated quantity of $FeSO_4$ solution is continuously added and gets mixed with effluent by passing through mixing chamber comprising multiple baffles (concert Cr^{+6} to Cr^{+3} as $Cr(OH)_3$ $2Fe(OH)_3$. This is removed as sludge in the sedimentation tank through sludge removal & later is disposed to waste dump. Then water passes through the clarifier, where a special type of biological species (floating plants) will be cultivated which will act

as a bio-filter for certain heavy metals along with any remaining traces of Cr⁺⁶. Analysis report of treated effluent was also submitted.

- (xii) The biological study was carried out during the month of February 2011. Study was carried out in both core and buffer zones. The lease area of 89 ha is considered as core zone and the area around 10km. radius of the core zone over 314 Sq. Km. considered as buffer zone. For the study squares (15 m × 15m) are indentified in grid interval of 500 m and enlisted each and every flora and fauna. For the core zone 4 plots were taken for the study. The secondary data source such as consultation with local villagers for the nocturnal movement of animals was referred. No Schedule-I fauna is found in the study area.
- (xiii) The list of authenticated flora and fauna from DFO, Cuttack was submitted.
- (xiv) An Action Plan to addressing the issues raised by the public was submitted.
- (xv) As per the National Institute for occupational Safety and Health (NIOSH), occupational health related to hexavalent chromium are lungs cancer, eye contact with chromic acid, respiratory tract irritation, skin ulcer (prolonged skin contact).

As per report of PME conducted for our employees during 2011 do not show any evidence of hexavalent chromium related diseases. Few MPE reports are enclosed as Annexure-I. The test reports of urine of our chromite mines workers (enclosed as Annexure-J) do not reflect presence of Hexavalent chromium in the urine and hence no such types of diseases are inferred. Chromium present in chromites ore is not originally hexavalent, but the high temperature involved in the process result in oxidation thereby converting the trivalent chromium to hexavalent chromium. Major industrial sources of hexavalent chromium are chromate pigments (dyes & paints), chrome plating, particles released during smelting of ferrochrome ore, fume from welding stainless steel, impurities present in Portland cement etc. Hexavalent chromium in the present context is found in water only, which ranges from 0.029 to 0.045 mg/l in surface water source. There are several ways to reduce exposure to hexavalent chromium varying from operation to operation. The profound approach to reduce the hexavalent chromium in water is chemical treatment. The effluent treatment plant is being operated at mine site based on know-how from NEERI, Nagpur.

The Proposal was re-considered in the EAC meeting held during February 24-25, 2014 the Committee decided to defer the Proposal to be brought back to the Committee after the following information is submitted:

- (i) Clarification as to why 3 years time was required (for submission of information sought by EAC in its meeting held during January 19 -21, 2011) shall be given.
- (ii) Fresh baseline data for one month shall be collected and re-submitted.
- (iii) Certified Compliance report of earlier EC from R.O. including compliance

- to air and water consents shall be submitted.
- (iv) The mining of dump shall be incorporated into the mining scheme and approval shall be taken from IBM.
 - (v) Low grade chrome ore utilization potential and Proposal for R&D study shall be submitted.
 - (vi) Point wise details of Action Plan on Public Hearing comments/suggestions shall be provided.
 - (vii) A report on studies (R&D, pilot) done for extraction of Ni from Ni bearing waste shall be given.

On submission of the information, the proposal was considered in EAC meeting during 25-26 September 2014. The Proponent submitted that the delay of almost 15 months occurred due to their effort to obtain permission for diversion of 35.15 Ha of Forest Land required for mining Project. The present Proposal is with revised scope for the expansion for COBP-II which would be located within the existing mine lease area. Fresh baseline data for the month of May 2014 has been collected through M/s Nilawar laboratories. Certified copies of compliance report for EC conditions and compliance under Air and Water Consent from Regional Officer, Odisha PCB dated 24.06.2014 was submitted. The approved mining scheme envisages provision for the utilization of tailings of COBP-1 in future. M/S JSL Ltd. Have initiated action by sending samples for analysis to IBM, Nagpur and the results of the analysis are awaited. Parallel action for initiation of such R&D activity through IMMT, Bhubaneswar was taken and it is under their active consideration. The Action Plan for the Public Hearing was submitted. Regarding the study (R&D, pilot) for extraction of Ni from Ni bearing waste, PP informed that initiation of such activity had been done earlier by M/s Tata Steel (who have the adjacent Block lease) in collaboration with IMMT, Bhubaneswar. However this Project turned out to be unviable for financial reasons i.e. very high cost. Subsequently, this matter of extraction of Ni has been taken up by the Central Government and JSL is committed to be part of this Project and will undertake to pay proportionate share of the Project cost. The Committee desired that the Proponent shall furnish the following information for further consideration:

- (i) In the RO compliance Report, it is mentioned that the piezometers are yet to be installed. The PP shall install piezometers at designated locations covering the whole lease and monitoring of ground water level and chromium shall be done.
- (ii) In the RO compliance Report, it is mentioned that 16 TPH COB plant is already installed and trial run completed, this is a violation of the EPA; therefore an explanation shall be submitted.
- (iii) Only four parameters for AAQ were monitored. As per notification 2009, all the 12 parameters shall be monitored and data submitted.
- (iv) A letter from concerned Authority that the forest land involved in the mine lease is not under any dispute.
- (v) Report of IMMT on potential of low grade chrome utilization shall be submitted.

- (vi) Nickel R&D efforts made so far will be submitted with all information on involvement of various Organizations and stipulations of IBM for conservation and management of Ni bearing overburden.
- (vii) The compliance report of RO including Public Hearing earlier conducted while obtaining EC in 2001.

On submission of the information the proposal was reconsidered in the present meeting. The RO in its compliance report dated 02.02.2015 has mentioned that they had two bore wells as monitoring stations for ground water monitoring and drilling of 4 more bore wells for the installation of piezometers to form a network is in progress. RO monitoring report also pointed out they have obtained consent to establish for their COB Plant from the OSPCB and completed their construction and not commissioned for want of environmental clearance. It was pointed out in that report that without environmental clearance they have completed their construction; however the plant is not commissioned. It was informed that as per notification 2009, all the 12 parameters are now being monitored and the PP submitted a letter of Collector, Jajpur issued vide no. 553/2002-Mining dated 24.01.2002 that the forest land involved in the mine lease is not under any disputes. PP submitted report of IMMT on potential of low grade chrome utilization. The PP stated that the nickel R&D efforts have indicated that the extraction of nickel was economically and environmentally not viable and as per the Rule 16 of Mineral Conservation and Development Rules, 1988 (MCDR), separate stacking of non-saleable minerals is being done. The compliance report of RO indicates that the overall implementation of the commitment made during the Public Hearing earlier conducted while obtaining EC in 2001 is partly satisfactory because the peripheral villages near to the mining area were found to be inadequately provided with facilities like health care, drinking water and communication. The committee discussed the proposal at length, since the case is being considered in different meetings and since the PP has provided all the necessary information to the Committee, the committee decided to **recommend** the proposal for the enhancement of production capacity of COBP plant from 36,000 TPA to 60,000 TPA.

(2.13) Nuagaon Iron Ore Mines, M/s KJS Ahluwalia, located at village(s) Nuagaon, Guali, Topadihi, Barpada and Katasahi, Tehsil Barbil, Keonjhar District, Odisha over an area of 767.284 Ha- EC Amendment.

The Nuagaon Iron Mine of M/s KJS Ahluwalia (767.284 Ha) is located in village(s) Nuagaon, Guali, Topadihi, Barpada and Katasahi, tehsil Barbil, Keonjhar District, Odisha. The mine is being worked for a rated capacity of 5.62 Million Tonnes Per annum (MTPA). Out of the total area of 767.284 ha, 525.762 ha is forest area and the remaining 241.522 ha is non forest area. Forest clearance was obtained under FC Act 1980 for 371.192 ha vide letter no: 8-17/2001-FC, dated 22.04.2004. Forest clearance for the entire forest area including the safety zone has already been applied for. Present Lease period is valid till 03.12.2019.

Environment clearance for 5.62 MTPA iron ore production was issued by MOEF vide letter no. J-11015/1156/2007-IA.II (M) dated 2.2.2010. The Environmental clearance stipulates a specific condition (item V) "Alternative transport system such as dedicated Railway siding for transportation of mineral from their mine shall be studied and put in place at the earliest but not later than five years. No mineral transportation by road shall be permitted beyond 5 years".

Thus the proposal is for amendment of EC condition item V. The proposal was considered in the EAC meeting held during December 2013 and the Committee noted that the PP had not taken any compliance action on this EC stipulation during the last three years, nor had they informed the Ministry about their intent not to fulfil the same. The present appraisal is therefore without any prejudice to the binding nature of the item V.

The Agenda item before the Committee relates to withdrawal of the aforesaid special condition V in the EC. It was requested by the PP that in view of widening and expanding of the NH-215 in the vicinity, as also development Works of the Railways to augment the evacuation capacities from the existing Sidings onwards to bulk unloading destinations like the Paradeep Port, now there is no specific requirement of an additional Railway Siding within their lease hold area. They claim that Road transportation up to the existing Railway Sidings within the 20 Km vicinity and Rail transportation thereafter, appear to be a better alternative to the aforesaid special EC condition. The basic purport of their contention appeared to be that there has been a substantial expansion of road/rail transport capacities since pre-EC stage of the Project (i.e. in the year 2008-09), hence there is no more any need for the stipulated additional dedicated Railway Siding.

In support of their above request for continuation of 'status quo', the PP has brought out a field study on existing road and rail network, present mode of transport of mineral, various capacity building works on both the modes of mineral movement from the Mines towards their destinations and possibility and viability of alternate modes of transport. Authorship of the 'study' was attributed to 'Creative Engineers & Consultants, Chennai and a'XYKno Infrastructure Pvt. Ltd, Nagpur.

The Committee Members who had perused the 'Study Report', observed that the Report lacks authenticity, as the credentials of the Consultancy Firms, their 'Accreditation status', the experience and expertise profiles of the Study Team Members are not at all clear. The study period, details of public source documents relied upon, certification/ endorsements of the Agencies involved like NHAI, Indian Railways, CPWD/ PWD were also not provided. As multiple Users are involved, the present traffic densities quoted and Projections made also need to be verified/ authenticated by the concerned Agencies. The comparative studies of Rail /Road /Belt Conveyor alternatives lack details and are far from convincing. There is no evidence of any consultation /discussion with the concerned Authorities of the State Govt./ Railways in regard to various claims made/conclusions drawn.

The Committee was of the view that the PP should resubmit a thoroughly Refurbished Report after rectifying all the aforesaid deficiencies and necessary consultations with the State Government and other concerned Authorities like the Railways, NHAI, CPWD/PWD are held and their views on the subject matter ascertained and reported.

On submission of information the proposal was considered in the present meeting. The PP submitted that the mine is not operating as the mine lease was under second and subsequent renewal therefore the mine is closed post Hon'ble Supreme Court order dated 16.05.2014. The PP submitted the traffic study for Feasibility of Mineral Transportation in Joda-Barbil, Odisha was carried out by Central Road Research Institute (CRRI), New Delhi during 2013-14 and the report was given in Aug – 2014. However, the report does not have any authentication from CRRI. The Pre feasibility of Alternative transport system such as dedicated Railway Siding /Conveyor Belt System/Road Transport for transportation of mineral from their mine to nearby existing railway siding was also carried out by "M/s a'XYKno Infrastructure Pvt. Ltd" during the year 2012. After the detailed deliberations, the Committee was of the view that reports submitted by the PP were still vague and not specific to the mine lease and were not authenticated by the Organization claimed by the PP. The State Government was also not consulted while preparing the Report.

The Committee was of the view that the PP should resubmit the Report with **authentic information in consultation with the State Government. In addition, it may also be ascertained from the State Government whether any order for determination of Mining Lease/rejection of Mining Lease, if any, has been passed by the State Govt. in respect of this mine, post Supreme Court order dated 16.05.2014. The proposal may be brought back on submission of the above information.**

The Committee decided that the Proposal be **deferred** till the aforesaid information is submitted and the Proposal will be re-considered thereafter.

CONSIDERATION OF TOR PROPOSALS

(2.14). Pathrai Bauxite Mine of M/s Chhattisgarh Mineral Development Corporation Ltd.(CMDC) located at Village –Pathrai, Tehsil-Sitapur, District-Surguja, Chhattisgarh (99.350ha)(2,00,000TPA).

The proposal is for opening new mine of M/s Chhattisgarh Mineral Development Corporation Ltd. (CMDC), Raipur located at Village-Pathrai, Tehsil- Sitapur, District- Surguja, Chattisgarh. Project location is coming in the topo-sheet number 63 N/5. Latitudes and Longitude of the site is 22° 47' 25.3" to 22°48' 01.5" N and 83° 15' 06.9" to 83° 15' 37.4" E respectively. Total geological reserve is 22, 31,765 tonnes. Total mineable reserve is 9, 62,225 tonnes. Life of the mine is 6 years. The state govt. has issued Letter

of Intent (LOI) vide order no F-3-4/2007/12, dated 10/07/2013 and thereafter the same has now been extended further six months vide letter No. F-3-4/2007/12, dated 31/03/2014.

The mining operation will be carried out by open cast mining method. Proposed capacity of the mining is 2,00,000 TPA. Total water requirement for the proposed Project is 56.2 KLD i.e. including drinking, domestic, dust suppression and green belt development. Total Project Cost is Rs. 11 Crores.

Based on the information furnished and presentation made by the PP and discussions held, the Committee **prescribed** the TORs as per Annexure-I.

(2.15). Barima Bauxite Mine of M/s Chhattisgarh Mineral Development Corporation Ltd. (CMDC) located at Village-Barima, Tehsil-sitapur, District-Surguja, State –Chhattisgarh (54.268ha) (1,15,327TPA)

The proposal is for opening new bauxite mine of M/s Chhattisgarh Mineral Development Corporation Ltd., mine is located at Village- Barima, Tehsil- Sitapur, District- Surguja, State- Chhattisgarh over an area of 54.268 Ha. Project location is coming in the topo-sheet number 63N/5. Latitudess of the site are 22⁰47'35" to 22⁰47'42" N & Longitudes 83⁰19'39" to 83⁰19'39". The proposed lease area is having 7,05,186 tonnes geological reserves in which about 6,63,814 tonnes are mineable reserves. Life of the mine is 7 years.

The area was earlier prospected by Directorate of Geology and Mining (DGM), during their field seasons 1994 – 1997, the Report has been recently finalized and published during 2014. The letter of intent for preparation of Mining Plan was issued vide letter No. F-3-2/2005/12, dated 23/06/2006, accordingly the Mining Plan for the above said area has been prepared and duly approved by IBM vide letter No. SRG/Bx/MPLN-947/NGP dt. 02/02/2007. The area has been sanctioned for Mining lease by Mineral Resource Department, Govt. of Chhattisgarh, vide letter No. F 3-2/2005/12, Raipur dated 27/10/2009.

The mining operation will be carried out by open cast mining method. Removal of top soil and laterite (OB) will be dozed off separately and temporarily stocked separately near the pit face. Proposed capacity of the mining is 1,15,327 TPA. Total water requirement for the proposed Project is 51.2 KLD i.e including drinking, domestic, dust suppression and green belt development. Total Project Cost is Rs. 50 lakhs.

Based on the information furnished and presentation made by the PP and discussions held, the Committee **prescribed** the TORs as per Annexure-I.

(2.16). Balu /Sand Mining (Minor Mineral) of M/s NM Food Products located at Village- Mohani, Tehsil-Munger, District-Munger, Bihar (225ha).

The Proposal of M/s NM Food Products is for mining of Balu/Sand with production capacity of 18,66,240 MT per annum of Balu/Sand in the mine lease area of 225 Ha. The applied area is River bed of Various rivers, namely Ganga River, Mohane River/Sakri River, Balharna Nadi, Badhua Nadi and Girdha Nadi of District Munger, Bihar. The Latitudess and Longitudes of mine lease area for Ganga River, West end:-N 25°19'27"E 86°19'08" East end:-N 25°15' 00" E 86°43'33" For Mahani River SW end:-N24°57'15" E 86°32' 39' NE end :-N 25°08' 56" E 86°36' 04" For Belharni Nadi South end :-N24°56'41" E 86°35' 21" North end:-N 25°02' 30" E 86°36' 58" and for Badhua Nadi South end :-N24°57'59" E 86°37' 46" North end:-N 25°05' 32" E 86°40' 38" with Toposheet no. 72 K/12 and 72L/9. It was reported by the PP that no National park & wild life sanctuary falls within 10 km radius of the Project site. There is one Reserve forest (Bhatia Reserve forest, 9km,SE) and Five Open/Open Mixed/Dense Jungle found within 10 km radius of the mine site.

Total Mine lease area is 225 Ha. Method of mining will be open cast and semi mechanized. Loading of waste & Sand in to trucks/Trippers will be done by using excavator and transported to local markets. Total water requirement for the proposed Project will be 18 KLD for mining operation(dust suppression) and for domestic & drinking purposes will be supplied from Nearby villages or Dug well/Tube well situated outside the lease area. The cost of the Project is Rs. 17.65 Crores. LOI has been granted to M/s NM Food Products by District Mining Officer, Munger vide memo no. VIII-02/2014/486/M dated 13.11.2014 for a period of five years. Mining Plan with progressive Mine Closure Plan has been submitted and approval is under process.

The Project Proponent vide his letter dated 5.3.2015 informed the EAC regarding collection of baseline data from 1st March 2015 and requested that study period maybe considered from March to May 2015 to avoid the forthcoming rainy season.

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 agreed with the Project Proponent's request for collection of baseline data from March to May 2015.

(2.17). Balu/Sand Minin (Minor Mineral) of M/s Jai Mata Dee Enterprises located at Village- Nadirganj, Tehsil- Nardiganj-district-Nawada, Bihar (402.98ha)

The Proposal of M/s Jai Mata Dee Enterprises is for mining of Balu/Sand with production capacity of 41,47,000 MT per annum of Balu/Sand in the mine lease area of 402.98 Ha. The applied area is River bed of Various rivers, namely, Sakri River, Panchane River, Nati River, Tilaya River, Thathar River and Dhanarjay River & Khuri River of District Nawada, Bihar. The Latitudess and Longitudes of mine lease area for Sankar River, North End : -N 25°01' 42" E 85°34' 06' South End :- N 24°46' 52" E

85°44' 25' ' For Panchane River North End: - N 25°00' 54'' E 85°31' 18' South End: - N 24°55' 55'' E 85°25' 00'' For Nati River North End :- N 24°55' 00'' E 85°50' 30'' South End :- N 24°48' 22'' E 85°57' 23'' ' for Tilaya River North End :- N 24°55'44'' E 85°24' 43'' South End :- N 24°34' 45'' E 85°19' 48'' for Thathar River North End :- N 24°55'55'' E 85°25' 00'' South End :- N 24°34'45'' E 85°19' 48'' for Dhanarjay River North End :- N 24°57'00'' E 85°29' 16'' South End :- N 24°35'10'' E 85°34' 06'' and for Khuri River North End :- N 24°59'40'' E 85°29' 25'' South End :- N 24°38'57'' E 85°32' 48'' with Toposheet no. 72 G/8 , 72G/12, 72 G/16, 72H/5, 72H/6, 72H/9, 72H/10, 72H/13. It was reported by the PP that no National park & wild life sanctuary falls within 10 km radius of the Project site. There are two Reserve forest (Dubaur Reserve forest, 0.5 km, E and Kodarma Reserve forest- 1km S) and three Protected forest found within 10 km radius of the mine site.

Total Mine lease area is 402.98 Ha. Method of mining will be open cast and semi mechanized. Loading of waste & Sand in to trucks/Trippers will be done by using excavator and transported to local markets. Total water requirement for the proposed Project will be 36 KLD water for mining operation(dust suppression) and for domestic & drinking purposes will be supplied from Nearby villages or Dug well/Tube well situated outside the lease area. The cost of the Project is Rs. 81.9 Crores. LOI has been granted to M/s Jai Mata Dee Enterprises by District Mining Officer, Nawada vide memo no. No. 860 dated 01.11.2014. Mining Plan with progressive Mine Closure Plan has been submitted and approval is under process.

The Project Proponent vide his letter dated 5.3.2015 informed the EAC regarding collection of baseline data from 1st March 2015 and requested that study period maybe considered from March to May 2015 to avoid the forthcoming rainy season.

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 agreed with the Project Proponent's request for collection of baseline data from March to May 2015.

(2.18). Palar, Bawal & Tanda Diaspore & Pyrophyllite Mine of M/s J.K Minerals located at Villages-Palr, Bawal&Tanda, Tehsil-Jhansi, District Jhansi, Uttar Pradesh (72.50ha) (7,510 TPA-Pyrophyllite& 1,300 TPA-Diaspore).

The Mine Lease area is located at Village- Palar, Bawal & Tanda; District: Jhansi State: Uttar Pradesh. The Mine Lease area is between Latitude 25°32'05.8" - 25°31'19.1" N and Longitude 78°40'36.3" - 79°39'54.7" E. The Project is located in seismic zone-II. The mining lease area falls in Survey of India Toposheet No. 54 K/10, 54 K/11, 54 K/14 & 54 K/15. The Mining Lease was executed on 28.01.1974 for a period of 20 years over an area of 72.50 ha to M/s Eastern Mineral in villages Palar, Bawal & Tanda. The lease was transferred to M/s J.K Minerals on 11.04.1991. Lease expired on 27.01.1994 & first renewal was granted for a period of 10 years from

28.01.1994 which expired on 27.01.2004. Second renewal was applied on 24.08.2002 for a period of 20 years. The letter of approval for second renewal of mining lease from Government of Uttar Pradesh has been obtained vide letter 2633 (2)/86-2014-323/82 dated 5.12.2014. The mining scheme approved vide letter no. UP/Jhansi/Pyro-Dias./M.Scheme-04/2013-14 dated 13.08.2014.

The open cast mining will be done by manual method along with drilling and blasting. Mining will be carried out by developing systematic, regular and separate benches in OB and mineral to achieve desired production. It was noted by the committee that this is a **violation case** as mine continued to operate after its renewal fell due on 01.09.2003, without obtaining Environmental clearance. The mine is closed since 29.11.2014. The cost of the Project is Rs. 50 lakh.

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

**(2.19).Kakudi and Kishoripal Sand Mine of M/s Mahanadi Coalfields Ltd.
Located at Village-Kakud, Tehsil- Kishoripal, District-Angul, Odisha
(41.885ha)**

The proposal is of Kakudi and Kishoripal Sand Mining in the river bed of Brahmani. The end use of this sand Project is used in the voids of Underground mines of Talcher area, MCL which is a statutory requirement for carrying out Extraction of Coal/Depillaring operation with sand stowing/filling the Underground coal mines of Talcher Area,viz: Talcher, Nandira, Deulbera, Handidhua, which are all old and extensive. Presently, no coal production is being carried out in Deulbera and Handidhua Collieries; however sand Filling/stowing is being done in the old workings of these mines for their stabilization and protection of surface infrastructure. Presently the working mines are Talcher Colliery and Nandira Colliery where sand is required for stowing. The proposal was considered in MOEFCC as Category 'A' Project as it is located within 5 km radius of Talcher CPA.

The sand mining lease has been granted by Govt. of Odisha from 14.11.1990 to 14.11.2010. The application of renewal of lease has been submitted since 30.11.2009 and it is pending due to lack of Environmental Clearance. The Mining Plan of Kakudi/Kishoripal sand mine has been approved by Govt. Of India , Ministry of Coal, New-Delhi vide letter no 34012/ (4)/2011-CPAM dated 21st Aug, 2013.

The mine site is located at Village Kakudi and Kishoripal in the Tahasil of Talcher, Dist Angul, Odisha. The Latitudes of the site are N 20⁰57'04" to 20⁰58'02" and Longitudes are E 85⁰14'14" to 85⁰14'08"3. The Geological reserves are 0.846 MM³ and Mineable reserve are 0.35 MM³ . The proposed method of Mining would be mechanical winning of sand by Excavators and Tipping Trucks. The annual production capacity will be 0.25 MM³. The life of the mine will be 20 years. The Capital cost of the Project will be Rs.438.61 Lakhs.

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

(2.20). Mining of Sand Stone and Bajri of Shri Karan Singh Pathania Village Bain Attarian, Tehsil Indora, District Kangara, Himachal Pradesh (11-67-92ha) (46200 metric tons/Year).

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

CONSIDERATION OF ENVIRONMENTAL CLEARANCE

(2.21). Mining of Mineral Bajri (Minor Mineral) with proposed production capacity of 18.0 Lakh TPA (ROM) by M/s Arjun Singh s/o Shri Ramender Singh, located at Revenue village(s) of Tehsil-Ahore, District-Jalore, Rajasthan (4376.84ha) (Consultant: Vardan Environet, Haryana)-Consideration of EC

The proposal of Shri Arjun Singh s/o Shri Ramender Singh is for mining of Bajri (Minor Mineral) at Revenue village(s) of Tehsil-Ahore, District-Jalore, Rajasthan with proposed production capacity of 18.0 Lakh TPA (ROM) of Bajri in the mine lease area of 4376.84ha. The mine lease area lies on Sukari, Jawai and Mithari River bed. The Latitudes and Longitudes of the mine lease area lies between 25°45'41.32"N - 25°25'31.89"N and 72°49'41.25"E - 72°41'51.43"E on Survey of India toposheet numbers 45C/9, 45C/10, 45C/11, 45C/13, 45 C/14 & 45 C/15. The Project is located in Seismic zone-II.

The proposal of TORs was considered by the Expert Appraisal Committee in its 12th Meeting held during 31st October-1st November, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter No. J-11015/388/2013-IA.II (M), dated 22nd November, 2013. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environmental clearance after conducting Public Hearing.

The mine lease area is 4,376.84 ha which is Gair mumkin Nadi Nala. No forest land is involved. Letter of Intent (LOI) for grant of mining lease for minor mineral Bajri over an area of 4376.84 ha. has been granted from Director of Mines and Geology Department, Govt. of Rajasthan vide letter dated 27-07-2013 for the period of 5 year to Mr. Arjun Singh. The Mining Plan is approved by Director, Mines and Geology, Govt. of Rajasthan vide letter no.SME/JO/CC/JALORE/MINOR/BAJRI/M.L.No.-28/2013/15653,dated 22.11.2013.

Proponent informed that 238.90ha area will be used for excavation, 3.95ha for road, 11.9ha for Green belt development and 4,122.88 ha area will the others (undisturbed area). Mining is by semi-mechanized opencast method. Excavation will

be carried out up to a maximum depth of 3 meters from surface of deposit and not less than one meter from the water level of the River Chanel whichever is reached earlier. Mineral will be transported through road.

Proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). The total water requirement is 41 KLD including water demand for domestic purpose, dust suppression and green belt development which shall be met by tanker supply. The working is proposed on higher elevations; no ground water interception during the mining operations is envisaged.

The baseline data was generated for the period 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 on 13-08-2014 at 3:00 pm at Upkhand Mukhyalaya, Tehsil-Ahore, District Jalore, Rajasthan. The Public hearing was presided over by by Shri Asha Ram Dudi, ADM. The representatives from the Rajasthan State Pollution Control Board were also present. The issues raised during the Public Hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, social and other village development activities and not to harm nearby fields.

The cost of the Project is Rs. 5.17 Crores. The Proponent has earmarked Rs. 36.0 Lakhs towards Environmental Protection Measures and Rs. 11 Lakhs per annum towards recurring expenses. Proponent informed that Rs. 10 Lakhs per annum have been earmarked towards CSR activities for next five years of mining operation. The Proponent has earmarked budget of Rs. 11 lakhs for Biodiversity Conservation. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~3,04,241 MT of Bajri has been made after grant of Temporary Working Permission for Bajri mining by Joint Secretary, Administration, Govt. of Rajasthan, Mines (Group-2) vide his letter dated 19-12-2013.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for **Mining of Mineral-Bajri (Minor Mineral) with proposed production capacity of 18.0 Lakhs TPA (ROM).**

The Committee **recommended** additional specific conditions viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be

provided medical facilities; (ii) Transport of mineral will not be done through any of the villages; (iii) Project Proponent shall plant native plant species and local species as suggested by villagers/specialists; (iv) Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (v) Implementation of Action Plan on the issues raised during the Public Hearing. The proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing held on 13.08.2014; (vi) The mining will be done in Blocks in different sites of the applied lease area. Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; and (xi) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Rajasthan and any other Court of Law.

(2.22). Mining of Bajri (Minor Mineral) in the Mine of Parbatsar with proposed production capacity of 25.0 Lakhs TPA (ROM) of Bajri by M/s Shri Sher Singh s/o Shri Mangal Singh, located at Revenue village(s) of Parbatsar viz. Baghot, Bassi, Bhagwanpura, Baddiya, Javla, Kharkheri, Pih and Kurara, District-Nagaur, Rajasthan (415.07 ha)(Consultant: Udaipur Mintech Pvt. Ltd.)-Consideration of EC.

The proposal of M/s Shri Sher Singh s/o Shri Mangal Singh is for River Bed Mining of Bajri (Minor Mineral) in the Mine of Parbatsar with proposed production capacity of 25.0 Lakhs TPA (ROM) of Bajri. The mine is located at Revenue village(s) of Parbatsar viz. Baghot, Bassi, Bhagwanpura, Baddiya, Javla, Kharkheri, Pih and Kurara, District-Nagaur, Rajasthan in the mine lease area of 415.07 ha. The applied lease area lies between Latitudes and Longitudes 26°46'21.29" to 26°47'55.10" N and 74°37'54.68" to 74°27'53.24" E respectively on the Survey of India toposheet no. 45J06 & 45J09.

The proposal of TORs was considered by the Expert Appraisal Committee in its 18th meeting held during 20-21 March 2014, for undertaking detailed EIA study. The TORs were prescribed by the Ministry vide letter no. J-11015/318/2013-IA.II (M) dated. 09.12.2013. The Proponent submitted the EIA/EMP Report online to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

The total mine lease area is 415.07 ha which is waste land (River bed). No forest land is involved. The Letter of Intent was issued by Joint Secretary, Mines (Group-2), Government of Rajasthan, letter no. P.7 (2) Khan/Group-2/2013, Jaipur dated 15.02.2013. As per RMMCR 1986, validity period of lease is five years. The mining plan with progressive mine closure plan was approved by Suptdg. Mining Engineer, Ajmer vide letter no. SME/Aj/Mining Plan/F-175/2013/692 dated 16.01.2014. Proponent informed that 3.65ha area will be used for excavation, 1.68ha for Infrastructure and 409.74ha area will be the others (undisturbed area). Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and not less than one meter from the water level of the River Chanel whichever is reached earlier. Mineral will be transported through road using Truck /Dumper. Mineable reserves as per the Mine Plan are 1,68,05,836 MT. Total water requirement is 16.0 KLD. The required water will be available from Dug well situated nearby villages. The mining will be done in Blocks in different sites of the applied lease area. Plantation will be taken up along the approach roads and vicinity of river bank.

Proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries, Habitat for Migratory Birds, Tiger Reserves falls within the study area (10 km radius of the mine boundary). The Project is located in seismic zone-II. One protected Forest is present in the study area near village Peelwa about 9.5 kms from the lease.

The Base line data was generated for the period during winter season i.e. December 2013 to February 2014. All the parameters for water and Air quality were within the permissible limits. The Public Hearing was held on 27.08.2014 at Rajiv Gandhi Seva Kendra, village- Janjila, Tehsil – Parbatsar, District-Nagaur, Rajasthan, which was presided over by Shri Suresh Chandra, ADC. The representatives of Rajantahn State Pollution Control Board were also present. The Committee discussed the issues raised during Public Hearing. PP has to undertake CSR activities in the nearby villages as per need basis of the nearby villages and plantation will be done as per the suggestions and requirement of the local villagers.

The total cost of the Project is 1.0 Crore. The Proponent has earmarked Rs. 19.5 Lakhs towards Environmental Protection Measures and Rs. 3.85 Lakh per annum towards recurring expenses. Proponent informed that Rs. 10.5 Lakhs per annum have been earmarked towards CSR activities for next five years of mining operation. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~16,057 MT of Bajri has been made during January 2014 to January 2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for **Mining of Mineral-Bajri (Minor Mineral) with proposed production capacity of 25.0 Lakhs TPA (ROM)**.

The Committee **recommended** additional specific conditions viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities; (ii) Transport of mineral will not be done through any of the villages; All the old age people of the surrounding villages may be provided medical facilities; (ii) Transport of mineral will not be done through any of the villages; (iii) Project Proponent shall plant native plant species and local species as suggested by villagers/specialist; (iv) Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (v) Implementation of Action Plan on the issues raised during the Public Hearing. The proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing held on 13.08.2014; (vii) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; and (xi) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Rajasthan and any other Court of Law.

(2.23).Mining of Bajri (Minor Mineral) in the Mine of Merta and Degana with proposed production capacity of 25.0 Lakhs TPA (ROM) of Bajri by M/s Shri Meghraj Singh s/o Shri Kalyan Singh Shekhawat, located at Revenue village(s) of Tehsil Merta and Degana namely Badayali, Ladpura, Riyabadi, Alaniabas, Jasnagar, Rohisan, Rohisi, Lungiya, Dasawas, Devaria Jatan, Ladwa, Jagannathpura, Kiron Ki Dhani, Bijathal, Jhitan District-Nagaur, Rajasthan (408.1216 ha)-(Consultant: Udaipur Mintech Pvt. Ltd.)-EC consideration.

The proposal of M/s Shri Meghraj Singh s/o Shri Kalyan Singh Shekhawat is for Mining of Bajri (Minor Mineral) in the Mine of Merta and Degana with proposed production capacity of 25.0 Lakhs TPA (ROM) of Bajri. The mine is located at Revenue village(s) of Tehsil Merta and Degana namely Badayali, Ladpura, Riyabadi, Alaniabas, Jasnagar, Rohisan, Rohisi, Lungiya, Dasawas, Devaria Jatan, Ladwa, Jagannathpura, Kiron Ki Dhani, Bijathal, Jhitan District-Nagaur, Rajasthan in the mine lease area of 408.1216 ha. The applied lease area lies between Latitudess and Longitudes: East Block=26°30'54.48" to 26°30'36.09" N and 74°16'7.33" to 74°21'57.76" E , Middle Block = 26°30'10.63" to 26°30'54.48" N and 74°11'10.13" to 74°16'7.33" E, West Block = 26°25'58.01" to 26°30'10.63" N and 74°4'36.68" to 74°11'10.13" E respectively on Survey of India Toposheet No 45J/3 & 45J/6.

The proposal of TORs was considered by the Expert Appraisal Committee (mining) in its 18th meeting held during 20-21 March 2014, for undertaking detailed EIA study. The TORs were prescribed by the Ministry vide letter no. J-11015/316/2013-IA.II (M) dated 09.12.2013. The Proponent submitted the EIA/EMP Report online to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

The total mine lease area is 408.1216ha which is waste land (River bed). No forests land is involved. The Letter of Intent was issued by Assistant Mining Engineer, DMG, Gotan letter no. Sakhah/Gotan/Bajri/2012/360 dated 31.10.12. As per RMMCR 1986, validity period of lease is five years. The mining plan with progressive mine closure plan was approved by Suptdg. Mining Engineer, Ajmer vide letter no. SME/Aj/Mining Plan/F-176/2013/699, dated 16.01.2014. Proponent informed that 260.50ha area will be used for excavation, 1.20ha for Roads and 30.0ha area will be Green belt and 116.4216ha for the others (undisturbed area). Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and not less than one meter from the water level of the River Chanel whichever reached earlier. Mineral will be transported through road using Truck /Dumper. Total water requirement is 20.0 KLD. The required water will be available from Dug well situated nearby villages. The mining will be done in three blocks in different sites of the applied lease area. Plantation will be taken up along the approach roads and vicinity of river bank.

Proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries, Habitat for Migratory Birds, Tiger Reserves falls within the study area (10 km radius of the mine boundary). The Project is located in seismic zone-II. Two Protected Forest in the study area; one near village Lambiya and another PF near village Kanwaliya Kalan.

The Base line data was generated for the period during winter season i.e. December 2013 to February 2014. All the parameters for water and Air quality were within the permissible limits. The Public Hearing was conducted on 26.08.2014 at Rajiv Gandhi Seva Kendra, village- Gujron Ki Dhani, Bijhathal, Jantiya Tehsil – Merta & Degana, District Nagaur, Rajasthan which was presided over by Shri Suresh Chandra, ADC, Nagaur. The representatives of Rajasthan State Pollution Control Board were also present. The issues raised during Public Hearing were discussed during the meeting, which inter-alia included priority to local people in employment and protection of nearby fields and social development of the village. The PP has mentioned that they will undertake CSR activities in the nearby villages as per need basis of the nearby villages and plantation will be done as per the suggestions and requirement of the local villagers.

The total cost of the Project is 1 Crore. The Proponent has earmarked Rs. 11.50 Lakhs towards Environmental Protection Measures and Rs. 3.20 Lakh per annum towards recurring expenses. Proponent informed that Rs. 10.5 Lakhs per annum have been earmarked towards CSR activities for next five years of mining operation. The Project Proponent has also made a submission that in accordance to Hon'ble Supreme Court of India's orders dated 25.11.2013, 24.02.2014 and 27.03.2014 (In Civil Appeal No. 9703-9706 of 2013) production of ~15,43,575 MT of Bajri has been made during January 2014 to January 2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for **Mining of Mineral-Bajri (Minor Mineral) with proposed production capacity of 25.0 Lakhs TPA (ROM)**.

The Committee **recommended** additional specific conditions viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities; (ii) Transport of mineral will not be done through any of the villages; All the old age people of the surrounding villages may be provided medical facilities; (ii) Transport of mineral will not be done through any of the villages; (iii) Project Proponent shall plant native plant species and local species as

suggested by villagers/specialist; (iv) Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (v) Implementation of Action Plan on the issues raised during the Public Hearing. The proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing held on 13.08.2014; (vii) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; and (xi) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Rajasthan and any other Court of Law.

RECONSIDERATION OF ENVIRONMENTAL CLEARANCE:

(2.24). Enhancement of Limestone production in Captive Limestone mine from 17.2 million TPA to 19.6 million TPA (ROM) of limestone by M/s Shree Cement Ltd., located at village(s) Nimbeti and Jawangarh, Tehsil-Jaitaran, District-Pali, Rajasthan (750ha) (Consultant: Enkay Enviro Services Pvt. Ltd.)-Reconsideration EC

The proposal of M/s Shree Cement Ltd. is for enhancement of Limestone production in Captive Limestone mine from 17.2 million TPA to 19.6 million TPA (ROM) of limestone in the mine lease area 750ha. The mine lease area is located at Village(s)- Nimbeti & Jawangarh, Tehsil – Jaitaran, District – Pali, Rajasthan.

The proposal of EC was earlier appraised by the EAC in its meeting held during August 26-27, 2014 wherein the EAC deferred the proposal and sought the following information/clarifications for further decision in the matter:-

- (i) The Mining Engineer, Mines and Geology, State Govt. of Rajasthan vide letter dated 27.01.2014 addressed to Project Proponent informed that mine lease area falls in the definition of Aravali hill range. The PP needs to submit a certificate from Forest & Environment Department, Rajasthan on applicability of the Aravali Notification issued under E (P) Act, 1986.

- (ii) One Schedule-I species namely Peafowl was reported within buffer zone. Conservation Plan duly approved by the Chief Wildlife Warden along with budgetary provisions and implementation schedule need to be submitted;
- (iii) Details of actions to be provided with regard implementation of commitment made in earlier Public Hearing held for EC dated 27th August' 2012;
- (iv) Action Plan with budgetary provision and implementation schedule on the issues raised during Public Hearing held on 18.02.2014;
- (v) The Regional Office of MoEF to visit the mine site and submit the compliance of earlier EC conditions by specifically providing details on improvement in Environmental Standards after obtaining the EC i.e. of 27.08.2012 and also implementation of all accepted recommendations of Public Hearing proceedings. Further, a Report may be submitted on other CSR activities as informed by PP by physical verification of the villages; and
- (vi) As informed by the PP of their proposed scheme for development of the village Jawangarh which is located within the study area of the mine lease, a copy of the Plan and Work executed till date may be submitted.

In this context, the Project Proponent vide letter dated 17.12.2014 has submitted the information/clarification and accordingly the proposal is considered in the present meeting. The point wise explanation of the queries is given by the Project Proponent as below:

- (i) With regard to certificate of Department of Environment, Govt. of Rajasthan, PP has obtained certificate from the Department of Environment, Govt. of Rajasthan vide letter no. F EIA (8)/Dir/2014, dated 10/10/2014 for non-applicability of the Aravali Notification under E(P)Act, 1986.
- (ii) With regard to Peafowl Conservation plan, the Additional Principal Chief Conservator of Forests & Chief Wildlife Warden, vide letter no. F./Dev/CWLW/2014/1042, dated 12/12/2014, has mentioned that the conservation plan appears to be satisfactory. The conservation plan includes plantation in nearby area, awareness program for Peacock conservation in nearby schools, cash prizes to the informer of poachers and veterinary care and cages for injured or sick deformed birds.
- (iii) With regard to implementation of commitment made in earlier PH held on 27.08.2012, the PP has inter-alia mentioned that the commitments made during the Public Hearing includes more contribution towards the CSR activities, control of pollution, employment generation and controlled blasting and vibrations. PP has informed that they had made an expenditure of Rs. 1.57 Crores in 2011-12, Rs. 2.03 Crores in 2012-13 and Rs. 2.18 Crores in 2013-14 towards CSR activities. To

control pollution, the activity has been done as per prescribed CPCB guidelines and uses best controlled blasting techniques (Shock tube detonation, noiseless trunk detonation) and periodically monitor the noise and vibration levels, which are within the limits of prescribed norms.

- (iv) With regard to implementation Action Plan and implementation schedule on the issues raised during the Public Hearing on 18.02.2014, PP has informed that they had started the implemented of the commitment made during the Public Hearing and Rs. 16.0 Lakhs is earmarked for the implementation of the Action Plan. Further, Rs 394 Lakhs is proposed for the CSR for the year 2014-15 and they had made expenditure of Rs. 389 Lakhs so far. This includes plantation in nearby area, increase of availability of ambulance, drinking water supply, control of dust emission & vibration, more employment to local people, agriculture development. PP informed that 12,870 saplings have been planted in nearby area, ensure the availability of ambulance on phone call, maintain good housekeeping, providing more employment to local people and distribute quality seeds and financial aid and provide training to the farmers.
- (v) With regard to visit by Regional Office of MoEF&CC to verify the compliance of earlier EC conditions, the Regional Office vide letter dated 12.11.2014 had submitted the certified compliance report and visited the mine on 07.10.2014. The Committee deliberated the compliance report at length and is satisfied.
- (vi) With regard to Plan and work executed in Village Jawangarh, PP has informed that they had organized various CSR activities in Village Jawangarh which includes health camps, awareness of HIV, vaccination program, girl education, save girl child, support for construction of house hold toilets, distribution of quality seeds and plant saplings, contribution for religious activities, infrastructure development.

PP has also requested to amend the cost of CSR w.r.t. Minutes of Meeting held during August 26-27, 2014 wherein 'CSR cost was mentioned as Rs. 7629.8 Lakhs and earmarked for next five years' which may be corrected as 'Rs. 7629.8 Lakhs for the 'integrated Projects (Cement, Power & Limestone mine) for a period of 30 years'. The Committee agreed to the the same.

The Committee, after detailed deliberations, **recommended** the Proposal for environmental clearance for **Enhancement of Limestone Production Capacity in Captive Limestone mine from 17.2 million TPA to 19.6 million TPA (ROM) of limestone.**

The Committee **recommended** additional specific conditions viz. (i) Implementation of Peafowl Conservation plan as recommended by the Additional Principal Chief Conservator of Forests & Chief Wildlife Warden, vide letter no. F./Dev/CWLW/2014/1042, dated 12/12/2014; (ii) Proponent shall appoint an

Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities; (iii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The PP shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing; (iv) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry; (v) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (vi) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (vii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and (viii) Washing of all transport vehicle should be done inside the mining lease.

(2.25) Mining of Stone (Minor Mineral) with production capacity of 15 million TPA (ROM) of Stone by M/s. KJSL – Sunder (JV), located at village – Dadam, Tehsil–Tosham, District–Bhiwani, Haryana (55.50ha) (Consultant: JM EnviroNet Pvt. Ltd., Haryana)-Reconsideration EC

The proposal of M/s. KJSL – Sunder (JV) is for Mining of Stone (Minor Mineral) with production capacity of 15 million TPA (ROM) in the ML area of 55.50 ha. The mine lease area is located at village - Dadam, Tehsil-Tosham, District: Bhiwani (Haryana).

The proposal of EC was earlier appraised by the EAC in its meeting held during December 10-11, 2014 wherein the EAC deferred the proposal and sought the following information/clarifications for further decision on the matter:-

- (i) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Haryana vide letter dated 28.10.2014 and the Public Hearing was held on 01.10.2014 i.e. prior to approval of the Mine Plan. Thus the Public

was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the PP to the Public. The Committee also was of the view that clarification may also be sought from the PP with an undertaking, as to whether the contents of Draft Mine Plan and approved Mine plan are same or different;

- (ii) Certificate from State Govt. with regard to details of forests land in the mine lease area need to be provided;
- (iii) Waste dump management plan may be provided;
- (iv) Authentic List of Flora/Fauna needs to be provided;
- (v) Committee noted that compliance of TOR no. 29, Green belt development plan was not adequately addressed by the PP;
- (vi) Details of impact and predictions from blasting and fly rocks were not provided; and
- (vii) Action Plan for ensuring good occupational environment for mine workers may be submitted based on Recommendations of Nationally reputed Institute; Both specific and Generic preventive measures may be elaborated in the Action Plan.

In this context, the Project Proponent vide letter dated 13.01.2015 has submitted the information/clarification and accordingly the proposal is considered in the present meeting. The point wise explanation of the queries is given by the Project Proponent as below:

- (i) With regard to contents of draft Mining Plan and approved mining plan, the Project Proponent informed that the Department of Mines and Geology, Govt. of Haryana, vide letter dated 14.01.2015 mentioned that the content of these mine plans are by and large same except estimation of the probable reserve. The other typographical corrections and formatting are also there but no impact on the mining plan. PP has also submitted undertaking that no material change has been made in approved mining plan.
- (ii) With regard to Certificate from State Govt. stating details of forests land in the mine lease area, Project Proponent has submitted Certificate received from DFO, Bhiwani vide letter no 2988 dated 12.01.2015 stating that there is no forest land in the mine lease area.
- (iii) With regard to waste dump management, Project Proponent provided that the waste will comprise of soil and muram. Apart from this some rejects in form of small chips of quartzite will be available from the mining which will have to be removed and stacked separately. Around 18,000 m³ soil and 60,000 m³ of

waste will be generated at the end of fifth year which will be dump in 0.63 ha area. At the end of life of mine, it is estimated that about 1,32,000 m³ of OB rejects/ waste would be generated, which will be used for backfilling of the excavated pits to the extent possible. Hence no waste dump within the lease area as well as outside the mine lease area is proposed.

- (iv) With regard to authentic list of Flora /Fauna, Project Proponent has provided authenticated list of Flora and fauna (vide letter no 2949 dated 05.12.2014) copy of which has been submitted by the Project Proponent.
- (v) With regard to adequate greenbelt in mining lease area, the PP has informed that at the conceptual stage, out of the total mining lease area, greenbelt / plantation will be developed on 34.33 ha area, out of which 25.17 ha area on dead benches & 9.16 ha area will be on periphery of lease boundary, Road side, along the pits etc. The plantation will be done @ approx. 1,500 trees per ha of land species proposed for greenbelt development are Aam (Magnifera Indica), Jamun (Syzygium cumini), Neem (Azadiracta indica), Pipal (Ficus religiosa), Shesham (Dalbergia sissoo), Ber (Ziziphus mauritiana), Gulmohar (Delonix regia), etc.
- (vi) With regard to details of impact and predictions from blasting and fly rocks, Project Proponent reported that ground vibration, fly rock, air blast, noise, dust and fumes are the deleterious effects of blasting on environment. Ground vibration from mine blasting is expressed by amplitude, frequency and duration of blast. By adopting controlled blasting, the problems will be greatly minimized and the impacts will also be minimized by choosing proper detonating system, optimizing total charge and charge/delay. Controlled blasting by using slurry explosive along with non- electric nonel delay detonators will be carried out.
- (vii) With regard to Action Plan for ensuring good occupational environment for mine workers, Project Proponent informed that Action Plan for ensuring good occupational environment for mine workers has been prepared based on Recommendations of Nationally reputed Institute same will implemented during mining operation.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for environmental clearance for Mining of Stone (Minor Mineral) with proposed production capacity of 15.0 million TPA (ROM) of Stone.

The Committee also **recommended** additional **specific conditions** viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall

be implemented; (ii) An independent study be organised during peak activity, to understand how the actuals compare with the carrying capacities and further decisions taken to maintain sustainability of this essential stone extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of stone; (iii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The PP shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing held on 15.09.2014; (iv) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry; (v) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (vi) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (vii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; (viii) A comprehensive study for slope stabilization of mine benches and OB dumps shall be undertaken within one year; (ix) Washing of all transport vehicle should be done inside the mining lease (x) "Environmental Clearance is subject to final outcome of the Court case in Hon'ble High Court of Punjab and Haryana" or any other Court of Law; (xi) Native plant species as suggested by villagers/specialist may be planted; and (xi) Implementation of Haryana Government Rehabilitation and Resettlement of Land Owners' Policy as per applicability in the area.

(2.26). Mining of Stone in the Mine of "Atela Kalan" with production capacity of 6.0 million TPA of Stone (ROM) by M/s. MSK (JV), located at village – Atela kalan, Tehsil – Charkhi Dadri, District– Bhiwani, Haryana (54ha)(Consultant: JM EnviroNet Pvt. Ltd., Haryana)-Reconsideration EC

The proposal of M/s. MSK (JV) is for Mining of Stone in the Mine of "Atela Kalan" with production capacity of 6.0 million TPA of Stone (ROM). The mine lease area is located at village- Atela kalan, Tehsil –Charkhi Dadri, District: Bhiwani (Haryana).

The proposal of EC was earlier appraised by the EAC in its meeting held during December 10-11, 2014 wherein the EAC deferred the proposal and sought the following information/clarifications for further decision on the matter:-

- (i) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Haryana vide letter dated 15.09.2014 and the Public Hearing was held during 01.10.2014 i.e. prior to approval of the Mine Plan. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the PP to the Public. The Committee also was of the view that clarification may also be sought from the PP with an undertaking, as to whether the contents of Draft Mine Plan and approved Mine plan are same or different;
- (ii) The Coordinates of the mining lease area are wrong which need to be corrected and submitted;
- (iii) Action Plan for ensuring good occupational environment for mine workers may be submitted based on Recommendations of Nationally reputed Institute; Both specific and Generic preventive measures may be elaborated in the Action Plan;
- (iv) Status of Ground Water pollution with reference to Fluoride contents in the Study Area and Action Plan to provide Fluoride free drinking water to villages may be submitted; and
- (v) Committee noted that compliance of TOR no. 29, Green belt development plan was not adequately addressed by the PP.

In this context, the Project Proponent vide letter dated 14.01.2015 has submitted the information/clarification and accordingly the proposal is considered in the present meeting. The point wise explanation of the queries is given by the Project Proponent as below:

- (i) With regard to contents of draft Mining Plan and approved mining plan, the Project Proponent informed that the Department of Mines and Geology, Govt. of Haryana, vide letter dated 13.01.2015 mentioned that there is no material change in both the plans except some of the minor changes. PP has also submitted undertaking that no material change has been made in approved mining plan.
- (ii) With regard to the coordinates of the mining lease area, the Project Proponent informed that earlier there was typographical error in lease area, coordinates of the mining lease area which has been rectified in mining plan and the same has been approved by Director of Mines & Geology, Haryana vide letter No. DMG/HY/Atela Kalan/MP/5553, Chandigarh dated 03.12.2014.

- (iii) With regard to Action Plan for ensuring good occupational environment for mine workers, Project Proponent reported that Action Plan for ensuring good occupational environment for mine workers has been prepared based on Recommendations of Nationally reputed Institute and the same will be implemented during mining operation.
- (iv) With regard to status of Ground Water pollution with reference to Fluoride contents in the Study Area and Action Plan to provide Fluoride free drinking water to villages. Project Proponent reported that besides making provision for fluoride free drinking water, periodical medical test will be done and Rs. 1.0 Lakh as Capital cost & Rs. 25,000 per year as Recurring cost under Budget for prevention of fluorosis and awareness programs will be conducted in the nearby villages.
- (v) With regard to Green belt development plan, PP reported that total greenbelt & plantation will be carried out on 18.91 ha area till the end of the life of mine, out of which 3.4 ha will be unworked area & remaining 15.51 ha under plantation on benches. Green belt all along the mining lease boundary, quarry edge, roads, crushing plant, office, etc. The plantation will be done @ approx. 1500 trees per ha of land Species proposed for greenbelt development are Aam (Magnifera Indica), Jamun (Syzygium cumini), Arjun (Terminalia arjuna), Shahtoot (Morus Alba), Neem (Azadiracta indica), Pipal (Ficus religiosa), Ber (Ziziphus mauritiana), etc. Other Fruit bearing species, native species and plants useful for local etc. will also be planted.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for environmental clearance for Mining of Stone (Minor Mineral) with proposed production capacity of 6.0 million TPA (ROM) of Stone.

The Committee also **recommended** additional **specific conditions** viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; (ii) An independent study be organised during peak activity, to understand how the actuals compare with the carrying capacities and further decisions taken to maintain sustainability of this essential stone extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of stone; (iii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The PP shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing held on 15.09.2014; (iv) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground

water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry; (v) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (vi) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (vii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; (viii) A comprehensive study for slope stabilization of mine benches and OB dumps shall be undertaken within one year; (ix) Washing of all transport vehicle should be done inside the mining lease (x) "Environmental Clearance is subject to final outcome of the Court case in Hon'ble High Court of Punjab and Haryana" or any other Court of Law; (xi) Native plant species as suggested by villagers/specialist may be planted; and (xi) Implementation of Haryana Government Rehabilitation and Resettlement of Land Owners' Policy as per applicability in the area.

Consideration of TOR Proposal

(2.27). Vagdari Quartz and Calcite Mining with proposed production capacity of of 1.0 Lakhs (ROM) of Calcite and 0.98 Lakh TPA (ROM) of Quartz by M/s. Shree Kaviraj Enterprises Pvt. Ltd. located at Village - Vagdari, Tehsil- Pindwara, Distt.- Sirohi, Rajasthan (79.7571 ha)(Consultant-Apex Mintech Consultants)-TOR

The proposal of M/s. Shree Kaviraj Enterprises Pvt. Ltd. is for mining of Quartz and Calcite with proposed production capacity of 1.0 Lakhs (ROM) of Calcite and 0.98 Lakh TPA (ROM) of Quartz in the MLA of 79.7571ha. The mine is located at Village - Vagdari, Tehsil- Pindwara, Distt.-Sirohi, Rajasthan. The Latitudes and Longitudes are 24°45'00.7" to 24°45'44"N and 73°05'37" to 73°06'07.5E" on the Survey of India Toposheet No. 45H/1.

Total mine lease area is 79.7571ha. Method of mining is open cast mechanized. Proposed ultimate pit limit at the end of 5 years will be 396 mRL and ground water table is at 340 mRL and therefore mine will not intersect ground water table. Mining plan has been approved vide letter no. SME/JO/CC/Sirohi/Major/ML/02/2005/4987, dated 26.08.2014. Project cost is Rs. 2.0 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**. Further, the Project Proponent along with EC proposal should also furnish the followings:-

- (i) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment;
- (ii) Impact of all existing mining on the present land use in the study area;
- (iii) Proper species specific Conservation plan for Schedule-I;
- (iv) Letter from the State Forest Department that the mine lease area does not fall under forests land category; and
- (v) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEFCC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.

(2.28) Mining of Stone and Gravel with proposed production capacity of 412440 m³ of Stone and 124371 m³ Gravel by M/s D Mohanraj, located at Village - Padmanabamangalam, Taluk - Srivaigundam, District - Thoothukudi, Tamil Nadu (12.565 ha)(Consultant-Creative Engineers & Consultants)-TOR

The proposal of M/s D Mohanraj. Is for Mining of Stone and Gravel with proposed production capacity of 4,12,440 m³ of Stone and 1,24,371 m³ Gravel. The mine is located at extent of 12.565 ha at Survey Nos. 760/1, 760/2, 762/1,762/2A and 763 in Padmanabamangalam Village, Srivaigundam Taluk, Thoothukudi District. It lies between 08°39'47"N to 08°40'05"N Latitudes and 77°54'40"E to 77°54'52"E Longitude and falls in Survey of India Topo sheet No:58. H/14. This is a Category 'A' Project due to presence of declared Vallanadu Black Buck Sanctuary in Thoothukudi District within 5 km radius (i.e. 1.6km).

The method of mining is opencast Semi-Mechanized Method involving jack hammer drilling, blasting, excavation, loading and transportation of stone to the crushing units will be adopted. Mining plan has been approved by the Department of Geology and Mining vide their letter GM.1/129/2012 dated: 04.09.2014 over an extent of 12.56.5 ha. There are no habitations within 500m radius and nearest major town is Srivaikundam of about 4.0 km. The lease area does not include any forest lands. No ecologically sensitive features like national parks, biospheres, sanctuaries, elephant corridors, Tiger reserves, flight paths of migrating fauna, etc. occur in core areas of the Project. The area does not come under CRZ category. Tamirabarani River is located about 3.9 km, The Vallanadu RF declared under Wildlife Protection (Act), 1972 as Vallanadu Black Buck Sanctuary is situated about 1.6 km from the Project site.

The available mineable reserves have been computed as 20,18,520 m³ of rough stone and 2,73,738 m³ of Weathered Gravelly formation up to a maximum depth of 28m below the ground level. Depth of mining will be 28 m bgl. Life of the quarry presently

will be 5 years of lease period. The total water requirement will be about 8.5 KLD comprising Domestic – 1.0 KLD, Water Sprinkling / Dust suppression – 5.0 KLD and Green belt – 2.5 KLD. Industrial water requirement like dust suppression, green belt will be met from mine sump and Drinking water requirement will be met from bore well. The total Project capital cost is expected to be Rs. 114.03 Lakhs.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings:-

- (i) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment;
- (ii) Required conservation measures shall be included in the EIA/EMP report as the Vallanadu Black Buck Sanctuary is located 1.6 km from the Project site.;
- (iii) Impact of all existing mining on the present land use in the study area;
- (iv) Proper species specific Conservation plan for Schedule-I;
- (v) Letter from the State Forest Department that the mine lease area does not fall under forests land category; and
- (vi) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEFCC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.

(2.29) Enhancement of Laterite production capacity from 36,000 TPA to 2,50,000 TPA (ROM) of Baranda Laterite Mine by M/s. UltraTech Cement Ltd. (Unit: Sewagram Cement Works), located at village-Baranda, Taluka - Lakhpat, District – Kachchh (Gujarat) (400 ha) (Consultant: J.M. EnviroNet Pvt. Ltd.) ToR

The proposal of M/s UltraTech Cement Ltd. (Unit: Sewagram Cement Works) is for enhancement in production capacity in Baranda Laterite from 36,000 TPA to 2,50,000 TPA (ROM) located at Village- Baranda, Tehsil Lakhpat, District- Kachchh (Gujarat). The Geographical Co-ordinates for the mine site are Latitudes 23°31'42.20"N to 23°32'42.40"N and Longitudes 68°41'47.81"E to 68°39'12.60"E respectively. Toposheet of the area is restricted.

Total Mining Lease Area is 400 ha, which is Government land. Method of mining will be opencast semi-mechanized using hydraulic backhoe excavator, with maximum bench height of 3 m and bench width of 8-9 m. No blasting and drilling will be carried out in the mine lease area. Total water requirement for the proposed mining Project will be 30 KLD, which will be sourced from existing Desalination Plant. Total manpower requirement for the proposed mining Project will be 30 persons which will be sourced from nearby villages.

Project Proponent reported that the Narayan Sarovar Wildlife Sanctuary is located in North direction from mining site. The Clearance was granted under Wildlife (Protection) Act-1972), vide letter No. WLP/32/B/797/800, dated 30.04.2013. Four Reserve forests, namely Harudi RF (adjacent to mine site), Maniyara RF (SW direction), Ratipal RF (West direction) and Mindhiyari RF (North-East direction) fall within 10 km of the mine lease. Seasonal water bodies located in the study area of the mine site are Doriwali Nadi (in North direction), Chakraiwali Nadi (in NE direction), Barkhan Nadi (in SE direction), Rakhadi Nadi (in South direction), Berwari Nadi (in South direction), Kasadwali Nadi (in SW direction), Bhalyawal Talav (in SSW direction), Berwall Nadi (in SSW direction), Kakdi Nadi (in NW direction), Rato Nadi (in South Direction). One seasonal nala to the south of the mining lease area empties water into river Golay.

PP has mentioned that they had completed the combined baseline study for the mining lease area along with adjoining limestone, clay mine and Integrated Cement Plant for the Post Monsoon Season (October to December 2014) and requested to use the baseline study data for this Project too. The Committee accepted the request and is of the view that PP needs to conduct one month more validity baseline study and report the comparative data.

Total cost of the Project is Rs. 5.0 Crores. Capital cost for Environmental Protection Measures is Rs. 0.5 Crore and Recurring Cost is Rs. 0.10 Crore/ annum. PP reported that there is no Court case/litigation pending against the Project.

The Committee noted that the Ministry has accorded EC in favour of M/s Jaypee Gujarat Cement Plant (a Unit of Jaiprakash Associates Limited) vide No. J-11015/889/2007-IA.II (M), dated 22.02.2011 for Baranda Laterite Mine (production capacity 36,000 TPA, ML Area: 400 Ha), located at village Baranda, Tehsil- Lakhpat, District Kachchh, Gujarat. Further, Ministry vide letter dated 22.08.2014 has transferred the EC from M/s Jaypee Gujarat Cement Plant (a Unit of Jaiprakash Associates Limited) to M/s Jaypee Gujarat Cement Plant (a unit of Jaypee Cement Corporation Limited). However, the proposal of transfer of EC from "M/s Jaypee Gujarat Cement Plant (a unit of Jaypee Cement Corporation Limited)" to "M/s Ultra Tech Cement Limited (Unit-Sewagram Cement Works) is under consideration in the Ministry.

Based on the information furnished and presentation made by the PP and discussions held, the Committee **prescribed** the TOR as per **Annexure-I subject to transfer of earlier EC**. Further, the Project Proponent along with EC proposal should also furnish the followings:-

- (i) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEFCC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project; and
- (ii) The PP has to submit the compliance Report of the earlier EC condition.

(2.30) Mining of Sand (Minor Mineral) from Mines/Quarries of 'Asadpur Sand Unit' with Production Capacity of 18,00,000 TPA (ROM) of Sand by M/s Zelkova Buildcon Private Limited, located at Village – Asadpur, Tehsil – Sonipat, Distt. – Sonipat, Haryana (56.01ha)-(Consultant: Udaipur Mintech Pvt. Ltd.)-TOR

The proposal of M/s Zelkova Buildcon Private Limited is for mining of Sand (Minor Mineral) with production capacity of 18,00,000 TPA (ROM) in the mining lease area of 56.01ha. The lease area is located at Village Asadpur, Tehsil – Sonipat, District Sonipat, Haryana. The mining area is located between 29°02'36.30"N to 29°02'04.60"N Latitudes and 77°10'11.40"E to 77°09'28.10"E Longitudes with Toposheet No. 53G 4/8, 53 H 1/5.

Total mine lease area is 56.01ha, out of which River Bed Block is 43.25ha and Outside River Bed Block is 12.76ha. Mining will be done by opencast semi-mechanized method. The Letter of Intent (LoI) was issued by The Director General, Mines & Geology Department, Haryana in favor of M/s Zelkova Buildcon Private Limited having memo no. DMG/Hy/Cont/Asadpur Sand Unit/2015/21 dated 2/1/2015. The cost of the Project is Rs. 15.70 Crores. The total water requirement for the proposed operation will be 20 KLD. Water for mining operation (dust suppression) and for domestic & drinking purpose will be supplied from Dug well/Tube well situated nearby village through water tankers.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings:-

- (i) Replenishment and drainage study from a reputed Institution;
- (ii) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography;
- (iii) 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;
- (iv) Impact of all existing mining on the present land use in the study area;
- (v) Proper species specific Conservation plan for Schedule-I;
- (vi) Impact of mining on plankton;

- (vii) Details of Gradient of river bed;
- (viii) Details of excavation schedule & sequential mining plan;
- (ix) Letter from the State Forests Department that the mine lease area does not fall under forests land category;
- (x) Excavation to be carried out up to a maximum depth of 3 m in the river bed and 9 m in area falling outside river bed or 2 m above water table whichever comes first and duly incorporated in mine plan;
- (xi) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEFCC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project; and
- (xii) Details of outcome of the court case in CWP No. 27700 of 2013 before the Hon'ble High Court of Punjab & Haryana as mentioned in the LoI letter issued by the Mines & Geology Department of State Govt. of Haryana.

(2.31) Mining of Sand (Minor Mineral from Mines/Quarries of 'Barauli-4 Sand Unit' with Production Capacity of 18,00,000 TPA (ROM) of Sand by M/s Charites, Real Estate Pvt. Ltd. , located at Village – Barauli, Tehsil – Sonipat, Distt. – Sonipat, Haryana (52.50ha)-(Consultant: Udaipur Mintech Pvt. Ltd.)-TOR

The proposal of M/s Charites, Real Estate Pvt. Ltd. is for mining of Sand with production capacity of 18,00,000 TPA (ROM) in the mining lease area of 52.50 ha. The lease area is located at Village Barauli, Tehsil – Sonipat, District Sonipat, Haryana. The mining area falls under two blocks. The mining area is located between 29°00'54.56"N to 29°00'25.49"N Latitudes and 77°11'28.38"E to 77°10'47.25"E Longitudes with Toposheet No. 53G 4/8, 53 H 1/5.

Total mine lease area is 52.50ha, out of which River Bed Block is 41.50 ha and Outside River Bed Block is 11.0 ha. Mining will be done by opencast semi- mechanized method. The Letter of Intent (LoI) was issued by The Director General, Mines & Geology Department, Haryana in favor of M/s Charites, Real State Private Limited having memo no. DMG/Hy/Cont/Barauli-4 Sand Unit/2015/39 dated 2/1/2015. The cost of the Project is Rs. 18.84/-Crore. The total water requirement for the proposed operation will be 20 KLD. Water for mining operation (dust suppression) and for domestic & drinking purpose will be supplied from Dug well/Tube well situated nearby village through water tankers.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings:-

- (i) Replenishment and drainage study from the reputed Institution;
- (ii) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography;
- (iii) 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;
- (iv) Impact of all existing mining on the present land use in the study area;
- (v) Proper species specific Conservation plan for Schedule-I;
- (vi) Impact of mining on plankton;
- (vii) Details of Gradient of river bed;
- (viii) Details of excavation schedule & sequential mining plan;
- (ix) Letter from the State Forests Department that the mine lease area does not fall under forests land category;
- (x) Excavation to be carried out up to a maximum depth of 3 m in the river bed and 9 m in area falling outside river bed or 2 m above water table whichever comes first and duly incorporated in mine plan;
- (xi) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEFCC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project; and
- (xii) Details of outcome of the court case in CWP No. 27700 of 2013 before the Hon'ble High Court of Punjab & Haryana as mentioned in the LoI letter issued by the Mines & Geology Department of State Govt. of Haryana.

(2.32). Sand Mining (Minor Mineral) of M/s. Dahiya Traders with production capacity of 17,55,120 MTPA of Sand (Minor Mineral), located at Village –Nandnaur Unit, Tehsil – Sonipat, District – Sonipat, Haryana (52.30 ha) (Consultant: Vardan Environet, Gurgaon, Haryana)– TOR

The proposal of M/s. Dahiya Traders is for mining of Sand (Minor Mineral) with production capacity of 17,55,120 MTPA of Sand (Minor Mineral) in the mine lease area of 52.30 ha, out of which 40 Ha. area falls in the river bed and 12.30 ha area falls in agricultural land (outside riverbed). The mine lease area is located between the following coordinates with Toposheet No. H43R4, H43X1, H43R8, H43X5:-

	NW Corner	NE Corner	SW Corner	SE Corner
Latitudes	29° 02' 01" N	29° 02' 10" N	29° 01' 40" N	29° 01' 57" N
Longitudes	77° 09' 28" E	77° 09' 59" E	77° 09' 39" E	77° 10' 00" E

	NW Corner	NE Corner	SW Corner	SE Corner
Latitudes	29° 01' 25" N	29° 01' 25" N	29° 01' 09" N	29° 01' 09" N
Longitudes	77° 07' 47" E	77° 07' 57" E	77° 07' 45" E	77° 07' 55" E

Total mine lease area is 52.30ha. The proposed Project is an opencast semi mechanised mining Project, confined to excavation of Sand from the proposed site. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. Loading of waste & minerals into trucks / tippers will be done by using excavators and transported to nearby industries. Total water requirement for the proposed Project will be 46 KLD. Water for mining operation (dust suppression) and for domestic & drinking purpose will be supplied from Dug well/Tube well situated in the nearby areas. The cost of the Project is Rs. 18.25 Crores. The LOI has been granted by Director General, Department of Mines and Geology, Haryana vide memo No. DMG/HY/Cont/Nandnaur Sand Unit/2015/33, dated 02.01.2015. Mine Plan with Progressive Mine Closure Plan has been submitted and approval is under process. Proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary).

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings:-

- (i) Replenishment and drainage study from the reputed Institution;
- (ii) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography; also obtain consent from the farmers for mining from their agricultural field..
- (iii) 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;
- (iv) Impact of all existing mining on the present land use in the study area;
- (v) Proper species specific Conservation plan for Schedule-I;
- (vi) Impact of mining on plankton;
- (vii) Details of Gradient of river bed;
- (viii) Details of excavation schedule & sequential mining plan;

- (ix) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (x) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEFCC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project;
- (xi) Excavation to be carried out up to a maximum depth of 3 m in the river bed and 9 m in area falling outside river bed or 2 m above water table whichever comes first and duly incorporated in mine plan; and
- (xii) Details of outcome of the court case in CWP No. 27700 of 2013 before the Hon'ble High Court of Punjab & Haryana as mentioned in the LoI letter issued by the Mines & Geology Department of State Govt. of Haryana.

(2.33)Captive Limestone Mine with proposed production capacity 2.11 million TPA (ROM) by M/s ACC Limited, located at village(s) Rajanka, Kondwa and Dokatta, Dist. West Singhbhum, Jharkhand (115.38 ha) (Consultant: Perfect Enviro Solutions Pvt. Ltd., New Delhi)-TOR

The proposal of M/s ACC Ltd. is for Mining of Limestone with proposed production capacity of 2.11 Million TPA (ROM) in the mine lease area of 115.38ha. The mine is located at Village(s)-Rajanka, Kondwa and Dokatta Tehsil- Tonto, District- West Singhbhum, Jharkhand. It is a captive limestone mine of Chaibasa Cement Works of M/s ACC Ltd. The mining lease lies between Latitudes 22° 24'35.32" to 22° 25' 34.35" N and Longitude 85° 04' 17.90" to 85° 04' 26.70"E, Toposheet no. 73 F/11. The Project is located in seismic zone-III. The elevation is 340 max. above Mean Sea Level.

The Method of mining is open cast mechanized with drilling and blasting. Letter of Intent has been granted for Rajanka Limestone Mine Block over an area of 115.38 ha vide the Govt. of Jharkhand vide letter No. Kha.Ni.(W. Singhbhum)-40/03/2204/M, Ranchi, dated 14.10.2014. The mineable reserves are estimated as 24.143 Million Tonnes and life of mine is estimated to be approximately 11.49 years. Total cost of the Project is Rs. 60 Crores. The water requirement of the mining Project is 256 KLD for drinking, sprinkling and plantation which will be obtained from water reservoir and the plant after treatment.

Proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries, Tiger Reserves, migratory bird paths, wild life corridors, archaeological monuments, Places of tourist importance falls within the study area (10 km radius of the mine boundary). There is no Forest land involved in the Project activity. It was reported by Project Proponent that there is no court case / litigation against the Project.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the

request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

(2.34).Mining of Sand (Minor Mineral) by M/s. DSP Associates with production capacity of 15,17,600 MTPA of Sand (Minor Mineral), located at Village – Tikola, Tehsil – Sonipat, District – Sonipat, Haryana (42.50 Ha.) – TOR

The proposal of M/s DSP Associates is for mining of Sand (Minor Mineral) with production capacity of 15,17,600 TPA of Sand (ROM) in the mine lease area of 42.50ha. Out of which 31.50 ha area falls in the river bed and 11 ha area falls in agricultural land (outside river bed). The mine lease area is located between the following coordinates on Survey of India Toposheet No. H43R4, H43X1, H43R8, H43X5:

	NW Corner	NE Corner	SW Corner	SE Corner
Latitudes	29° 04' 36" N	29° 04' 30" N	29° 04' 22" N	29° 04' 22" N
Longitude	77° 09' 00" E	77° 09' 48" E	77° 09' 11" E	77° 09' 53" E
	NW Corner	NE Corner	SW Corner	SE Corner
Latitudes	29° 04' 39" N	29° 04' 39" N	29° 04' 29" N	29° 04' 29" N
Longitude	77° 08' 23" E	77° 08' 37" E	77° 08' 23" E	77° 08' 37" E

The Project Proponent reported that no National Park & Wildlife Sanctuary falls within the 10 km radius of the Project site. The Project is located at 1 KM distance from Haryana and Uttar Pradesh inter-state boundary.

Total mine lease area is 42.50Ha. Out of this, 31.50 ha area falls in the river bed and 11 ha area falls in agricultural land (outside river bed). Method of mining will be opencast semi-mechanized without drilling and blasting. Loading of waste and minerals into trucks / tippers will be done by using excavators and transported to nearby industries. Total water requirement for the proposed

Project will be 18 KLD. Water for mining operation (dust suppression) and for domestic & drinking purpose will be supplied from Dug well / Tube well situated in the nearby areas. The cost of the Project is Rs. 5.50 Crores. The LOI has been granted by Director General, Department of Mines and Geology, Haryana vide memo No. DMG/Hy/Cont/Tikola-1 Sand Unit/2015/29 dated 02.01.2015. Mine Plan with Progressive Mine Closure Plan has been submitted & approval is under process.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings:-

- (i) Replenishment and drainage study from any reputed Institution;
- (ii) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography; also obtain consent from the farmers for mining from their agricultural field..
- (iii) 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;
- (iv) Impact of all existing mining on the present land use in the study area;
- (v) Proper species specific Conservation plan for Schedule-I;
- (vi) Impact of mining on plankton;
- (vii) Details of Gradient of river bed;
- (viii) Details of excavation schedule & sequential mining plan;
- (ix) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (x) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEFCC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project;
- (xi) Excavation to be carried out up to a maximum depth of 3 m in the river bed and 9 m in area falling outside river bed or 2 m above water table whichever comes first and duly incorporated in mine plan; and
- (xii) Details of outcome of the court case in CWP No. 27700 of 2013 before the Hon'ble High Court of Punjab & Haryana as mentioned in the LoI letter issued by the Mines & Geology Department of State Govt. of Haryana.

(2.35) Mining of Limestone with production capacity of 8.0 Million TPA (ROM) by M/s Shree Cement Ltd., located at Village(s) - Joga and Parewar, Tehsil & District - Jaisalmer (Rajasthan) (912.0 ha) (Consultant: J.M. EnviroNet Pvt. Ltd.) – TOR

The proposal of M/s Shree Cements Limited is for Mining of Limestone with proposed production capacity of 8.0 Million TPA (ROM) in the Mine Lease area of 912.0ha. The mine lease is located near Village(s) - Joga and Parewar, Tehsil & District- Jaisalmer (Rajasthan). The Latitudess and Longitudes of the site are 27°19'00.06" N to 27°21'22.9"N and 70°39'14.1"E - 70°40'41.5"E respectively and falls within the Survey of India Toposheet No. 40 I/11.

The total Mining Lease Area is of 912.0ha, out of which 823.79ha is Government land (waste land) and 88.21ha is private land (Agriculture land) and the LOI for mines was issued on 31/12/2014 by State Govt. of Rajasthan. Mining Method is open cast mechanized mining with maximum bench height of 12 m and minimum bench width of 30 m, which include controlled blasting and wet drilling/dry drilling with dust collector, use of Hydraulic Excavators, Dumpers, rock breaker, crushing, stacking & reclaiming and motor grader & road compactor. Over burden and inter burden would be stacked at earmarked area and backfilled in worked out pit. Total water requirement is 300 KLD, which will be sourced from Indira Gandhi Canal and Groundwater.

PP reported that there is no Wildlife Sanctuary, National Parks, Biosphere Reserves, Wildlife Corridors, Tiger/ Elephant Reserves, Reserved Forests within 10 km radius of the mine lease boundary. One Protected Forest falls at the distance of approx. 9.5 km in SSE direction from the lease boundary. Indira Gandhi Canal falls at the distance of approx.7 km in N direction from lease boundary. Total cost of the Project is Rs. 153 Crores including capital cost for Environmental Protection Measures No Court case is pending against the Project.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

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

(2.36): Mining of Sand (Minor Mineral) in the Mine of "Barauli-1 Sand Unit" with proposed production capacity of 30,15,600 TPA (ROM) by M/s Jindal Mectec Pvt. Ltd., located at-village(s) – Barauli & Nandnaur, Tehsil - Sonipat, District – Sonipat, Haryana (76.31 ha)(Consultant: Mantec Consultants Pvt. Ltd.)-TOR

The proposal of M/S Jindal Mectec Pvt Ltd. is for mining of sand (Minor Mineral) in the Mine of "Barauli-1 Sand Unit" with proposed production capacity of 30,15,600 TPA (ROM) in the mine lease area of 76.31ha. The mine lease area is located at village(s)- Barauli & Nandnaur, Tehsil- Sonipat, District-Sonipat. The lease area lies in bed of river Yamuna. The MLA lies between 29°01'41"N - 77°09'42'E and 29°01'27"N & 77° 10' 55"E. The lease area is located in seismic zone-II (As per 1893: 2002). The interstate boundary of Haryana & Uttar Pradesh is also present at a distance of 500mts. towards West from the mine site.

The total mine lease area is 76.31ha. The letter of intent is issued by the Directorate of Mines & Geology, Govt. of Haryana vide letter no. DMG/Hy/Cont/Barauli-1 Sand Unit/2015/35 dated 2nd January, 2015. The proposed Project is an open-cast mining Project, confined to extraction of sand from the proposed site. The operation will be semi-mechanized with the use of small JCB's and excavators etc. Excavation will be carried out up to a maximum depth of 3 meters in river bed & up to 9.0 m outside river bed area. Extraction of sand will be done only during the day time and during the non-monsoon seasons only. The total water requirement is 18 KLD including water demand for domestic purpose, dust suppression & green belt development which shall be met by tanker supply. The total cost of Project would be around Rs. 2 Crores. This Project will provide employment to 72 labourers. PP reported that there is no Wildlife Sanctuary, National Parks, Biosphere Reserves, Wildlife Corridors, Tiger/ Elephant Reserves, Reserved Forests within 10 km radius of the mine lease boundary.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings:-

- (i) Replenishment and drainage study from any reputed Institution;
- (ii) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in

- topography; also obtain consent from the farmers for mining from their agricultural field..
- (iii) 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;
 - (iv) Impact of all existing mining on the present land use in the study area;
 - (v) Proper species specific Conservation plan for Schedule-I;
 - (vi) Impact of mining on plankton;
 - (vii) Details of Gradient of river bed to be provided;
 - (viii) Details of excavation schedule & sequential mining plan to be indicated;
 - (ix) Letter from the State Forests Department that the mine lease area does not fall under forests land category;
 - (x) 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;
 - (xi) Excavation to be carried out up to a maximum depth of 3 m in the river bed and 9 m in area falling outside river bed or 2 m above water table whichever comes first and duly incorporated in mine plan; and
 - (xii) Details of outcome of the court case in CWP No. 27700 of 2013 before the Hon'ble High Court of Punjab & Haryana as mentioned in the LoI letter issued by the Mines & Geology Department of State Govt. of Haryana.

(2.37): Mining of Sand (Minor Mineral) in the Mine of "Bega Sand Unit" with proposed production capacity of 21,70,500 TPA (ROM) by M/s Jindal Mectec Pvt. Ltd., located at-village-Bega, District Sonipat, Haryana (54.55ha)(Consultant: Mantec Consultants Pvt. Ltd.)-TOR

The proposal of M/s Jindal Mectec Pvt. Ltd. is for Mining of Sand (Minor Mineral) in the Mine of "Bega Sand Unit" with proposed production capacity of 21,70,500 TPA (ROM) in the mine lease area of 54.55ha. The mine lease area is located area near village- Bega, Tehsil- Gannaur, District-Sonipat. The lease area lies in bed of river Yamuna. The MLA lies between Latitudes 29° 09' 40"N to 77° 07' 04"N and Longitude 29° 09' 32"E to 77° 07' 19"E. The lease area is located in seismic zone-II. The interstate boundary of Haryana & Uttar Pradesh is also present at a distance of approx. 500mts. towards West from the mine site

The total mine lease area of 54.55ha. The letter of intent issued by the Directorate of Mines & Geology, Govt. of Haryana vide letter no. DMG/Hy/Cont/Barauli-1 Sand Unit/2015/25 dated 2nd January, 2015. The proposed Project is an open-cast mining Project, confined to extraction of sand from the proposed site. The method of mining will be semi-mechanized with the use of small JCB's and excavators etc. Excavation will be carried out up to a maximum depth of 3 meters in river bed & up to 9.0 m outside river bed area. Extraction of sand will be done only during the day time and during the non-monsoon seasons only. The total water requirement is 18 KLD including water demand for domestic purpose, dust

suppression & green belt development which shall be met by tanker supply. The total cost of Project would be around Rs. 2 Crore. This Project will provide employment to 56 laborers.

PP reported that there is no Wildlife Sanctuary, National Parks, Biosphere Reserves, Wildlife Corridors, Tiger/ Elephant Reserves, Reserved Forests within 10 km radius of the mine lease boundary.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings:-

- (i) Replenishment and drainage study from the reputed Institution;
- (ii) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography; also obtain consent from the farmers for mining from their agricultural field..
- (iii) 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;
- (iv) Impact of all existing mining on the present land use in the study area;
- (v) Proper species specific Conservation plan for Schedule-I;
- (vi) Impact of mining on plankton;
- (vii) Details of Gradient of river bed;
- (viii) Details of excavation schedule & sequential mining plan;
- (ix) Letter from the State Forests Department that the mine lease area does not fall under forests land category;
- (x) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEFCC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project;
- (xi) Excavation to be carried out up to a maximum depth of 3 m in the river bed and 9 m in area falling outside river bed or 2 m above water table whichever comes first and duly incorporated in mine plan; and
- (xii) Details of outcome of the court case in CWP No. 27700 of 2013 before the Hon'ble High Court of Punjab & Haryana as mentioned in the LoI letter issued by the Mines & Geology Department of State Govt. of Haryana.

(2.38): Mining of Sand (Minor Mineral) in the Mine of "Mimarpur Sand Unit" with proposed production capacity of 12.75 Lakhs TPA (ROM) by M/s Malik Buildcon Pvt. Ltd., located at village- Mimarpur , Tehsil & District – Sonipat, Haryana (36.85 ha.)(Consultant: M/s Envirta Sustainable Solutions Pvt. Ltd., Ghaziabad)-TOR

The proposal of M/s Malik Buildcon Pvt. Ltd. is for River Sand Mining with proposed production capacity of 12.75 Lakhs TPA (ROM) of Sand in mine lease area of 36.85 ha. The Mine lease area is located at village- Mimarpur, Tehsil & District – Sonipat, Haryana. The lease area lies on Yamuna River Bed. The Latitudess and Longitudes of the Mine Lease areas in Mimarpur River bed Block – 29° 4' 48.13" to 29° 4' 26.93" N & 77° 8' 49.53" to 77° 9' 26.60" E and Mimarpur Outside River bed block - 29' 4.56.81" to 29° 4' 44.69" N & 77° 8' 6.09" to 77° 8' 17.16" E respectively. It is Category 'A' Project as the MLA is located 0.09 km in the interstate boundary of Haryana & Uttar Pradesh.

The total mine lease area is 36.85 ha, which is a river bed, out of which 25.85 ha is in River Bed Block and 11 ha outside River bed Block. The proposed Project is an open-cast mining Project, confined to excavation of Boulder, Gravel & Sand Mine from the proposed site. The mining operation will be done by semi-mechanized method. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. Letter of Intent (LOI) for grant of mining lease for minor mineral Sand over an area of 36.85 ha has been granted from Director of Mines and Geology Department, Govt. of Haryana vide letter no. DMG/Hy/Cont/Mimarpur Sand Unit /2015/27 dated 02.01.2015.

Proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). Total water requirement for the Project will be 22 KLD which will be sourced from nearby villages by tankers. Total Cost of the Project is Rs. 1 Crore. PP informed that no court case/litigation is pending against the Project.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings:-

- (i) Replenishment and drainage study from the reputed Institution;

- (ii) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography; also obtain consent from the farmers for mining from their agricultural field..
- (iii) 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;
- (iv) Impact of all existing mining on the present land use in the study area;
- (v) Proper species specific Conservation plan for Schedule-I;
- (vi) Impact of mining on plankton;
- (vii) Details of Gradient of river bed;
- (viii) Details of excavation schedule & sequential mining plan;
- (ix) Letter from the State Forests Department that the mine lease area does not fall under forests land category;
- (x) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEFCC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project;
- (xi) Excavation to be carried out up to a maximum depth of 3 m in the river bed and 9 m in area falling outside river bed or 2 m above water table whichever comes first and duly incorporated in mine plan; and
- (xii) Details of outcome of the court case in CWP No. 27700 of 2013 before the Hon'ble High Court of Punjab & Haryana as mentioned in the LoI letter issued by the Mines & Geology Department of State Govt. of Haryana.

(2.39):Mining of Sand (Minor Mineral) with proposed production capacity of 9,00,000 TPA (ROM) by M/s Shri Mohan Paul Singh Pannu, located at village- Jagatpur ,Tehsil Kathua & District – Kathua, Jammu & Kashmir (19.941ha) (Consultant: M/s Envirta Sustainable Solutions Pvt. Ltd., Ghaziabad)-TOR

The proposal of M/s Sh. Mohan Paul Singh Pannu is for River Sand Mining with proposed production capacity of 9,00,000 TPA (ROM) of Sand in the mine lease area of 19.941 ha. The Mine lease area is located at village- Jagatpur, Tehsil -Kathua & District – Kathua, Jammu & Kashmir. The lease area lies on Ravi River Bed. The Latitudess and Longitudes of the Mine Lease areas in River bed Block – 32° 22' 19.13" to 32° 21' 56.75" N & 75° 34' 23.67" to 75° 34' 5.65" E respectively on Survey of India Toposheet No 43P11(Site). It is a Category 'A' Project as the mine lease area is located 0.4Km interstate boundary of J&K and Punjab.

Total mine lease area is 19.941 ha which is of river bed. Mining operation will be done by semi-mechanized opencast method. Excavation will be carried out up to maximum depth of 3 meters in river bed. Letter of Intent (LOI) has been granted from Director of Mines and Geology Department, Govt. of Jammu & Kashmir. Total water requirement for the Project will be 12.28 KLD which will be sourced from nearby

villages by tankers. Total Cost of the Project is Rs. 60 Lakhs. PP informed that no court case/litigation is pending against the Project. Mining Plan was approved by Director, Geology & Mining, J&K, Srinagar vide letter no. DMG/F-435/AOMP/89-92, dated 18/10/2014. Forest NOC was issued by Divisional Forest Officer, Kathua Forest Division, Kathua, J&K vide letter no.KFD/NOC/2014-15/5118, dated 11/02/2015.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to monitor the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings:-

- (i) Replenishment and drainage study from any reputed Institution;
- (ii) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography;
- (iii) 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;
- (iv) Impact of all existing mining on the present land use in the study area;
- (v) Proper species specific Conservation plan for Schedule-I;
- (vi) Impact of mining on plankton;
- (vii) Details of Gradient of river bed;
- (viii) Details of excavation schedule & sequential mining plan;
- (ix) Letter from the State Forests Department that the mine lease area does not fall under forests land category; and
- (x) 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.

EC Consideration

(2.40).Mining of Sand (Minor Mineral) in the Mine of “Palwal Unit-1” with proposed production capacity of 6.7731 million TPA (ROM) of Sand by M/s SRS Natural Resources Ltd., located at village(s)-Maksudpur,Hansapur,Thanthri,Rajapur Khadar, Dostpur, Ghori, Gurwari, Pahladpur(Block/Pwl-1),District-Palwal, Haryana (314.36ha)- (Consultant: Udaipur Mintech Pvt. Ltd.)-EC Consideration

The proposal of M/s SRS Natural Resources Ltd. is for mining of Sand (Minor Mineral) with proposed production capacity of 6.7731 million TPA (ROM) of sand in the mine lease area of 314.36 ha. The mine lease is located near village (s) Maksudpur, Hansapur, Thanthri, Rajapur, Khadar, Dostpur, Ghori, Gurwari, Pahladpur, Tehsil: Palwal, District: Palwal, Haryana. The Latitudes and Longitudes of the site are 28°12'33.76" to 28°07'32.18" N and 77°27'53.24" to 77°30'2.5" E respectively on Survey of India toposheet number 53H07, 53H08 (Site), 53H11, 53H12. The Project is located in seismic zone-IV. The mine site is located in the interstate boundary of Haryana & UP within 10 Km radius of the lease area.

The proposal of TORs was considered by the Expert Appraisal Committee (Non-coal Mining) in its meeting held during March 20-21, 2014 to determine the Term of Reference (ToR) for undertaking detailed EIA study. The ToR were issued by the Ministry vide letter no. J-11015/31/2014-IA.II (M), dated 7th May, 2014. The Project Proponent submitted the EIA/EMP report to the Ministry online for seeking Environmental Clearance after conducting Public Hearing.

The total mining lease area is 314.36 ha which lies on River Bed. Project Proponent has reported that no forest land is involved. The Letter of intent has been issued to M/s SRS Natural Resources Ltd. by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DMG/Hy/Palwal Unit- 1/2013/139, dated 03.01.2014. Mining Plan and Progressive Mine Closure Plan for the proposed sand has been approved by Director of Mines & Geology, State Govt. of Haryana vide letter No. DHC/HY/Cont/PWL-1/MP 5244 dated 18.11.2014. The mineable reserves are 1,35,46,200 MT. Proponent informed that 225.77ha area will be used for excavation, 0.5ha for Infrastructure, 50ha for green belt development and 88.59ha area will be the others (undisturbed area).

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and not less than one meter from the water level of the River Chanel whichever is reached earlier. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. Mineral will be sorted and transported through trucks. Total water requirement for the Project is 24 KLD which will be sourced from ground water within lease area.

Project Proponent reported that there are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves, Reserved Forests or Protected Forests within 10 km radius of mine site. Schedule-I peacock species were reported within buffer zone for which a Conservation Plan with a budgetary allocations has been prepared and submitted to Divisional Wildlife Officer, Gurgaon. The Committee deliberated on the conservation plan and noted that the conservation plan is adequate to protect the Schedule-I species. Project Proponent reported that the Mining lease does not fall in Aravalli plantation.

The baseline data was collected for the period during summer Season i.e. March to May, 2014. All the parameters for air quality were within permissible limits. The Public Hearing for the proposed minor mineral mining Project was conducted on 22nd December, 2014 at 1:00 PM at Mine Site, Village: Thanthri, Tehsil: Palwal, District: Palwal, Haryana. The Public Hearing was presided over by Dr. Garima Mittal, Additional Deputy Commissioner. The representative from Haryana Pollution Control Board was also present. The issues raised during Public Hearing were discussed during the meeting; PP has submitted an Action Plan for each question raised along with the budgetary provisions.

Total cost of the Project is Rs. 4.0 Crores. The Project Proponent has earmarked Rs. 19.0 Lakhs for Environmental Protection Measures towards capital cost and Rs. 8.0 Lakh per annum towards recurring cost. Project Proponent has earmarked Rs. 21.5 Lakhs/- towards CSR activities. PP has submitted an undertaking to undertake CSR activities in nearby villages and to plant species as per requirements of the locals. Project Proponent reported that there is a Court case before the Hon'ble High Court of Punjab & Haryana in CWP No. 27700 of 2013 which is also mentioned in the LoI letter issued by the Mines & Geology Department of State Govt. of Haryana.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for **Mining of Sand (Minor Mineral) with proposed production capacity of 6.7731 million TPA (ROM).**

The Committee **recommended** additional specific conditions viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Implementation of the Recommendations of National Labour Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (ii) Transport of mineral will not be done through any of the villages; (iii) Project Proponent shall plant native plant species and local species as suggested by villagers/specialist; (iv) Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and

density; (v) Implementation of Action Plan on the issues raised during the Public Hearing. The proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing held on 22.12.2014; (vii) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; (xi) Implementation of Schedule-I species conservation plan; and (xi) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Haryana and any other Court of Law.

(2.41) Mining of River Sand (Minor Mineral) with proposed production capacity of 1.68 Lakh TPA (ROM) of Sand by M/s Rajasthan Fort & Palace Pvt. Ltd., located at Revenue villages of Tehsil-Begun, District-Chittorgarh, Rajasthan (286.43ha) (Consultant: Enviro Concept (I) Pvt. Ltd, Jaipur as per Hon'ble High Court of Rajasthan)-EC

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

The Committee noted that the **Bassi Wildlife Sanctuary is 1.08 km** from the mine lease area, however the PP has not submitted the distance certificate from the concerned authority as location of mine is very close to the Wildlife Sanctuary.

The Committee noted that the EIA/EMP Report has not addressed all baseline and other environmental parameters adequately. EIA/EMP Report has not been prepared in-line with the Annexure-III of EIA Notification, 2006. There are several deficiencies viz. (i) Details of production capacity is different in different places seems that the Consultant has not prepared EIA/EMP Report and that the Committee experienced difficulty in appraising the Proposal for EC; (ii) There are Schedule-I species as per Report for which conservation plan with funding provision has not been provided adequately; (iii) List of flora/fauna and endangered species are not accurate; (iv) Geological profile of the area does not have the required details and may have to be furnished afresh; (v) details of Action Plan for occupational health of the workers

has not been furnished; (vi) PP included Dhatura as green belt development plan i.e. List of plantation is not adequate; (vii) detailed Action Plan with budgetary allocation on issues raised during the Public Hearing has not been submitted; and (viii) distance certificate from the concerned authority is not obtained, though location of mine is very close to the Wildlife Sanctuary

The Committee **concluded that the Project Proponent needs to revise the EIA/EMP report and also set right the above deficiencies.** The Committee therefore **rejected** the proposal and will reconsider the Proposal after revised *EIA/EMP report is received*. The revised EIA/EMP Report must mention all the details in due compliance with Manuals, Standards, Office Memoranda and Guidelines issued by the Ministry from time to time. The Committee was also of the view that the Consultant has not followed the Manuals, Standards, Office Memoranda and Guidelines in preparing the EIA/EMP Report and in submitting documents to EAC members. The EAC members have found it difficult to appraise the Project. The Committee observed that the Consultant and also the Project Proponent **should not have submitted such a deficient Proposal causing delay in appraisal of Proposal and wasting the time of the Committee.**

(2.42). Mining of Sand (Minor Mineral) in the Mine of "Palwal Unit-2" with proposed production capacity of 4.7 million TPA (ROM) of Sand by M/s SRS Natural Resources Ltd., located at village(s)- Chandhut, Rahimpur (Block/Pwl-2) & Kashipur, Phatasco Nagar (Block/Pwl-3), District- Palwal, Haryana (221.47ha)-(Consultant: Udaipur Mintech Pvt. Ltd.)- Consideration EC.

The proposal of M/s SRS Natural Resources Ltd. is for mining of Sand (Minor Mineral) in the mine of "Palwal Unit-2" with proposed production capacity of 4.7 million TPA of Sand (ROM) in mine lease area of 221.47 ha. The mine lease is located near village(s)- Chandhut, Rahimpur, Kashipur, Phatasco Nagar, Tehsil: Palwal, District: Palwal, Haryana. The Latitudes & Longitudes of the site are Chandhut Block/Pwl-2 28°7'30"-28°5'45"N and 77°29'30"-77°29'00"E and Kashipur Block/Pwl-3 28°0'30"-27°59'30"N and 77°30'30"-77°31'50"E respectively on Survey of India Toposheet No. 53H07, 53H08, 53H11, 53H12 (Site). The lease area lies in the bed of the River. The Project is located in seismic zone-IV. The mine site is located in the interstate boundary of Haryana & UP within 10 Km radius of the lease area.

The proposal of TORs was considered by the Expert Appraisal Committee (Non-coal Mining) in its meeting held during March 20-21, 2014 to determine the Term of Reference (ToR) for undertaking detailed EIA study. The ToR were issued by the Ministry vide letter no. J-11015/32/2014-IA.II (M), dated 6th May, 2014. The Project Proponent submitted the EIA/EMP Report to the Ministry online for seeking Environmental Clearance after conducting Public Hearing.

The total mining lease area is 221.47 ha which lies on River Bed. Project Proponent has reported that no forest land is involved. The Department of Mines & Geology, Haryana vide Memo No. DMG/Hy/Palwal unit-2/2013/141, dated 03.01.2014 granted LoI to M/s SRS Natural Resources Ltd. over an area of 221.47 ha for mining of Sand. The Mining Plan & Progressive Mine Closure Plan for the proposed sand has been approved by Director of Mines & Geology, State Govt. of Haryana vide letter No. DHC/HY/Cont/PWL-2/MP 5240 dated 18.11.2014. The mineable reserves are 93,79,800 MT. Proponent informed that 156.33ha area will be used for excavation, 0.5ha for Infrastructure, 25ha for green belt development and 65.14ha area will be the others (undisturbed area).

Mining is by semi-mechanized opencast method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit and not less than one meter from the water level of the River Chanel whichever reached earlier. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. Mineral will be sorted and transported through trucks. Total water requirement for the Project is 23 KLD which will be sourced from nearby villages.

Project Proponent reported that there are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves within 10 km radius of mine site. Sultanpur Reserved Forest is located in 3.5Km in South direction from Block 2. One Schedule-I peacock species were reported within buffer zone for which a Conservation Plan with a budgetary allocations has been prepared and submitted to Divisional Wildlife Officer, Gurgaon. The Committee deliberated on the conservation plan and noted that the conservation plan is adequate to protect the Schedule-I species. Project Proponent reported that the Mining lease does not fall in Aravalli plantation.

The baseline data was collected for the period during summer Season i.e. March to May, 2014. All the parameters for air quality were within permissible limits. The Public Hearing for the proposed mining Project was conducted on 22nd December, 2014 at 11:00 PM at Mine Site, Village: Chandhut, Tehsil: Palwal, District: Palwal, Haryana. The Public Hearing was presided over by Dr. Garima Mittal, Additional Deputy Commissioner. The representative from Haryana Pollution Control Board was also present. The issues raised during Public Hearing were discussed during the meeting. PP has submitted an Action Plan for each question raised along with the budgetary provisions.

Total cost of the Project is Rs. 3.5 Crores. The Project Proponent has earmarked Rs. 19.0 Lakhs towards Environmental Protection Measures as capital cost of and Rs. 8.0 Lakh per annum towards recurring cost. Project Proponent has earmarked Rs. 19.50 Lakhs/- towards CSR activities. PP has submitted an undertaking to undertake CSR activities in nearby villages and to plant species as per requirements of the locals. Project Proponent reported that there is a Court case before the Hon'ble High

Court of Punjab & Haryana in CWP No. 27700 of 2013 which is also mentioned in the LoI letter issued by the Mines & Geology Department of State Govt. of Haryana.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for **Mining of Sand (Minor Mineral) with proposed production capacity of 4.7 million TPA (ROM)**.

The Committee **recommended** additional specific conditions viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Implementation of the Recommendations of National Labour Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (ii) Transport of mineral will not be done through any of the villages; (iii) Project Proponent shall plant native plant species and local species as suggested by villagers/specialist; (iv) Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (v) Implementation of Action Plan on the issues raised during the Public Hearing. The proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing held on 22.12.2014; (vi) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (vii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; (xi) Implementation of Schedule-I species conservation plan; and (xi) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Haryana and any other Court of Law.

Reconsideration of EC

(2.43)Renewal of Mahadevia and Gandhvi Bauxite Mine with production capacity of 0.46 million TPA (ROM) of Bauxite by M/s Smt. Nirmala Ben S. Mehta, located at village(s) Virpur, Mewasa, Kennedy & Mota Asota, Tehsil Kalyanpur, District Jamnagar, Gujarat (168.3124ha) (Consultatnt- JM Environment (P) Ltd.)- Reconsideration EC

The proposal of M/s Smt. Nirmala Ben S. Mehta is for renewal of mining lease for production of 0.46 million TPA (ROM) of bauxite in the mine lease area of 168.3124ha. The mine is located at Village(s) Virpur, Mewasa, Kennedy & Mota Asota, Tehsil Kalyanpur, District Jamnagar, Gujarat.

The TORs were issued by the Ministry on 18.06.2007. The base line data has been collected during March-May2007. The Public Hearing was conducted on 4th July, 2008. The Proponent submitted the EIA/EMP Report to the Ministry for seeking Environmental Clearance and accordingly the proposal of EC was earlier considered in EAC meetings held during November 19-21, 2008, July 16-17, 2009, February 21-23, 2012 and October 27-28, 2014.

The EAC in its meeting held during October 27-28, 2014 has observed the following:-

- (i) The Committee noted that the Project Proponent has not provided the information sought by EAC in earlier meetings w.r.t. details of steps proposed for control of tailings and waste including heavy metals and residue from flowing into the marine sanctuary and steps proposed to arrest the material from run of mine. The appraisal has delayed due to deficient information being submitted every time by the PP.
- (ii) The Committee noted that the Ministry has recently issued an Office Memorandum No. J-11013/41/2006-IA-II(I)(part), dated 22.08.2014 with regard to validity of baseline data and Public Hearing. In the instant proposal, the baseline data was generated during March-May 2007 and Public Hearing was conducted on 4th July, 2008 which is 3 years old. Based on the presentation and discussion during the meeting, the Committee recommended that the proposal may be reviewed by the Ministry in light of above OM dated 22.08.2014 and necessary feedback may be provided to the EAC for appraising the Project after receipt of additional information from PP.
- (iii) The Committee has also recommended that Ministry may take actions on violations as per OM dated 12.12.2012 & 27.06.2013 as recorded in the Minutes of EAC held during November 19-21, 2008.

In this context, the Ministry has initiated the actions on violation vide letter dated 15.12.2014. Following are the details:-

- (i) With regard to steps for control of tailings and waste and steps proposed to arrest the material from run of mine, the PP has presented the details of garland drainage. The Committee deliberated the same and is satisfied.
- (ii) PP has mentioned that the Ministry has amended the Office Memorandum No. J-11013/41/2006-IA-II(I)(part), dated 22.08.2014 on 07.11.2014 with regard to validity of baseline data and Public Hearing. PP mentioned that they had submitted the proposal within validity period of TORs, however, the proposal was delayed from getting certificates from the State Govt. The text of OM dated 07.11.2014 read as:-
 - (a). All the Projects which have been recommended by the Expert Appraisal Committee (EAC) shall be considered by the Competent Authority even if the data collected has become more than three years old as the ToR itself used to have three years validity and extendable by one more year.
 - (b). All the Projects where the Project Proponent have already submitted their EIA/EMP Report for consideration by the EAC though the cases have still not been placed before the EAC and meanwhile the data had become more than three years old, shall be considered for the same reason as given in the para (a) above.
 - (c). In case of Project Proponent seeking Environment Clearance for expansion of the existing unit but had committed certain violation and the Project Proponent has submitted all the information and details but the State has not filed case under Section 15/19 of Environment (Protection) Act, 1986, such cases shall also be considered by the Authority, as the Project Proponent is not at fault.

The EAC examined the proposal on the basis of amendment in OM dated 07.11.2014. The PP has also collected one month data during 15.01.2015-15.02.2015. The baseline data is well within the prescribed limits. The Committee deliberated and was of the view that the base line data can be accepted.

- (iii) The Geology and Mining Department, State Govt. of Gujarat vide letter dated 16.01.2015 has informed that the mining activity is suspended since January 2014. The Gujarat Pollution Control Board has filed a court case vide case no. 84/15/2014 in the Court of Judicial Magistrate Kalyanpur to take cognizance of offence under section 15 and 19 of the Environment (Protection) Act, 1986. The Proponent vide letter dated 19.01.2015 has stated that such violations of Environment (Protection) Act, 1986 will not be repeated in the future, the same has been taken on record.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Renewal of Mahadevia

and Gandhvi Bauxite Mine with production capacity of 0.46 million TPA (ROM) of Bauxite.

The Committee **recommended** additional specific conditions viz. (i) A study from an Institution of Repute may be conducted on the impact of Bauxite dust on Crop Productivity in agricultural land located around mines and mitigation measures to be implemented by PP to reduce the impact; (ii) Recommendation by the Institute, for Crops most suited in this environment and training to the farmers to switch over to new cropping system which will sustain nutrient loading; (iii) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Implementation of the Recommendations of National Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (iv) Use of mechanical devices for excavating the ore and reducing use of explosives; (v) Concurrent reclamation of mined out areas; (vi) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transfer points and undertaking comprehensive study in a years' time for slope stabilization of mine benches and OB dumps; (vii) Implementation of Action Plan on the Issues raised during Public Hearing; (viii) Washing of all transport vehicle should be done inside the mining lease; and (ix) A comprehensive ore evacuation plan for all existing mines of the PP in the area may be made by streamlining transport of ore based on proper study.

Reconsideration of EC Proposals

(2.44). Mining of Bajri (Minor Mineral) with proposed production capacity of 12.0 Lakh TPA (ROM) by M/s Naval Kishor Gupta, located at Revenue village of Tehsil-Baseri and Bari, District-Dholpur, Rajasthan (232.92ha) (Consultant: Vardan Environet, Gurgaon, Haryana)-Reconsideration EC

The proposal of M/s. Naval Kishore Gupta is for Mining of Bajri (Minor Mineral) with production capacity of 12 Lakh TPA (ROM). The mine is located at Revenue village(s) of Tehsil-Baseri and Bari, District-Dholpur, Rajasthan.

The proposal of EC was earlier appraised by the EAC in its meeting held during December 10-11, 2014 wherein the EAC deferred the proposal and sought the following information/clarifications for further decision on the matter:-

- (i) All the papers i.e. Maps, drawings and Plans were not legible; The Committee also noted that the Consultant has not followed the Manuals, Standards, Office Memoranda and Guidelines issued by the Ministry from time to time for preparing EIA/EMP Report and submitting documents to EAC members. This has caused EAC members finding it difficult to appraise the Project. The

Consultant and also the Project Proponent should not have unnecessarily submitted such a Proposal causing delay in appraisal of Proposal and wasting the time of the Committee. Legible set of the required documents may be submitted;

- (ii) PP has not submitted copy of Mine Plan which may be furnished;
- (iii) Committee desired that in compliance with TOR no. 17 with regard to Aravali Notification, a proper Certificate from the competent Authority be submitted;
- (iv) Action Plan for ensuring good occupational environment for mine workers may be submitted based on Recommendations of a Nationally reputed Institute; Both specific and Generic preventive measures may be elaborated in the Action Plan;
- (v) Annexure-I (as per Agenda) and revised Questionnaire may be submitted;
- (vi) Action Plan with budgetary provisions duly addressing the issues raised during Public Hearing may be submitted;
- (vii) PP has not adequately addressed the presence of wild life in the study area. A detailed Report with regard to wild life habitat in the study area prepared by any Wild Life Expert shall be submitted; and
- (viii) There are two Rare, Threatened and Endangered (RET) Plant Species i.e. *Commiphora* and *Adhatoda* which need to be conserved and a Plan for multiplication of such species (as accepted by PP during presentation) may be submitted.

In this context, the Project Proponent vide letter dated 24.01.2015 has submitted the information/clarification and accordingly the proposal is considered in the present meeting. The point wise explanation of the queries is given by the Project Proponent as below:

- (i) With regard to legibility of EIA/EMP Report and Plans, the PP has submitted revised legible EIA/EMP Report.
- (ii) With regard to non-submission of copy of Mine Plan, the PP has submitted a copy of Approved mining Plan.
- (iii) With regard to location of mine site in context of Aravali Notification, the PP has submitted a Letter of Department of Mines & Geology, Dholpur vide dated 11.03.2014 stating that area is not falling in Aravalli prohibited area. Further, PP has also submitted NOC from Forest Department DFO Dholpur vide letter no. 2101, dated 24.02.2014.

- (iv) With regard to assurance of good occupational environment for mine workers, the PP has proposed Action Plan for ensuring good occupational environment for mine workers and allocated a budget of Rs. 5.0 lakhs per annum for the same.
- (v) With regard to non-submission of Annexure-I and Questionnaire, the PP has submitted the Annexure-I and revised Questionnaire.
- (vi) With regard to re-submission Action Plan of Public Hearing, the PP has submitted the revised Action Plan with budgetary provisions duly addressing the issues raised during Public Hearing.
- (vii) With regard to in-adequately addressing the presence of Wild Life in the study area, the PP has prepared a detailed Report on Wild life and their habitat by Ecology and biodiversity Expert on the basis of site visit conducted.
- (viii) With regard to two Rare, Threatened and Endangered (RET) Plant Species i.e. Commiphora and Adhatoda, the PP has prepared the Conservation Plan of the two species incorporating Educational and Awareness programs for local people and its propagation via transplantation/ stem cutting. The PP has also allocated total budget of Rs. 11.5 Lacs spread over 5 years for conservation of these plant species.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for **Mining of Mineral-Bajri (Minor Mineral) with proposed production capacity of 12.0 Lakhs TPA (ROM)**.

The Committee **recommended** additional specific conditions viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Implementation of the Recommendations of National Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (ii) Transport of mineral will not be done through any of the villages; (iii) Project Proponent shall plant native plant species and local species as suggested by villagers/specialist; (iv) Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (v) Implementation of Action Plan on the issues raised during the Public Hearing. The proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing held on 21.07.2014; (vii) Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel

whichever is reached earlier; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; and (xi) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Rajasthan and any other Court of Law.

(2.45) Mining of Stone (Minor Mineral) in the Mine of "Narnaul" with proposed production capacity of 4.0 million TPA of Stone (ROM) by M/s A.N.E. Industries Private Ltd., located at Tehsil- Narnaul, District- Mahendragarh, Haryana (19.89ha) (Consultant: Vardan Environet, Gurgaon, Haryana)-Reconsideration of EC

The proposal of M/s. A.N.E Industries Ltd. is for mining of Stone (Minor Mineral) in the Mine of Narnaul with proposed production capacity of 4.0 million TPA of Stone (ROM). The mine is located at Tehsil-Narnaul, District-Mahendergarh, Haryana.

The proposal of EC was earlier appraised by the EAC in its meeting held during December 10-11, 2014 wherein the EAC sought the following documents/clarifications for further decision on the matter:-

- (i) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Haryana vide letter dated 04.11.2014 and the Public Hearing was held during 15.09.2014 i.e. prior to approval of the Mine Plan. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the PP to the Public. The Committee also was of the view that clarification may also be sought from the PP with an undertaking, as to whether the contents of Draft Mine Plan and approved Mine plan are same or different;
- (ii) Committee desired that in compliance with TOR no. 1, production details be submitted; as mine was working earlier as informed by the PP during presentation;
- (iii) Details of impact and predictions from blasting and fly rocks should be provided;

- (iv) Action Plan for ensuring good occupational environment for mine workers may be submitted based on Recommendations of any Nationally reputed Institute; Both specific and Generic preventive measures may be elaborated in the Action Plan;
- (v) Wind rose diagram was not correct, which needs to be redone and submitted;
- (vi) Committee noted that in proper compliance of TOR no. 17 with regard to Aravali Notification, the required Certificate from the concerned Authority should be submitted;
- (vii) Committee noted that in compliance with TOR no. 47 the details and outcome of Court case in CWP No. 27700 of 2013, needs to be furnished;
- (viii) Details of R&R were deficient, complete details in this regard should be furnished; and
- (ix) Deficiencies in Annexure-I (as per Agenda) and the Questionnaire may be rectified and re-submitted.

In this context, the Project Proponent vide letter dated 15.01.2015 has submitted the information/clarification and accordingly the proposal is considered in the present meeting. The point wise explanation of the queries is given by the Project Proponent as below:

- (i) With regard to conduction of Public Hearing prior to approval of the Mine Plan, the PP stated that the Mines and Geology Department has approved the Mining Plan & Progressive Mine Closure Plan vide letter no. DMG/HY/ML/Narnaul/3380, dated 01.08.2014 and the Mining Scheme was modified and approved by Director Mines & Geology, Haryana vide memo no. 4762-65, dated 04.11.2014. Further, Department of Mines & Geology, Haryana vide Memo no. DMG/HY/ML/Narnaul/198, dated 09.01.2015 stated that "There is no material change in the revised Draft Mining Plan and Mining Plan approved on 01.08.2014 except that of changes in Level of production as given in the table below."

Year	As per approved mining scheme dated 1/8/2014 (Page no. 31, Table no. 4.1)	As per Modified mining scheme dated 4/11/2014 (Page no. 34, Table no. 4.1)
	ROM (MT)	ROM (MT)
1 st Year	45,00,000	40,00,000
2 nd Year	45,00,000	40,00,000
3 rd year	40,00,000	40,00,000
4 th Year	35,00,000	40,00,000

5 th Year	35,00,000	40,00,000
Average Production per annum	40,00,000	40,00,000

The PP has also taken undertaking that the contents of the approved Mine scheme dated 01.08.2014 and Modified Mining Plan dated 04.11.2014 are same.

- (ii) With regard to compliance of TOR no. 1, the PP has informed that the mining lease of the area has been granted to M/s. ANE Industries Pvt. Ltd. for the first time in the open auction held on 30-12-2013. Therefore the area in question had never been operated by M/s. ANE Industries Pvt. Ltd.
- (iii) With regard to impact and predictions from blasting and fly rocks, the PP stated that the blasting will be carried out such as to avoid any ill impacts due to blasting and fly Rocks. The proposed blasting will be done with delay detonators to prevent vibrations and noise. No plaster shooting will be done rather rock breaker will be used to break bigger boulder. In the areas nearing the habitats muffle blasting will be done. Safety precautions already proposed in the mining plan approved on dated 04.11.2014 by the Department of Mines and Geology, Haryana as indicated in the DGMS circular 36 of 1972 will be strictly followed.
- (iv) With regard to good occupational environment for mine workers, the PP has proposed Action Plan for ensuring good occupational environment for mine workers based on the report "Detection of Silicosis among Stone mine workers From District Dholpur" published in February, 2014 by National Institute of Miners Health (Ministry of Mines, Govt. of India) and allocated a budget of Rs. 10 lakhs per annum for the same. The Action Plan comprises of initial and periodical medical examination, specific preventive measures like hearing loss, general health awareness, medical control, PPEs etc.
- (v) With regard to Wind rose diagram, the PP has submitted revised Wind rose diagram. The Committee discussed the same and is satisfied.
- (vi) With regard to compliance of TOR no. 17 with regard to Aravali Notification, the PP submitted a letter of Department of Mines and Geology, Haryana, Haryana vide Memo No. 198, dated 09.01.2015 which states that, 'The area is not covered under Aravali Notification dated 7-05-1992 of MoEF, GOI. The Notification is applicable in respect of certain specified areas of District Gurgaon of Haryana and that of District Alwar of Rajasthan. The proposed stone block mining will be carried out on the hillock of village, Narnaul, District Mahendergarh, Haryana which is not prohibited by any court and this area is not covered by Aravalli Project Plantation.

- (vii) With regard to the details and outcome of Court case in CWP No. 27700 of 2013, the PP has obtained Letter from DGMG, Haryana dated 09-01-2015 which states that, "The CWP No. 27700 of 2013 - Rajbir Singh v/s State and others it is clarified that the petitioner in said matter had challenged the conditions of the auction notice and the rules relating to Payment of Rent and Compensation to the land owners. The Hon'ble High Court did not restrain the auction proceedings and held that the auctions may be held but it has also directed its orders dated 17.12.2013 that the same shall be subject to final outcome of above said CWP. Accordingly, the acceptance /Lol was issued to the outcome of said case. The said case is still pending before Hon'ble Punjab and Haryana High Court for adjudication.
- (viii) With regard to R&R, the PP has mentioned that the Lease area is a Government Land. (Gair Mumkin Pahar). Total Lease area available for Mining does not fall under forest area or agricultural land. There is no habitation in this area. There are no Project affected person's involved. However, if any land is acquired by M/s. ANE Industries Pvt. Ltd. in future they will follow the Haryana Government Rehabilitation and Resettlement of Land Owners' Policy as per applicability in their area.
- (ix) With regard to non-submission of documents, the PP has submitted the Annexure-I and revised Questionnaire.

The Committee deliberated at length the information submitted by Project Proponent and **recommended** the Proposal for environmental clearance for Mining of Stone (Minor Mineral) with proposed production capacity of 4.0 million TPA (ROM) of Stone.

The Committee also **recommended** additional **specific conditions** viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; (ii) An independent study be organised during peak activity, to understand how the actuals compare with the carrying capacities and further decisions taken to maintain sustainability of this essential stone extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of stone; (iii) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The PP shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing held on 15.09.2014; (iv) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-

geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry; (v) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres; (vi) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (vii) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; (viii) A comprehensive study for slope stabilization of mine benches and OB dumps shall be undertaken within one year; The clearance is only for the stones and not for any associated mineral (ix) Washing of all transport vehicle should be done inside the mining lease (x) "Environmental Clearance is subject to final outcome of the Court case in Hon'ble High Court of Punjab and Haryana" or any other Court of Law; (xi) Native plant species of Amla, Tamarind, Neem, Arjun, Bauhinia and others as suggested by villagers/specialist may be planted; and (xi) Implementation of Haryana Government Rehabilitation and Resettlement of Land Owners' Policy as per applicability in the area.

(2.46) Mining of Mineral-Bajri (Minor Mineral) with proposed production capacity of 12.0 Lakhs TPA (ROM) by M/s Naval Kishor Gupta, located at Tehsil-Sepau & Dholpur, District-Dholpur, Rajasthan (391.75ha) (Consultant: Vardan Environet, Gurgaon, Haryana)-Reconsideration of EC

The proposal of M/s Naval Kishor Gupta is for Mining of Mineral-Bajri (Minor Mineral) with proposed production capacity of 12.0 Lakhs TPA (ROM) in the MLA of 391.75 ha. The Mine lease area is located at Revenue villages of Tehsil-Sepau, District: Dholpur, Rajasthan. The lease area lies on Parvati River bed.

The proposal of EC was earlier appraised by the EAC in its meeting held during November 13-14, 2014 wherein the EAC deferred the proposal and sought the following information/clarifications for further decision on the matter:-

- (i) There are 03 threatened plant species in the study area as per the Report submitted by the PP. The Committee is of the view that these species may be multiplied in local environment.
- (ii) The details of plantation and species to be planted along with designated area need to be submitted;
- (iii) PP has reported that No forests land is involved. Land use classification and supporting documents are not very clear, the same may be submitted;

- (iv) The Committee noted that the total stretch of bed in the mine lease is about 48 Km, however PP has only monitored the base line data at 9 locations; therefore PP has not complied with the TOR no. 49;
- (v) TORs compliance with respect to Air Quality Modeling as per Point no. 21 has not adequately addressed;
- (vi) TORs compliance with respect to Environment Policy as per Point no. 5&6 has not adequately addressed;
- (vii) Approved mining plan needs to be submitted;
- (viii) Action Plan for water sprinkling on all stretches originated from the mine lease and will be used for transport of mineral alongwith water availability, frequency of sprinkling and cost involved may be submitted;
- (ix) Duly filled Questionnaire has not been submitted; and
- (x) Details of location with respect to Aravali Hills Notification has not been submitted.

In this context, the Project Proponent has submitted the information/clarification and accordingly the proposal is considered in the present meeting. The point wise explanation of the queries is given by the Project Proponent as below:

- (i) With regard to three threatened plant species in the study area, the PP has prepared an Action Plan for multiplication of these species i.e. Commiphora wightii (Family: Burseraceae), Asparagus racemosus (Family: Asparagaceae) and Aristolochia indica(Family: Aristolochiaceae); incorporating educational and awareness programs for local people and its propagation via transplantation/ stem cutting. The PP has also allocated total budget of Rs. 11.5 Lakhs spread over 5 years for conservation of these plant species.
- (ii) With regard to details of plantation and species to be planted, the PP has submitted Green Belt Development Plan which states that 5% of total lease area will be covered under plantation i.e. 19.58 ha area will be covered under plantation annually. The plantation will be carried out in the School, Hospital, Police Station, local buildings etc. after obtaining the Consent of the concerned authority. The plant species will be planted according to guidelines of CPCB, State Forest Department and priority of the local people.
- (iii) With regard to involvement of forests land and Land use classification, the PP has submitted Letter of Department of Mines & Geology, Dholpur, Rajasthan dated 11.03.2014 stating that area is not falling in Aravalli prohibited Area.
- (iv) With regard to compliance of TOR no. 49, the PP has increased the monitoring station number from 9 to 15 locations and has carried out additional one month monitoring at all the 15 stations from 15 November, 2014 to 15 December, 2014. The results of both the monitoring period was compared and was found that the results of previous monitoring with 9 locations and recent monitoring conducted with 15 locations were in line with each other

- (v) With regard to Air Quality Modeling, the PP has submitted the revised Air Quality Modeling Report for all the 15 locations. The cumulative of predicted incremental GLC and baseline value of PM₁₀ was well within the prescribed limit (NAASQ Standards) at all the locations.
- (vi) With regard to Environment Policy, the PP has formulated Environmental policy and hierarchical system to deal with the environmental issues and for ensuring the compliance with environmental conditions.
- (vii) With regard to non-submission of Approved Mine Plan, the PP has submitted a copy of Approved mining Plan.
- (viii) With regard to water sprinkling, frequency of sprinkling and cost involved, the PP has prepared a detailed Action Plan for water sprinkling on all stretches originated from the mine lease and transport routes of mineral along with, frequency of sprinkling and cost involved. Total water required for dust suppression is 10 KLD and budget allocated for water sprinkling is Rs. 1.5 Lakhs per annum.
- (ix) With regard to Questionnaire, the PP has submitted revised Questionnaire.
- (x) With regard to detail of location with respect to Aravali Hills Notification, the PP has submitted Letter of Department of Mines and Geology, Dholpur dated 11.03.2014 stating that area is not falling in Aravalli prohibited area.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for **Mining of Mineral-Bajri (Minor Mineral) with proposed production capacity of 12.0 Lakhs TPA (ROM).**

The Committee **recommended** additional specific conditions viz. (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Implementation of the Recommendations of National Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (ii) Transport of mineral will not be done through any of the villages; (iii) Project Proponent shall plant native plant species and local species as suggested by villagers/specialist; (iv) Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (v) Implementation of Action Plan on the issues raised during the Public Hearing. The proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing held on 16.07.2014; (vii) Excavation will be carried out up to a maximum depth of 3 meters from surface of

mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; and (xi) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Rajasthan and any other Court of Law.

RE-CONSIDERATION OF CATEGORY 'B' PROJECT

(2.47) Masonry Stone Mine (Minor Mineral) of M/s Mankombu Granites located at Village & Panchayat – Moonilavu, Taluk – Meenanchil, District – Kottayam, Kerala (3.9942 ha.) (Consultant - Enkay Enviro Services Pvt. Ltd., Jaipur)- Re-consideration of Category 'B' Project

The proposal of M/s Mankombu Granites is for Masonry Stone Mine with proposed production capacity of 2,40,000 MTA. The mine is an existing Masonry Stone mine Project. The mine is located at Survey Nos. 46/1, 46/1-1, 46/1-2, 46/1-3, Moonilavu Village & Panchayat, Meenanchil Taluk, Kottayam District, Kerala for an area of 3.9942 ha. The geographical co-ordinates of the lease area are Latitudes (N): 09°45'48.01" to 09°45'39.73" and Longitudes (E): 76°48'33.27" to 76°48'24.59" and is covered by Survey of India Toposheet No. 58C4. This is a category "B" Project. As the tenure of SEIAA, Kerala has expired, the proposal is being examined in the MoEF&CC.

The Mining Lease area of 3.9942 ha is private land. Mining will be carried out through semi-mechanized open-cast method using drilling, blasting of small diameter holes and loading of mineral by tyre mounted excavator. Out of the total 3.9942 ha lease area, about 3.0842 ha area will be excavated and will be reclaimed & plantation will be done. The remaining 0.24 ha which is left for stripping limits along the periphery will also be developed with plantation, 0.01 ha will be for road, 0.05 ha area will be for infrastructure and 0.61 ha area will be as undisturbed area. It was reported by the Project Proponent that at the conceptual stage, total waste material will be sold to road construction vendors. The total water requirement is about 15 KLD in which 1 KLD is for domestic use which would be sourced from open well, 12 KLD for dust suppression system in mine as well as ancillary unit (Crusher Unit) and 2 KLD for plantation purposes and will be sourced from storm water pond. Ultimate working depth is 515 m. MSL (mining will not intersect ground water table level). Ground water table is 0.5 m. to 5 m BGL. Life of mine is 7 years (@2,40,000 MTA). The

estimated cost of the Project is Rs. 3.0 Cr. and cost for Environmental Protection Measures are Rs. 9 Lakhs as capital cost and Rs. 2 Lakhs as recurring cost.

The Committee was informed by Project Proponent that they have submitted Form-1 and Pre-feasibility Report online treating the Project as B category as per the EIA Notification, 2006. Environmental Impact Assessment as well as Public Consultation is not required. The EAC viewed that these prescribed exemptions and recommendations are based on provisions of the EIA Notification, 2006 vide para Clause 7.0 sub clause 7(i) I under stage (1) – Screening it provides that “In case of Category ‘B’ Projects or activities, this stage will entail the scrutiny of an application seeking prior Environmental Clearance made in Form-1 by the concerned State level Expert Appraisal Committee (SEAC) for determining whether or not the Project or activity requires further environmental studies for preparation of an Environmental Impact Assessment (EIA) for its appraisal prior to the grant of Environmental Clearance depending up on the nature and location specificity of the Project.” The Committee felt that TOR is not required, nor any formal EIA/ EMP is to be prepared in the instant case nor any Public Hearing is to be conducted in light of negligible impact of the Project activity on Environment.

Based on the discussion held in the EAC meeting held during December 22-23, 2014, the EAC deferred the proposal and suggested that the Project Proponent has to submit the following documents for further decision on the matter as per the EIA Notification, 2006:-

- (i) Letter of Intent/Mine Lease for Mining of minor mineral;
- (ii) Approved Eco-friendly Mining Plan for mining of minor mineral from the State Government;
- (iii) Copy of the Application/File of the proposal submitted/Processed/Appraised earlier in SEIAA/SEAC Kerala may be submitted;
- (iv) Details of protected areas viz. National Park, Sanctuary, Habitat for Migratory Birds, Tiger Reserve, Protected monuments, Interstate boundary and Critically Polluted area as identified by CPCB etc. located within 10km radius of the mine lease area;
- (v) Year wise production details of minerals since 14.09.2006;
- (vi) Details of other mines including lease area located within 500m of the mine lease area duly authenticated by the Mining Department of the State Govt.;
- (vii) List of wild animals sited in Project area or neighborhood ; and
- (viii) Details of Court Case/ litigation pending, if any.

In this context, the Project Proponent has submitted the information and accordingly the proposal is considered in this present meeting.

- (i) With regard to Letter of Intent / Mine Leas, the PP has informed that the certificate issued as LOI by Mining & Geology Department, Govt. of Kerala.
- (ii) With regard to copy of Application / File of the proposal submitted / processed / Appraised earlier in SEIAA / SEAC Kerala, the PP has informed that there is no application pending at SEIAA / SEAC, Kerala.
- (iii) With regard to details of protected areas located within 10 km radius of the mine lease area, the PP has informed that there is no protected areas viz. National Park, Sanctuary, Habitat for Migratory Birds, Tiger Reserve, Protected monuments, Interstate boundary and Critically Polluted areas as identified by CPCB etc. located within 10 km radius of the mine lease area.
- (iv) With regard to Year wise production details of minerals, the PP has informed that the Project Proponent possess one short term permit for quarrying in an area of 2.47ha and the permit was expired on 09/02/2015. The production details of quarry from 01.10.2014 to 09.02.2015 is 40,000 TPA and the certificate in this regard is submitted. **The Committee noted that it is a case of violation as the mining has been done during 01.04.2014 to 09.02.2015 without prerequisite environmental clearance as per the provisions of the EIA Notification, 2006** and as per the Order of Hon'ble Supreme Court vide its judgment dated 27.02.2012 in I.A. Nos.12-13 of 2011 in Special Leave Petition (C) No.19628-19629 of 2009 titled Deepak Kumar etc. Vs. State of Haryana & Ors. etc.
- (v) With regard to details of other mines including lease area located within 500m of the mine lease area duly authenticated by the Mining Department of the State Govt., the PP informed that there is no quarry in operation within 500m of the proposed mining area and the certificate in this regard issued by Mining & Geology Department, Govt. of Kerala is submitted.
- (vi) With regard to list of wild animals sited in Project area or neighbourhood, the PP informed that the ecological assessment of the site was carried out and the list of wild animals cited in Project area or neighbourhood is provided in the Pre-Feasibility Report as Item No. 4.4.5.2. None of the animal species identified from the site belonged to the threatened categories identified by IUCN.
- (vii) With regard to details of Court Case, PP informed that there is an Original Suit No. 60/2014 is pending in the Hon'ble Munsiff Court of Pala. The injunction application against the working of quarry was dismissed by the Court. The appeal filed against it also dismissed by the appellate Court, Sub Court, Pala. There is no restriction by any Court against the working of the quarry.

The Committee after detailed deliberations, **recommended the Proposal for environmental clearance** for Mining of Masonary Stone (Minor Mineral) with proposed production capacity of 2,40,000 TPA (ROM) **with additional specific conditions:-**

- (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Labour Institute for ensuring good occupational environment for mine workers shall be implemented;
- (ii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry;
- (iii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres;
- (iv) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board;
- (v) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured;
- (vi) Washing of all transport vehicles should be done inside the mining lease;
- (vii) "Environmental Clearance is subject to final outcome of any Court case relevant to this Project in Hon'ble Supreme Court, Hon'ble High Court of Kerala and Hon'ble NGT or any other Court of Law" and
- (viii) Project Proponent to carryout vegetation analysis of the area to ascertain endemic and RET (Rare endangered and threatened) species to be affected due to mining and take actions for multiplications and plantation of those species.

Consideration of TOR

(2.48): Mining of Sand (Minor Mineral) with proposed production capacity of 11,00,000 TPA (ROM) by M/s Shri Mohan Paul Singh Pannu, located at Village-Kedyan Ganyal ,Tehsil Kathua & District – Kathua, State – Jammu & Kashmir (19.942 ha) (Consultant: M/s Envirta Sustainable Solutions Pvt. Ltd., Ghaziabad)-TOR

The proposal of M/s Sh. Mohan Paul Singh Pannu is for River Sand Mining with proposed production capacity of 11,00,000 TPA (ROM) of Sand in the mine lease area of 19.942 ha. The Mine lease area is located at Village Kedyan Ganyal, District - Kathua, Jammu & Kashmir. The lease area lies on Ravi River Bed. The Latitudess and Longitudes of the Mine Lease areas in River bed Block – 32° 21' 30.54" to 32° 21' 9.56" N & 75° 33' 13.41" to 75° 33' 25.07" E respectively on Survey of India Toposheet No 43P11(Site). It is a Category 'A' Project as the mine lease area is located 0.3Km from interstate boundary of J&K and Punjab.

Method of Mining will be by semi-mechanized opencast. Excavation will be carried out up to maximum depth of 3 meters in river bed. The total mine lease area is 19.942 ha. Letter of Intent (LOI) has been granted by the Director of Mines and Geology Department, Govt. of Jammu & Kashmir. Total water requirement for the Project will be 13.28 KLD which will be sourced from nearby villages by tankers. Total Cost of the Project is Rs. 60 Lakhs. PP informed that no court case/litigation is pending against the Project. Mining Plan was approved by Director, Geology & Mining, J&K, Srinagar vide letter no. DMG/F-435/AOMP/85-88 dated 18/10/2014. Forest NOC was issued by Divisional Forest Officer, Kathua Forest Division, Kathua, J&K vide letter no.KFD/NOC/2014-15/5117 dated 11/02/2015.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the followings:-

- (i) Replenishment and drainage study from the reputed Institution;
- (ii) Impact of mining activity on adjacent agricultural land with particular reference to run off, soil erosion and loss of top soil due to change in topography;
- (iii) 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;

- (iv) Impact of all existing mining on the present land use in the study area;
- (v) Proper species specific Conservation plan for Schedule-I;
- (vi) Impact of mining on plankton;
- (vii) Details of Gradient of river bed;
- (viii) Details of excavation schedule & sequential mining plan;
- (ix) Letter from the State Forests Department that the mine lease area does not fall under forests land category; and
- (x) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEFCC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.

(2.49): Mining of Sand (Minor Mineral) in the Mine of "Mimarpur Sand Unit" with proposed production capacity of 12.75 Lakhs TPA (ROM) by M/s Malik Buildcon Pvt. Ltd., located at village-Mimarpur , Tehsil & District - Sonipat, Haryana (36.85 ha.)(Consultant: M/s Envirta Sustainable Solutions Pvt. Ltd., Ghaziabad)-TOR

The Project is already appraised in the Agenda Item at 2.38

(2.50) Jogiyara Sand and Boulder Mine of M/s Garhwal Mandal Vikas Nigam Ltd. (GMVN) with proposed production capacity of 1, 82,300 TPA (ROM), located at Village - Jogiyara, Tehsil - Yamkeshwar, District - Pauri Garhwal, Uttarakhand (7.948 ha.)(Consultant: Grass Roots Research & Creation India (P) Ltd.)-ToR

The proposal of M/s Garhwal Mandal Vikas Nigam Ltd. is for mining of Sand & Boulder with proposed production capacity of 1,82,300 TPA (ROM) in the mine lease area of 7.948ha. The mine lease area is located at village- Jogiyara, Tehsil-Yamkeshwar, District-Pauri Garhwal (Uttarakhand).

The total lease area of the Project is 7.948ha. The Project comprises of four blocks. The Latitudess & Longitudes of the site are Block-1: Latitudes: 30° 3'42.38"N to 30° 3'43.75"N Longitude: 78°23'53.34"E to 78°23'44.66"E, Block-2: Latitudes: 30° 3'34.27"N to 30° 3'42.58"N Longitude: 78°23'29.14"E to 78°23'8.11"E, Block-3: Latitudes: 30° 3'46.74"N to 30° 3'59.37"N Longitude: 78°22'52.11"E to 78°22'37.44"E, Block-4: Latitudes: 30° 4'34.78"N to 30° 4'45.50"N Longitude: 78°22'26.89"E to 78°22'45.37"E rrespectively & on Toposheet No. 53J/8.

PP reported that Rajaji National Park lies at a distance of about 4.0 km in WNW direction from the mine lease. There is no Forest land within the ML Area. This is an open-cast mining Project, confined to extraction of sand and boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pan, sieves, etc. The minerals will be collected in its existing form. Excavation will be

carried out only up to a depth of 1.5m bgl. Sand will be separated from bajri and boulders by sieving process. Extraction of sand and boulder material will be done only during the day time and completely stopped during the monsoon season. Mineral will be transported by trucks/dumpers. Total water requirement for the Project is 2.7 KLD which will be sourced from nearby village with proper permission from the Gram Panchayat. Total cost of the Project is Rs. 7.25 Lakhs/annum. No Court case is pending against the Project.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per Annexure-I 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, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Appropriate Disaster Management safeguards in view of the high seismicity of the area; and (vii) Authenticated map with regard to distance of Sanctuary/National Park from the mine lease area.

(2.51): Proposed Limestone Mining Project with production capacity of 5.0 million TPA(ROM) by M/s Wonder Cement Limited, located near village(s)- Karunda, Payri, Dhanora, Maliya khedi, Tehsil Nimbahera, District Chittorgarh, Rajasthan (255.0032ha)(Consultant: J.M. EnviroNet Pvt. Ltd.)-TOR

The proposal of M/s Wonder Cement Limited is for Limestone Mining Project with proposed production capacity of 5.0 million TPA(ROM) in the ML Area of 255.0032 ha. The mine is located near village(s)- Karunda, Payri, Dhanora, Maliya khedi, Tehsil Nimbahera, District Chittorgarh, Rajasthan. The site falls between geographical extends Latitudess 24°40'35" N & 24°42'19" N , 74°35'33" E & 74°36'21" E on the Survey of India Toposheet No. 45 L/10.

The total mine lease area is 255.0032ha, out of which 56.07ha is Govt. land and 198.9322ha is private land. The LOI for mining lease was issued by Rajasthan Govt. vide Order no. P.5 (342) Khan/Group-2/2014, dated 31.12.2014. No forest land is involved in the mining Project. The proposed method of mining will be fully mechanised opencast method of mining with the use of HEMM. Total water requirement for the proposed mining Project will be 42 KLD, which will be sourced from existing mine pit. Total manpower requirement for the proposed mining Project will be 72 persons. Total cost of the mining Project is Rs. 44 Crores. Capital Cost for environmental protection measures is Rs. 4 Crores/- & Recurring cost is Rs. 40 Lakhs per annum. There is no court case/litigation is pending against the mining Project.

Project Proponent reported that there is no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves. Some patches of

Protected Forest and Reserved Forest falls at a distance of 3.0 to 9.0 km from mine site.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish all the analysis/testing reports of water, air, soil, noise etc. using the MoEFCC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.

(2.52) Nongtraï Limestone Mine of M/s Lafarge Umiam Mining Private Limited, located at Village - Nongtraï, Tehsil Shella Bholaganj, District - East Khasi Hills, Meghalaya (100 ha)-Extension of validity of TOR

The TORs were issued by MoEF&CC vide letter no. J-11015/17/2013-IA.II (M) dated 30th April, 2013 which is valid up to 29.04.2015. The Project Proponent vide Letter dated 30.01.2015 requested to extend the validity of the TORs as they anticipated delay in submission of final EIA/EMP Report to MoEF&CC.

Based on the information furnished and discussions held, the Committee **recommended** the extension of validity of TOR for additional one year i.e. from 30.04.2015 to 29.04.2016.

(2.53).Sand, Bajri, Boulder mining from River Bed of Narokhalal River with production capacity of 2,70,000 TPA by M/s Uttarakhand Forest Development Corporation, located at Langha Forest Range, Village – Kata Patthar, Tehsil - Vikasnagar, District -Dehradun, Uttarakhand (40ha) (Consultant: Mantec Consultants Pvt. Ltd., New Delhi)-Reconsideration TOR

The proposal of M/s Uttarakhand Forest Development Corporation (UKFDC) is for mining of sand, boulder and bajri in the River bed Narokhala with production capacity of 2.70 Lakhs TPA in mine lease area of 40ha. The mine lease area is located in Langha forest range near village-Kata Patthar, Tehsil- Vikasnagar, District Dehradun, Uttarakhand. The Latitudess and Longitudes of mine lease are 30°29'53.05"N to 30°30'33.68"N, 77°52'19.25"E to 77°51'31.40"E respectively on toposheet no 53F/4. The Project is located in seismic zone-IV. It is a category 'A' Project as mine lease area is located 3.46 km interstate boundary of Himachal Pradesh & Uttarakhand. The proposal was earlier considered in the EAC meeting held during September 25-26, 2014 wherein the EAC sought the revised Form I and PFR.

The proposed Project is an open-cast mining Project, confined to extraction of sand, bajri and boulder from the proposed site. The operation will be manual with use of hand tools like shovel, pan, sieves, etc. Sand will be separated from bajri and boulders by sieving process. Excavation will be carried out up to a maximum depth of 1 meter. Extraction of sand, bajri and boulder will be done only during the day time and during the non-monsoon season only. The lease area has been decided as per the letter of intent (letter no. 584/BHU. KHANI.I./2012-13 dated 23th January, 2013). Life of mine is 10 years. Nine Reserved Forests exist within the study area. The total water requirement is 20 KLD including water demand for domestic purpose, dust suppression & green belt development which shall be met by tanker supply. The total cost of Project would be around Rs. 2 Lakhs.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per Annexure-I 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, (iv) Impact of mining on plankton, (v) Details of excavation schedule & sequential mining plan; (vi) Appropriate Disaster Management safeguards in view of the high seismicity of the area; and (vii) Authenticated map with regard to distance of Sanctuary/National Park from the mine lease area.

(2.54)Malka Granite Mining Project with proposed production capacity of 5250 TPA (ROM) by M/s Swastik Enterprises, located at village – Malka Taluka – Nowgaon, District - Chhatarpur, Madhya Pradesh (3.836ha)(Grass Roots Research and Creation India (P) Ltd.)- Consideration of EC

The proposal of M/s Swastik Enterprises is for Granite mining with proposed production capacity of 5250 TPA (ROM) in MLA of 3.836ha. The mine lease area is located at village –MalkaTaluka – Nowgaon, Chhatarpur District Madhya Pradesh. The topography of the area is hilly with highest elevation is 295 AMSL in north direction and lowest elevation is 285 AMSL in western direction. The general slope of the area is towards NNE. The mining lease area is located between the longitude 79^o45'07" East & Latitudes 25^o06'40" North and Toposheet number is 63 C/7.

The PP has informed that as per EIA Notification, 2006 and its amendments, General Conditions shall apply except for Project or activity of less than 5 ha of mining lease area. Further it is provided that the above exception shall not apply for Project or activity if the sum total of the mining lease area of the said Project or activity and that of existing operating mines and mining Projects which were accorded environment clearance and are located within 500 metres from the periphery of such Project or activity equals or exceeds 5 ha. In this instant proposal, the State Govt. vide letter dated 02.02.2015 has reported that the mine lease area is 3.836ha and is located

within 2km of Interstate Boundary and there is one more mine of M/s Seema Khare comprising area of 2.200ha in 500 meter radius, hence it is treated as Category 'A' Project and to be dealt at the level of MoEF&CC.

The lease was grant to M/s Swastik Enterprises for 20 years. Mine Plan was approved by State Govt. vide letter dated 02.04.2012. Existing land use pattern of the mining lease area is govt. waste land. Total 2.0 ha area shall be developed as green belt with 15,000 number of trees in the barrier zone of the lease area. Total geological reserves are 95,760 Tonnes and Total Mineable reserves are 81,396 Tonnes. Life of Mine is 20 years. Total water requirement is about 12.85 KLD. Drinking water will be brought from the nearby well and water for dust suppression and plantation will be collected from nearby villages and stored rainwater during monsoon season.

Method of mining is Opencast fully mechanized using HEMM with blasting to lose the harder portion of rock. Loading and unloading on trucks will be done by mobile crane. The overburden removal may be done at times by excavator cum loader. Loading of the block of granite will be done by mobile crane in 10t tipper or 15t truck. Transportation of granite block to destination will be done by truck. During the five year haulage road will be developed at the gradient of 1:16. Overburden will be hauled by loader cum dumper combination. After complete development, quarry will be divided into zonal areas, or a particular blasting zone will be located. The upper crust of the site termed as weathered zone will be blasted with blasting sticks. The proposed mining activity will provide employment to about 37 workers. The workers will be hired mostly from the nearby villages. It is reported by the Project Proponent that there is no court case/litigation pending against the Project. The total cost of Project would be around Rs 1.5 Crores.

The Committee was informed by Project Proponent that they have submitted Form-1 and Pre-feasibility Report and requested for EC as per the EIA Notification, 2006. Environmental Impact Assessment as well as Public Consultation is not required. The EAC viewed that these prescribed exemptions and recommendations are based on provisions of the EIA Notification, 2006 vide para Clause 7.0, sub clause 7(i) I under stage (1) – Screening. it provides that "In case of Category 'B' Projects or activities, this stage will entail the scrutiny of an application seeking prior Environmental Clearance made in Form-1 by the concerned State level Expert Appraisal Committee (SEAC) for determining whether or not the Project or activity requires further environmental studies for preparation of an Environmental Impact Assessment (EIA) for its appraisal prior to the grant of Environmental Clearance depending up on the nature and location specificity of the Project." The Committee felt that TOR is not required, nor any formal EIA/ EMP is to be prepared in the instant case nor any Public Hearing is to be conducted in light of negligible impact of the Project activity on Environment.

The Committee after detailed deliberations, **recommended** the Proposal for environmental clearance for Mining of Granite (Minor Mineral) with proposed production capacity of 5250 TPA (ROM) with **additional specific conditions:-**

- (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented;
- (ii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out; The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry;
- (iii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres;
- (iv) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board;
- (v) Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured;
- (vi) Washing of all transport vehicles should be done inside the mining lease; and
- (vii) "Environmental Clearance is subject to final outcome of any Court case relevant to this Project in Hon'ble Supreme Court, Hon'ble High Court of Madhya Pradesh and Hon'ble NGT or any other Court of Law".

(2.55)Varada-I Bauxite Mine with enhancement of production capacity from 17,673.975 TPA to 1, 32,370 TPA (ROM) by M/s Orient Abrasive Ltd., located at Village-Mewasa, Taluka-Kalyanpur, District-Devbhoomi Dwarka, Gujarat (11.33ha) (Consultant: Kadam Environmental Consultants)-Reconsideration of TOR

The proposal of M/s Orient Abrasive Ltd is for enhancement of production capacity of Bauxite Ore from 17,673.975 TPA to 1,32,370 TPA (ROM). The mine is located at Village-Mewasa, Taluka-Kalyanpur, District-Devbhoomi Dwarka Gujarat in the Mine lease area of 11.33ha. This is a Category 'A' Project as the mine lease is located at 3.1km of the Marine Sanctuary.

The proposal was earlier considered by the EAC in its meeting held during January 27-28, 2014 wherein 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.

Based on the submission of the above mentioned documents, the proposal is considered in the present meeting.

The total Mine lease area is 11.33ha which is non forest land. The Chief Conservator of Forests, Marine National Park, Gujarat vide letter dated 26.10.2013 mentioned that the mine lease 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&CC notification no. 2561 dated 22.08.2013. Govt. of Gujarat has executed the lease on 05.10.1981 for a period of 20 years. Lessee has applied for renewal of the lease. Mining Scheme was approved by IBM vide letter dated 07.07.2014. Method of mining will be opencast semi-mechanized with use of excavators and tippers. Project cost is Rs. 67 Lakhs.

The Committee noted that it is case of violation as the PP has continued the mining operation and enhanced the production capacity without EC. PP has informed that the mining activity has been stopped since August 2014. The Committee is of the view that Ministry has to take actions on violation as per guidelines.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TOR for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish all the analysis/testing reports of water, air, soil, noise etc. using the MoEFCC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.

(2.56).Expansion of Varada-II, Bauxite Mine with the production capacity from 96,030 TPA to 1,92,060 TPA (ROM) by M/s Orient Abrasives Ltd., located at Village-Mewasa, Taluk-Kalyanpur, District Jamnagar (Now Devbhumi Dwarka), Gujarat (25.8798ha)(Consultant: Kadam Environmental Consultants)-Amendments of TOR

The Ministry has prescribed TORs on 12.12.2014 to M/s Orient Abrasives Ltd. for Expansion of Varada-II, Bauxite Mine with production capacity from 9,514.9 TPA to 96,030 TPA (ROM), located at Village-Mewasa, Taluk-Kalyanpur, District Jamnagar (Now Devbhumi Dwarka), Gujarat in the MLA of 25.8798ha.

The PP vide letter dated 20.01.2015 requested to amend the TORs with respect to proposed production capacity from 96,030 TPA to 1,92,060 TPA (ROM) of Bauxite as the IBM has approved the mining scheme vide letter dated 01.12.2014 with respect to production capacity of 1,92,060 TPA (ROM) of Bauxite. The PP has submitted the revised Form I and PFR.

The Project Proponent mentioned that they had started collection of base line data since March 2015 and requested to collect the baseline data pre-monsoon season i.e. March 2015 - May 2015. The Committee deliberated the issues and based on the request made by the Project Proponent w.r.t. collection of base line data, the Committee agreed for the same.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **recommended** the amendments in TORs with respect to production capacity from 96,030 TPA to 1,92,060 TPA (ROM) of Bauxite.

(2.57)Mining of River Sand with proposed production capacity of 2.26 Lakh TPA (ROM) by M/s Shiva Corporation (I) Ltd., located at Revenue Village(s) of Tehsil & District-Chittorgarh, Rajasthan (450.89ha)-Amendments in TORs.

The Ministry has prescribed TORs on 17.10.2013 to M/s Shiva Corporation (I) Ltd. for River Sand Mining with proposed capacity of 2.24 Lakh TPA in the mine lease area of 450.89ha. The MLA is located at Revenue Village(s) of Tehsil & Distt-Chittorgarh, Rajasthan.

The PP vide letter dated 20.12.2014 requested to amend the TORs with respect to proposed production capacity from 2.24 Lakhs TPA to 2.26 Lakhs TPA (ROM) of Sand as the Mining Plan has been approved with respect to production capacity of 2.26 Lakhs TPA(ROM). The PP has not submitted the revised Form I and PFR.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **recommended** the amendments in TORs with respect to production capacity from **2.24 Lakhs TPA to 2.26 Lakhs TPA** (ROM) Sand **subject to submission** of Revised Form I and PFR with respect to change in capacity.

AMENDMENT IN TOR PROPOSAL

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

The Ministry has prescribed TORs on 15.10.2013 to M/s Narrotham Singh Jadaun for River Sand Mining with proposed capacity of 2.80 Lakh TPA in the mine lease area of 483.39ha. The MLA is located at Revenue Village(s) of Tehsil & Distt-Rajsamand, Rajasthan.

The PP vide letter dated 20.12.2014 requested to amend the TORs with respect to proposed production capacity from 2.80 Lakhs TPA to 2.81 Lakhs TPA (ROM) of Sand as the Mining Plan has been approved with respect to production capacity of 2.81 Lakhs TPA (ROM). The PP has not submitted the revised Form I and PFR.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **recommended** the amendments in TORs with respect to production capacity from **2.80 Lakhs TPA to 2.81 Lakhs TPA** (ROM) of Sand **subject to submission** of Revised Form I and PFR with respect to change in capacity.

(2.59) Quartz and Feldspar Mine of M/s Shri Pradeep Goyal, located at village Paner, Tehsil Kishangarh, District Ajmer, Rajasthan (188.01125ha)

The Committee deferred the proposal as the PP did not attend the meeting.

EXTENSION OF VALIDITY OF TOR PROPOSAL

(2.60) Gandhigram Iron Ore/Blue Dust Mine (Iron ore Beneficiation Plant) for enhancement of production capacity from 90,000 TPA to 3,00,000 TPA (ROM) by M/s Rajeev Chandha, located in Village Gandhigram, Tehsil Sihora, Dist. Jabalpur- Madhya Pradesh (7.310ha)-Extension of validity of TOR

The TORs were issued by MoEF&CC vide letter no. J-11015/208/2012-IA.II (M) dated 12th February, 2013 which is valid up to 11.02.2015. The Project Proponent vide Letter dated 01.01.2015 requested to extend the validity of the TORs as they anticipated delay in submission of final EIA/EMP Report to MoEF&CC.

Based on the information furnished and discussions held, the Committee **recommended** the extension of validity of TOR for additional one year i.e. from 12.02.2015 to 11.02.2016.

(2.61) Amtipani Bauxite Mining Project by M/s. Hindalco Industries Ltd., located at village Amtipani , Gurdari & Chirodih, Tehsil Bishunpur, district Gumla, Jharkhand (190.95ha))-Extension of validity of TOR

The TORs were issued by MoEF&CC vide letter no. J-11015/298/2011-IA.II (M) dated 26th march, 2013 which is valid up to 25.03.2015. The Project Proponent vide Letter dated 20.12.2014 requested to extend the validity of the TORs as they anticipated delay in submission of final EIA/EMP Report to MoEF&CC.

Based on the information furnished and discussions held, the Committee **recommended** the extension of validity of TOR for additional one year i.e. from 26.03.2015 to 25.03.2016.

(2.62) Chilhati Lime Stone Mine of M/s SKS Cement Limited (A subsidiary of SKS Ispat& Power Ltd.) located at Bilaspur District, Chhattisgarh (299.751ha) (2.25MTPA).

The proposed Chilhati Limestone mine of M/s SKS Cement Limited is located at village Semradih & Pakaidih, Tehsil Masturi, Bilaspur District, Chhattisgarh. The proposal is for limestone mining of 2.25 MTPA from 299.751 ha. The Proponent received TOR from the MoEF vide letter no. J-11015/120/2011-IA. II (M) dated 29.07.2011, which was valid up to 28.07.2013. Further the PP requested extension of validity of TOR, the proposal was considered in the EAC meeting held during July 22-24, 2013. The validity of TOR was extended from 29.07.2013 to 28.07.2014. However, the EIA report was submitted by the PP on 07.01.2015. The Committee considered the proposal in its meeting held during January 15-16, 2015 and suggested the PP to apply for extension of validity of TOR as per MoEF circular no. No. J-1013/41/-IA-II(I) dated 07.11.2014.

Further on request of PP made vide letter dated 19.01.2015 the proposal was considered in the present meeting the Project Proponent requested to extend the validity of the TORs; as the submission of final EIA report was delayed due to delay in conducting the Public Hearing.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR as per MoEF circular no. No. J-1013/41/-IA-II(I) dated 07.11.2014 for additional one year i.e. **from 29.07.2014 to 28.07.2015.**

ADDITIONAL ITEMS

(2.63) Iron Ore Beneficiation Plant of M/s Essar Steel Orissa Limited, located in village(s) Dubuna and Basantpur. Tehsil Joda. Distt. Keojhar, Orissa(121.8147 ha; tailing pond of 10.7MTPA)-additional item.

The Iron Ore Beneficiation Plant of M/s Essar Steel India Limited was granted EC vide letter no. J-11015/876/2007-IA. II (M) dated 04.05.2009. The proposal involved 121.8147 ha of land of which 31.9719 ha was for beneficiation plant, 2.8329 ha for closed conveyor and 87.0105 ha for tailing pond. An amendment to the specific condition no. (xiii) *The ore transportation shall not be carried out through the road and there shall be no stackyard for collection of ore from various mines. The entire transportation shall be carried out through the conveyor / rail* was requested by PP.

The request of the PP was considered by the EAC in February, 21-23, 2012 and reconsidered during May, 23-25, 2012 and April, 16-18, 2013. Based on the recommendations of the EAC the specific condition no. (xiii) was amended as follows:

"(xiii) The ore transportation shall be carried out by road."

The PP submitted the intimation about change of location of proposed tailing pond of 10.7 MTPA. In this regard, PP has informed that the original tailing pond involved an area of 215 acres of land at village Basantpur and the land was to be acquired by IDCO. Out of 215 acres, 206 acres was forest Kisam. Due to the implementation of Forest Dwellers Act, the land size was reduced to 138 acres and was also not contiguous in nature which could not be developed into a tailing pond. Thus, an alternate location amounting to 109.45 acres at village Purunadihi has been identified and land acquisition process was initiated by IDCO. The land acquisition process is in advanced stage. The SPCB vide letter dated 06.12.2012 pointed out that the *'PP shall comply to the conditions imposed in environmental clearance issued by the MoEF Govt. of India vide letter No. J-11015/876/2007-IA.II(M) dated 4th May, 2009 and inform to the MoEF, Govt. of India regarding change of location of proposed tailing pond of 10.7 MTPA capacity beneficiation plant as same was not part of*

the original proposal for which environmental clearance have been obtained from the MoEF, Govt. of India and shall take adequate environmental measures required if any and/or modify environment clearance as advised by the MoEF, Govt. of India.'

The above letter of PP was deliberated by the EAC, The EAC was of the view that the change of location of proposed tailing pond leads to change in scope of Project with change in location and size of the Project. Therefore, Committee recommended that the PP may be asked to seek the amendment in EC.

(2.64) Mining of Sand (Minor Mineral) in the Mine of "Panipat Unit-2" with production capacity of 10 million TPA (ROM) of Sand by Shri Sanjay Jaglan S/o Shri Raj Singh Arya, located at Tehsil- Panipat, District- Panipat, Haryana (1775.02ha)-(Consultant: Udaipur Min-Tech Pvt. Ltd.)-Reconsideration EC

The proposal of M/s. Sanjay Jaglan is for mining of sand in the Mine of "Panipat Unit-2" with production capacity of 10 million TPA of Sand (ROM) in mine lease area of 1,775.02ha. The mine lease area is located at village(s)- Nanhera, Adhmi, Jalmana, Rahimpur Kheri, Mirzapur, Goela Kalan, Goela Khurd, Sanjoli, Raimal, Khojgipur, Bilaspur, Hathwala, Saharmalpur, Garhichajju and Jorasikhalsa, Tehsil-Panipat, District-Panipat, Haryana.

The proposal of EC was earlier appraised by the EAC in its meeting held during December 10-11, 2014 wherein the EAC sought the following documents/clarifications for further decision on the matter:-

- (i) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Haryana vide letter dated 13.10.2014 and the Public Hearing was held during 30.09.2014 i.e. prior to approval of the Mine Plan. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the PP to the Public. The Committee also was of the view that clarification may also be sought from the PP with an undertaking, as to whether the contents of Draft Mine Plan and approved Mine plan are same or different;
- (ii) The Committee was of the view that issue of mining over agricultural land should be considered in a broader prospective and views of various Experts Institutions that may have carried out detailed studies and research should be taken before any sand mining or mining of any mineral which is otherwise abundantly available be allowed over agriculture land. Till then, the proposal of mining of sand on Agricultural land may be deferred, however PP may be allowed River Bed mining. In view of the above, the Committee decided that A Report from Expert Institution on Impact of Sand Mining on Agricultural land with specific reference to violate and

inviolable areas may be submitted; by also taking the earlier study Report of CSSIR and HAU in to account;

- (iii) There is one Schedule-I species namely Common Peafowl. PP informed that the species specific Conservation Plan has been approved, however, copy of letter needs to be provided;
- (iv) Committee noted that Water Quality Level has to be done again;
- (v) Action Plan with budgetary provisions of issues raised during Public Hearing were not adequately addressed by PP;
- (vi) Maps and photos are completely Illegible; Same should be improved and submitted;
- (vii) Action Plan for ensuring good occupational environment for mine workers may be submitted based on Recommendations of Nationally reputed Institute; Both specific and Generic preventive measures may be elaborated in the Action Plan;
- (viii) Details of Mitigation measures need to be provided for two villages where fluoride level, calcium, chloride, TDS, total hardness and magnesium in water is higher than the permissible limit as per EIA/EMP Report; and
- (ix) Revised Questionnaires need to be submitted.
- (x) The Committee was of the view that it is advisable that for the time being, PP may be allowed mining activity on River Bed only and the decision on the mining activities on Agricultural land may be deferred in view of several Representations and likely impact on Agricultural productivity. The PP has also agreed to this decision of the Committee.

In this context, the Project Proponent vide letter dated 17.01.2015 has submitted the information/clarification and accordingly the proposal is considered in the present meeting. The point wise explanation of the queries is given by the Project Proponent as below:

- (i) With regard to contents of draft Mining Plan and approved mining plan, the Project Proponent informed that the Department of Mines and Geology, Govt. of Haryana, vide letter dated 09.01.2015 mentioned that the content of these mine plans are by and large same except that of certain typographical corrections and formatting. PP vide letter dated 13.01.2015 has also submitted undertaking that no material change has been made in approved mining plan.
- (ii) With regard to issue of mining over agricultural land, PP has informed that they have inter-alia submitted the sieve analysis report also. The Committee deliberated on the issues.

- (iii) With regard to Conservation Plan for Schedule-I species, PP had submitted the letter of Chief Wildlife Warden, Haryana vide no. 3438 dated 27.01.2015 in context of approved conservation plan.
- (iv) With regard to water quality level, PP had redone the water quality analysis and the Committee observed that the water quality parameters are well within limit.
- (v) With regard to Action Plan, PP has submitted the Action Plan along with budgetary provisions. The Committee discussed the same.
- (vi) PP has submitted legible Maps and photos.
- (vii) With regard to Action Plan for ensuring good occupational environment for mine workers, PP has submitted the Action Plan. The Committee was of the view that the Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of any National Labour Institute for ensuring good occupational environment for mine workers shall be implemented.
- (viii) With regard to details of mitigation measures for two villages where fluoride level, calcium, chloride, TDS, total hardness and magnesium is higher, in this context, PP has informed that two RO plants will be installed in affected villages in consultation with Gram Panchayat and awareness program will be organized on the same.
- (ix) PP has submitted the revised Questionnaire.
- (x) With regard to mining on River bed and agricultural land, the Committee had already recommended in other case of Karnal in Haryana for mining on River bed and Agricultural land both. In view of this, the EAC suggested the same decision in this matter to subject to all the stipulated protective measures being strictly adhered to.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for **Mining of Sand** (Minor Mineral) in "Panipat Unit-2" with production capacity of 10 million TPA (ROM) of Sand.

The Committee **recommended** additional specific conditions viz. (i) Transport of mineral will not be done through villages; (ii) Project Proponent shall provide the potable water to the villagers which are having high fluoride concentration; (iii) Project Proponent shall plant native plant species of Amla, Tamarind, Neem, Arjun, Bauhinia and other local species as suggested by villagers/specialist; (iv) Proponent

shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Implementation of the Recommendations of National Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (v) An independent study be organised during peak activity, to understand how the actuals compare with the carrying capacities and further decisions taken to maintain sustainability of this essential sand extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (vi) Implementation of Action Plan on the issues raised during the Public Hearing. The proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (vii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table; (viii) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (ix) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (x) Washing of all transport vehicle should be done inside the mining lease; (xi) Proposed Protective measures in respect of Project located in seismic zone-III as part of Disaster management plan; (xii) Excavation on River bed will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier; and (xiii) "Environmental Clearance is subject to final outcome of Hon'ble High Court of Punjab and Haryana on the mentioned case".

(2.65).Quarrying River Sand in u/s and d/s of Kattalai Bed Regulator in Cauvery River with production capacity of 15,01,247 m³ over an extent of 196.25 ha by M/s Public Works Department, State Government of Tamil Nadu, located at village-Sriramasamudram/Silaipilayaputhur, Tehsil Thottiyam, District-Trichy, Tamil Nadu (196.25 ha) – Reconsideration of EC

The proposal is for quarrying River Sand with production capacity of 15,01,247 m³ in the mine lease area of 196.25ha. The mine lease area is located at Village (s) Sriramasamudram and Silaipilayaputhur, Tehsil–Thottiyam, District Trichy, Tamil Nadu.

The proposal of EC was earlier appraised by the EAC in its meeting held during August 26-27, 2014 wherein the EAC deferred the proposal and sought the following documents/clarifications for further decision on the matter:-

- (i) Project Proponent has to revise the EIA/EMP report with regard to TORs wise compliance along with month/date wise base line data of ambient air quality etc.;
- (ii) Three Schedule-I species namely Peafowl, Osprey and Monitor Lizard were reported within buffer zone. Approved Conservation Plan by the Chief Wildlife Warden of the State Govt. along with budgetary provisions and implementation schedule need to be submitted;
- (iii) Project Proponent need to submit the authenticated list of flora and fauna;
- (iv) Letter from District Magistrate stating the District Revenue Officer is not below the rank of ADM as per the provisions of EIA Notification 2006; and
- (v) Details of impact on traffic management during transportation of mineral need to be provided specially mentioning the plans to bypass the villages. Arrangement proposed to avoid accident during movement of tucks and display of sign boards on the transport route may be submitted.

In this context, the Project Proponent has submitted the information/clarification and accordingly the proposal is considered in the present meeting. The point wise explanation of the queries is given by the Project Proponent as below:

- (i) With regard to revise the EIA/EMP Report consisting TOR's wise compliance along with Month/Date wise baseline data of Ambient Air Quality etc., the Project Proponent has submitted the revised EIA/EMP Report including the Month/Date wise baseline data of AAQ, authenticated by the National Institute of Technology, Trichy.
- (ii) With regard to Conservation Plan for Three Schedule-I species namely peafowl, Osprey and Monitor Lizard, the Project Proponent has got approval from the Chief Wild Life Warden vide letter no. Lr.No. WL5/ 30163/2014 dated 10.02.2015 with the total cost of Rs.12.10 Lakhs. In this Conservation Plan the PP has earmarked a sum of Rs.2,50,000 for the conservation of Osprey and Rs. 1,00,000 for Peafowl by constructing nest arrangements. The PP has also earmarked Rs. 5,00,000 for Peoples Bio-Diversity Register and Rs.3,60,000 for creating awareness programme to forest fringe villages for conservation of identified scheduled species of Jackal, Monitor Lizard and Mongoose in the approved Conservation Plan.

- (iii) With regard to submit the authenticated List of Flora and Fauna, the Project Proponent has submitted the authenticated list of Flora Fauna, listed and authenticated by the Post Graduate and Research Department of Environmental Sciences, Bishop Heber College, Trichy. The report reveals that in core and buffer zones, 134 plant species were recorded and there is no endangered, threatened, or rare species of plants in the study area. The study also includes surveys of the animal communities such as aquatic organisms, insects, molluscs, reptiles, fishes, amphibians, birds and mammals in core and buffer zones. The number of Fishes, Crabs and Amphibians identified are 10, 8 and 5 respectively. The total number Birds and Mammals listed are 60 and 10 respectively.
- (iv) With regard to getting letter from District Magistrate stating that the District Revenue Officer is not below the rank of ADM as per the provisions of EIA Notification 2006, the Project Proponent has got letter from District Magistrate vide Lr.No.Collr/Trichy/F.PH1/ PWD /2014 dated 23.02.2015 stating that the District Revenue Officer is of the rank of Additional District Magistrate.
- (v) With regard to details of impact on traffic management during transportation of mineral, the Project Proponent has submitted a detailed 'Traffic Management Plan' which includes an alternate route map to avoid the nearby habitations. The Project Proponent has submitted the Action Plan on movement of trucks which covers measures to prevent accidents, trucks carrying sand shall be covered using tarpaulin to avoid spilling, water sprinkling in quarry sites and the unpaved sections of the road in a regular interval, ensuring that only trained, authorized and licensed drivers should operate the vehicles, enlist the help of another worker before reversing the vehicle, switch-off the engine when not in use to save fuel, prevent unnecessary noise and air pollution, lower the tipping bodies when the machine is unattended, carryout periodic servicing to the excavators, keep the vehicle tidy and the cabin free from clumsy utilities which might obstruct the controls and create hazards, display of sign boards on the transport routes, avoid carrying additional passengers in the cabin while in field operation other than the connected workers, follow safe driving principles and avoid running the vehicle across the slopes on uneven ground, provide stop blocks when the vehicle is tipping into or running alongside excavations or when it is parked and avoid overloading the vehicle.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of River Sand (Minor Mineral) with proposed production capacity of 15,01,247 m³ over an extent of 196.25 ha.

The Committee **recommended** additional specific conditions viz. (i) Transport of mineral will not be done through villages; (ii) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health

check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Implementation of the Recommendations of National Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (iii) Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (iv) Implementation of Action Plan on the issues raised during the Public Hearing. The proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (v) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (vi) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (vii) Washing of all transport vehicle should be done inside the mining lease; and (viii) Excavation on River bed will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier.

(2.66) Quarrying River Sand in u/s and d/s of Kattalai Bed Regulator in Cauvery River with production capacity of 15,18,958 m³ over an extent of 256.06 ha by M/s Public Works Department, State Government of Tamil Nadu, located at Village-Mayanur, Tehsil- Krishnarayapuram, District-Karur, Tamil Nadu (256.06 ha) – Reconsideration of EC

The proposal is for quarrying River Sand with production capacity of 15,18,958 m³ in the mine lease area of 256.06ha. The mine lease area is located at Village Mayanur, Tehsil-Krishnarayapuram, District-Karur, Tamil Nadu.

The proposal of EC was earlier appraised by the EAC in its meeting held during August 26-27, 2014 wherein the EAC deferred the proposal and sought the following documents/clarifications for further decision on the matter:-

- (i) Project Proponent has to revise the EIA/EMP report with regard to TORs wise compliance along with month/date wise base line data of ambient air quality etc.;
- (ii) Three Schedule-I species namely Peafowl, Osprey and Monitor Lizard were reported within buffer zone. Approved Conservation Plan by the Chief Wildlife Warden of the State Govt. along with budgetary provisions and implementation schedule need to be submitted;

- (iii) Project Proponent need to submit the authenticated list of flora and fauna;
- (iv) Letter from District Magistrate stating the District Revenue Officer is not below the rank of ADM as per the provisions of EIA Notification 2006; and
- (v) Details of impact on traffic management during transportation of mineral need to be provided specially mentioning the plans to bypass the villages. Arrangement proposed to avoid accident during movement of tucks and display of sign boards on the transport route may be submitted.

In this context, the Project Proponent has submitted the information/clarification and accordingly the proposal is considered in the present meeting. The point wise explanation of the queries is given by the Project Proponent as below:

- (i) With regard to revise the EIA/EMP Report consisting TOR's wise compliance along with Month/Date wise baseline data of Ambient Air Quality etc., the Project Proponent has submitted the revised EIA/EMP report and the Month/Date wise baseline data of AAQ authenticated by the National Institute of Technology, Trichy.
- (ii) With regard to Conservation Plan for Three Schedule-I species namely peafowl, Osprey and Monitor Lizard, the Project Proponent has got approval from the Chief Wild Life Warden vide letter no. Lr.No. WL5/ 30162/2014 dated 10.02.2015 with the total cost of Rs.12.10 Lakhs. In this conservation plan the PP has earmarked a sum of Rs.2,50,000 for the conservation of Osprey and Rs. 1,00,000 for Peafowl by constructing nest arrangements. The PP has also earmarked Rs. 5,00,000 for Peoples Bio-Diversity Register and Rs.3,60,000 for creating awareness programme to forest fringe villages for conservation of identified scheduled species of Jackal, Monitor Lizard and Mongoose in the approved conservation plan.
- (iii) With regard to submit the authenticated List of Flora and Fauna, the Project Proponent has submitted the authenticated list of Flora Fauna, listed and authenticated by the Post Graduate and Research Department of Environmental Sciences, Bishop Heber College, Trichy. The report reveals that in core and buffer zones 134 plant species were recorded and there is no endangered, threatened, or rare species of plants in the study area. The study also includes surveys of the animal communities such as aquatic organisms, insects, molluscans, reptiles, fishes, amphibians, birds and mammals in core and buffer zones. The number of Fishes, Crabs and Amphibians identified are 10, 8 and 5 respectively. The total number Birds and Mammals listed are 60 and 10 respectively.

- (iv) With regard to getting letter from District Magistrate stating that the District Revenue Officer is not below the rank of ADM as per the provisions of EIA Notification 2006, the Project Proponent has got letter from District Magistrate vide letter No. DEE/TNPCB/KAR/ F.Public Hearing /2014, dated 07.01.2015 stating that the District Revenue Officer is of the rank of Additional District Magistrate.
- (v) With regard to details of impact on traffic management during transportation of mineral, the Project Proponent has submitted a detailed traffic management plan which includes an alternate route map to avoid the nearby habitations. The Project Proponent has submitted the Action Plan on movement of trucks to avoid accident such as, trucks carrying sand shall be covered using tarpaulin to avoid spilling, water sprinkling in quarry sites and the unpaved sections of the road in a regular interval, ensuring that only trained, authorized and licensed drivers should operate the vehicles, enlist the help of another worker before reversing the vehicle, switch-off the engine when not in use to save fuel, prevent unnecessary noise and air pollution, lower the tipping bodies when the machine is unattended, carryout periodic servicing to the excavators, keep the vehicle tidy and the cabin free from clumsy utilities which might obstruct the controls and create hazards, display of sign boards on the transport routes, avoid carrying additional passengers in the cabin while in field operation other than the connected workers, follow safe driving principles and avoid running the vehicle across the slopes on uneven ground, provide stop blocks when the vehicle is tipping into or running alongside excavations or when it is parked and avoid overload the vehicle.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance for Mining of River Sand (Minor Mineral) with proposed production capacity of 15,18,958 m³ over an extent of 256.06 ha.

The Committee **recommended** additional specific conditions viz. (i) Transport of mineral will not be done through villages; (ii) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Implementation of the Recommendations of National Institute for ensuring good occupational environment for mine workers; All the old age people of the surrounding villages may be provided medical facilities; (iii) Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density; (iv) Implementation of Action Plan on the issues raised during the Public Hearing. The proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing; (v)The pollution due to transportation load on the environment will be effectively

controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre; (vi) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board; (vii) Washing of all transport vehicle should be done inside the mining lease; and (viii) Excavation on River bed will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier.

(2.67) Bailadila Iron Ore Project, Deposit No: 13 of M/s NMDC Limited, village Kirandul, District South Bastar Dantewada, Chhattisgarh (413.745ha)-Reconsideration of environmental clearance.

The proposal is for opening up of new mine for production of 10 million tonnes per annum of iron ore. NMDC propose to develop the Deposit-13 Project under J.V. company i.e NMDC-CMDC Limited primarily to meet the iron ore requirement of the State of Chhattisgarh. Total mineable reserve of Bailadila Deposit-13 is 324.693 million tons. Production capacity of the Project will be 10 million tons of iron ore over a period of 40 years including initial 5 years of mine development with a production rate of 2 MTPA. It was reported by the PP that there is no National Parks / Sanctuaries / historical site located within 10km radius of the area. The proposal was recommended by the EAC in its meeting held during 23-25th February 2011. The Committee recommended the Project for Environmental Clearance subject to obtaining prior forestry clearance, it being a Greenfield Project.

Forest clearance was obtained vide letter no: F.No: 8-5/2011-FC dated 12.11.2014 for diversion of 315.813 Ha (originally applied area 413.745 Ha) and remaining forest land of 97.932 Ha was excluded from the lease area. As per OM no. J-11013/12/2013-IA-II(I) (part) dated 19.06.2014 the proposal was placed before the EAC. The Committee noted that the baseline data and Public Hearing conducted for the Projects were more than three year old. The PP informed that the conditions in the vicinity of the Project have not changed much; the Committee was of the view that collection of baseline data and re-conducting the public hearing is not required since there is no major changes in the study area of the project in terms of any new industry or any development project has come up in this area. The PP also submitted an undertaking that with change of area from 413.754 ha to 315.813 ha the area meant for mining and waste dumps, etc which is duly approved by IBM, Nagpur remains same. The reduction in area will not impact the mining and associated activities as there is no change in scope and methodology of mining of iron ore as mentioned in EIA report/Mining Plan. The forest area surrendered is non mineralized and would not affect the production capacity. Based on the discussion held the Committee **recommended** the proposal for grant of Environmental Clearance for 10

MTPA capacity of Bailadila Iron Ore Project, Deposit-13, Kirandul for Mining Lease Area of 315.813 Ha.

Agenda No. 3:- Additional Item referred by the Ministry with the permission of the Chair

(3.1): Musnota Calcite Mine with production capacity of 9,000 Tonnes per annum by M/s Maa Santoshi Khanij Udyog, located at Village- Musnota, Tehsil- Nangal Chaudhary, District- Mohindergarh, Haryana (8.107ha)- Environmental Clearance

The proposal of M/s Maa Santoshi Khanij Udyog is for Musnota Calcite Mine with production capacity of 9,000 Tonnes per annum (ROM) in the mine lease area of 8.107ha. The mine is located at Village- Musnota, Tehsil- Nangal Chaudhary, District- Mohindergarh, Haryana. It has been considered as Category 'A' Project as the MLA falls at a distance of 4.3km towards North from inter-state boundary of Rajasthan and Haryana States and it attracts the General Condition of the EIA Notification, 2006.

The proposal of EC was appraised in the 22nd meeting of the Reconstituted EAC held during August 26-27, 2014 wherein the Committee **recommended** the proposal for environmental clearance for mining of Calcite with production capacity of 9,000 TPA (ROM) **subject to actions on violations** as per MoEF OM dated 12.12.2013 & 27.06.2013 with additional specific conditions that (i) Implementation of Action Plan on the issues raised during the Public Hearing should be ensured; and (ii) Regular and periodical medical examination of the workers engaged in the Project shall be carried out and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly.

The Committee, in its meeting held during August 26-27, 2014, noted that it is a violation case as mine was operated in 1998 & 2003 without EC by the earlier lessee and 1348.50 tonnes of calcite was extracted and the mining activities were closed since 2003. Accordingly, the Ministry has initiated actions on violation vide letter dated 01.10.2014. In this context, PP vide letter dated 09.12.2014 had made representation and requested that alleged violation will not be applicable to present lessee i.e. M/s Maa Santoshi Khanij Udyog as the violation has been made by the earlier lessee i.e. M/s Shri Ashok Kumar.

The Ministry has referred the case to EAC for further deliberation on actions on violation. The Committee deliberated the issues and **recommended** that the EC may be granted to M/s Maa Santoshi Khanij Udyog for Musnota Calcite Mine with production capacity of 9,000 TPA (ROM) and the actions may be initiated against

the earlier lessee i.e. M/s Shri Ashok Kumar for violation of the provisions of the EIA Notification, 1994.

(3.2): Discussion w.r.t. Conservation Plan for Schedule I species

The matter related to approval of species specific conservation plan for Schedule I species by the Chief Wild Life Warden of the State Govt. was referred to EAC by the MoEFCC. The proposal is that whether the conservation plan for Schedule I species is to be approved by the Chief Wild Life Warden of the State Govt. or not.

The Committee deliberated the issues and is of the view that the Project Proponent has to prepare the species specific conservation plan for Schedule I species with budgetary allocation. The Conservation Plan should be species specific, should have allocation of budget, time frame and agencies to be responsible for the implementation for each of the target species. The EAC shall discuss the conservation plan during the appraisal of the proposal and may suggest more mitigation measures for protection of Schedule I species and there may not be any requirement of approval of Conservation Plan from the Chief Wild Life of the State Govt.

(3.3): Discussion w.r.t. Standard Terms of Reference (TOR)

The Committee deliberated on the standard Terms of Reference and agreed upon the following Standard TOR for Mining and Beneficiation plant.

Standard Terms of Reference for Non-coal Mining projects

- 1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- 3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should

clearly show the land use and other ecological features of the study area (core and buffer zone).

- 5) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
- 8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

- 12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 21) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
- 22) One season (non-monsoon) [i.e. March - May (Summer Season); October - December (post monsoon season) ; December - February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM₁₀, particularly for free silica, should be given.
- 23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation.

The wind roses showing pre-dominant wind direction may also be indicated on the map.

- 24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 26) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- 27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- 28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- 29) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- 30) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
- 31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.

- 32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
- 33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- 36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 37) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 38) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- 39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

- 41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 44) Besides the above, the below mentioned general points are also to be followed:-
 - a) All documents to be properly referenced with index and continuous page numbering.
 - b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
 - d) Where the documents provided are in a language other than English, an English translation should be provided.
 - e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
 - g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
 - h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
 - i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii)

geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

Standard Terms of Reference for Mineral Beneficiation Projects

- 1) The alternate sites considered, the relative merits and demerits and the reasons for selecting the proposed site for the Beneficiation Plant should be indicated.
- 2) Details of the technology and process involved for beneficiation should be given. .
- 3) Location of the proposed Plant w.r.t. the source of raw material and mode of transportations of the ore from mines to the beneficiation plant should be justified.
- 4) Treatment of run of mine (ROM) and or of the fines/waste dump should be spelt out.
- 5) Estimation of the fines going into the washings should be made and its management described.
- 6) Details of the equipment, settling pond etc. should be furnished.
- 7) Detailed material balance should be provided.
- 8) Sources of raw material and its transportation should be indicated. Steps proposed to be taken to protect the ore from getting air borne should be brought out.
- 9) Management and disposal of tailings and closure plan of the tailing pond, if any after the project is over, should be detailed in a quantified manner.
- 10) 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 also be indicated.
- 11) A copy of the document in support of the fact that the Proponent is the rightful lessee of the unit should be given.
- 12) All documents including EIA and public hearing should be compatible with one another in terms of the production levels, waste generation and its management and technology and should be in the name of the lessee.
- 13) All corner coordinates of the Unit, superimposed on a High Resolution Imagery/Toposheet should be provided. Such an Imagery of the proposed Unit should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 14) It should be clearly indicated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the

Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.

- 15) Issues relating to Safety should be detailed. The proposed safeguard measures in each case should also be provided. Disaster management plan shall be prepared and included in the EIA/EMP Report.
- 16) The study area will comprise of 10 km zone around the Plant.
- 17) Cumulative impact study of both Beneficiation Plant with suggested mitigation measures as per the study should be described.
- 18) Location of Railway siding with its handling capacity and safety measures should be indicated.
- 19) Option to provide only silo for storage of minerals instead of open stacking to avoid fugitive dust should be explored and arrangements finalized justified.
- 20) 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 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.
- 21) Details of the land for any Over Burden Dumps outside the lease, such as extent of land area, distance from lease, its land use, R&R issues, if any, should be given.
- 22) 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.
- 23) 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.
- 24) 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.
- 25) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 26) A study shall be got done to ascertain the impact of the 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.
- 27) 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 Standing Committee of National Board of Wildlife and copy furnished.

- 28) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 29) Proximity to Areas declared as 'Critically Polluted' shall also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB/CPCB shall be secured and furnished to the effect that the proposed activities could be considered.
- 30) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the unit w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 31) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects, should be discussed in the report.
- 32) One season (non-monsoon) [i.e. March - May (Summer Season); October - December (post monsoon season) ; December - February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the unit in the pre-dominant downwind direction. The mineralogical composition of PM₁₀, particularly for free silica, should be given.

- 33) 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.
- 34) 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.
- 35) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be secured and copy furnished. .
- 36) 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.
- 37) 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.
- 38) 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.
- 39) 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. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to the pollution.
- 40) 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.
- 41) Details of the onsite shelter and facilities to be provided to the workers should be included in the EIA report.
- 42) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area should be be detailed.
- 43) 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.

- 44) 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.
- 45) 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.
- 46) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.
- 47) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 48) A brief background of the Project, its financial position, Group Companies and legal issues etc should be provided with past and current important litigations if any.
- 49) Benefits of the Project, if the project is implemented should be outlined. The benefits of the projects shall clearly indicate environmental, social, economic, employment potential, etc.
- 50) Besides the above, the below mentioned general points are also to be followed:-
 - a) All documents to be properly referenced with index and continuous page numbering.
 - b) Where data are presented in the report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the project.
 - d) Where the documents provided are in a language other than English, an English translation should be provided.
 - e) The Questionnaire for environmental appraisal of project as devised earlier by the Ministry shall also be filled and submitted.
 - f) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should also be followed.
 - g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
 - h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified Report of the status of compliance of the conditions stipulated in

the environment clearance for the existing operations of the project by the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.

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

Standard Terms of Reference

- 1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- 3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 5) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.

- 8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- 12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly,

detailed mitigative measures required, should be worked out with cost implications and submitted.

- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 21) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

- 22) One season (non-monsoon) [i.e. March - May (Summer Season); October - December (post monsoon season) ; December - February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM₁₀, particularly for free silica, should be given.
- 23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- 24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 26) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- 27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- 28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground

Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.

- 29) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- 30) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
- 31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- 32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
- 33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

- 36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 37) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 38) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- 39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 44) Besides the above, the below mentioned general points are also to be followed:-
 - j) All documents to be properly referenced with index and continuous page numbering.
 - k) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - l) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.

- m) Where the documents provided are in a language other than English, an English translation should be provided.
- n) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
- o) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
- p) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
- q) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- r) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

List of Participants

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|----------------------------------------------------------------------------------------------------|------------------|
| 1. Shri M. S. Nagar | Chairman |
| 2. Dr. S. Subramaniyan | Member |
| 3. Shri P.K. Verdia | Member |
| 4. Prof. G.S. Roonwall | Member |
| 5. Prof. A.K. Bhatnagar | Member |
| 6. Dr. U. Sridharan, Director (Scientific), MoEF&CC | Member Secretary |
| | |
| 7. Representatives of M/s Haryana State Industrial and Infrastructure Development Corporation Ltd. | |
| 8. Representatives of M/s Punjab Small Industries & Export Corporation Ltd. | |
| 9. Representatives of M/s K. Rajamohan Reddy | |
| 10. Representatives of M/S JSL Ltd. | |
| 11. Representatives of M/s KJS Ahluwalia | |
| 12. Representatives of M/s Chhattisgarh Mineral Development Corporation Ltd.(CMDC) | |
| 13. Representatives of M/s NM Food Products | |
| 14. Representatives of M/s Jai Mata Dee Enterprises | |
| 15. Representatives of M/s J.K Minerals | |
| 16. Representatives of M/s Mahanadi Coalfields Ltd. | |
| 17. Representatives of M/s Arjun Singh | |
| 18. Representatives of M/s Sher Singh S/o Shri Mangal Singh | |
| 19. Representatives of M/s Meghraj Singh | |
| 20. Representatives of M/s Shree Cement Ltd | |
| 21. Representatives of M/s. KJSL – Sunder (JV), | |
| 22. Representatives of M/s. MSK (JV), | |
| 23. Representatives of M/s. Shree Kaviraj Enterprises Pvt. Ltd. | |
| 24. Representatives of M/s D Mohanraj | |
| 25. Representatives of M/s. UltraTech Cement Ltd. | |
| 26. Representatives of M/s Zelvova Buildcon Private Limited | |
| 27. Representatives of M/s Charites, Real Estate Pvt. Ltd. | |
| 28. Representatives of M/s Dahiya Traders | |
| 29. Representatives of M/s ACC limited | |
| 30. Representatives of M/s DSP Associate | |
| 31. Representatives of M/s Shree Cement Ltd. | |
| 32. Representatives of M/s Jindal Mectec Pvt. Ltd. | |
| 33. Representatives of M/s Malik Buildcom Pvt. Ltd. | |
| 34. Representatives of M/s Mohan Paul Singh Sandhu | |
| 35. Representatives of M/s SRS Natural Resources Ltd., | |
| 36. Representatives of M/s Rajasthan Fort & Palace Pvt. Ltd., | |
| 37. Representatives of M/s Smt. Nirmala Ben S. Mehta | |
| 38. Representatives of M/s Naval Kishor Gupta, | |
| 39. Representatives of M/s A.N.E. Industries Private Ltd., | |

40. Representatives of M/s Mankombu Granites
41. Representatives of M/s Mohan Paul Singh Sandhu
42. Representatives of M/s Garhwal Mandal Vikas Nigam Ltd. (GMVN)
43. Representatives of M/s. Wonder Cement Ltd.
44. Representatives of M/s Lafarge Umiam Mining Private Limited
45. Representatives of M/s Uttarakhand Forest Development Corporation
46. Representatives of M/s Swastik Enterprises
47. Representatives of M/s Orient Abrasive Ltd.
48. Representatives of M/s Shiva Corporation (I) Ltd.
49. Representatives of M/s Narrotham Singh Jadaun
50. Representatives of M/s Rajeev Chandha,
51. Representatives of M/s. Hindalco Industries Ltd.
52. Representatives of M/s SKS Cement Limited
53. Representatives of Shri Sanjay Jaglan
54. Representatives of M/s Public Works Department
55. Representatives of M/s NMDC Limited
