

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

SUMMARY RECORD OF 18th MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The 18th Meeting of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment and Forests was held during **March 20-21, 2014**. The list of participants is annexed.

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

Item No. 1:

(1.1). Confirmation of the minutes of the 17th EAC Meeting.

The Minutes of the 17th Meeting of EAC held during **February 24-25, 2014** were confirmed and circulated.

Agenda Item No. 2:

Day 1: 20th March, 2014 (Thursday)

Consideration of Environmental Clearance Proposals

(2.1). Panch Pahari Mine for enhancement of production capacity from 0.013 million TPA to 0.40 million TPA (ROM) of marble & limestone (minor mineral) by M/s Sanjay Mangal, Vijay Mangal and Akshay Mangal, located near Village Panch Pahari, Tehsil– Kotputli, Distt Jaipur, Rajasthan (248.65 ha) (Consultant: Perfect Enviro Solutions Pvt. Ltd.)-EC

The proposal of M/s Sanjay Mangal, Vijay Mangal and Akshay Mangalis for enhancement of production capacity from 0.013 million TPA to 0.40 million TPA (ROM) of marble & limestone (minor mineral). The mine lease area is located near Village-Panch Pahari, Tehsil– Kotputli, Distt-Jaipur, Rajasthan. The Latitudes and Longitudes of the mine lease area are 27°30'53.42" N & 27°32'46.40" N and 76°09'28.89" E & 76°12'50.43" E respectively on Toposheet no. 54 A/2.

The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during October 19-21, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by the Ministry vide letter no. J-11015/206/2011.IA.II (M) dated 28.12.2011. The Proponent submitted the EIA/EMP report to the Ministry seeking environmental clearance after conducting public hearing. The Committee noted that the TORs were issued for 268.2757ha and the Public Hearing

&EIA/EMP report was prepared for 268.2757ha, however the mine plan is for 248.65 ha. The Committee was of the view that the PP has to submit the revised EIA/EMP report for the 248.65 ha mine lease area;

The total mining lease area is 248.65 ha, out of this, only 4 ha is Government land, 244.65 ha is private land. No forest land is involved with in lease area. The Scheme of Mining along with progressive mine closure plan has been approved by Department of Mines and Geology, Jaipur, Rajasthan, vide letter no. SME/JP/MP/229/12 dated 10th January, 2014. PP reported that 114.86 ha area will be used for excavation, 5.00ha for overburden/dumps, 5 ha for Mineral/Sub-grade stack, 2.2 ha for storage top soil, 0.20 ha for infrastructure development, 2.20 ha for road, 13.87 ha for Green belt development and 105.33 ha area will the undisturbed area. The mineable reserves are 73.52 million tonnes and Life of mine is 183 years. Proponent informed that mine lease does not fall under Aravalli hill range and submitted letter from the Department of Mines and Geology, State Govt. of Rajasthan vide letter no. Sa Kha A/Kot/CC/Apra/Kha Pa – (590/93) 137/03 (R)/2604 dated 03.07.2013.

Mining is by semi mechanized opencast method. The mining process involves drilling & blasting, loading and transportation of the excavated material. The proposed working will be by putting 115 mm dia DTH holes by Wagon Drill Machine & blasting by ANFO & Booster charge with raydet detonator. Overall pit slope will be 45°. The blasted material will be loaded by 1.0 m³ excavator to dumpers of 30 MT & 10MT capacity and transported to customers. At the end of the life of mine, out of total mining lease area, excavated area will be 114.86 ha. As per approved scheme of mining, total waste generation will be 14.7 million meter cube at the end of the life of the mine. It was reported by the PP that Ground water will not be intersected during scheme period. The average daily water requirement for the project will be 22 KLD, whereas peak water demand will be 34 KLD. Fresh water (Ground water) will be used for drinking purpose. PP reported that out of 34 KLD, about 80% (14 KLD for sprinkling and 13 KLD for green belt development) will be used for pollution control. The remaining 7 KLD will be used for drinking (4KLD) and mining operations (3 KLD).

No National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant Reserves etc. exist within the study area (10 km radius of the mining lease boundary). There are two Reserved Forests & six Protected Forests within the study area. No Schedule-I species were reported within buffer zone.

The baseline data was generated for the period during October 2011 to December 2011. All the parameters for water and air quality were within permissible limits. The Committee noted that the baseline data has been generated during October-December 2011 i.e. before issuance of TORs. In this context, PP needs to submit clarification.

The Public Hearing was held on 31.10.2012 under the chairmanship of Mr. Ramji Lal Varma, Additional District Collector of Jaipur at Village Panch Pahari, Tehsil Kotputli in District Jaipur (Rajasthan). The representative of Regional Office from the Rajasthan State Pollution Control Board was present. Major issues raised during public hearing were related

to employment, adequate compensation for purchase of land and Environmental Protection Measures. The issues raised during the public hearing were discussed during the meeting.

The total cost of the project is Rs. 0.50 Crores. The PP has earmarked Rs. 1.0 lakh towards Environmental Protection Measures and Rs. 3.0 Lakh per annum towards recurring expenses. Proponent informed that Rs. 5.0 Lakhs per year have been earmarked towards CSR activities. Proponent reported that there is no court case/litigation pending against the project.

After deliberations, the Committee sought the following additional information: -

- (i) The Committee noted that the TORs validity was up to 27.12.2013, however the PP has not requested for extension of validity of TORs;
- (ii) The Committee noted that the TORs were issued for 268.2757ha and the Public Hearing & EIA/EMP report was prepared for 268.2757ha, however the mine plan is for 248.65 ha. Therefore, the PP has to submit the revised EIA/EMP report for the 248.65 ha mine lease area;
- (iii) Details of compliance of TORs no. 5,6,8 & 16 w.r.t. environment policy, R&R issues etc. now submitted are not covering all details. In this context, PP need to submit the revised compliance of TORs for the above mentioned 4 items;
- (iv) Revised Questionnaire with respect to sl. no. 4,16,29& 34 and details of precautions to be taken against the known seismicity of the area, need to be furnished.
- (v) Details of occupational health and the status of medical health reports of workers with special reference to TB should also be covered.
- (vi) Detailed Action plan needs to be provided with budgetary provision on issues raised during the public hearing,
- (vii) Details of first order stream, Information on quantity of water available in the mine pit and details about requirement of water in the project; Ground water level inventory details around mine lease area are required to be furnished.
- (viii) PP need to submit the Action Plan for using sub grade limestone and dolomite;
- (ix) The Committee noted that the base line data has been generated during October-December 2011 i.e. before issuance of TORs. In this context, PP needs to provide clarification; and
- (x) The Committee noted that it is a **violation case** as the Proponent has exceeded the approved production capacity up to 14,546 TPA in 1996-98 without the approval of MoEF. MoEF may take actions on violations as per OM dated 12.12.2012 and 27.06.2013.

The Committee decided to **defer the proposal** and advised that the Proponent need to resubmit the **Revised EIA/EMP Report** incorporating the information indicated above. The revised EIA/EMP report must mention all the details with due compliance of manuals, standards, Office memoranda and guidelines issued by the Ministry from time to time.

(2.2).Aniali Limestone mine with production capacity of 0.014 million TPA of limestone (ROM) by M/s TATA Chemicals Ltd., located at village-Aniali, Taluka-Rananav, Distrcit-Porbandar, Gujarat (12.27ha)-(Consultant-Mantec Consultants Pvt. Ltd.)-EC

The proposal of M/s TATA Chemicals Ltd. is for Aniali Limestone mine with production capacity of 0.014 million TPA of limestone. The mine lease area is located near village-Aniali, Taluka–Rananav, District-Porbandar, Gujarat. The Latitudes and Longitudes of the mine lease area are 21⁰ 42' 10.09" N to 21⁰ 42' 22.49" N and 69⁰ 49' 17.35" E to 69⁰ 49' 28.01" E respectively on Toposheet no. 41G/14. It is a Category 'A' project as the mine lease lies at a distance of 4.14 Km from Barda Wild life Sanctuary notified under the Wild Life (Protection) Act, 1972.

The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during 19th to 21st December, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by the Ministry vide letter no. J-11015/304/2012.IA.II (M) dated 05.03.2013. The Proponent submitted the EIA/EMP report to the Ministry for seeking environmental clearance after conducting public hearing. The total mining lease area of 12.27 ha is a govt. waste land. No forest land is involved. The Scheme of Mining along with progressive mine closure plan has been approved by Indian Bureau of Mines vide letter no. 682(23) (373)/2005 dated 20.02.2013. Mining is by fully mechanized opencast method. The mining process involves drilling & blasting, loading and transportation of the excavated material.

The Committee noted that the EIA/EMP report has not addressed all baseline and other environmental parameters adequately. There are several deficiencies viz. (i) mining plan and mining scheme has not been circulated to the Committee Members and that the Committee experienced difficulty to appraise the proposal of EC without mining plan; (ii) there are Schedule-I species against which conservation plan on Biodiversity with funding provision has not been submitted; (iii) cumulative impact of other mines within 10 km radius has not been reflected; (iv) details of impact due to transportation of limestone has not been provided; (v) Proponent reported in the Questionnaire that the mine is 'New Mine', however, it is an old working mine; (vi) analysis/testing report of water, air, soil, noise etc. are not enclosed with the EIA/EMP report; (vii) detailed Action plan with budgetary allocation on issues raised during the Public Hearing has not been submitted; (viii) Geological profile, and the area falling under seismic zone have not been furnished; and (ix) details of occupational health status of the workers has not been furnished.

The Committee during its discussion identified the above deficiencies and **decided that the Project Proponent needs to revise the EIA/EMP report** accordingly. The Committee will reconsider the Proposal thereafter. The revised EIA/EMP report must mention all the details with due compliance of Manuals, Standards, Office Memoranda and Guidelines issued by the Ministry from time to time.

(2.3). Ranavav Govalani Limestone Mine with production capacity of 0.122 million TPA (ROM) by M/s TATA Chemicals Ltd., located near Village Ranavav Govalani, Taluka – Ranavav, District - Porbandar, Gujarat (25.45 ha) (Consultant: Mantec Consultants Pvt. Ltd.)-EC

The proposal of M/s TATA Chemicals Ltd. is for Ranavav Govalani Limestone Mine with production capacity of 0.122 million TPA (ROM). The mine lease area is located near Village Ranavav Govalani, Taluka – Ranavav, District - Porbandar, Gujarat. The Latitudes and Longitudes of the mine lease area are 21° 41' 18.00" N to 21° 41' 32.63" N and 69° 45' 7.1" E to 69° 45' 34.5" E respectively on Toposheet no. 41G/14. It is a Category 'A' project as the mine lease area is located within 10 km from the boundary of Barda Wild life Sanctuary notified under the Wild Life (Protection) Act, 1972.

The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during 16th to 18th January, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by the Ministry vide letter no. J-11015/306/2012.IA.II (M) dated 26.03.2013. The Proponent submitted the EIA/EMP report to the Ministry for seeking environmental clearance after conducting public hearing. The total mining lease area of 25.45 ha is a govt. waste land. No forest land is involved. The Scheme of Mining along with progressive mine closure plan has been approved by Indian Bureau of Mines vide letter no. 682(23) (MS-439)/2008 MCCM (N) UDP dated 21.10.2008. Mining is by fully mechanized opencast method. The mining process involves drilling & blasting, loading and transportation of the excavated material.

The Committee noted that the EIA/EMP report has not addressed all baseline and other environmental parameters adequately. There are several deficiencies viz. (i) mining plan and mining scheme has not been circulated to the Committee Members and that the Committee experienced difficulty to appraise the proposal of EC without mining plan; (ii) there are Schedule-I species against which conservation plan on Biodiversity with funding provision has not been submitted; (iii) cumulative impact of other mines within 10 km radius has not been reflected; (iv) details of impact due to transportation of limestone has not been provided; (v) Proponent reported in the Questionnaire that the mine is 'New Mine', however, it is an old working mine; (vi) analysis/testing report of water, air, soil, noise etc. are not enclosed with the EIA/EMP report; (vii) detailed Action plan with budgetary allocation on issues raised during the Public Hearing has not been submitted; (viii) Geological profile, and the area falling under seismic zone have not been furnished; and (ix) details of occupational health status of the workers has not been furnished.

The Committee during its discussion identified the above deficiencies and **decided that the Project Proponent needs to revise the EIA/EMP report** accordingly. The Committee will reconsider the Proposal thereafter. The revised EIA/EMP report must mention all the details with due compliance of Manuals, Standards, Office Memoranda and Guidelines issued by the Ministry from time to time.

(2.4). Aniali Limestone Mine with Production Capacity of 0.053 million TPA of Limestone (ROM) by M/s TATA Chemicals Ltd., located near Village Aniali, Taluka – Ranavav, District - Porbandar, Gujarat (15.99 ha) (Consultant: Mantec Consultants Pvt. Ltd.)-EC

The proposal of M/s TATA Chemicals Ltd. is for Aniali Limestone Mine with production capacity of 0.053 million TPA of Limestone (ROM). The mine lease area is located near Village Aniali, Taluka – Ranavav, District - Porbandar, Gujarat. The Latitudes and Longitudes of the mine lease area are 21⁰ 40' 54.15" N to 21⁰ 41' 7.97" N and 69⁰ 50' 46.42" E to 69⁰ 51' 13.94" E respectively on topo-sheet no. 41G/14. It is a Category 'A' project as the mine lease area is located within 10 km from the boundary of Barda Wild life Sanctuary notified under the Wild Life (Protection) Act, 1972.

The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during 19th to 21st December, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by the Ministry vide letter no. J-11015/305/2012.IA.II (M) dated 05.03.2013. The Proponent submitted the EIA/EMP report to the Ministry for seeking environmental clearance after conducting public hearing. The total mining lease area of 15.99 ha is a govt. waste land. No forest land is involved. The Scheme of Mining along with progressive mine closure plan has been approved by Indian Bureau of Mines vide letter no. 682(23)(472)/2006-MCCM(N)UDP; dated 03.06.2013. Mining is by fully mechanized opencast method. The mining process involves drilling & blasting, loading and transportation of the excavated material.

The Committee noted that the EIA/EMP report has not addressed all baseline and other environmental parameters adequately. There are several deficiencies viz. (i) mining plan and mining scheme has not been circulated to the Committee Members and that the Committee experienced difficulty to appraise the proposal of EC without mining plan; (ii) there are Schedule-I species against which conservation plan on Biodiversity with funding provision has not been submitted; (iii) cumulative impact of other mines within 10 km radius has not been reflected; (iv) details of impact due to transportation of limestone has not been provided; (v) Proponent reported in the Questionnaire that the mine is 'New Mine', however, it is an old working mine; (vi) analysis/testing report of water, air, soil, noise etc. are not enclosed with the EIA/EMP report; (vii) detailed Action plan with budgetary allocation on issues raised during the Public Hearing has not been submitted; (viii) Geological profile, and the area falling under seismic zone have not been furnished; and (ix) details of occupational health status of the workers has not been furnished.

The Committee during its discussion identified the above deficiencies and **decided that the Project Proponent needs to revise the EIA/EMP report** accordingly. The Committee will reconsider the Proposal thereafter. The revised EIA/EMP report must mention all the details with due compliance of Manuals, Standards, Office Memoranda and Guidelines issued by the Ministry from time to time.

(2.5). Aniali Limestone Mine with Production Capacity of 0.093 million TPA (ROM) by M/s TATA Chemicals Ltd., located near Village Aniali, Taluka – Ranavav, District - Porbandar, Gujarat (16.21 ha) (Consultant: Mantec Consultants Pvt. Ltd.)-EC

The proposal of M/s TATA Chemicals Ltd. is for Aniali Limestone Mine with production capacity of 0.093 million TPA of limestone (ROM). The mine lease area is located near Village Aniali, Taluka – Ranavav, District - Porbandar, Gujarat. The Latitudes and Longitudes of the mine lease area are 21° 42' 17.60" to 21° 42' 30.80" N and 69° 49' 13.45" to 69° 49' 28.90" E respectively on topo-sheet no. 41G/14. It is a Category 'A' project as the mine lease area is located within 10 km from the boundary of Barda Wild life Sanctuary notified under the Wild Life (Protection) Act, 1972.

The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during 16th to 18th January, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by the Ministry vide letter no. J-11015/308/2012.IA.II (M) dated 19.03.2013. The Proponent submitted the EIA/EMP report to the Ministry for seeking environmental clearance after conducting public hearing. The total mining lease area of 16.21 ha is a govt. waste land. No forest land is involved. The scheme of mining along with progressive mine closure plan is approved by the Regional Controller of Mines, Indian Bureau of Mines, Udaipur vide letter no. 682 (23) (MS-437/2008 MCCM (N) UDP Dated 21.10.2008. Mining is by fully mechanized opencast method. The mining process involves drilling & blasting, loading and transportation of the excavated material.

The Committee noted that the EIA/EMP report has not addressed all baseline and other environmental parameters adequately. There are several deficiencies viz. (i) mining plan and mining scheme has not been circulated to the Committee Members and that the Committee experienced difficulty to appraise the proposal of EC without mining plan; (ii) there are Schedule-I species against which conservation plan on Biodiversity with funding provision has not been submitted; (iii) cumulative impact of other mines within 10 km radius has not been reflected; (iv) details of impact due to transportation of limestone has not been provided; (v) Proponent reported in the Questionnaire that the mine is 'New Mine', however, it is an old working mine; (vi) analysis/testing report of water, air, soil, noise etc. are not enclosed with the EIA/EMP report; (vii) detailed Action plan with budgetary allocation on issues raised during the Public Hearing has not been submitted; (viii) Geological profile, and the area falling under seismic zone have not been furnished; and (ix) details of occupational health status of the workers has not been furnished.

The Committee during its discussion identified the above deficiencies and **decided that the Project Proponent needs to revise the EIA/EMP report** accordingly. The Committee will reconsider the Proposal thereafter. The revised EIA/EMP report must mention all the details with due compliance of Manuals, Standards, Office Memoranda and Guidelines issued by the Ministry from time to time.

(2.6). Aniali Limestone Mine with Production Capacity of 0.043 million TPA of limestone (ROM) by M/s TATA Chemicals Ltd., located near Village Aniali, Taluka – Ranavav, District - Porbandar, Gujarat (21.04 ha) (Consultant: Mantec Consultants Pvt. Ltd.)-EC

The proposal of M/s TATA Chemicals Ltd is for Aniali Limestone Mine with Production Capacity of 0.043 million TPA of limestone (ROM). The mine lease area is located near Village Aniali, Taluka – Ranavav, District - Porbandar, Gujarat. The Latitudes and Longitudes of the mine lease area are 21° 42' 22.00" N to 21° 42' 33.00" N and 69° 49' 26.00" E to 69° 49' 43.00" E respectively on topo-sheet no. 41G/14. It is a Category 'A' project as the mine lease area is located within 10 km from the boundary of Barda Wildlife Sanctuary notified under the Wild Life (Protection) Act, 1972.

The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during 16th to 18th January, 2013 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by the Ministry vide letter no. J-11015/309/2012.IA.II (M) dated 18.03.2013. The Proponent submitted the EIA/EMP report to the Ministry for seeking environmental clearance after conducting public hearing. The total mining lease area of 21.04 ha is a govt. waste land. No forest land is involved. Mining Plan along with Progressive mine closure plan has been approved by Indian Bureau of Mines vide letter No. 682(23) (713)/2009-MCCM (N) UDP dated 04.02.2012. Mining is by fully mechanized opencast method. The mining process involves drilling & blasting, loading and transportation of the excavated material.

The Committee noted that the EIA/EMP report has not addressed all baseline and other environmental parameters adequately. There are several deficiencies viz. (i) mining plan and mining scheme has not been circulated to the Committee Members and that the Committee experienced difficulty to appraise the proposal of EC without mining plan; (ii) there are Schedule-I species against which conservation plan on Biodiversity with funding provision has not been submitted; (iii) cumulative impact of other mines within 10 km radius has not been reflected; (iv) details of impact due to transportation of limestone has not been provided; (v) Proponent reported in the Questionnaire that the mine is 'New Mine', however, it is an old working mine; (vi) analysis/testing report of water, air, soil, noise etc. are not enclosed with the EIA/EMP report; (vii) detailed Action plan with budgetary allocation on issues raised during the Public Hearing has not been submitted; (viii) Geological profile, and the area falling under seismic zone have not been furnished; and (ix) details of occupational health status of the workers has not been furnished.

The Committee during its discussion identified the above deficiencies and **decided that the Project Proponent needs to revise the EIA/EMP report** accordingly. The Committee will reconsider the Proposal thereafter. The revised EIA/EMP report must mention all the details with due compliance of Manuals, Standards, Office Memoranda and Guidelines issued by the Ministry from time to time.

Day 1: 20th March, 2014 (Thursday)

Reconsideration of Environmental Clearance Proposals

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

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

The proposal was earlier considered in EAC meeting held during August 25-27, 2010 wherein it was pointed out by the Committee that being a green field project to be located in forest area for which prior forestry clearance was made a pre requisite at the stage of TOR itself and accordingly proposal was deferred. The Project Proponent obtained Stage-I Forest clearance dated 10.05.2013 for an area of 998.07ha covering mining and allied activities (excluding safety zone), conveyor and corridor and road widening/strengthening. The proposal was further considered in the EAC meeting held during 31.10.2013 to 01.11.2013 wherein the Committee deferred the proposal and sought clarification/information on therevised questionnaire, air pollution modeling, occupational health study report, land use plan and action plan on the issues, which were raised during public hearing. Based on the information submitted by the Proponent, the proposal reconsidered in the EAC meeting held during January 27-28, 2014, was deferred again on the basis of incomplete information. Once again the PP submitted the revised species specific wildlife conservation plan, water allocation, agreement for the Plant, details of occupational health, CSR activities alongwith budget provision and other details.

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

The mining plan along with the mine closure plan for an area of 999.90 ha has been approved by Indian Bureau of Mines, MCCM, Central Zone vide letter No. 314 (3)/2008 – MCCM(CZ)/MP – 30, dated 27th January 2009. Proponent reported that total mine lease

area is 999.90ha. Out of this, 988.25ha is forest land and 11.65ha is waste land. Proponent reported that 673.53ha area will be used for excavation, 100.54ha for overburden/dumps, 28.93ha for storage, 56.37ha for infrastructure development, 32.56ha for road, 20.43ha for Green belt development, 9.39ha for water treatment plant, 34.04ha for iron ore handling plant and 44.11ha is for sub-grade mineral stacking.

The total forest land involved for the project is 1018.50 ha (mining lease area 999.90 ha, Conveyor Corridor 10.60ha and Road widening/ strengthening of existing road 8 ha). The Project Proponent has obtained Stage-I Forest Clearance by the MoEF vide letter no. 8-46/2010-FC, dated 10.05.2013 and amended on 05.11.2013 for an area of 998.07ha covering mining and allied activities (excluding safety zone), conveyor and corridor and road widening/strengthening.

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

Mining for Iron ore is by fully mechanized opencast method. The mining process involves drilling & blasting, loading & transportation of excavated material, crushing and screening and transportation of iron ore. The proposed working will be by putting 115mm dia DTH holes by wagon drills machine, Tractor mounted short hole drill and blasting by slurry explosives and Booster charge with Raydet detonator. Overall pit slope will be 45⁰. The blasted material will be loaded by excavator in dumper and transported to crushing plant for sizing and screening situated within the lease area. The crushed material will be transported to Railway siding by trucks/ conveyor belt. At the end of the life of mine, the area will be rehabilitated as per the approved Mining plan and Mine closure plan. It was reported by the Project Proponent that ground water will not be intersected during the scheme period. The total water requirement for the project will be 1.95 MGD or 370 m³ per hour (3.24 MCM on annual basis). The source of the water is Koina River. The water withdrawal concurrence for 1.95 MGD or 370 m³ per hour (3.24 MCM on annual basis) has been obtained from the Water Resources Department, Government of Jharkhand vide letter No. 2/PMC/Jalapurty-698/2005-42, dated 15th January 2013. The PP has signed the agreement with State Govt.

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

Proponent has submitted an undertaking to the CWLW vide letter dated 20.08.2010 to bear the proportionate cost of implementation of the CWMP for Saranda.

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

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

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

The Committee noted in the EAC meeting during 31.10.2013 to 01.11.2013 that the EIA/EMP report has not been prepared in-line with the Annexure-III of EIA Notification, 2006. The Committee observed that Indian Council of Forestry Research and Education (ICFRE) is no longer accredited by NABET/QCI. However, ICFRE has conducted the baseline studies and prepared the EIA-EMP report during the period prior to the requirement of the accreditation by QCI came into force. Therefore, it was decided by the Committee that report is acceptable but needs to be augmented by collecting one month AAQ data (during November-December, 2013) incorporating the National Ambient Air Quality, 2009 parameters. After deliberations in the EAC meeting held during 31.10.2013 to 01.11.2013, the Committee deferred the proposal and sought the following information:

- (i) The EIA/EMP report submitted need to revised in line with the Annexure-III of the EIA Notification, 2006 and be prepared by QCI/NABET accredited consultant;
- (ii) TORs issued were for Iron ore mining and thus the Reports should be limited to iron ore mining. Further, as per the report submitted by PP it mentions that manganese ore is intermittently present along with iron ore. The PP need to ensure safety measures to be adopted while handling manganese and these be mentioned in the EIA/EMP report ;
- (iii) Questionnaire needs to be revised and shall be duly filled;
- (iv) Air Quality modeling results in the form of isopleths should be drawn on contour map;

- (v) The land use plan given in the EIA report is at variance with that projected in the mine plan and therefore needs to be reconciled;
- (vi) Details of public consultation/public hearing and action plan with budgetary provisions should be given and
- (vii) Details of Occupational health status and action plans should be furnished.

The Proponent vide letter No. JSWJH/02/01/177 dated 04.01.2014 had submitted the above mentioned information to the Ministry. The Committee deliberated on the additional information submitted by the PP in the EAC meeting held during January 27-28, 2014 and based on the presentation made and discussions held, the Committee again noted the following deficiencies and decided to defer the proposal to be brought back to the Committee after the following information is submitted: -

- (i) Revised species specific wild life conservation plan to protect the scheduled species should have information on allocation of budget, time frame and agencies to be responsible for the implementation for each of the target species. The conservation plan should be duly authenticated by Wildlife specialist;
- (ii) Water allocation agreement for the plant;
- (iii) Details of occupational health; and
- (iv) CSR budget to be increased to at least 2-3 % of the total project cost and project specific CSR plan prepared on the basis of assessment study of village needs by reputed institute may be submitted.

Project Proponent vide letter dated 31.01.2014 submitted the revised species specific wildlife conservation plan, water allocation agreement, details of occupational health and CSR budget. PP has allocated the budget equivalent to 2.6% of the project cost and allocated Rs. 43.8 Crores towards the CSR budget. Further Rs 3.43 Crores has been allocated for implementation of wildlife conservation plan as decided by the Chief Wildlife Warden, Jharkhand Government and Rs 2.76 Crores is allocated towards occupational health. The Committee deliberated these issues and sought clarification from Project during discussion on above mentioned four points.

Based on the information submitted by the Proponent and discussion held in the meeting, the Committee **recommended** the proposal for environmental clearance for Iron Ore Mining with production capacity of 10 Million TPA of Iron Ore (ROM). In addition, the Proponent shall also ensure satisfactory implementation of the following specific conditions during the time of undertaking this project and the progress reports furnished accordingly: -

- (i) Site specific conservation plan for the core & buffer zone and Integrated Wildlife Conservation Plan;
- (ii) The endangered and other local tree & shrub, flora from the mine having pole girth size may be translocated in designated locations of the mine lease area including safety zones to the extent possible and a nursery should be developed for different species of endangered and endemic category, under the guidance of forest Department and experts of flora and the plants raised in the Nursery may be planted in the impact area including villages and community lands to help enrich the biodiversity. An Action Plan on above points may be submitted within 01 years to the Regional Office/MoEF;
- (iii) Action Plan on the issues raised during the Public Hearing;
- (iv) 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;
- (v) Environment Policy of the Company w.r.t. judicious use of Mineral resources for growth & development synchronizing mining & environment with prosperity;
- (vi) Specific programmes be initiated especially covering education, health care, livelihood generation, infrastructure development & promotion of sports & culture for SC/ST population;
- (vii) Regular monitoring of ground water table to be carried out, as also the depth of water available in the network of existing wells, by constructing new piezometers as required; and
- (viii) Effective safeguard measures, such as regular water sprinkling, shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul roads, loading and unloading points and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

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

The proposal of M/s Khushal Arjun Rathore is for open cast Sosopi Iron ore mine with 0.60 million TPA of iron ore (ROM). The mine is located at village-Sosopi Hamlet, Noamundi Protected Forest, Block-40, Chaibasa South Division, Singhbhum West, Jharkhand. The

latitudes and longitudes of the site are 22°08'55.73" to 22°09'15.56" N and 85°27'50.55" to 85°28'10.65" E on Toposheet No is 73 F/. It is Category 'A' project as the mine lease area is located within 10 km interstate boundary of Jharkhand and Orissa States.

The project was earlier considered in the EAC meeting held during June 26-28, 2013 wherein the Committee deferred the proposal and sought additional information/clarifications with regard to list of Schedule I species, details of local species of Fauna to be used for green belt, Base line data, status of other operating mines in the buffer zone and details of their cumulative environmental impacts. Based on the information submitted by the Proponent vide letter dated 21.11.2013, the proposal was reconsidered in the EAC meeting held during January 27-28, 2014 wherein the Committee noted that the PP has not submitted the adequate information and the same was deferred. Now, the PP vide letter dated 15.02.2014 has submitted the revised species specific wildlife conservation plan, status of other operating mines and reports on hydrological study & ambient air quality and accordingly the proposal is placed in this meeting.

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

The Project Proponent(PP) made a presentation with regard to compliance of TOR for mining of iron ore with a capacity 0.60 million TPA. The mine lease area is 31.984 ha, which is a forest land. The Regional office of MoEF, Bhubaneswar vide letter no. 5-JHC185/2010-BHU dated 28.02.2014 has accorded the Stage I forest clearance for the diversion of 9.687ha of forest land. PP has informed that Conservator of Forests, Chaibasa has recommended the entire forest area and forwarded to the RCCF, Jamsedpur on 20.02.2014. The present Scheme of Mining was approved by IBM vide letter No. 314(3)/2012-MCCM(C)/MP-44 dated 22.05.2013. PP reported that the mine is closed since 1999.

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

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

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

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

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

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

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

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

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

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

The Committee discussed the issues in its meeting held during January 27-28, 2014 and after deliberations, the Committee sought the following additional information and deferred the proposal: -

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

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

The Project Proponent vide letter dated 15.02.2014 has submitted the point wise clarifications to Ministry and the EAC deliberated on the followings issues: (i) Revised site specific Wildlife Conservation Plan with inclusion of specific conservation measures towards Schedule-I species with the total budget of 94.70 lakhs was prepared and is vetted by the NABET Accredited Ecology & Biodiversity expert. The Committee deliberated the issues and was of the view that the site specific Wildlife Conservation Plan is now adequate; (ii) The Committee noted that prior to 1994, in the year 1990 lessee achieved the highest production i.e. 5460 Metric Tonnes and after 1994 they have not exceeded the earlier highest production so it is not a violation case; (iii) The authenticated map by DFO & DDM about status of other operating mines in the buffer zone of 10 KM radius was submitted; (iv) Hydrogeology report prepared in consultation with CGWB, Divisional Office, Ranchi, Jharkhand and vetted by the NABET Accredited Hydrogeology expert was submitted; (v) PP has submitted the ambient air quality report w.r.t. PM₁₀, PM_{2.5}, SO₂ & NO_x which were analysed by the MoEF Accredited laboratory and certified by the Govt. analyst as well as by the Jharkhand State Pollution Control Board. All the AAQ parameters are within the prescribed norms. Thus the committee observed that the Proponent meets all the requirements.

Based on the information submitted by the Proponent and discussion held in the meeting, the Committee **recommended** the proposal for environmental clearance for Iron Ore Mining with production capacity of 0.60 million TPA of Iron Ore (ROM). In addition, the Proponent shall also ensure satisfactory implementation of the following specific conditions during the time of undertaking this project and the progress reports furnished accordingly:-

- (i) Site specific conservation plan for the core & buffer zone and Integrated Wildlife Conservation Plan;
- (ii) Action Plan on the issues raised during the Public Hearing;
- (iii) 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;
- (iv) Environment Policy of the Company w.r.t. judicious use of Mineral resources for growth & development synchronizing mining & environment with prosperity;
- (v) Specific programmes be initiated especially covering education, health care, livelihood generation, infrastructure development & promotion of sports & culture for SC/ST population;

- (vi) Regular monitoring of ground water table to be carried out, as also the depth of water available in the network of existing wells, by constructing new piezometers as required; and
- (vii) Effective safeguard measures, such as regular water sprinkling, shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul roads, loading and unloading points and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

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

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

The proposal was earlier considered in the EAC meeting held during January 27-28, 2014 wherein the Committee noted that the PP has not submitted the adequate information and the same was deferred. The PP has submitted the revised species specific wildlife conservation plan, details of R&R, source of secondary data of flora & fauna and accordingly the proposal is placed in this meeting.

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

The total mining lease area is 64.62 ha. Out of this, 41.85 ha is Forest land (Jungle Jhari), 2.04ha is waste land and 20.72ha is Raiyati land. The mining lease was granted over an area of 64.62 ha in favour of M/s Rajhans Refractories Ltd. on 23.03.1985 for a period of 20 years. The Mining plan along with progressive mine closure plan has been approved by the Indian Bureau of Mines, vide letter no. RAN/GML/BX/MP-01/2012-2013, dated 21stSeptember 2012. Proponent has reported that 10.03ha area will be used for excavation, 0.095ha for overburden/dumps, 0.076ha for infrastructure development, 1.48ha for road, 1.04ha for Green belt development and 51.899ha area will the undisturbed area. The mineable reserves are 7,40,594 tonnes and Life of mine is 6 years.

Mining is by fully mechanized opencast method. The mining process involves drilling and blasting, loading and transportation of the excavated material. Bauxite drilling will be

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

There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant Reserves etc. within the study area (10 km radius of the mining lease boundary). There are three Reserved Forests & eleven Protected Forests within the study area. Three Schedules-I species namely Indian Pangolin, Sloth Bear and Indian Peafowl were reported within buffer zone. The species specific Conservation Plan has been prepared and submitted to Divisional Forest Officer, Gumla. The Committee discussed the Conservation Plan and noted the steps in the Conservation Plan to protect the scheduled species are adequate.

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

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

The Committee had observed that it is violation case as the mine has operated after it fell due for renewal and production from the mine was enhanced after EIA Notification, 1994 coming into force without obtaining requisite prior environmental clearance. The mine is reported to be closed since April 2011. The case has been filed in the Court of Chief Judicial Magistrate Gumla on 28.11.2013 vide Case No.C.II.35/2013 under section 15 of the Environment (Protection) Act, 1986 which has been committed by the offending project. The affidavit of Proponent dated 10.04.2012, stating that such violations of Environment (Protection) Act, 1986 will not be repeated in the future, has been taken on record.

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

After deliberations in the EAC meeting held during January 27-28, 2014, the Committee sought the following additional information and deferred the proposal:

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

The Project Proponent has submitted the point wise clarifications to Ministry and the EAC deliberated on the followings issues: (i) The land compensation agreement between mine owner and raiyat has been submitted to the office of District Commissioner and the agreement has been accepted by District Commissioner and after verifying the position of land DC has issued the mining lease to the lessee; (ii) An application for Forest diversion for an area of 41.85ha of Amtipani Bauxite Mine has been submitted to Divisional Forest Officer, Ranchi West Division dated 21.01.2012. The proposal is under consideration with the Forest Department; (iii) Site specific conservation plan for Schedule-I species viz; Sloth Bear, Indian Peafowl and Indian Pangolin was revised and submitted. The Committee deliberated the issues and was of the view that the site specific Wildlife Conservation Plan is now adequate; (iv) Secondary data of flora & fauna has been authenticated by DFO, Ranchi West division; (v) CSR activities and plan have been identified by the Project Proponent which will improve the socio-economic status of the people living in the study area that includes the ST population also. The proposed budget with time frame allocation for CSR plan in local area was also discussed; and (vi) The work order has been placed for the DGPS coordinates of the mine lease area. The DGPS survey is being done. Thus the Committee observed that the Proponent meets all the requirements.

Based on the information submitted by the Proponent and discussion held in the meeting, the Committee **recommended** the proposal for environmental clearance for bauxite Mining with production capacity of 1,22,535 TPA. In addition, the Proponent shall also ensure satisfactory implementation of the following specific conditions during the time of undertaking this project and the progress reports furnished accordingly: -

- (i) Site specific conservation plan for the core & buffer zone and Integrating Wild Life Conservation Plan

- (ii) Action Plan on the issues raised during the Public Hearing;
- (iii) 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;
- (iv) Environment Policy of the Company w.r.t. judicious use of Mineral resources for growth & development synchronizing mining & environment with prosperity;
- (iv) Specific programmes be initiated especially covering education, health care, livelihood generation, infrastructure development & promotion of sports & culture for SC/ST population;
- (v) Regular monitoring of ground water table to be carried out, as also the depth of water available in the network of existing wells, by constructing new piezometers as required; and
- (vi) Effective safeguard measures, such as regular water sprinkling, shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul roads, loading and unloading points and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

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

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

The proposal was earlier considered in the EAC meeting held during January 27-28, 2014 wherein the Committee noted that the PP has not submitted the adequate information and the same was deferred. The PP has submitted the revised species specific wildlife conservation plan, water quality status of nearby River, details of status of surrender of forest lands & clarification of chairmanship of Public hearing and accordingly the proposal is placed in this meeting.

The proposal was considered by the Expert Appraisal Committee in its meeting held during December 22-23, 2011 to determine the Terms of Reference (TOR) for undertaking

detailed EIA study. The TORs were issued by the Ministry vide letter no. J-11015/229/2011.IA.II (M), dated 28.03.2012. The Proponent submitted the EIA/EMP report to the Ministry for seeking environmental clearance after conducting public hearing. The Project Proponent made a presentation with regard to compliance of TORs for mining of bauxite with a capacity of 3,33,936 TPA.

The total mining lease area is 62.159 ha. Out of this, 20.808 ha is Forest land (Jungle Jhari), 5.464ha is Waste land, 35.652ha is Raiyati land and 0.235ha is road. The mining lease was granted on 20.01.1990 for a period of 20 years. The renewal of mine lease was applied on 15.01.2009. The Proponent has reported that they had applied to DMO Gumpla on 13.12.2005 for surrender of 20.808ha of Jungle Jhari land. The Mining Lease was executed in favour of Late Shri Mahendra Prasad Mithal for a period 20 years by the Govt of Bihar on 20.01.1990. However, Shri Mahendra Prasad Mithal before his death vide 'DECLARATION' dated 10.02.2009, appointed his son Shri. Awadhesh Mithal as his 'legal representative' and 'legal heir successor' for 'all purposes in respect of the mining lease'. An application along with the related documents has been submitted in the District Mining Office, Gumla and Assistant Mining Officer, Gumla vide dated 20.10.2012 has received the documents. The Mining plan along with progressive mine closure plan has been approved by the Indian Bureau of Mines, Nagpur vide letter no. 314(3)/2011- MCCM (C)/MP-19, dated 07.08.2012. Proponent has reported that 3.18ha area will be used for excavation, 0.16ha for overburden/dumps, 0.40ha for infrastructure, 0.64ha for roads and 57.779ha area will be the undisturbed area which includes 20.808ha of Jungle Jhari. The mineable reserves are 33,48,770 tonnes and Life of mine is 10 years.

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

There is no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant Reserves etc. exist within the study area (10 km radius of the mining lease boundary). There are 5 Reserved Forests and 6 Protected Forests within the study area. Three Schedules-I species namely Indian Pangolin, Sloth Bear and Indian Peafowl were reported within buffer zone. The species specific Conservation Plan has been prepared and submitted to divisional forest officer, Gumla. The Committee discussed the Conservation Plan and noted the steps in the Conservation Plan to protect the scheduled species are adequate.

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

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

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

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

After deliberations in the EAC meeting held during January 27-28, 2014, the Committee sought the following additional information and deferred the proposal:

- (i) Revised species specific wild life conservation plan to protect the scheduled species should have information on allocation of budget, time frame and agencies to be responsible for the implementation for each of the target species. The conservation plan should be duly authenticated by Wild life specialist;
- (ii) Water quality status of nearby River should be submitted;
- (iii) A report on probable use of laterite soil cap by other projects;
- (iv) Details of status of surrender of forest lands and copy of mine lease allotment letter; and
- (v) The Public hearing was held on 17.07.2013 under the Chairmanship of Mr. Jagjit Singh-Me.So. Officer, Welfare Department, Gumla. In this context, the Committee was of the view that a confirmation letter of District Magistrate needed to ensure that the Public Hearing was chaired by an ADM rank officer as per EIA Notification 2006.

The Project Proponent vide letter dated 06.02.2014 has submitted the point wise clarifications to Ministry and the Committee deliberated on the followings issues: (i) The site

specific conservation plan for Schedule-I species viz. Sloth Bear, Indian Peafowl and Indian Pangolin were revised and submitted. The Committee deliberated the issues and was of the view that the site specific Wildlife Conservation Plan is now adequate; (ii) Water quality parameters have been analyzed and the Committee noted that the parameters are well within the prescribed limit; (iii) Lateritic soil produced during mining is low grade in nature and entire lateritic soil will be backfilled; (iv) The total mining lease area is 62.159 ha. Out of this, 20.808 ha is Forest land (Jungle Jhari) which has been applied for surrender. The application for Jungle Jhari surrender has been submitted to DMO on dated 13.12.2005 as well as to DFO on dated 17.02.2006; and (v) The Public Hearing was conducted on 17th July 2013 and chaired by Mr. Jagjit Singh, Me. So. Officer of Welfare Department Gumla. The Committee discussed the issues and as per the relevant documents shown by the PP confirms that Me. So. Officer is the rank of Additional District Collector as per the EIA Notification, 2006. Thus the Committee observed that the Proponent meets all the requirements.

Based on the information submitted by the Proponent and discussion held in the meeting, the Committee **recommended** the proposal for environmental clearance for bauxite mining with production capacity of 3,33,936TPA. In addition, the Proponent shall also ensure satisfactory implementation of the following specific conditions during the time of undertaking this project and the progress reports furnished accordingly: -

- (i) Site specific conservation plan for the core & buffer zone and Integrated Wildlife Conservation Plan;
- (ii) Action Plan on the issues raised during the Public Hearing;
- (iii) 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;
- (iv) Environment Policy of the Company w.r.t. judicious use of Mineral resources for growth & development synchronizing mining & environment with prosperity;
- (vi) Specific programmes be initiated especially covering education, health care, livelihood generation, infrastructure development & promotion of sports & culture for SC/ST population;
- (vii) Regular monitoring of ground water table to be carried out, as also the depth of water available in the network of existing wells, by constructing new piezometers as required; and
- (viii) Effective safeguard measures, such as regular water sprinkling, shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM

such as haul roads, loading and unloading points and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

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

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

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

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

The Committee discussed the conservation plan in the EAC meeting held during January 27-28, 2014 and advised the Project Proponent that conservation plan be authenticated by a subject Expert and submitted after due signature for owning the report and commitment for implementation. The above information may be circulated among the members for taking an appropriate view on the proposal for EC.

The Committee deliberated the site specific Wildlife Conservation Plan in this present meeting and was of the view that the site specific Wildlife Conservation Plan is now adequate to protect the Schedule-I species. The Committee also noted that EAC had earlier recommended the proposal for environmental clearance in the meeting held during June 26-28, 2013, however deficiencies in the documents submitted by PP was observed by the Committee as PP did not prepare the site specific Wildlife Conservation Plan for protection of Schedule-I species at the time of appraisal of project with due compliance of manuals, standards, Office memorandum and guidelines issued by the Ministry from time to time. The

Committee noted that due to such deficiencies and PP/Consultant not adhering to guidelines fully, the appraisal of projects was delayed.

Based on the information submitted by the Proponent and discussion held in the meeting, the Committee **recommended** the proposal for environmental clearance for Argat Limestone mine with production capacity of 1.2 million TPA with additional specific condition to implement the site species specific conservation plan for the core & buffer zone.

Day 1: 20th March, 2014 (Thursday)

Consideration of TOR Proposals

(2.12).Morka Limestone mine with production capacity of 5.0 Lakh TPA of limestone by M/s Veer Durgada Minerals Pvt. Ltd., located near village-Morka, Tehsil-Jawad, District Neemuch, Madhya Pradesh (14.733ha)-(Consultant: Udaipur Min-Tech Pvt. Limited, Udaipur)-TORs

The proposal of M/s Veer Durgada Minerals Pvt. Ltd. is for Morka Limestone mine with production capacity of 5.0 Lakh TPA of limestone in the mine lease area of 14.733ha. The mine is located near village-Morka, Tehsil-Jawad, District-Neemuch, Madhya Pradesh.

The Committee noted that the Project Proponent has not submitted the dully filled adequate information in the Application Form i.e. even in the mandatory column mentioned as "NA". The deficiencies in the documents particularly not filling the information in the requisite documents as prescribed was taken seriously by the Committee and the Consultant was advised to prepare the documents for appraisal with due compliance of manuals, standards, Office memorandum and guidelines issued by the Ministry from time to time. The Committee noted that due to such deficiencies, the appraisal of projects is delayed.

Therefore, the Committee decided to **defer the proposal** to be brought back to the Committee on receipt of the **Revised Form-I & PFR** adequately filled with all relevant information.

(2.13).Stone mine with crusher with production capacity of 4,09,131 TPA of Stone by M/s Mandhan Minerals Corporation, located at village Rajbandh, Distt.-Pakur, State – Jharkhand (6.677ha) (Consultant: Anacon Laboratories. Pvt. Ltd.)-TORs

The proposal of M/s Mandhan Minerals Corporation is for Stone mine with crusher with production capacity of 4,09,131 TPA of Stone in the mine lease area of 6.677ha. The mine lease area is located at village Rajbandh, Distt.- Pakur, State – Jharkhand.

The Committee noted that the Committee members had not received the documents and decided to **defer the proposal and** to be brought back to the Committee on receipt of the **Revised Form-I & PFR** properly filled with all relevant information.

(2.14).River Bed Mining with production capacity of 1.14 million TPA of Bajri by M/s. Shri Rajendra Kumar Saran S/o Shri Prabhu Dayal Saran, located at village(s) Biyawas, Bhojera & others, Tehsil-Viratnagar, District – Jaipur, State – Rajasthan. (210.95ha) (Consultant: J.M. Environet Pvt. Ltd.)-TORs

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

(2.15).Renewal of Mudh mine lease with production capacity of 45,000 TPA of Ball Clay and 5,000 TPA of Red & Yellow Ochre by M/s Hanuman Prasad Singhania, located at village Mudh, Tehsil-Bikaner, District-Bikaner, Rajasthan (197.31 ha)(Apex Mintech Consultants)-TORs

The proposal of M/s Hanuman Prasad Singhania is for renewal of Mudh mine lease with production capacity of 45,000 TPA of Ball Clay and 5,000 TPA of Red & Yellow Ochre in MLA of 197.31 ha. The mine is located at village Mudh, Tehsil-Bikaner, District-Bikaner, Rajasthan. The Latitudes and Longitudes of mine lease area are 27°51'33"-27°52'32"N & 72°53'54"-72°55'04"E respectively on Toposheet number 45A/13.

Total Mine lease area is 197.31 ha which is Govt. waste land and private waste land. Method of mining is opencast manual/semi-mechanized using excavators for removing top cover/ waste rock. The lease was originally granted in favour of Shri Hanuman Prasad Singhania for a period of 20 years vide State Govt. order F-4(15)Khan/Group-4/75 dated 19.08.1976. The mining lease Agreement was executed on 17.06.1977 and registered on 18.07.1977. First renewal of mining lease is pending since 17.07.1997. After the sad demise of Shri Hanuman Prasad Singhania on 7.07.1980 and further sad demise of Smt. Dropti Devi Singhania w/o Shri Hanuman Prasad Singhania on 21.12.95, the mutation was allowed by the State Govt. in favour of partnership firm in the name of M/s Hanuman Prasad Singhania vide order no. Adm/Jod./CC/Bika/ML/6/96/106, dated 12.01.2009 issued by Additional Director (Mines), Dept. of Mines and Geology, Jodhpur.

The Committee noted that it is a **violation case** as the mining operation was continued from 1977 to 2005 without requisite environmental clearance under 1994 Notification. Project Proponent received a letter no. F.5(BK-166)RPCB Gr.II./514 dated 02.05.2005 from Rajasthan State Pollution Control Board, Jaipur, conveying the revocation of 'Consent to Operate (CTO)' and mentioned that Lessee cannot operate mine without obtaining Environment Clearance. In compliance with the directives of Rajasthan State Pollution Control Board, Jaipur, the Project Proponent stopped the mining operations since July 2005. The Department of Mines and Geology, State Govt. vide certificate no. 274 dated 01.03.2009 mentioned that the mining activity was stopped since 17.07.2005.

Based on the information furnished and presentation made by the Project Proponent and discussions held the Committee on 20March, 2014 **prescribed** the TORs for undertaking detailed EIA study as per **Annexure-I** subject to MoEF taking actions on violations as per OM dated 12.12.2012 and 27.06.2013. Further along with EC proposal, the Project Proponent shall enclose all the analysis/testing report of water, air, soil, noise etc.

using the MoEF/NABL accredited laboratories. All the original test reports should be available during appraisal of the project.

(2.16).Renewal of mine lease of Ball Clay, China Clay, Red & Yellow Ochre mining with enhancement of production capacity from 2,415 TPA to 0.125 million TPA by M/s Raw Products Plasters & Fertilizers (Mines), located at village Indo Ka Bala & Chani, Tehsil-Kolayat, District-Bikaner, Rajasthan (123.80ha) (Consultant: J.M. Environet Pvt. Ltd.)-TORs

The proposal of M/s Raw Products Plasters & Fertilizers (Mines) is for renewal of mine lease of Ball Clay, China Clay, Red & Yellow Ochre mining with enhancement of production capacity from 2,415 TPA to 0.125 million TPA in the MLA of 123.80ha. Mine is located at Villages: Indo Ka Bala & Chani, Tehsil: Kolayat, District: Bikaner, Rajasthan. The site falls between geographical extends Latitude 27°53' 02.31" N to 27° 53' 57.06" N to Longitude 72° 58' 53.47" E to 72° 59' 59.60"E and study area falls within the Survey of India Toposheet No. 45 A/13.

The mine lease area is 123.80 ha (i.e. Govt. Land & private land). Mining lease has been granted in the name of M/s Raw Products Plasters & Fertilizers (Mines) on 01.06.1974, Mining will be carried out by Opencast and Semi Mechanized Mining Method. No drilling and blasting will be carried out. The quantity of OB waste generated will be completely backfilled in the excavated pits and reclaimed by plantation. There will be no OB dumps remaining at the end of life of the mine. Total water requirement for the mine will be 10 KLD, which will be sourced from nearby village Chani.

It was reported by PP that there are no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves existing/proposed within 10 km of the mine lease. There is no court case/litigation pending against the mining project. Total cost of the Project is Rs. 50 Lacs. Capital Cost for environmental protection measures is Rs. 1.5 Lacs/- & Recurring cost is Rs. 1 Lakh per annum.

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 along with EC proposal, the Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF/NABL accredited laboratories. All the original test reports should be available during appraisal of the Project.

(2.17).Mining of Minor Mineral in the Mines of "Panipat Unit-2" with production capacity of 10 million TPA of Sand Mine (ROM) 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.)-TORs.

The proposal of Shri Sanjay Jaglan S/o Shri Raj Singh Aryais for mining of minor mineral in the mines of "Panipat Unit-2" with production capacity of 10 million TPA (4 million TPA on the river bed & 6 million TPA outside river bed) of Sand Mine (ROM) in mine

lease are of 1775.02ha. The mine lease area is located at Tehsil- Panipat, District- Panipat, Haryana. The lease area lies in the River Bed. The Latitudes and Longitudes of mine lease area(Block PNP-3) are 29°13'29.48"-29°21'30.60"N" & 77° 8'16.06"-77° 7'31.62"E" and (Block PNP-4)29°15'21.11"-29°17'10.97"N" to 77° 3'15.12"-77° 3'41.43"E" respectively on toposheet number 53G03(site), 53G04, 53C15. 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 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. The Letter of intent has been issued to Shri Sanjay Jaglan S/o Shri Raj Singh Aryaby Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DMG/Hy/PNP Unit- 2/2013/125, dated 03.01.2014. Letter of intent for mine lease area is 10 years.

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 23 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 4.5 Crores.

PP has reported that the mine lease area does not fall under critically polluted area of Panipat. The Committee deliberated the issues and was of the view that PP needs to submit the confirmation letter from CPCB/SPCB that the mine lease area does not fall under critically polluted area of Panipat as per MoEF OM dated 17.09.2013.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs for undertaking detailed EIA study as per **Annexure-I subject to submission** of confirmation letter from CPCB/SPCB that the mine lease area does not fall under critically polluted area of Panipat as per MoEF OM dated 17.09.2013. 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) 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;
- (xv) 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
- (xvi) 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.

(2.18).Mining of Minor Mineral in the Mines of "Palwal Unit-1" with production capacity of 6.7731 million TPA of Sand Mine (ROM) by M/s SRS Natural Resources Ltd., located at Tehsil- Palwal, District- Palwal, Haryana (314.36 ha)-(Consultant: Udaipur Min-Tech Pvt. Ltd.)-TORs.

The proposal of M/s SRS Natural Resources Ltd is for mining of minor mineral in the Mines of "Palwal Unit-1" with production capacity of 6.7731 million TPA of Sand Mine (ROM) in mine lease are of 314.36ha. The mine lease area is located at Tehsil- Palwal, District- Palwal, Haryana. The lease area lies in the bed of River. The Latitudes and Longitudes of mine lease area(Block PWL-1) are 28°12'33.76"-28°7'32.18"N &77°27'53.24"-77°30'2.5"E respectively on 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 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. 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. Letter of intent for mine lease area is 9 years.

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 24 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 4 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch;
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) 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;
- (xv) 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

- (xvi) 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 Lol letter issued by the Mines & Geology Department of State Govt. of Haryana.

(2.19).Mining of Minor Mineral Mines of “Palwal Unit-2” with production capacity of 4.7 million TPA of Sand Mine (ROM) by M/s SRS Natural Resources Ltd., located at Tehsil- Palwal, District- Palwal, Haryana (221.47 ha)- (Consultant: Udaipur Min-Tech Pvt. Ltd.)-TORs.

The proposal of M/s SRS Natural Resources Ltd.is for mining of minor mineral mines of “Palwal Unit-2” with production capacity of 4.7 million TPA of Sand Mine (ROM) in mine lease area of 221.47 ha. The mine lease area is located at Tehsil- Palwal, District- Palwal, Haryana. The lease area lies in the bed of the River. The Latitudes and Longitudes of mine lease area(Block PWL-2) are 28°7'30"-28°5'45"N & 77°29'30"-77°29'00"E and (Block PWL-3) 28°0'30"-27°59'30"N to 77°30'30"-77°31'50"E respectively on toposheet number 53H07, 53H08, 53H11, 53H12 (Site).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 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. 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- 2/2013/141 dated 03.01.2014. Letter of intent for mine lease area is 8 years.

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 23 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 3.5 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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;
- (xvi) 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; and
- (xvii) 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.

(2.20).Mining of Minor Mineral in the Mines of “Ambala Unit-2” with production capacity of 23.3 million TPA of Boulder, Gravel & Sand Mine (ROM) by M/s Astin Excavation Mining Pvt Ltd., located at Tehsil- Ambala, District-Ambala, Haryana (595.19 ha)-(Consultant: Udaipur Min-Tech Pvt. Ltd.)-TORS

The proposal of M/s Astin Excavation Mining Pvt. Ltd. is for mining of Minor Mineral in the Mines of “Ambala Unit-2” with production capacity of 23.3 million TPA of Boulder, Gravel & Sand Mine (ROM) in mine lease are of 595.19 ha. The mine lease area is located at Tehsil-Ambala, District-Ambala, Haryana. The lease area lies in the River bed. The Latitudes and Longitudes of mine lease area are 30°22'43.85"-30°12'18.55"N and 77°2'22.26"-76°56'20.07"E respectively on toposheet number 53F03 & 53B16 (site), 53F04, 53B15. The Project is located in seismic zone-IV. The mine site is located in the interstate boundary of Haryana, Punjab & Himachal Pradesh within 10 Km radius of the lease area.

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. The Letter of intent has been issued to M/s Astin Excavation Mining Pvt. Ltd by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/Amb/Cont/Unit-2/2013/97 dated 03.01.2014. Letter of intent for mine lease area is 10 years.

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 23 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 7 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;

- (xiv) Disaster management Plan;
- (xv) 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;
- (xvi) 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 Lol letter issued by the Mines & Geology Department of State Govt. of Haryana; and
- (xvii) 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.

(2.21).Mining of Minor Mineral in the Mines of "Faridabad Unit-1" with production capacity of 5.0 million TPA of Sand Mine (ROM) by M/s Dkrrish Builders Pvt. Ltd., located at Tehsil- Faridabad, District- Faridabad, Haryana (273.50ha)-(Consultant: Udaipur Min-Tech Pvt. Ltd.)-TORs.

The proposal of M/s Dkrrish Builders Pvt. Ltd is for mining of minor mineral in the mines of "Faridabad Unit-1" with production capacity of 5.0 million TPA of Sand Mine (ROM) in mine lease area of 273.50 ha. The mine lease area is located at Tehsil- Faridabad, District- Faridabad, Haryana. The lease area lies in the bed of River. The Latitudes and Longitudes of mine lease area(Block Fbd-1) are 28°30'46.01"N to 28°29'55.48"N & 77°20'50.58"E to 77°21'11.31"E & (Block Fbd-2) 28°28'26.43"N to 28°28'9.09"N to 77°22'22.79"E to 28°28'9.09"N and (Block Fbd-3) 28°27'8.60"N to 28°25'49.56"N to 77°25'20.52"E to 77°26'21.50"E respectively on toposheet number 53H06, 53H07(Site), 53H10, 53H11.53H02,53H03 .The Project is located in seismic zone-IV. The mine site is located in the interstate boundary of Haryana & UP interstate boundary interstate boundary within 10 Km radius of the lease area.

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. The Letter of intent has been issued to M/s Dkrrish Builders Pvt. Ltd. by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DMG/Hy/Faridabad Unit- 1/2013/135 dated 03.01.2014. Letter of intent for mine lease area is 8 years.

Proponent reported that ecologically sensitive area such as Asola Wildlife Sanctuary falls within the study area (10 km radius of the mine boundary). The total water requirement is 23 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 4 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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;
- (xvi) 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;
- (xvii) Necessary clearance from the Standing Committee of the National Board for Wildlife should be obtained; and
- (xviii) 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.

(2.22).Mining of Minor Mineral in the Mines of “Panchkula Unit-4” with production capacity of 7.1916 million TPA of Boulder, Gravel & Sand Mine (ROM) by M/s Yamuna Infra Developer Pvt. Ltd , located at Tehsil- Panchkula, District- Panchkula, Haryana (182.91ha)-(Consultant: Udaipur Min-Tech Pvt. Ltd.)-TORs.

The proposal of M/s Yamuna Infra Developer Pvt. Ltd is for mining of minor mineral in the mines of “Panchkula Unit-4” with production capacity of 7.1916 million TPA of Boulder, Gravel & Sand Mine (ROM) in mine lease area of 182.91ha. The mine lease area is located at Tehsil- Panchkula, District- Panchkula, Haryana. The lease area lies in the bed of River. The Latitudes and Longitudes of mine lease area(Block PKL-7) are 30° 37'0.19" to 30° 35'0.03"N& 77° 0'39.65" to 77° 0'10.12"E and (Block PKL-8)30° 34' 25.20" to 33°33'7.17"N to 77° 6'22.15" to 77°6'50.09"E respectively on toposheet number 53F01(Site), 53F02, 53F03, 53B9, 53B10, 53B14, 53B15 .The Project is located in seismic zone-IV. The mine site is located in the interstate boundary of Haryana, Punjab & Himachal Pradesh within 10 Km radius of the lease area.

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. The Letter of intent has been issued to M/s Yamuna Infra Developer Pvt. Ltd by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/PKL/Cont/Unit-4/2013/93 dated 03.01.2014. Letter of intent for mine lease area is 8 years.

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 17 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 3.5 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 runoff, 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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; and
- (xvi) 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 Lol letter issued by the Mines & Geology Department of State Govt. of Haryana; and
- (xvii) 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.

(2.23). Mining of stone along with associated minor minerals in the Mines of "Kalali and Kalyana" with production capacity of 60 Lakhs TPA of stone along with associated minor minerals by M/s. Associated Soapstone Distributing Co. Pvt. Ltd, located at villages- Kalali and Kalyana, District- Bhiwani, Haryana (64.40ha)-(Consultant: Grass Roots Research and Creation India (P) Ltd.)-TORs

The proposal of M/s. Associated Soapstone Distributing Co. Pvt. Ltd, for Mining of Minor Mineral in the Mines of "Kalali and Kalyana" with production capacity of 60 Lakhs TPA of stone along with associated minor minerals in mine lease area of 64.40ha. The mine lease area is located at villages- Kalali and Kalyana, District- Bhiwani, Haryana. The lease area lies on a hill. The Latitudes and Longitudes of mine lease area are 28°33'2.83" N to 28°31'46.31" N and 76°11'15.84" E to 76°10'38.23" E respectively. The Project is located in Seismic zone-III.

The proposed project is a hill mining project, confined to excavation of stone along with associated minor minerals from the proposed site. The operation will be mechanized. Excavation is proposed to be carried out up to a maximum depth of 40 m from the surface

of the hill. The Letter of intent has been issued to M/s. Associated Soapstone Distributing Co. Pvt. Ltd by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vides Memo No. DMG/HY/ML/Kalali & Kalyana /2013/149 dated 03/01/2014. Life of mine is 18 years.

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). However, one Forest range (Akhtiyarpur Forest range) exists within the study area. The total water requirement is 4.14 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. 1.04 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 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) Details of excavation schedule & sequential mining plan to be indicated;
- (iii) The base line data shall be collected so as to represent the whole mine lease area;
- (iv) Letter from the State Govt. of Forests Department that the mine lease area does not falls under forests land category;
- (v) Details of continuous monitoring stations to be carried out in each block in the core area;
- (vi) Disaster management Plan;
- (vii) 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;
- (viii) 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; and
- (ix) Impact of all existing mining on the present land use in the study area.

(2.24).Mining of Minor Mineral in the Mines of “Yamuna Nagar Unit-6” with production capacity of 118.4Lakhs TPA of Sand by M/s Lotus Infrastructure, located at villages - Ballewala, Devdhar, Begampur, Bhood Majra (Block/YNR 16), Ismailpur, Nandgarh (Block/YNR 17), Telipur & Haldari Gujjar (Block/YNR 18) District- Yamuna Nagar, Haryana (1141.68 ha)- (Consultant: Grass Roots Research & Creation India (P) Ltd.)-TORs

The proposal of M/s Lotus Infrastructure is for Mining of Minor Mineral in the Mines of “Yamuna Nagar Unit-6” with production capacity of 118.4 Lakhs TPA of Sand in mine lease area of 1141.68 ha. The mine lease area is located at villages - Ballewala, Devdhar, Begampur, Bhood Majra (Block/YNR 16), Ismailpur, Nandgarh (Block/YNR 17), Telipur & Haldari Gujjar (Block/YNR 18) District-Yamuna Nagar, Haryana. The lease area lies on the Paleochannel of River Yamuna. The Latitudes and Longitudes of mine lease area for the three blocks are as follows: Block/YNR-16 (Balewala) : Latitude:30°15'50.85"N to 30°13'27.03"N and Longitude:77°28'51.10"E to 77°26'32.93"E, Block/YNR- 17 (Ismailpur): Latitude:30°13'29.29"N to 30°12'23.54"N and Longitude:77°26'3.39"E to 77°25'5.29"E, Block/YNR-18(Telipur): Latitude:30°12'0.21"N to 30°10'2.23"N and Longitude: 77°25'40.21"E to 77°26'21.59"E on toposheet numbers 53F/7 & 53F/8. The Project is located in seismic zone-IV. Interstate boundary between Uttar Pradesh and Haryana lies within 10km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of Sand from the proposed site. The operation will be semi-mechanized with use of excavator, Trucks etc. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to M/s Lotus Infrastructure by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DMG/HY/YNR/Cont/Unit-6/2013/113 dated 03/01/2014. The period of contract of mine is 10 years.

Proponent reported that ecologically sensitive area i.e. Kalesar Wildlife Sanctuary lies within the study area (10km radius of the mine boundary). Hence NBWL clearance is required for the same. Also, two Reserved Forest and one Protected Forests exist within the study area. The total water requirement is 14.04 KLD including water demand for domestic purpose & dust suppression which shall be met by tanker supply. The total cost of project would be around Rs. 4, 33, 00, 000.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 runoff, 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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;
- (xvi) 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 Lol letter issued by the Mines & Geology Department of State Govt. of Haryana;
- (xvii) Necessary clearance from the Standing Committee of the National Board for Wildlife should be obtained; and
- (xviii) Excavation to be carried out up to a maximum depth of 3 m in the river bed and duly incorporated in mine plan.

(2.25).Mining of Minor Mineral in the Mines of “Yamuna Nagar Unit-1” with production capacity of 10.154 Lakhs TPA of Sand, Gravel and Boulder (RBM) by M/s AVJ Infrastructure Pvt. Ltd., located at village-Tajewala, District-Yamuna Nagar, Haryana (48.97 ha.) – (Consultant: Grass Roots Research and Creation India (P) Ltd.)-TORs

The proposal of M/s AVJ Infrastructure Pvt. Ltd., is for mining of minor mineral in the Mines of “Yamuna Nagar Unit-1” with production capacity of 10.154 Lakhs TPA of Sand, Gravel and Boulder (RBM) in mine lease area of 48.97 ha. The mine lease area is located at village- Tajewala, District-Yamuna Nagar, Haryana. The lease area lies in the bed of River

Yamuna. The Latitudes and Longitudes of mine lease area are 30°17'32.32"N to 30°16'58.50"N and 77°33'8.40"E to 77°32'49.93"E respectively on toposheet number 53F/11. The Project is located in seismic zone-IV. It is Category 'A' Project as the mine lease area is located within 10 km radius of Kalesar Wildlife Sanctuary and interstate boundary of UP & Haryana.

The proposed project is an open-cast mining project, confined to excavation of sand, gravel and Boulder from the proposed site. The operation will be semi-mechanized with use of excavator, Tippers/ Trucks etc. Excavation is proposed to be carried out up to a maximum depth of 3 m in the river bed. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to M/s AVJ Infrastructure Pvt. Ltd. by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. GLG/HY/Cont/Unit -1/2013/103 dated 03/01/2014. The period of contract of mine is 10 years.

Proponent reported that ecologically sensitive area i.e. Kalesar Wildlife Sanctuary lie within the study area (10km radius of the mine boundary). Hence NBWL clearance is required for the same. Also, two Reserved Forest exists within the study area. The total water requirement is 3.29 KLD including water demand for domestic purpose & dust suppression which shall be met by tanker supply. The total cost of project would be around Rs. 51 lakhs.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;

- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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;
- (xvi) 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 Lol letter issued by the Mines & Geology Department of State Govt. of Haryana; and
- (xvii) Necessary clearance from the Standing Committee of the National Board for Wildlife should be obtained.

(2.26).Mining of Minor Mineral in the Mines of “Karnal Unit-1” with production capacity of 12.75 million TPA of Sand by Shri Vipin Gupta S/o Shri G. K. Gupta, located at village-Chandrown, Gharpur Tapu, Kalsora, Nabiyabad, Jupti Chapra (Block/Knl-1), Nagal, Kamalpur, Dabkoli Khurd (Block/Knl-2), Garhi-Birbal (Block/Knl-7), District-Karnal, Haryana (941.00ha)-(Consultant: Grass Roots Research & Creation India (P) Ltd.)-TORs

The proposal of Shri Vipin Gupta, S/o Shri G. K. Gupta is for mining of minor mineral in the mines of “Karnal Unit-1” with production capacity of 12.75 million TPA of Sand in mine lease are of 941.0ha. The mine lease area is located at villages - Chandrown, Gharpur Tapu, Kalsora, Nabiyabad, Jupti Chapra (Block/Knl-1), Nagal, Kamalpur, Dabkolikhurd (Block/Knl-2), Garhi-Birbal (Block/Knl-7), District-Karnal, Haryana. The lease area lies on River Yamuna & its palaeochannel. The Latitudes and Longitudes of mine lease area are given block wise as follows: Block/Knl-1: Latitude:29°54'33.01"N to 29°49'13.21"N Longitude:77°13'12.55"E to 77°10'19.70"E, Block/Knl-2: Latitude:29°47'6.52"N to 29°48'11.12"N Longitude:77°6'46.58"E to 77°8'9.18"E, Block/Knl-7: Latitude:29°54'26.33"N to 29°53'23.21"N Longitude:77° 9'39.87"E to 77° 9'16.01"E on toposheet number 53G/1,2,5 & 6. The Project is located in seismic zone-III. The mine site is located in the interstate boundary of Haryana and Uttar Pradesh within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand from the proposed site. The operation will be semi-mechanized with use of excavator, Trucks etc. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to Shri Vipin Gupta by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DMG/Hy/Karnal Unit-1/2013/115 dated 03.01.2014. The period of contract of mine is 08 years.

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). However, one Reserved Forest exists within the study area. The total water requirement is 14 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. 1, 94, 40, 000.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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;
- (xvi) 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; and

- (xvii) 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.

(2.27).Mining of Sand, Bajri and Boulders with production capacity of 6.85 Lakhs TPA in River Suswa Lot No. 12/2 of M/s Garhwal Mandal Vikas Nigam Ltd., located at Village-Satiwala, Kudkawala, Teiliwala&Kheri,Tehsil-Doiwala,Distt-Dehradun, Uttarakhand (55.51ha)-(Grass Roots Research & Creation India (P) Ltd. Noida)-TORs

The proposal of M/s. Garhwal Mandal Vikas Nigam is for mining of minor mineral in the mines of "River Suswa Lot No. 12/2 Sand, Bajri & Boulder Mining Project" with production capacity of 6.85 Lakhs TPA of Sand, Bajri & Boulder in mine lease area of 55.51 ha. The mine lease area is located at village(s)-Satiwala, Kudkawala, Teiliwala & Kheri, Tehsil-Doiwala, District-Dehradun, Uttarakhand. The lease area lies in the bed of River Suswa. The Latitudes and Longitudes of mine lease area are 30°9'52.92"N to 30° 8'56.97"N and 78° 5'22.62"E to 78° 6'15.42"E respectively on toposheet number 53 J04. The Project is located in seismic zone-IV.

The Committee noted that earlier the proposal was appraised in the 8th Meeting of EAC held during June 26-28, 2013 wherein the mine lease area was 141.5ha and the Rajaji National Park lies adjacent to the mine lease area. Project Proponent has now reduced the mine lease area from 141.5ha to 55.51ha and present mine lease area is 1.5 km of the Rajaji National Park.

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 1.5 meter. Extraction of sand, bajri and boulder material will be done only during the day time and completely stopped during the monsoon season. The lease area has been decided as per the Letter of Intent (Letter No. 40/Bhu. Khani.E./2012-13 dated 18-4-2013. Life of mine is 5 years.

Proponent reported that Doon Valley which is an eco-sensitive area and Rajaji National Park falls within the study area (10 km radius of the mine boundary). Also nine Reserved Forests exist within the study area. The total water requirement is 5.8 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. 27.45 Lakhs.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per **Annexure-I** subject to **submission of certificate** that mining will be done by the GMVKN Limited. Further, the Project Proponent along with EC proposal should also furnish the followings: -

- (i) Details of replenishment studies from the reputed Institution;
- (ii) Details of Transportation of mined out materials as per the Indian Road Congress for both the ways (loaded as well as unloaded trucks) load and its impact on Environment;
- (iii) Proper species specific Conservation plan for Schedule–I and II species;
- (iv) Impact of mining on plankton;
- (v) Details of Gradient of river bed to be provided;
- (vi) Details of excavation schedule & sequential mining plan to be indicated;
- (vii) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (viii) 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; and
- (ix) Necessary clearance from the Standing Committee of the National Board for Wildlife should be obtained.

(2.28).Expansion of Bambora Red Ochre Mine from 1 Lakh TPA to 11.63164 Lakh TPA of Red Ochre by Mr. Mohd. Saeed Khan, located at Village: Bambora, Tehsil: Chhoti Sadri, District: Pratapgarh, State-Rajasthan (24.75ha) (Consultant: Grass Roots Research and Creation India (P) Ltd.)-TORs

The proposal is for expansion of Bambora Red Ochre mine from 1 Lakh TPA to 11.63164 Lakh TPA of Red Ochre. The mine is located at village: Bambora, Tehsil: Chhoti Sadri, District: Pratapgarh, State-Rajasthan in 24.75ha of mine lease area. The latitude of mine lease are 24°24'38" N to 24°25'05" N and the longitude are 74°44'30" E to 74° 44' 45" E. The area can be located in Survey of India Toposheet No. 45 L/11. The Project is located in seismic zone-IV as per IS 1893-2002.

The Mining lease was transferred in favour of Mr. Mohd. Saeed Khan S/o Mr. Hamidullah Khan R/o Rani Khera Gate, Nimbahera, District- Chittorgarh (present lessee) vide State Govt. Order No. P2 (12) khan group – II/88 dated 13/09/1989. The transfer deed was executed on 12/12/1989 and registered on 06/01/1990. The Mining lease, over 24.75ha was renewed on 19/10/2002 up to 18/10/2022 by Director, Dept. of Mines & Geology, Udaipur vide order no. DGM/Nimba/CC-2/P-1/(1)6/2001/ML/407 dated 25/02/2008. Environmental clearance was granted by the MoEF vide letter no. J-11015/194/2006-IA.II (M), dated 29.05.2007. Mining Plan is approved for the period of 5 year (23/05/2011-22/05/2016) vide letter no. SME/UD-Cir./Mine Plan/Pratap/P-17/12/2000, dated 22/07/2013.

The mining will be opencast semi-mechanized without drilling and blasting. The anticipated life of the mine is 3 years based on present level of exploration. During the plan period 1,78,113 tonnes of waste will be generated.

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). PP reported that there is no court case/litigation pending against the project.

The water requirement is estimated to be 6.1 KLD, which shall be met by tanker supply for drinking and shall be used from rain water collected in mine sumps in the mining lease area for other purposes. The total cost of project would be around Rs 22 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**. Further, the Project Proponent along with EC proposal should also furnish the followings: -

- (i) Earlier EC compliance report by the Regional Office of MoEF;
- (ii) Status of commitments made in the earlier Public Hearing; and
- (iii) 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.

(2.29).Mining of Minor Mineral in the Mines of “Ambala Unit-3” with production capacity of 10 million TPA of Boulder, Gravel & Sand (ROM) by M/s. Planet Steel Pvt. Ltd., located at village(s)-Ganni Khera, Gazipur, Rayawali, Fategarh, Sandapur, Jatwara, Samru, Kheri Jatan, Bodyu (Block/Amb-7), Ramgarh Sharifpur, Babyal, Chandpura, Sarsehri (Block/Amb-8), Khojkipur, Naggal, Kardhan, Ghasitpur, Brahman Majra, Samlehri, Khudda Kalan, Kharu Khera, Manglai, Shahpur, Kot Kachhua Chota and Kot Kachawa Khurd (Block/Amb-9), Lalyana, Barsan, Baroli, Adho Majra, Segti, Bisangarh, Segta, Gorsian, Niharsa, Niharsi (Block/Amb-10), Dadyana, Devinagar, Ghel (Block/Amb-11), District-Ambala, Haryana (558.33 ha)-(Consultant: Grass Roots Research & Creation India (P) Ltd.)-TORs

The proposal of M/s. Planet Steel Pvt. Ltd. is for mining of minor mineral in the mines of “Ambala Unit-3” with production capacity of 10 million TPA of Boulder, Gravel & Sand (RBM) in mine lease area of 558.33 ha. The mine lease area is located at villages- Ganni Khera, Gazipur, Rayawali, Fategarh, Sandapur, Jatwara, Samru, Kheri Jatan, Bodyu (Block/Amb-7), Ramgarh Sharifpur, Babyal, Chandpura, Sarsehri (Block/Amb-8), Khojkipur, Naggal, Kardhan, Ghasitpur, Brahman Majra, Samlehri, Khudda Kalan, Kharu Khera, Manglai, Shahpur, Kot Kachhua Chota and Kot Kachawa Khurd (Block/Amb-9), Lalyana, Barsan, Baroli, Adho Majra, Segti, Bisangarh, Segta, Gorsian, Niharsa, Niharsi (Block/Amb-10), Dadyana, Devinagar, Ghel (Block/Amb-11), District- Ambala, Haryana. The lease area lies in the bed of River Dangri, River Ghaggar & partly on Choa Nala and Amali Nala. The Latitudes and Longitudes of mine lease area are given block wise as follows: Latitude: 30°29'48.52"N to 30°25'37.06"N, Longitude: 76°56'9.24"E to 76°55'0.53"E (Block/Amb7), Latitude: 30°22'6.06"N to 30°20'16.12"N, Longitude: 76°53'27.93"E to 76°52'15.45"E (Block/Amb 8), Latitude: 30°20'17.03"N to 30°16'45.47"N, Longitude: 76°52'13.63"E to 76°49'24.22"E (Block/Amb 9), Latitude: 30°14'5.73"N to 30°12'29.90"N, Longitude: 76°46'24.00"E to 76°38'27.35"E (Block/Amb 10), Latitude: 30°25'19.23"N to 30°23'35.72"N, Longitude: 76°44'18.38"E to 76°43'21.77"E (Block/Amb 7) on toposheet number 53B15, 53B16, H43K11, H43K12. The

Project is located in seismic zone-IV. Interstate boundary of Haryana and Punjab is located within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of Boulder, Gravel & Sand from the proposed site. The operation will be semi-mechanized with use of excavators, Trucks etc. Excavation is proposed to be carried out up to a maximum depth of 3 m in the river bed. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of Intent has been issued to M/s Planet Steel Pvt. Ltd. by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/Amb/Cont/Unit-3/2013/99 dated 03.01.2014. The period of contract of mine is 8 years.

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). However, one Protected Forest exists within the study area. The total water requirement is 24.03 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. 3.48 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 studies 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;

- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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; and
- (xvi) 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 Lol letter issued by the Mines & Geology Department of State Govt. of Haryana.

(2.30). Mining of Minor Mineral in the Mines of “Karnal Unit-3” with production capacity of 94.6 Lakhs TPA of Sand by Shri Rajvir Chauhan, S/o Shri Ranjit Singh, located at village(s)- Dabar ki par, Mustafabad, Dhakwala (Block/Knl-4), Manglaura Qadin(Block/Knl-5) Chandipur(Block/Knl-10), NaglaMega, Andehra(Block/Knl-11) District-Karnal, Haryana (780.32ha)- (Consultant: Grass Roots Research & Creation India (P) Ltd.)-TORs

The proposal of Shri Rajvir Chauhan, S/o Shri Ranjit Singh is for Mining of Minor Mineral in the Mines of “Karnal Unit-3” with production capacity of 94.6 Lakhs TPA of Sand in mine lease are of 780.32 ha. The mine lease area is located at village(s)- Dabar ki par, Mustafabad, Dhakwala(Block/Knl-4), ManglauraQadin(Block/Knl-5), Chandipur(Block/Knl-10), NaglaMega, Andehra (Block/Knl-11), District-Karnal, Haryana. The lease area lies in the bed of River Yamuna & outside the river bed too. The Latitudes and Longitudes of mine lease area are (Block/Knl-4) Latitude: 29°39'37.21"N to 29°36'47.05"N Longitude: 77°07'49.91"E to 77°06'52.68"E, (Block/Knl-5) Latitude: 29°36'49.52"N to 29°36'2.49"N Longitude: 77°5'47.36"E to 77°5'43.25"E, (Block/Knl-10) Latitude: 29°40'3.30"N to 29°39'2.57"N Longitude: 77°5'17.74"E to 77°4'49.28"E (Block/Knl-11) Latitude: 29°37'45.04"N to 29°36'26.18"N Longitude: 77°4'4.78"E to 77°4'59.35"E respectively on toposheet numbers 53G/1, 53G/6, 53G/5, 53G/6, 53C/13 & 53C/14. The Project is located in seismic zone-III. Interstate boundary of Haryana and Uttar Pradesh lies within the 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand from the proposed site. The operation will be semi-mechanized with use of excavator and Trucks etc. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to Shri Rajvir Chauhan by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/Karnal Unit-3/2013/119 dated 03.01.2014. Life of mine is 10 years.

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). However, three Reserved Forest exist within the study area. The total water requirement is 22 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. 4.04 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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;
- (xvi) 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; and

(xvii) 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.

(2.31).Mining of Minor Mineral in the Mines of “Karnal Unit-2” with production capacity of 80 Lakhs TPA of Sand by Sh. Devender Nagpal, S/o Shri Ramdass, located at villages-Shergarh Tapu, Mohiddinpur, Jharauli, Nabipur, Khirajpur, Mohammadpur & Khuda Kalan (Block/Knl-3), Ghir (Block/Knl-8) & Nalvipur (Block/Knl-9), District-Karnal, Haryana (974.10ha)-(Consultant: Grass Roots Research & Creation India (P) Ltd.)-TORs

The proposal of Shri Devender Nagpal, S/o Shri Ramdass is for mining of minor mineral in the mines of “Karnal Unit-2” with production capacity of 80 lakhs TPA of Sand in mine lease area of 974.10 ha. The mine lease area is located at villages-Shergarh Tapu, Mohiddinpur, Jharauli, Nabipur, Khirajpur, Mohammadpur & Khuda Kalan (Block/Knl-3), Ghir (Block/Knl-8) & Nalvipur (Block/Knl-9), District-Karnal, Haryana. The lease area lies in the bed of River Yamuna & its palaeo-channels. The Latitudes and Longitudes of mine lease area are given block wise as follows :Block/Knl-3: Latitude:29°45'57.12"N to 29°43'29.65"N Longitude:77°07'49.29"E to 77°07'52.03"E, Block/Knl-8: Latitude:29°48'18.46"N to 29°47'36.22"N Longitude:77°06'14.09"E to 77°06'57.11"E and Block/Knl-9: Latitude: 29°41'20.13"N to 29°40'26.08"N Longitude:77°06'03.94"E to 77°06'42.62"E on toposheet number 53G/1, 53G/2, 53G/5 & 53G/6. The Project is located in seismic zone-III. Interstate boundary of Haryana and Uttar Pradesh lies within the 10 km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand from the proposed site. The operation will be semi-mechanized with use of excavator and trucks etc. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to Sh. Devender Nagpal by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/Karnal/Unit-2/2013/117 dated 03.01.2014. The period of contract of mine is 10 years.

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). However, one Reserved Forest and one Protected Forest exist within the study area. The total water requirement is 10 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. 3.33 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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;
- (xvi) 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; and
- (xvii) 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.

(2.32).Mining of Minor Mineral in the Mines of “Yamuna Nagar Unit-4” with production capacity of 91.67 Lakha TPA of Boulder, Gravel & Sand by M/s B.D. Mines, located at villages – Gumthala, Nagli, Nagli Rangla, Sandhala, MT khera, Jathala, Puwari, Dakwala, Nakom & Majri (Block-12), District-Yamuna Nagar, and Haryana (378.94 ha)-(Consultant: Grass Roots Research & Creation India (P) Ltd.)-TORs.

The proposal of M/s B.D. Mines is for mining of minor mineral in the mines of “Yamuna Nagar Unit-4” with production capacity of 91.67 Lakhs TPA of Boulder, Gravel &

Sand in mine lease area of 378.94 ha. The mine lease area is located at villages – Gumthala, Nagli, Nagli Rangla, Sandhala, MT khera, Jathala, Puwari, Dakwala, Nakom & Majri (Block-12), District-Yamuna Nagar, and Haryana. The lease area lies in the bed of River of Yamuna. The Latitudes and Longitudes of mine lease area (block-12) are 30° 0'47.84"N to 29°55'50.69"N and 77°16'48.14"E to 77°13'11.20"E respectively on toposheet number H43/L4. The Project is located in seismic zone-IV. Interstate boundary of Uttar Pradesh & Haryana lies within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of Boulder, Gravel & Sand from the proposed site. The operation will be semi-mechanized with use of excavator, Trucks etc. Excavation is proposed to be carried out up to a maximum depth of 3 m in the river bed. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to M/s B.D. Mines by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DMG/HY/YNR/Cont/Unit-4/2013/109 dated 03/01/2014. The period of contract of mine is 9 years.

Proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries, and Tiger Reserves falls within the study area (10 km radius of the mine boundary). However, one Protected Forest exists within the study area. The total water requirement is 23.04 KLD including water demand for domestic purpose & dust suppression which shall be met by tanker supply. The total cost of project would be around Rs. 3,69,00,000.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,

- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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; and
- (xvi) 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). Mining of minor mineral in the mines of "Yamuna Nagar Unit-3" with production capacity of 98.67 Lakh TPA of Sand by M/s Jaipur Infrastructure Pvt. Ltd., located at village(s)-Bibipur Block YNR-8: (Bibipur, Jairampur jagir, Mandoli Ghaggar, Kanalsi), Bhir Tapu Block YNR-9: (Bhir Tapu), Odhiri Block YNR-10: (Odhiri, Lapra), Kalanaur Block YNR-11: (Kalanaur, Tapu Mandoli, Tapu Kamalpur), District-Yamuna Nagar, Haryana (407.86ha)-(Consultant: Grass Roots Research & Creations India (P) Ltd.)-TORS

The proposal of M/s Jaipur Infrastructure Pvt. Ltd. is for mining of minor mineral in the mines of "Yamuna Nagar Unit-3" with production capacity of 98.67 Lakh TPA of Sand in mine lease area of 407.86ha. The mine lease area is located at villages -Bibipur Block YNR-8: (Bibipur, Jairampur jagir, Mandoli Ghaggar, Kanalsi), Bhir Tapu Block YNR-9: (Bhir Tapu), Odhiri Block YNR-10: (Odhiri, Lapra), Kalanaur Block YNR-11: (Kalanaur, Tapu Mandoli, Tapu Kamalpur), District- Yamuna Nagar, Haryana. The lease area lies in the bed of River Yamuna. The Latitudes and Longitudes of mine lease area at Block YNR-8: 30°8'27.23"N to 30°6'29.11"N and 77°25'22.08"E to 77°23'13.42"E, Block YNR-9: 30°6'56.03"N to 30°6'47.64"N and 77°23'56.19"E to 77°23'41.52"E, Block YNR-10: 30°6'2.21"N to 30°4'35.18"N and 77°23'3.34"E to 77°21'38.91"E and at Block YNR-11: 30°4'5.10"N to 30°3'21.72"N and 77°20'44.30"E to 77°19'2.31"E on toposheet number(s) 53F/4, 53F/8, 53F/12, 53G/1, 53G/5, 53G/9. The Project is located in seismic zone-IV. The mine site is located in the interstate boundary of Haryana and Uttar Pradesh within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand from the proposed site. The operation will be semi-mechanized with use of excavator, Trucks, etc. Mining will be restricted up to a maximum permissible depth of 3 m. Extraction of material will be done only during the day time and will be completely stopped during the

monsoon season. The Letter of intent has been issued to M/s Jaipur Infrastructure Pvt. Ltd. by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. Glg/Hy/YNR/Cont/Unit-3/2013/107 dated 03.01.2014. The period of contract is for 10 years commencing.

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 22.5 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. 4.14 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;

- (xv) 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; and
- (xvi) 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 Lol letter issued by the Mines & Geology Department of State Govt. of Haryana.

(2.34).Mining of Minor Mineral in the mines of “Yamuna Nagar Unit-5” with production capacity of 13.5 million TPA of Boulder, Gravel & Sand by M/s Millennium Infra Engineer Pvt. Ltd., located at village(s) - Mandewala, Kholiwala & Bhood kalan (Block/YNR 13), Gulabgarh, Malakpur Khadar & Pipali Majra (Block/YNR 14), Bhilpur, Jaidhar & Jaidhari (Block/YNR 15), District- Yamuna Nagar, Haryana (1070.04 ha)-(Consultant: Grass Roots Research & Creation India (P) Ltd.)-TORs

The proposal of M/s Millennium Infra Engineer Pvt. Ltd. is for mining of minor mineral in the mines of “Yamuna Nagar Unit-5” with production capacity of 13.5 million TPA of Boulder, Gravel & Sand in mine lease area of 1070.04ha. The mine lease area is located at village(s) - Mandewala, Kholiwala & Bhood kalan (Block/YNR 13), Gulabgarh, Malakpur Khadar & Pipali Majra (Block/YNR 14), Bhilpur, Jaidhar & Jaidhari (Block/YNR 15), District-Yamuna Nagar, Haryana. The lease area lies on the Paleochannel of River Yamuna. The Latitudes and Longitudes of mine lease area for the three blocks are as follows: Block/YNR-13 (Mandewala): Latitude:30°16'22.03"N to 30°15'11.92"N and Longitude:77°31'10.24"E to 77°30'00.47"E, Block/YNR- 14 (Gulabgarh): Latitude:30°15'37.32"N to 30°16'31.80"N and Longitude:77°26'06.12"E to 77°27'45.75"E, Block/YNR-15(Bhilpur): Latitude:30°15'15.70"N to 30°13'27.98"N and Longitude:77°26'31.57"E to 77°23'47.79"E on toposheet number 53F/12. The Project is located in seismic zone-IV. Interstate boundary between Uttar Pradesh and Haryana lies within 10km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of Boulder, Gravel & Sand from the proposed site. The operation will be semi-mechanized with use of excavator, Trucks etc. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to M/s Millennium Infra Engineer Pvt. Ltd by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. Glg/HY/YNR/Cont/Unit-5/2013/111 dated 03/01/2014. The period of contract of mine is 8 years.

Proponent reported that ecologically sensitive area i.e. Kalesar Wildlife Sanctuary lies within the study area (10km radius of the mine boundary). Hence NBWL clearance is required for the same. Also, two Reserved Forest and one Protected Forests exist within the study area. The total water requirement is 8.5 KLD including water demand for domestic purpose & dust suppression which shall be met by tanker supply. The total cost of project would be around Rs. 4, 10, 40, 000.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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;
- (xvi) 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;
- (xvii) Necessary clearance from the Standing Committee of the National Board for Wildlife should be obtained; and
- (xviii) 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.

(2.35).Mining of Minor Mineral in the Mines of “Yamuna Nagar Unit-2” with production capacity of 1.532 million TPA of Boulder, Gravel & Sand by M/s Astin Excavation & Mining Pvt. Ltd., located at villages - Gorabani, Rajpur, Rampur Jattan & Chabutron (Block/YNR-4), Manakpur & Prithipur (Block/YNR-5), Kathgarh, Ranjitpur, Rampur Gainda, Suvavri, Ranipur, Guardwali, Alisherpur Majra, Ramgarh sawai, Mujaffat, Shergarh, Dayalgarh, Sundar, Bahadarpur & Bhagwanpur (Block/YNR-6) and Pammuwala, Sangholi & Jaffarpur Jafari (Block/YNR-7), District-Karnal, Haryana (554.13 ha)-(Consultant: Grass Roots Research & Creation India (P) Ltd.)-TORs

The proposal of M/s Astin Excavation & Mining Pvt. Ltd is for mining of minor mineral in the mines of “Yamuna Nagar Unit-2” with production capacity of 1.532 million TPA of Boulder, Gravel & Sand in mine lease area of 554.13 ha. The mine lease area is located at villages - Gorabani, Rajpur, Rampur Jattan & Chabutron (Block/YNR-4), Manakpur & Prithipur (Block/YNR-5), Kathgarh, Ranjitpur, Rampur Gainda, Suvavri, Ranipur, Guardwali, Alisherpur Majra, Ramgarh sawai, Mujaffat, Shergarh, Dayalgarh, Sundar, Bahadarpur & Bhagwanpur (Block/YNR-6) and Pammuwala, Sangholi & Jaffarpur Jafari (Block/YNR-7), District-Karnal, Haryana. The lease area lies in the bed of Rivers of Fandi Rao, Somb & Boli. The Latitudes and Longitudes of mine lease area for the four blocks are Block/YNR-4(Gorabani) : Latitude: 30°23'34.94"N to 30°21'34.94"N and Longitude: 77°24'29.55"E to 77°23'18.00"E, Block/YNR- 5(Manakpur): Latitude: 30°21'25.48"N to 30°19'48.35"N and Longitude: 77°23'12.15"E to 77°21'12.32"E, Block/YNR-6(Ranjitpur): Latitude: 30°26'57.02"N to 30°21'6.77"N and Longitude: 77°20'45.87"E to 77°21'12.91"E, Block/YNR-7(Pammuwala): Latitude: 30°28'9.48"N to 30°24'57.03"N and Longitude: 77°16'3.28"E to 77°15'15.69"E respectively on toposheet number 53F/8. The Project is located in seismic zone-IV. Interstate boundary of Himachal Pradesh & Haryana lies within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of Boulder, Gravel & Sand from the proposed site. The operation will be semi-mechanized with use of excavator, Tippers/ Trucks etc. Excavation is proposed to be carried out up to a maximum depth of 3 m in the river bed. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to M/s Astin Excavation & Mining Pvt. Ltd by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DMG/HY/YNR/Cont/Unit-2/2013/105 dated 03/01/2014. The period of contract of mine is 8 years.

Proponent reported that ecologically sensitive area i.e. Kalesar Wildlife Sanctuary & Simbalbara Wildlife Sanctuary lies within the study area (10km radius of the mine boundary). Hence NBWL clearance is required for the same. Also, four Reserved Forest and three Protected Forests exist within the study area. The total water requirement is 21.22 KLD including water demand for domestic purpose & dust suppression which shall be met by tanker supply. The total cost of project would be around Rs. 2, 91, 20, 000.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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;
- (xvi) 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 Lol letter issued by the Mines & Geology Department of State Govt. of Haryana; and
- (xvii) Necessary clearance from the Standing Committee of the National Board for Wildlife should be obtained.

(2.36).Mining of Minor Mineral in the Mines of “Panchkula Unit-3” with production capacity of 20.5 million TPA of Boulder, Gravel & Sand Mine (ROM) by M/s Avj Infrastructure Pvt. Ltd., located at Tehsil- Panchkula, District- Panchkula, Haryana (476.91 ha)-(Consultant: Udaipur Min-Tech Pvt. Ltd.)-TORs.

The proposal of M/s Avj Infrastructure Pvt. Ltd. is for mining of minor mineral in the mines of “Panchkula Unit-3” with production capacity of 20.5 million TPA of Boulder, Gravel & Sand Mine (ROM) in mine lease area of 476.91ha. The mine lease area is located at Tehsil- Panchkula, District- Panchkula, Haryana. The lease area lies in the bed of River. The Latitudes and Longitudes of mine lease area(Block PKL-4) are 30° 40' 0.62" to 30°37'28.14"N & 76° 56' 58.29" to 76° 56'34.32"E , (Block PKL-5) 30° 39' 10.99" to 30° 34'34.65"N to 76° 59' 39.89" to 76° 57'10.89"E and (Block PKL-6)30° 31' 7.10" to 30° 29'51.99"N to 76° 57' 47.23" to 76° 56'18.58"E respectively on toposheet number 53B14(Site), 53B15, 53F02, 53F03 .The Project is located in seismic zone-IV. The mine site is located in the interstate boundary of Haryana, Punjab & Himachal Pradesh within 10 Km radius of the lease area.

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. Excavation is proposed to be carried out up to a maximum depth of 3 m in the river bed. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to M/s Avj Infrastructure Pvt. Ltd. by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/PKL/Cont/Unit-3/2013/91 dated 03.01.2014. Letter of intent for mine lease area is 10 years.

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 22 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 6 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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; and
- (xvi) 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 Lol letter issued by the Mines & Geology Department of State Govt. of Haryana.

(2.37).River Sand Mining proposal with production capacity of 0.56 million TPA by M/s Mohammad Abid, located near villages-Kailadevi, Rapura & Others, Tehsil & District – Karauli, Rajasthan (425 ha)

The Proposal was **deferred** as the Project Proponent did not attend the meeting and requested for deferment vide PP letter dated 18.03.2014.

(2.38).Mining of Minor Mineral (Boulder, Gravel & Sand) in the Mines of “Ambala Unit-1” with production capacity of 17.20 million TPA of Boulder, Gravel & Sand by M/s. Antheia Properties Private Limited, located at village- Tehsil-Narayangarh, District-Ambala, Haryana (533.14ha)-(Consultant: Greencindia Consulting Pvt. Ltd.)-TORs

The proposal of M/s. Antheia Properties Private Limited is for mining of minor mineral (Boulder, Gravel & Sand) in the Mines of “Ambala Unit-1” with production capacity of 17.20 million TPA of Boulder, Gravel & Sand in mine lease area of 533.14ha. The mine lease area is located at village(s)-Toka, Chichi Majra, Mianpur, Sangrani, Rao Majra, Shahpur, Hamidpur, Chhoti Rasaur, Bari Rasaur, Fatehpur, Bhurewala, Laha, Ujjal Maira, Nagauli,

Bataura, Meerpur, Bari Khori, Chotagarh, Baragarh and Banauli respectively. The lease area lies in the tributaries of Markanda and Begna River & outside the river bed too. The Latitudes and Longitudes of mine lease area are 30°26'28" to 30°33'21" N and 77°03'49" to 77°11'45" E respectively on toposheet number 53-F/2&F/3. The Project is located in seismic zone-IV. The study area is located in the interstate boundary of Haryana and Himachal Pradesh within 10 Km radius of the lease area.

The proposed project is a boulder, gravel and sand mining project, confined to excavation of boulder, gravel and sand from the proposed site. The operation will be semi-mechanized with use of JCB, excavator, Tippers/ Trucks etc. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season in riverbed. The Letter of intent has been issued to M/s Antheia Properties Private Ltd. by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/Amb/Cont/Unit-1/2013/95 dated 03.01.2014. Life of mine is 8 years.

Proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries and Tiger Reserves falls within the study area (10 km radius of the mine lease area). However, Reserved Forest and Protected Forests exist within the study area. The total water requirement is 17 KLD including water demand for domestic purpose, dust suppression & green belt development which shall be met nearby villages.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;

- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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;
- (xvi) 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 Lol letter issued by the Mines & Geology Department of State Govt. of Haryana; and
- (xvii) 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.

(2.39).Mining of Minor Mineral (Sand) in the Mines of "Sonapat Unit-3" with production capacity of 12.35 million TPA of Sand by M/s. VNS Infrastructure Private Limited, located at Tehsil & District-Sonapat, Haryana (993.10 ha)- (Consultant: Greencindia Consulting Pvt. Ltd.)-TORs

The proposal of M/s. VNS Infrastructure Private Limited is for mining of minor mineral (sand) in the Mines of "Sonapat Unit-3" with production capacity of 12.35 million TPA of Sand. The proposed mining is spread over four village(s) namely Khurampur, Baqipur, Pabsara and Manauli, District-Sonapat, Haryana. The lease area lies in the bed of River Yamuna & outside the river bed too. The Latitudes and Longitudes of mine lease area are 28°53'34" to 28°56'23" N and 77°10'15" to 77°13'45" E respectively on toposheet number 53-H/1. The Project is located in seismic zone-IV. The lease area is located in the interstate boundary of Haryana, Uttar Pradesh and Delhi within 10 Km radius of the lease area.

The proposed project is a sand mining project, confined to excavation of sand from the proposed site. The operation will be semi-mechanized with use of JCB, excavator, Tippers/ Trucks etc. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season in riverbed. The Letter of intent has been issued to M/s VNS Infrastructure Private Ltd. by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/SNP/Unit-3/2013/133 dated 03.01.2014. Life of mine is 9 years.

Proponent reported that no ecologically sensitive area such as National Parks, Wildlife Sanctuaries and Tiger Reserves falls within the study area (10 km radius of the mine lease area). However, Reserved Forest and Protected Forests exist within the study area namely Niwara Reserve Forest which is 4.3 km from the proposed mining lease site in the direction

of N side across river in Uttar Pradesh and Mamupur Protected Forest which is 6.7 km from the proposed mining lease area in the direction of SW side situated in Haryana respectively. The total water requirement is 17 KLD including water demand for domestic purpose, dust suppression & green belt development which shall be met nearby villages.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. The Committee deliberated the issues and based on the request made by the Project Proponent.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per **Annexure-I**. 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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; and
- (xvi) 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; and

- (xvii) 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.

(2.40).Black Granite Mine with production capacity of 350 m³by M/s Tamil Nadu Minerals Ltd., located in village Ajjanahalli, Taluk Pennagaram, District Dharmपुरi, Tamil Nadu (8.98.5 ha) (Consultant: ABC Techno Labs, Tamil Nadu)-TORs

The proposal of M/s. Tamil Nadu Minerals Limited is for Black Granite Mining with production capacity of 350 m³ per annum of granite. The mine is located in village Ajjanahalli, Taluk Pennagaram, District Dharmपुरi, Tamil Nadu. The latitude and longitudes of the mine lease area are 12°02'49" N and 77°49'10" E.

The mine lease area is 8.98.5ha. It is noted that the proposal was transferred from the SEIAA, Tamil Nadu as the mine site is located within interstate boundary of Tamil Nadu and Karnataka and treated as Category 'A' project. The method of mine is opencast semi-mechanized. Life of mine is 30 years. It was reported by PP that no National Parks, Wildlife Sanctuaries, Tiger Reserves within 10 km radius of the mining lease boundary. Water requirement is 1.4 KLD for domestic usages and 0.9 KLD for dust suppression.

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 precautions to protect the water reservoir;
- (ii) copy of NOC from the Irrigation Department;
- (iii) Details of solid waste management;
- (iv) studies on cumulative impacts of other mines located within study area,
- (v) Details of measures to be taken for provision and use of protective footwear, goggles and other personal protective equipment while working in a Granite Mine and corresponding Occupational Health Issues associated therewith; and
- (vi) 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.

(2.41).Sand Mining at "Karnal Unit-4", Haryana with production capacity of 8.0 million TPA of Sand (ROM) by M/s. Jai Yamuna Ji developers, located at village(s)-Lalupura, Pir Badauli, Sadarpur, Mundogarhi, Bhaholpur, Barsat & Faridpur, Tehsil- Gharaunda District-Karnal, Haryana (1199ha)-(Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Jai Yamuna Ji Developers is for mining of sand in the Mines of "Karnal Unit-4" with production capacity of 8.0 million TPA of Sand (ROM) in mine lease area of 1199ha. The mine lease area is located at village(s)-Lalupura, Pir Badauli, Sadarpur,

Mundogarhi, Bhaholpur, Barsat & Faridpur, Tehsil-Gharaunda, District-Karnal, Haryana. The lease area lies in the bed of River Yamuna & outside the river bed too. The Latitudes and Longitudes of mine lease area are 29° 35'16.92"N to 29° 29' 35.98" N and 77° 5' 41.51" E to 77° 7' 13.68" E respectively on toposheet number 53G/4. The Project is located in seismic zone-III. The mine site is located in the interstate boundary of Haryana and Uttar Pradesh within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand from the proposed site. The operation will be manual inside the river bed & semi-mechanized with use of JCB, excavator, Tippers/ Trucks etc. in the area lying outside the river bed. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to M/S Jai Yamuna Ji Developers by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/Karnal Unit-4/2013/121 dated 03.01.2014. Life of mine is 8 years.

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 19 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. 4 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;

- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) Disaster management Plan;
- (xv) 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;
- (xvi) 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; and
- (xvii) 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.

(2.42).Mining of Major Mineral in “Dhani Abdulla Wali Gypsum Mine” with enhanced of production capacity from 5.0 Lakhs TPA to 6.0 Lakhs TPA of Gypsum by M/s. Rajasthan State Mines & Minerals Limited, located near village-Dhani Abdulla Wali, The sil - Kolayat, District-Bikaner, Rajasthan (1278 ha)-(Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Rajasthan State Mines & Minerals Limited is for Mining of Major Mineral in the “Dhani Abdulla Wali Gypsum Mine” with enhanced of production capacity from 5.0 Lakhs TPA to 6.0 Lakhs TPA of Gypsum in mine lease area of 1278 ha. The mine lease area is located at village Dhani Abdulla Wali, Tehsil - Kolayat, District - Bikaner, Rajasthan. The latitude and longitude of the site are 28°20'3.25" N to 28°21'39.2"N and 72°22'52.97"E to 72°25'34.97"E respectively and falls within the Survey of India Topo sheet No. 44D/7.

The proposed project is an open-cast mining project, confined to excavation of Gypsum and allied operations from the proposed site. The operation will be semi-mechanized with use of Hydraulic Excavator, Tippers/ Trucks, Tractor with Scraper etc.

The mine lease was granted in favour of Rajasthan State Mines & Minerals Limited by the Mines Department, Government of Rajasthan, vide order NO.P.3(14)Khan/Group-1/2007,dated 31.07.2009 for a period of 20 years with effect from date of registration i.e. 20.01.2010. Hence the lease is valid till 19.01.2030. The mine is being operated as per the Environment clearance issued by the MoEF vide No. J-11015/573/2007-IA. II (M), dated 28.5.2008 for gypsum production capacity of 5 Lakh TPA. The existing consent to operate from Rajasthan State Pollution Control Board, Jaipur for mines is valid up 31.01.2015.

Project Proponent has informed that as per approved scheme of mining the life of mines is about 10 years. The Committee mentioned that the PP has to restrict the

production of gypsum within 5 lakh TPA till the fresh environment clearance granted by the MoEF.

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 15 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. 60 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**. Further, the Proponent along with the EC proposal should also furnish the following: -

- (i) Earlier EC compliance report by the Regional Office of MoEF;
- (ii) Status of commitments made in the earlier Public Hearing;
- (iii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category; and
- (iv) 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.

(2.43).Mining of Major Mineral in “Proposed Akhusar Gypsum Mines (New Mine)” with production capacity of 2.7099 Lakhs TPA of Gypsum by M/s. Rajasthan State Mines & Minerals Limited, located near village - Akhusar, Tehsil - Kolayat District-Bikaner, Rajasthan (278.70ha)-(Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Rajasthan State Mines & Minerals Limited is for mining of Major Mineral in the “Akhusar Gypsum Mines” with production capacity of 2.7099 lakh TPA of Gypsum in mine lease area of 278.70ha. The mine lease area is located near village - Akhusar, Tehsil - Kolayat, District-Bikaner, Rajasthan. The latitudes and longitudes of the site are 28°10'22.76"N to 28°11'27.8"N and 72°05'47.84"E to 72°07'05.13"E respectively and falls within the Survey of India Topo sheet No. 44 D/3 & 4.

The proposed project is an open-cast mining project, confined to excavation of Gypsum and allied operations from the proposed site. The operation will be semi-mechanized with use of Hydraulic Excavator, Tippers/ Trucks, Tractor with Scraper etc. The letter of intent for grant of mining lease in favour of RSMML was issued by the Department of Mines and Geology vide order dated 26.07.2008. Mine Plan along with Progressive Mine Closure Plan has been approved by the Superintending Mining Engineer, Department of Mines & Geology, Bikaner vide order No. SME/BKN/Major/ML-16/2000/1806 dated 15.01.2013. Project Proponent informed that as per mining plan the life of mines is four years from the date of commencement of mining operation.

Project Proponent reported that no ecologically sensitive area such as National Parks,

Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). The total water requirement is 15 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. 60 Lakhs.

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

- (i) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category; and
- (ii) 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.

(2.44).Mining of Major Mineral in “Got Manglod Gypsum Mines” with enhancement of production capacity from 3.5 Lakhs TPA to 7.0 Lakhs TPA of Gypsum by M/s. Rajasthan State Mines Minerals Limited, located near Village-Got & Manglod, Tehsil - Jayal, District - Nagaur, Rajasthan (870.74 ha) - (Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Rajasthan State Mines & Minerals Limited is for mining of gypsum in the “Got Manglod Gypsum Mines” with enhancement of production capacity from 3.5 Lakhs TPA to 7.0 Lakhs TPA of Gypsum in mine lease are of 870.74ha. The mine lease area is located at village Got & Manglod, Tehsil - Jayal, District-Nagaur, Rajasthan. The latitude and longitude of the site are 27°13'22.4" N to 27°14'59.01"N and 74°3'23.65"E to 74°5'11.73"E respectively and falls within the Survey of India Topo sheet No. 45 I/3 & 4.

The proposed project is an open-cast mining project, confined to excavation of Gypsum and allied operations from the proposed site. The operation will be semi-mechanized with use of Hydraulic Excavator, Tippers/ Trucks, Tractor with Scraper etc.

Mine lease was renewed in favour of Rajasthan State Mines & Minerals Limited by the Mines Department, Government of Rajasthan, vide order NO.P.15(16)Khan/Group-1/2000,dated 13.07.2009, for a period of 20 years with effect from 30.06.2000 to 29.06.2020. The mine is being operated as per Environment Clearance issued by the MoEF vide No. J-11015/706/2007-IA. II (M), dated 28.5.2008 for gypsum production capacity of 3.50 lakh TPA. The existing consent to operate from Rajasthan State Pollution Control Board, Jaipur is valid up 31.05.2014.

Project Proponent informed that as per approved scheme of mining the life of mines is about 12 years. The Committee mentioned that the PP has to restrict the production of gypsum within 5 lakh TPA till the fresh environment clearance is granted by the MoEF.

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 15 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. 60 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**. Further, the Proponent along with the EC proposal should also furnish the following: -

- (i) Earlier EC compliance report by the Regional Office of MoEF;
- (ii) Status of commitments made in the earlier Public Hearing;
- (iii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category; and
- (iv) 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.

(2.45).Renewal of mining leaseof “Siyar Ka Kosita Gypsum Mines” with production capacity of 0.70 Lakhs TPA of Gypsum by M/s. Rajasthan State Mines Minerals Limited, located Near village-Siyar Ka Kosita, Tehsil-Sanchore, District-Jalore, Rajasthan (178.50 ha)-(Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Rajasthan State Mines & Minerals Limited is for renewal of mining lease of “Siyar Ka Kosita Gypsum Mine” with production capacity of 0.70 lakh TPA of Gypsum in mine lease are of 178.50 ha. Mine lease is located near village Siyar Ka Kosita, Tehsil - Sanchore, District Jalore. The latitude and longitude of the site are 24°58'54.78" N to 24°59'43.69"N and 71°27'41.57"E to 71°28'49.04"E respectively and falls within the Survey of India Topo sheet No. 40 O/8 & 40 P/5.

The proposed project is an open-cast mining project, confined to excavation of Gypsum and allied operations from the proposed site. The operation will be semi-mechanized with use of Hydraulic Excavator, Tippers/ Trucks, Tractor with Scraper etc.

The mining lease was granted in favour of erstwhile Rajasthan State Mineral Development Corporation (RSMDC) by the Mines Department, Government of Rajasthan, vide order NO.P.7(5)Khan/Group-2/85/18524, dated 07.02.1987 for a period of 20 years with effect from 19.12.1985. The RSMDC has amalgamated with RSMML on 20.02.2003. RSMML has applied for renewal of mining lease on 08.12.2004. Presently, the mines is under possession of RSMML with status of deemed mining lease. The total sanctioned mining lease area was 300 ha out of which 121.50 ha part of mining lease was surrendered vide SME, Department of Mines & Geology, Jodhpur order no. 255 dated 15.05.1998. Therefore the renewal application for mining lease has been submitted for an area of 178.50 ha on 06.12.2004.

The earlier Environment Clearance was granted by MoEF vide No. J-11015/5/96-IA. II (M), dated 02.07.1996 for 0.70 lakh TPA of gypsum production. Project Proponent informed

that at present mine is not operating as Rajasthan State Pollution Control Board requires fresh EC in case of renewal of mining lease which was being operated under Environmental Clearance issued as per the EIA Notification, 27.01.1994. Project Proponent informed that the production capacity of Gypsum in said environment clearance was 0.70 lakh TPA and mine was being operated with in the limit of 0.70 lakh TPA. It was informed that as per approved scheme of mining the life of mines is about 3 years.

Project 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 15 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. 60 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**. Further, the Proponent along with the EC proposal should also furnish the following: -

- (i) Earlier EC compliance report by the Regional Office of MoEF;
- (ii) Status of commitments made in the earlier Public Hearing;
- (iii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category; and
- (iv) 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.

(2.46).Sand Mining at "Panipat Unit-3", Haryana with production capacity of 7.0 Million TPA of Sand (ROM) by M/s. Jai Karan, S/o Shri OmPrakash,located at village(s)-Rakshera, Karkoli & Mahaoti, Tehsil-Samalkha, District-Panipat, Haryana (780.80ha)-(Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Jai Karan S/o Shri Om Prakash is for mining of minor mineral in the Mines of "Panipat Unit-3" with production capacity of 7.0 million TPA of Sand (ROM) in mine lease area of 780.80ha. The mine lease area is located at village(s)-Rakshera, Karkoli & Mahaoti, Tehsil-Samalkha, District-Panipat, Haryana. The lease area lies in the bed of River Yamuna & outside the river bed too. The Latitudes and Longitudes of mine lease area are 29^o10' 05" to 29^o11' 42" N and 77^o 07' 50" E to 77^o 08' 35" E respectively on toposheet number 53G/4. The Project is located in seismic zone-III. The mine site is located in the interstate boundary of Haryana and Uttar Pradesh within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand from the proposed site. The operation will be manual inside the river bed & semi-mechanized with use of JCB, excavator, Tippers/ Trucks etc. in the area lying outside the river bed. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to M/S Jai Karan

by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/Panap Unit-3/2013/127 dated 03.01.2014. Life of mine is 9 years.

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). However, one Reserved Forest and three Protected Forests exist within the study area. The total water requirement is 15 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.

PP has reported that the mine lease area does not falls under critically polluted area of Panipat. The Committee deliberated the issues and was of the view that PP needs to submit the confirmation letter from CPCB/SPCB that the mine lease area does not falls under critically polluted area of Panipat as per MoEF OM dated 17.09.2013.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs for undertaking detailed EIA study as per **Annexure-I subject to submission** of confirmation letter from CPCB/SPCB that the mine lease area does not fall under critically polluted area of Panipat as per MoEF OM dated 17.09.2013. 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;

- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) 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;
- (xv) 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; and
- (xvi) 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.

(2.47).Boulder, Gravel & Sand Mining at "Kurukshetra Unit-1", Haryana with production capacity of 2.0 million TPA of Boulder, Gravel & Sand (ROM) by M/s. Markandeshwar Construction Co., located at village(s)-Damli, Ram Nagar, Partli Kakra, Patti Sahzadpur, Gumti, Malakpur, Kalsana, Mugal Majra Kathuwa, Ajrana Khurd, Tamgor, Jhansa, Khangerpur, Thaska, Miran Ji Sahib, Azamatpur, Duniya Majra, Jalbehra, Tehsil- Shahbad & Pehow, District-Kurukshetra, Haryana (331.69 ha)-(Consultant: Mantec Consultants Pvt. Ltd.)-TORs

The proposal of M/s. Markandeshwar Construction Co. is for mining of minor mineral (Boulder, Gravel & Sand) in the Mines of "Kurukshetra Unit-1" with production capacity of 2.0 million TPA of Boulder, Gravel & Sand (ROM) in mine lease area of 331.69 ha. The mine lease area is located at village(s) -Damli, Ram Nagar, Partli Kakra, Patti Sahzadpur, Gumti, Malakpur, Kalsana, Mugal Majra Kathuwa, Ajrana Khurd, Tamgor, Jhansa, Khangerpur, Thaska, Miran Ji Sahib, Azamatpur, Duniya Majra, Jalbehra, Tehsil- Shahbad & Pehow, District-Kurukshetra, Haryana. The lease area lies in the bed of River Markanda. The Latitudes and Longitudes of mine lease area are 30° 03' 50" to 30° 11' 22" N and 76° 39' 38" to 76° 54' 10" E respectively on toposheet number 53 B/4. The Project is located in seismic zone-III. The mine site is located in the interstate boundary of Haryana and Punjab within 10 Km radius of the lease area.

The proposed project is an open-cast mining project, confined to excavation of sand from the proposed site. The operation will be carried out using manual method of mining. Excavation is proposed to be carried out up to a maximum depth of 3 m in the river bed. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to M/S Markandeshwar Construction Co. by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/KKR/Cont/Unit-1/2013/101 dated 03.01.2014. Life of mine is 10 years.

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). However, one Reserved Forest and three Protected Forests exist within the study area. The total water requirement is 15 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. 1 Crore.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) 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; and
- (xv) 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.

(2.48).Mining of Minor Mineral in the Mines of “Faridabad Unit-2” with production capacity of 13.692 million TPA of Sand Mine (ROM) by M/s NCR Real Tech Pvt. Ltd., located at Tehsil- Faridabad, District- Faridabad, Haryana (655.63 ha)-(Consultant: Udaipur Min-Tech Pvt. Ltd.)-TORs.

The proposal of M/s NCR Real Tech Pvt. Ltd. is for mining of minor mineral in the mines of “Faridabad Unit-2” with production capacity of 13.692 million TPA of Sand Mine (ROM) in mine lease area of 655.63 ha. The mine lease area is located at Tehsil- Faridabad, District-Faridabad, Haryana. The lease area lies in the bed of River. The Latitudes and Longitudes of mine lease area(Block Fbd-4) are 28°21'31.72"-28°22'35.84"N & 77°29'18.31"-77°29'19.10"E, (Block Fbd-5) 28°17'8.80"-28°20'49.66"N to 77°28'30.24" - 77°29'48.24"E and (Block Fbd-6) 28°12'34.24"-28°16'4.65"N to 77°28'1.08"-77°28'19.76"E respectively on 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 and Uttar Pradesh interstate boundary within 10 Km radius of the lease area.

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. Excavation is proposed to be carried out up to a maximum depth of 3 m in the river bed. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to M/s NCR Realtech Pvt. Ltd. by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DMG/Hy/Faridabad Unit- 2/2013/137 dated 03.01.2014. Letter of intent for mine lease area is 10 years.

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 29 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 5 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) 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; and
- (xv) 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 Lol letter issued by the Mines & Geology Department of State Govt. of Haryana.

(2.49).Mining of Minor Mineral in the Mines of "Panchkula Unit-1" with production capacity of 16.6 million TPA of Boulder, Gravel & Sand Mine (ROM) by M/s Haryana Royalty Company, located at Tehsil- Panchkula, District- Panchkula, Haryana (395.44 ha)-(Consultant: Udaipur Min-Tech Pvt. Ltd.)-TORs

The proposal of M/s Haryana Royalty Company is for mining of minor mineral in the mines of "Panchkula Unit-1" with production capacity of 16.6 million TPA of Boulder, Gravel & Sand Mine (ROM) in mine lease are of 395.44 ha. The mine lease area is located at Tehsil- Panchkula, District- Panchkula, Haryana. The lease area lies in the bed of River. The Latitudes and Longitudes of mine lease area(Block PKL-1) are 30° 55' 42.30" to 30° 52' "N & 76° 49'32.53" to 76° 49'33.62"E and (Block PKL-2) 30° 51' 41.07" to 30°49'59.59"N to 76° 50' 55.11" to 76° 52'49.30"Erespectively on toposheet number 53B13(Site), 53B14, 53B09, 53B10, 53A12, 53A16, 53F01, 53F02.The Project is located in seismic zone-IV. The mine site is located in the interstate boundary of Haryana, Punjab & Himachal Pradesh interstate boundary within 10 Km radius of the lease area.

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. Excavation is proposed to be carried out up to a maximum depth of 3 m in the river bed. Extraction of material will be done only during the day time and will be completely stopped during the monsoon season. The Letter of intent has been issued to

M/s Haryana Royalty Company by Director of Mines & Geology, State Govt. of Haryana, Chandigarh vide letter no. DGM/Hy/PKL/Cont/Unit-1/2013/89 dated 03.01.2014. Letter of intent for mine lease area is 7 years.

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 22 KLD including water demand for domestic purpose, dust suppression & green belt development which will be met by tanker supply. The total cost of project would be around Rs. 6 Crores.

The Project Proponent mentioned that they had started collection of base line data since March 2014 and requested to monitor the baseline data pre-monsoon season i.e. March 2014 - May 2014. 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 TORs 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 and II species;
- (vi) Impact of mining on plankton;
- (vii) Details of mining activity to be provided w.r.t Block Wise/ Calendar wise/ Zone wise, as the mine lease area is having a long stretch,
- (viii) Details of Gradient of river bed to be provided;
- (ix) Details of excavation schedule & sequential mining plan to be indicated;
- (x) Mining Plan shall be prepared carefully, dividing lease area into manageable blocks to ensure scientific and systematic mining of minor minerals;
- (xi) The base line data shall be collected so as to represent the whole mine lease area;
- (xii) Letter from the State Govt. of Forests Department that the mine lease area does not fall under forests land category;
- (xiii) Details of continuous monitoring stations to be established for carrying out monitoring in each block in the core area;
- (xiv) 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; and

(xv) 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.

(2.50).Bauxite mining project with enhancement of production capacity from 44543.356 TPA to 1,10,022 TPA of bauxite (ROM) by M/s Orient Abrasives Ltd., located at village-Moti Balachor, Taluka-Abdasa, Distrcit- Kuchchh, Gujarat (110.07ha)- Reconsideration of TORs

The proposal of M/s Orient Abrasives Ltd. is for enhancement of production capacity from 44,543.356 TPA to 1,10,022 TPA of bauxite (ROM) in the mine lease area of 110.07ha. The mine is located at village-Moti Balachor, Taluka-Abdasa, Distrcit- Kuchchh, Gujarat.

The Mining Scheme was approved with ROM Production of 1, 10, 022 TPA. The Mining method will be semi mechanized with bench formation of maximum 3 m height and 10 meters apart. The waste generated will be backfilled. As bauxite is soft and compact, partial drilling & blasting will be required through Jack hammer drilling of 1 m spacing and 1.5 m depth with 0.64 kg of explosives consumption per hole achieving powder factor of 7 MT/Kg.

Total mine lease area is 110.07ha which is a part of large Government waste land of village MotaBalachod. The lease was granted by Government of Gujarat by their order dated 14.09.1973 and was executed on 03.06.1974 for a period of 20 years. The lessee had applied for 1st renewal for 10 years vide letter dated 10.03.1993 and subsequently for 2nd renewal for 10 years period was applied vide letter dated 02.06.2003. The third renewal for the period of 20 years was applied vide letter dated 29.05.2013. Lease renewal application is under consideration at State Government of Gujarat and office of the Commissioner of Geology and Mining, GoJ, issued circular in 2011 that Lease renewal application are valid under deemed extension as per rule 24(A)(6) of MCR-1960.

The proposal of TORs was earlier appraised by the EAC meeting held during April 25-27, 2011 wherein the Committee observed that the status of grant of mine lease is unconfirmed. The Committee desired that in the first place, an unambiguous commitment from the State Government should be obtained conforming that they are willing to grant mine lease for the said mine to the lessee and a copy furnished to MoEF for further consideration of the proposal. Accordingly, MoEF vide letter dated 27.09.2011 has communicated to the Department of Industries & Mines. PP has replied to the query raised by MoEF and mentioned about the circular no. CGM/Lease/Policy/2-11-10103 dated 11.12.2011 issued from the office of the Commissioner of Geology and Mining, Government of Gujarat giving clear directive of DEEMED EXTENSION for lessee and lease holder may continue mining till final decision is taken by the competitive authority as per rule 24 (A) (6) of MCR 1960. Further, under Rule 24B of MCR 1960, every person holding Mining Lease for Mineral used in his own industry shall be entitled for renewal of Mining Lease.

The mine was operated since 2nd February, 1976 and achieved highest Pre-1994 production of 44543 MT and highest Post-1994 production of 160018 TPA in the year 2000-01. The company has discontinued the production operation from 01.07.2011. The Committee noted that it is **violation case** of the provisions of the 1994 Notification as the

PP has enhanced the production capacity i.e. 160018 TPA in the year 2000-01 without prior environmental clearance.

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

(2.51).Kantharia Red Ochre, White Clay & Silica Sand Mine of Smt. Tamanna Begum with Proposed Production of Red Ochre –4,00,000 TPA , Silica Sand –25,000 TPA, White Clay – 40,000 TPA and Renewal of mining lease located at Near Village Kantharia, Tehsil & District Chittorgarh, Rajasthan (64.75 Ha.) (consultant: Udaipur Min-tech Pvt. Ltd., Udaipur)

The mine lease area is located at near village Kantharia, Tehsil & District – Chittorgarh, Rajasthan. The Mine Lease area is between Latitude 24° 47' 46'' to 24° 47' 55'' N and Longitude is 74° 34' 26''- 74° 35' 32'' E. The Project is located in Seismic Zone II. No wild life sanctuary within 10 km. The mine lease area is 9.5 Km away from the Chittorgarh Fort Boundary.

The proposal of Smt. Tamanna Begum is for mining of Red Ochre (4,00,000 TPA), White Clay (40,000 TPA) & Silica Sand (25,000 TPA).The method of mining will be Opencast Semi Mechanized method by forming the benches of 6.0 m height and width 15-20 m. Ultimate pit slope shall be maintained at 45⁰, ultimate pit limit, for Red ochre will be 392 mRL, for White clay 389 mRL & for Silica sand 392 mRL. Loading of minerals into trucks / tippers will be done manually or by using excavators and transported to nearby industries. Top soil generated, will be simultaneously used for plantation. No drilling and blasting is required. PP informed that Scheme of Mining with PMCP was approved by DMG vide letter no. ADM/UD-zone/Mine/Chittor/Major/F-3/04/5850 dt. 06.12.2004.The Mining plan with PMCP under Rule 24A/ of MCR, 1960 & 23 B (2) of MCDR, 1988 for renewal was submitted to DMG, Bhilwara (Raj.) for approval.

The lease was granted in favor of Shri Onkar S/o Shri Uda Khatik for a period of 20 years i.e. from 08.01.1973 to 07.01.1993 and was renewed for 20 years effective up to 07.01.2013. Mining lease was transferred in favour of the present lessee, Tamanna Begum vide State Government order no. DMG/CHITOR/REN/CC-6/F.1 (1)92/991 dated 24.6.95. The transfer lease deed agreement was executed on 29/07/95 and registered on 07/08/95. The present Lessee has already applied for grant of renewal of Mining lease on 09/05/2011 for a period of 20 years.

Environment Clearance was granted by MoEF, New Delhi vide letter no. J-11015/624/2007-IA.II (M) dt. 02.01.2009 for 16,770 TPA of Silica Sand and 20,256 TPA of Red Ochre. PP informed that at present the mining activities have been suspended by the

order of The Mining Engineer, Department of Mines & Geology, Government of Rajasthan, Chittorgarh, dated, 20.08.2011, in compliance of interim order from Hon'ble High Court of Rajasthan in D. B. Civil Writ petition No. 659/2011 Bhanwar Singh & other against Govt. of India & others dated 19.08.2011, in which all mining activities within 10 km radius of Chittorgarh Fort were suspended.

The earlier proposal was considered by the EAC in its 9th meeting held during July, 22nd – 24th, 2013 wherein the Committee was of the view that as the matter is subjudice and therefore the proposal can be considered only after the matter is resolved.

PP mentioned that the Hon'ble Supreme Court of India in the Special Leave Petition (Civil) No. 21211/2012 vide order dated 29.07.2013 have permitted mining activities from 2Km of Chittorgarh Fort Boundary wall with Heavy Earth moving machineries (HEMM). The Committee observed that the mine site falls at a distance of 9.5 Km from Chittorgarh Fort Boundary.

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

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

The proposal is for amendments in TORs prescribed by the MoEF vide letter no. J-11015/318/2013-IA.II (M), dated 09.12.2013. The Committee noted that the address of Project Proponent has advertently mentioned in the letter of TORs.

The Committee noted that it is a typographical error and **recommended** for amendment in the address of TORs from "*M/s Himmat Singh Sekhawat, 98, Rooprajat Township, Phase-II, Pal Road, Jodhpur, Rajasthan*" to *M/s Sher Singh s/o Shri Mangal Singh, 13, Shiv Nagar, Ajmer Road, Jaipur, Rajasthan*".

(2.53).Bajri Mine (Minor Mineral) with Production Capacity 1.68 million TPA by M/s Abhimanyu Chaudhary located at Revenue Village(s)of Tehsil-Mandal, District Bhilwara, Rajasthan (995.0ha)-(Consultant: Enkay Enviro Services Pvt. Ltd., Jaipur)- Amendments in TORs

The proposal is for amendments in TORs prescribed by the MoEF vide letter no. J-11015/234/2013-IA.II (M), dated 17.10.2013 with regard to mine lease area.The

Committee noted that it is a typographical error and **recommended** for amendment in TORs from the mine lease area of 955ha to 995ha.

Day 2: 21st March, 2014 (Friday)

CONSIDERATION OF EC PROPOSALS:

(2.54). Sohale Iron Ore Mine of M/s Ajanta Minerals, Village Sohale, Taluka Korchi, District Gadchiroli, Maharashtra (ML area 65.00ha and production capacity of Iron Ore 40,000TPA) (Consultant: Enviro Techno Consult, Nagpur)-environmental clearance.

Proposal is for float ore iron ore mining with production capacity of Iron Ore 40,000TPA by Ajanta Minerals from their lease at village Sohale in Korchi tehsil of Gadchiroli district. Latitude & longitude are 20°45'25"-20°45'30"N & 80°29'30"- 80°29'43" E respectively. TOR were prescribed in the 7th meeting of 25-26th March 2010 for mining at production capacity of 40,000 TPA vide Letter no J-11015/82/2010-IA-II (M) dated 6th April, 2010.

The mine lease area is 65 ha which is non forest, Government revenue and private land; mine plan has been approved by IBM, Nagpur vide letter no GAD/Fe/MPLN-1065/NGP dated 03.12.2010. Government of Maharashtra has issued LOI for grant of lease (65 ha) to M/s Ajanta Minerals Pvt. Ltd., (AMPL) vide MMN-1005/CR-875/I Lose Batch/Ind-9 dated 19-01-2009. The TOR were issued for the production capacity of 40,000 TPA; however, PP had reduced the production capacity to 11,000 TPA. It is proposed to do the float ore at the production capacity of 11,000 TPA using excavators, dumpers, tippers etc. Float ore will be transported to storage area for sorting. Jack- hammer drills will be used for secondary blasting of big boulders. Annual production in five years- ROM -3,666 m³ (11, 004T); graded ore 2200 T and waste would be 8803 T & soil 185 m³. Soil and waste would be used for filling of low lying areas and pits. Back filling will not be required during float ore mining.

Water table will not be intersected during float ore mining. There will not be any discharge from mine. The water requirement for the mine is 10 KLD which will be met from a nearby bore well/ dug well. It was reported by the PP that no ecologically sensitive area/protected areas such as National Parks, Wildlife Sanctuaries, Tiger Reserves falls within the study area (10 km radius of the mine boundary). Base line monitoring was conducted during post monsoon period from October to December 2010 and 2012. The parameters were within permissible limits. Public hearing with regard to the proposed project was held at the office of Collector, Gadchiroli on September 09, 2011. The public hearing was chaired by shri B.S. Meshram, Additional District Magistrate, Gadchiroli. The major concerns raised during public hearing were degradation to environment due to mining activity, threat to wildlife, loss and destruction of forest, Public in the area is dependent on the forest for their livelihood. The information about environmental issues like provisions of drain for natural runoff, source of water, dump site etc were not given in EIA report. The action plan of public hearing was not provided by the PP. The estimated cost of the project is Rs 5 crores.

The funds earmarked for EMP is Rs 50,000 (capital cost) and Rs 1,40,000 (recurring cost) and Rs 5 lakhs for CSR.

After deliberations, the Committee sought the following additional information:

- (i) The capacity had been revised and reduced to 11,000 TPA. A revised EIA/EMP report indicating the reduced production capacity shall be submitted;
- (ii) Clarification on land use category of mine lease area shall be given;
- (iii) Cadastral Map with contours shall be submitted;
- (iv) The Questionnaire shall be completed and submitted along with the revised EIA/EMP report;
- (v) Details of public hearing and Action Plan with budgetary provisions should be given; and
- (vi) Mine Plan was not circulated to the Members, therefore Mine Plan shall be circulated along with EIA/EMP report and other requisite documents to all the Members on time, when listed for next EAC meeting.

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

(2.55). Silica Sand Beneficiation Plant of M/s Mangalore Minerals (P) Ltd. (6 lakh MTPA) village Chhattara, Allahabad, Uttar Pradesh (10ha) (Consultant: M/s Perfect Enviro Solutions PVT. Ltd.)-environmental clearance.

The proposal of M/s Mangalore Minerals Private Limited is for establishment of silica sand beneficiation plant in village Aswan, near Chhathara, Tehsil Bara District Allahabad. Project proponent identified several low grade Silica Sand sites in Uttar Pradesh and finally shortlisted Chhathara Silica Sand Mine, Allahabad mining areas belonging to M/s Hari Mandir Mineral Traders and if required, from other mine owners as a potential site to setup aforesaid Silica Sand washing plant for its Foundry requirements for the state of U.P. Project proponent intends to beneficiate 6 lakh MT silica sand per year.

MoEF has issued TOR vide EAC No. J-11015/188/2011-IA.II (M) on dated 21 September 2011 & revalidated till September, 2014 (Vide MoEF letter no. No. J-11015/188/2011-IA.II (M) dated 07, January, 2014). Subsequently the report was submitted and Public hearing was held on 08.07.2013.

The capacity of plant is 6 lakh MT; accordingly, it is covered under schedule 2(b) and category "A" as per EIA notification 2006. Nearest settlement is village aswan. The plant area is 6.91 ha (69100 Sq. m.), whole area is barren land. The proposed plant area is located at Latitude: 25° 17' 35" to 25° 17' 43" N & Longitude: 81° 40' 14" to 81° 40' 30" E as per Survey of India Toposheet no. 63G/11. Nearest national highway is NH-24. Nearest Railway Station is Lohgara - 8.5 Km S, Allahabad Rly Stn is 26.0 Km – NE. The site is 16 Km from Allahabad airport. It was reported by PP that there are no wild life sanctuaries, tiger reserves, National Parks etc within 10 km radius of Plant area. There is no forest land

involved in the project activity, the nearest perennial water body is Yamuna river (7.5 Km N).

For the proposed Plant, raw ROM silica sand is proposed to be procured from nearby mines. Water requirement is 180 KL per day for processing, The power requirement is 2,000 KVA; therefore 800KVA generators will be installed for power backup. In the proposed Plant 24,000 T solid waste will be generated per annum.

Their Project cost is around Rs. 2000 Lakhs. Proposed Plant will require about 50 direct employees besides 100 indirect workers. It was informed by PP that there is neither rehabilitation nor settlement involved with the project. More than 30% area has been planned for green belt development. The NOC for ground water extraction is granted vide letter No. 21-4(382)/NR/CGWA/2011-5083 Dated 27.12.2012.

It was reported by the PP that no ecologically sensitive areas/protected areas such as National Parks, Wildlife Sanctuaries, Tiger Reserves fall within the study area (10 km radius of the mine boundary). The schedule-I species, peafowl is reported in the study area. Conservation Plan for conservation of peafowl has been submitted by PP. Base line monitoring was conducted during post monsoon period from mid of September to mid December 2011. The parameters were within permissible limits. It was noted that season is not as per IMD guidelines; therefore fresh baseline data should be collected for one month. Public Hearing with regard to the proposed project was held on 08.07.2013 at project site. The public hearing was chaired by Shri Ram Niwas, Additional District Magistrate (Admin), Allahabad. The major concerns raised during public hearing were that people will face problem for water, and raised issues of lease of the land and unemployment. The Action Plan of Public Hearing was not provided by the PP.

Based on the presentation made and discussion held, the Committee decided to **defer the proposal to be brought back** to the Committee after the following information is submitted: (i) Environment Policy of the Company; (ii) Clarification for reducing the area from 10 ha to 6.91 ha; (iii) Details of Public Hearing and Action Plan with budgetary provisions; (iv) revised EIA/EMP report along with Questionnaires and proper page numbering and indexing; (v) Plan for disposal of solid waste generated; (vi) It is noted that season is not as per IMD guidelines therefore fresh baseline data should be collected for one month; (vii) Plan for developing the greenbelt in 3.01 ha; and (viii) the certified copy of the English translation of Public Hearing proceedings.

(2.56). Jajang Iron Ore and Manganese Mine of M/s. Rungta Mines Limited located at Village Jajang, Palsa and Bandhubeda, District Keonjhar, Orissa (666.15 ha.)(Production of Iron Ore from 5.5 million TPA to 16.5 million TPA (total handling including dry processing), Installation of Wet Beneficiation Plant of 6.0 Million TPA))(Consultant: Ecomen Laboratories Pvt. Ltd. Lucknow) -environmental clearance.

The proposal is for enhancement of production of Iron ore from 5.5 MTPA to 16.5 MTPA (12.8MTPA ROM by fresh excavation + 3.7 MTPA by collection from old dumps/material stacks), installation of Wet Beneficiation Plant of 6 MTPA throughput &

Pelletisation plant of 2.4 MTPA capacity over an area of 666.15 ha in Jajang, Bandhuabeda, Palsa (ka) and Joribahalvillages of District Keonjhar. The Latitude and Longitude of the site is 21°54'43.70"N to 21°56'33.50"N and 85°24'49.68"E to 85°26'50.70"E.

The proposal was considered by the Expert Appraisal Committee in its meeting held on 20 June, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter J-11015/96/2012-IA-II(M), dated 23.07.2012. The Proponent submitted their Application to the Ministry on 27.01.2014 for seeking environmental clearance, after conducting Public Hearing on 17.01.2014.

The Environmental Clearance for the mine was earlier granted by Ministry of Environment and Forests, Govt. of India vide letter no. J-11015/136/2005-IA-II(M) dated 14.06.2005 for production of 5.5 million TPA of Iron Ore. The Certified Compliance Report by MoEF Regional Office, Bhubaneswar, submitted vide letter no. 101-187/05/EPE dated 18.03.2013 was also discussed during the meeting.

The scheme of mining for proposed expansion has been approved by IBM; vide letter No. 314(3)/2011/MCCM (CZ)/MS-49 dated 27.03.2012 for the period 2012-13 to 2016-17. The lease area of 666.150 ha consists of 67.965 ha of Khesra forest land 417.62 ha DLC forest land, 180.565 ha of non-forest land. Out of 67.965 ha of KF, 44.70 ha has received Stage-II clearance and safety zone of 23.265 ha has received Stage-I clearance. Similarly out of 417.620 ha of DLC forest, 379.846 ha (including 4.629 ha safety zone) has already received Stage-I clearance on 19.03.2012. Balance 37.774 ha of DLC forest is acquired by DKB rail line.

The proposed method of mining operation in Iron Ore Quarry will be opencast fully mechanized with excavation of waste and ROM Iron ore by excavators. Loading will be done by loaders. ROM ore will be processed through screening and crushing Units to get sized and fines of iron ore. Large boulders of Iron Ore will be broken by using rock breakers to avoid blasting. Dozers will be used for road development and dump development. Transportation of iron ore will be mainly through two Railway sidings within the lease, partly through Railway siding outside lease area (together 80%). The balance 20% material will be transported by road.

Total ROM Iron ore production of the mine or already stacked low-grade Iron ore of the mine will be processed by dry screening/crushing dry/magnetic separation/wet beneficiation. Various types of dry processing Units are already under operation in the mine. It is proposed to install (4x500TPH) iron ore wet beneficiation plant after statutory clearances, for a feed capacity of 6.0 MTPA, which will provide 4.5 MTPA of saleable ore per annum. It is also proposed to install a Pelletisation plant of 2.4 MTPA capacity. At the proposed production capacity, life of the mine is 8 years.

The solid waste generation will be 66,29,129 m³ and tailings 17,46,030 m³ during mining scheme period. During life of the mine, waste generation will be 68,50,599 m³ and tailings 39,68,250 m³. Existing 92,43,072 m³ waste will be dumped in D1,D2,D3,D4 dumps. Out of 92,43,072 m³ of dump around 16,77,819 m³(D1 +D2) of iron ore will be produced after processing. The balance quantity shall be dumped/stacked. Out of 66,29,129 m³ waste

generated during mining scheme period 3260078 will be dumped in external dump D4, balance will be used for backfilling in Block B & C. Tailings 17,46,030 M³ will be filter pressed & backfilled near block C, remaining will go to tailing pond. 68,50,599 m³ waste generated during life of mine will be dumped in Block B & C. Tailings 39,68,250 M³ will be filter pressed & backfilled near block C, remaining will go to tailing pond. 1,42,33,930 m³ of waste & tailing shall be backfilled in an area of 225.751 ha & 12.894 ha of tailing pond will be filled by 12,00,000 m³ of tailings.

Total Water requirement is 14,231 m³/day. The quantity of water will be met from Surface water & Ground water. On the basis of the approval by Single Window Clearance Authority (SLSWCA), the Industrial Promotion and Investment Corporation of Orissa Limited (IPICOL) has recommended 480 m³ of surface water/hr (11,520m³/day) for the beneficiation plant which includes the water requirement for dust suppression, greenbelt development and miscellaneous work. The total makeup water requirement/ day for plant operation is 10,421m³/day. The makeup water requirement for 2.4 MTPA iron ore pelletisation plant is calculated to be 2,112 m³/day for which the application is being submitted to Department of Water Resources, Govt. of Odisha for allocation of the said quantity.

The present working is from 617 mRL and ultimate working will be up to 467mRL. The water table (Post monsoon) is at 456 mRL. Therefore, mine working will not intersect the water table. The Baitarni river flows adjacent to the mine lease area in E direction. It was reported by PP that no Wild Life Sanctuary/Tiger Reserve/National Park/ Elephant corridor/ Schedule I species occur within 10 km of the mine lease area. For conservation of wildlife in the area, site specific conservation plan is already approved by Principal CCF (Wild Life) & Chief Wild Life Warden, Odisha. However, PP has contributed proportionate amount in preparation of regional Wild Life Management Plan. The proposed fund requirement for implementation of the Plan has already been deposited (Rs. 200 Lakhs) to DFO Keonjhar. All other works within the lease area shall be undertaken by the Company under the guidance of the Monitoring Committee and DFO and a budget of Rs. 100 lakhs has been kept by the Company for implementation of the Plan within lease area.

Baseline studies were carried out in October, November, and December, 2012. Public hearing was held on 17.01.2014 at Exhibition ground, near Radhakrishna temple, Jajang village of district Keonjhar, Odisha. Issues raised & the action plan with budgetary allocation is given as: Environmental protection measures (Rs 30 lacs/ annum), Educational facility (Rs.9lacs/annum), Health Care (Rs. 63.5 lacs/ annum), drinking water supply (Rs. 2 lacs/annum), peripheral development (Rs. 6.3 lacs/ annum), dust suppression (Rs. 10 lacs/annum), promotion of culture & sports (Rs. 5 lacs/ annum), support to agriculture (Rs. 5 lacs/annum).

The cost of the project is Rs.1400 crores and environmental cost towards EMP already incurred is Rs.1520.93 lakhs & further proposed is Rs. 698.00 lakhs. Proposed recurring cost per year is Rs. 103.08 lakhs. For Peripheral development expenditure already made is Rs. 51.24 crores and proposed recurring expenditure per year is Rs. 2.72 crores. It

was informed by PP that there is no court case/litigation pending against the Project and no violation of the rule.

Based on the presentation made and discussion held, the Committee sought the following information: (i) Commitment made by PP during the public hearing held for prior EC granted in 2005 and its compliance shall be provided; (ii) details of dump height and slope stability; (iii) plan for translocation of species from dump site proposed for re-handling; and (iv) whether road through which material will be transported can bear 20 tonner truck load.

The Project Proponent furnished the desired information same day, the information was considered by EAC PP informed that the Commitment made during the public hearing held for prior EC granted in 2005 were complied and the road through which material will be transported can bear load of 20 tonner truck. PP also submitted the undertaking that they will maintain the dump height upto 60 meter and overall slope of the dump will be upto 30°. Based on discussion and deliberations held, the proposal was **recommended** for grant of Environmental Clearance.

(2.57). Kalavapalli Quartz Mine of M/S. UBR Minerals, Located at village Kalavapalli, racherlamandal, Distt. Prakasam, A.P. (181.607 ha) (2.0Lakh Tonnes/annum)(Consultnt: M/s Bhagavathi Ana Labs Ltd.) -environmental clearance.

The proposal is for mining of 2.0 Lakh Tonnes/Annum of Quartz production from 181.607 ha Mine lease area is located at Kalavapalli Village, Racherla Mandal, Prakasam District, Andhra Pradesh. The Latitude and longitude of the site are:
Latitude: 15° 26' 14.20" N; Longitude: 78° 59' 04.50" E and Latitude 15° 26' 03.40" N, Longitude 78° 58' 31.40" E.

The TOR was issued vide MoEF letter No J-11015/254/2010-IA.II(M) dated 25th October, 2010. It was noted that the TOR expired on 24.10.2012, the PP sought extension for validity of TOR for further one year. The extension of validity of TOR for additional one year i.e. from 25.10.2012 to 24.10.2013 was granted vide letter no. J-11015/254/2010-IA.II(M) dated 17.02.2014. The mine lease area is 181.607 ha which is Government waste land. There is no forest land in the lease area. The mining plan for the project is approved by IBM Vide letter no 9934/DMP/ONG/09 dated 12.05.2010.

It is reported by the Project Proponent (PP) that mine is proposed for a maximum annual production of 2.00 LTPA. It is proposed to work this deposit by opencast mechanized mining method using 115 mm dia DTH drilling and blasting. The blasted material would be loaded into the tippers and sent to the stack. Life of the mine is 23 years. The water requirement is estimated as 22.5 KLD, which will be sourced from Ground water. It is reported by the PP that Total Geological Reserves are 4.4025 Million Tonnes and Mineable Reserves: 4.275 Million Tonnes. Conceptual mine development will be carried out in 5.49 Ha area, area for Green Belt will be 51.72 ha, roads will occupy 0.63 ha, area for statutory buildings will be 0.1 ha, area for dumps will occupy 4.24 ha, village habitation, reservoir and

canal will be over 56.73 ha. Total of 4.44 million tonnes of waste will be handled during life of mine.

The mining activities will not intersect ground water table. It was reported by the PP that there is no wildlife sanctuary/tiger reserve/national park, etc within the 10 km radius area around the mine lease. However, it was reported that Reserve forests viz Somidevipalli Reserve Forest (3.2 Km), Ambavaram Reserve Forest (1.65 Km), Eastern Nallamalas Reserve Forest (6.0 Km) are present in the study area. Gundlakamma River is at a distance of 8.7 km from the ML boundary. It was reported by PP that schedule-I species Tiger and Peafowl are present in the study area. A species specific conservation plan for both the species was submitted by PP.

Baseline studies were carried out during summer season 2011. All the parameters for water and air quality were reported to be within permissible limits. The Public Hearing for the proposed Kalavapalli Quartz Mine was conducted on 24.08.2012 at near Tahsildar Office, Racherla village & mandal, Prakasam District, Andhra Pradesh. The PH was chaired by Shri. J. Radha Krishna Murthy, District Revenue Officer and Addl. District Magistrate, Prakasam District. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia, included that there should not be any discharge of effluent from the mine lease area, air pollution control measures to be adopted, raising of plantation, sprinkling of water etc. Grazing land to be provided. As per the villager's requirements, it was informed by the PP that they would give preference to locals for employment; health issues, providing education, and assistance in vocational training etc. These have been incorporated in the Project Plan with budgetary provisions. The estimated cost of the project is Rs 4.20 Crores. It was reported by the PP that there is no court case/litigation pending against the project.

Based on the presentation made and discussion held, the Committee decided to **defer the proposal to be brought back** to the Committee after the following information is submitted: (i) Plan for alternate road and access route plan for villagers and cattle, as road is passing through the mine lease area; (ii) Plan for management of first order streams passing through the mine lease area; and (iii) details of alternate sites in lieu for the grazing lands used for mining.

Day 2: 21st March, 2014 (Friday)

Re-Consideration of EC Proposals

(2.58). Collection of Sand Stone and bajri Mining lease of M/s Diamond Enterprises, District Kangra, Himachal Pradesh (8.5555ha) (1,00,000TPA)(M/s Shivalik Solid Waste management Ltd.)- re-consideration environmental clearance.

The project proposal is for mining of sand, stone and bajri from river terrace with proposed production of 1,00,000 TPA by M/s Diamond Enterprises at Khasra No. 1600/617, located at Mauza Lodhwan, Tehsil-Nurpur, District-Kangra, Himachal Pradesh. The Latitude and Longitude of the mine site are 32°16'32.3" N to 32°16' 43.5" N and 75°45'02.6"E and 75°45' 05.5"E.

The proposal was considered by the expert Appraisal Committee in its 13th Meeting held on 23-25 March, 2011 to determine the terms of reference for undertaking detailed EIA study. The TOR was issued by MOEF vide letter No. J – 11015/09/2011 – IA.II (M) dated 23rd May 2011 for mining of 1,00,000 TPA of Sand, Stone and Bajri from river terrace of Chakki Khad and its tributary Bari Khad.

It was noted that the mine operated from 02.08.2002 to 01.09.2012 without obtaining environmental clearance, therefore it is a case of **violation** of E(P)A, 1986 and EIA notification 2006. The Project was considered for Environment clearance in the 3rd meeting dated 16th-18th January 2013. During this 3rd meeting, the Committee sought additional information as follows:

- (i) Details of the land use of the study area
- (ii) Primary survey of flora and fauna
- (iii) Conservation plan for Scheduled-I species
- (iv) Plan to protect people from seismicity.
- (v) Detailed studies on the tribal people and their dependency on the natural resources of the study area.

The proposal was re-considered in EAC meeting held during November 20-22, 2013. The Committee was of the view that the information submitted was not satisfactory, therefore, the proposal was deferred. On submission of the required information, the Proposal was re-considered in the present meeting. Based on the presentation made and discussion held, the Committee **recommended** the proposal subject to fulfillment of violation of E(P)A, 1986 and EIA notification 2006.

(2.59). Muktyala Limestone Mine of M/s. KCP Ltd. located at village Muktyala, District Krishna, A.P. (368.35ha) (Limestone: from 2.00 to 4.50 Million TPA) (Consultant: B.S. Envi-Tech(P) Ltd) - re-consideration environmental clearance.

The proposal is for enhancement of limestone production from 2.0 MTPA to 4.5 MTPA (ROM). The Muktyala Limestone Mine of M/s KCP Ltd. is located at Village Muktyala, District Krishna, Andhra Pradesh. The location is a part of Survey of India Toposheet No. 65 D/1 and the Plant site falls between 16^o 50'5.81" – 16^o50'23.54" N Latitude and between 80^o03'45.00" – 80^o04'5.67" E Longitude. The regional topography of this area is plain with gentle undulations. The proposal was considered for TOR by the Expert Appraisal Committee-1 (Industry) in its meeting held during 23-25th September, 2010. The TORs were issued by MoEF vide letter No. J-11011/347/2010-IA-II(I) dated 20-10-2010.

Limestone mining lease extends over an area of 368.35 Ha and is the own land of KCP. The Mining scheme is approved by IBM, Nagpur vide Letter no. AP/KSN/MS/LST-246-82 dated 14/12/2012. Mining is carried out by highly mechanized opencast method, which involves development of benches, drilling, blasting, loading of blasted material into dumpers, transportation of limestone to stock yard and transportation of top soil for afforestation purpose within the plant and mining lease area.

The Solid Waste generated from the Mine is waste rock. For the entire life period of the mine the waste generated is estimated as 8.1 Million Tonnes. Waste will be used for backfilling of part of mined out area. The total water requirement is 180 m³/day and this requirement will be met from supply system of the cement plant initially, and later, from the mine pit proposed to store rain water. No water will be drawn from the ground. Ground water is at a depth of 11 m below ground level and mining depth is 40 m bgl. Mining will intersect ground water table. Hydro geological studies carried out shows dewatering of 200 m³/day from the mine, which will be utilized within the mining lease area and for recharging the ground water.

It is reported that there are no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves existing/proposed within 10 km of the mine lease. There are no Schedule-I species reported in the study area. Baseline studies were carried out during Post-Monsoon Season i.e. September 2011, October 2011 and November 2011.

The Public Hearing for the proposal was conducted on 04.07.2012. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia, included, air pollution control measures to be adopted, raising of plantation, sprinkling of water etc. As per the villager's requirements, it was informed by the PP that they will give preference to the locals for employment; health issues, providing education, and assistance in vocational training etc. These have been incorporated in the Project Plan with budgetary provisions. It was reported by the PP that there is no court case/litigation pending against the project and no violation.

The estimated cost of the project (combined for expansion of cement plant, limestone mine and captive power plant) is 460 crores, with a capital cost of Rs 35 crores and annual recurring cost of 8 crores for implementation of Environmental Management Plan and Rs. 40 lakhs for various socio-economic development measures.

The proposal was placed before the EAC in its meeting held during 22nd - 24th July, 2013 wherein the Committee sought the following information:

- i. Details of land use are not mentioned in the EIA/EMP. There are discrepancies in mine plan and EIA report with regard to land use and co-ordinates
- ii. Compliance of environmental clearance from RO is not available.
- iii. Composite maps of the adjoining area shall be provided indicating all industrial units including the mine lease surrounded in the study area.
- iv. Detailed cumulative impact studies shall be carried out.
- v. A copy of approved mine plan shall be provided.
- vi. Scheduled species are reported in the study area therefore, a species specific conservation plan with budgetary provision needs to be prepared.
- vii. Base line data reported is for only 2 months, baseline studies shall be carried out and data shall be submitted as per IMD seasons.
- viii. Details of measures to be taken to conserve the Krishna River.
- ix. Mine working will intersect ground water a hydrogeological study shall be carried out and report shall be submitted.

- x. Disaster management plan is generalized. Site specific disaster management plan shall be prepared.
- xi. The public hearing documents submitted are in vernacular and it is chairmanship of the public hearing is not clear.

On submission of above mentioned information the Proposal was placed in the present meeting. The proponent along with the consultant presented the case on the above points.

- (i) The discrepancies on land use in different documents were rectified and they have been made uniform in EIA and Mining plan. Similarly the Geographical Coordinates have been similar in Mining Plan, Questionnaire and EIA.
- (ii) Compliance report of Earlier Environmental Clearance signed by RO, Bangalore, was submitted. The Compliance was presented.
- (iii) The proponent displayed in the map all the surrounding mines and industries lying within 10 Km of the mine.
- (iv) Cumulative impact for the Cement plant, Thermal Power plant and Mines was presented and the values are within the NAAQ prescribed limits.
- (v) A copy of the approved Mining Plan was submitted.
- (vi) Two Schedule-I species are reported in the study area. The proponent submitted a conservation plan *with a budget of Rs 11.1 lakhs for the implementation.*
- (vii) The proponent submitted the baseline data for three months of Post Monsoon season 2013.
- (viii) The proponent gave a five year plan to reduce the water consumption from Krishna river both on Industrial and domestic sides. It was explained that the water conservation through rain water harvesting and also by going for Air cooling condensation in the power plant.
- (ix) Since the mine working is intersecting the ground water, a detailed Hydrogeological study was prepared and submitted. It was reported that the ground water is at 11m below ground level and the mining depth will be 40 m. Seepage water is pumped in the Pond at cement plant, so that the same gets percolated into the ground. The proponent has been advised to obtain the CGWA Permission for Intersecting with the ground water.
- (x) It was reported by the proponent that to avoid, disaster of inundation of mines with the Flooding of Krishna river, a 5m height wall is constructed towards river side. Photographs of the same were also shown.
- (xi) The proponent also submitted the English version of the grievance letters submitted during Public Hearing
- (xii) The eligibility of the Additional Joint Collector conducting the public hearing was raised. The proponent replied that the APPCB looks into this matter, District Collector

at Krishna District, AP, nominated him to conduct the Public Hearing. The Proponent should submit letter from District Collector's Office to the effect that the Additional district Collectors meets the eligibility criteria to conduct the Public Hearing as EIA notification.

Based on the presentation made and discussion held, the Committee decided to **defer the proposal to be brought back** to the Committee after the following information is submitted: (i) Copy of Permission from CGWA as mine working would be intersecting the ground water table; (ii) Details of commitment by PP during the public hearing held for prior EC granted in 2005 and its compliance; (iii) Details of land acquisition and compensation paid; one of the stake holders has threatened stating that he would commit suicide, during the Public Hearing; (iv) water balance of the proposed project by taking into account existing water demand and subsequent mine pit water use with year wise details; and (v) letter from SPCB regarding the rank of Officer who chaired the Public Hearing.

(2.60). Limestone Mine of M/s Penna Cement Industries Ltd., Talaricheruvu village TadipatriMandal, District-Anantpur, A.P. (106.86 ha)(1,50,000TPA) (Consultant: B.S. Envi-Tech, Hyderabad) - re-consideration environmental clearance.

The proposal is for opening a new mine in the Mine Lease Area of 106.86 ha located at Talaricheruvu Village, Tadipatri Mandal, Anantapur District, A.P. As per EIA/EMP report, the mine area falls under the Survey of India Topo sheet No. 57 I/4 & 57 J/1 and is located between 14^o58'55.55" to 15^o0'7.62" N Latitude and 78^o03'24.90" to 78^o05'9.11" E Longitude. The altitude of the mine ranges from 300 – 340 m above MSL.

The proposal was considered for TOR by the Expert Appraisal Committee in its meeting held during 23-25th February, 2011. The TORs were issued by MoEF vide letter No. J-11015/ 391 /2010-IA.II (M) dated 28.03.2011. Request for extension of TOR was considered in EAC meeting held during 16-18th April 2013. TOR extension letter was issued on 22nd May, 2013.

The proponent submitted their Application for seeking environmental clearance after conducting Public Hearing to the Ministry on 18-04-2013. The mine covers an area of 106.86 ha (94.55 ha. area is Govt. waste land, 12.31 ha area is Patta land owned by the Company). Mining will be carried out by opencast mechanized method with the help of drilling, blasting, loading and transporting equipment. The entire limestone is out cropping without any waste cover of soil or rock. Limestone mined from the mine is used for consumption in Cement Plant for the manufacture of Clinker. The mine is situated at a distance of 3.5 km from the cement plant.

There is no solid waste or top soil generation from the mine. The total water requirement of the mine is 65m³/day and this requirement will be met from supply system of the cement plant initially and later from the mine pit proposed to store rain water. No ground water will be drawn. The water table in the area as per observations from nearby villages and other available information is at a depth of about 40m from surface during summer and about 35 m during rainy season. As far as the ground water is concerned, the

formations are not permeable. The permanent ground water table is struck at more than 40 meters depth. Since average depth of mining is not more than 15 meters, it is not likely to go below the ground water table. The mining will not intersect the ground water table. The deepest level to be reached will be 294 m RL and the ground water level around this place shall be 278 m RL i.e. a depth difference of about 16m.

It has been reported that there are no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves existing/proposed within 10 km of the mine lease. There were no Schedule – I species recorded in the study area.

Baseline studies were carried out during Winter season 2011-12 covering the months of December 2011-February 2012. The Public Hearing for the Project was conducted on 26.3.2013. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia, included, air pollution control measures need to be adopted, raising of plantation, sprinkling of water etc. As per the villager's requirements, it was informed by the PP that they would give preference to locals in employment; health issues, providing education, and assistance in vocational training etc.

The estimated capital cost of the project is 10 cores. The capital cost for Environmental protection measures would be Rs 1.0 cores with annual recurring cost of Rs 10.5 lakhs. It was reported by the PP that there is no court case/litigation pending against the project and no violation.

The proposal was placed in the EAC meeting held during June 26th-28th, 2013. It was observed by the Committee that co-ordinates of mine lease as mentioned in the mine plan and EIA report were not consistent and in addition, following information was sought:

- (i) List of village(s) likely to be affected by mining activities and measures to control the impact.
- (ii) Addendum for land use and other discrepancies in EIA report as pointed out.
- (iii) Detailed baseline data of biodiversity of the study area.
- (iv) Emphasis for preventive measures for occupational health of the workers and surrounding habitation
- (v) Since during the public hearing, project was not supported, a detailed Action Plan with budgetary provisions and time frame for implementation shall be submitted.

On submission of the information, the Proposal was placed in the present meeting the Proponent informed that in order to protect the villagers from the impact of mining, the following control measure will be adopted:

- i. Wet drilling by inbuilt water injection system;
- ii. Regular water sprinkling on blasted heaps and haul roads;
- iii. Regular grading of haul roads;

- iv. Maintenances of vehicles and machinery;
- v. Plantation along approach roads, and on safety barrier zones;
- vi. Afforestation on Barrier zone;
- vii. Enclosed operator cabins for major HEMM equipment;
- viii. Bag Filter for crusher; and
- ix. Closed belt conveyor for transport of crushed limestone to plant

It was submitted by the PP that discrepancy in the EIA/EMP report had resulted due to typographical mistake which were rectified. No schedule-I species were reported in the study area. The Action Plan with budgetary provisions and time frame for implementation of issues raised during Public Hearing were not satisfactory.

Based on the presentation made and discussion held, the Committee decided to **defer the proposal to be brought back** to the Committee after the following information is submitted: (i) Letter from SPCB regarding the rank of Officer who chaired the public hearing; (ii) Submission of correct co-ordinates of the mine lease area; and (iii) Detailed Action Plan with budgetary provisions and time frame for implementation of issues raised during public hearing.

(2.61). Expansion of Manganese Ore Production from 4,275 TPA to 59,500 TPA of M/s Devkabai Velji within existing mine lease area of 46.62ha located in Village-Bokna, Tehsil-Noamundi, District-West Singhbhum, Jharkhand- re-consideration environmental clearance.

The proposal is for Manganese Ore mining at capacity of 4,275 TPA to 59,500 TPA on an area of 46.62 ha which is a forest land. The proposed Manganese ore mine is located in Village-Bokna, Tehsil-Noamundi, District-West Singhbhum, Jharkhand. The geographical co-ordinates of the mine site are 22°09'45"N - 22°10'20"N, and 85°20'5"E -85°21'20"E. The mining lease area comes under Ghatkuri Reserve Forest Com. No. 31 of Serenda Forest division. The mining area falls under Barajamda sector, which is well connected to State Capital Ranchi by State Highway No. 51 & 38 and is located at a distance of 250 Km from Ranchi. The mine is approximately 2 km west of the Barajamda Kiriburu State Highway. Chaibasa, which is the District Headquarter is approximately 75 Km from the proposed mine. The nearest railway station is Barajamda on Barbil-Gua branch of South Eastern Railway and is about 6 Km away from the mining area.

No National Park/Wildlife Sanctuary/Biosphere Reserve etc. is reported within core and buffer zone of the mine. Singhbhum elephant reserve is located at a distance of 2 km from the buffer zone of mine lease area. Gua and Tatiba Protected Forest are located at a distance of 3 km and 4 km from the buffer zone of mine lease area, respectively. Uliburu Reserve Forest is reported at a distance of 3 km from the buffer zone of mine lease area. Chhipadohar bird nesting area is located at the distance of 1 km from the buffer zone of mine lease area. The Karo River is flowing in the buffer zone of the mine at a distance of 4.5km towards east from the mine lease boundary. Two dry nullahs exist in the lease and flows from West to East and later joins the Karo River outside the mine lease. Forest Clearance for broken up forest land of 15.57 ha was granted vide letter no. 10-219/FCE1

dated April 10, 2007 and 16.846 ha vide letter no. 10-219/FCE1 dated May 26, 2010. Thus, FC is available for a total area of 32.416 ha and FC clearance for the balance forest area is yet to be obtained.

The project was appraised in the Meeting of the EAC held during December, 21-22, 2009 and TORs were prescribed to the project for undertaking detailed EIA study for the purpose of obtaining environmental clearance. Accordingly, the Ministry of Environment and Forests had prescribed TORs to the project on 18.01.2010 vide letter no. J-11015/117/2009-IA.II(M). Based on the TORs prescribed to the project, the project proponent submitted an application for environmental clearance to the Ministry on 28.10.2010. The project was considered in the Expert Appraisal Committee held during May 25-27, 2011. It was observed that the land for the waste dump was not available in the non mineralized area. In view of the same, the proposal in its present form was found to be unviable. The Committee, therefore, deferred further consideration of the proposal till the project proponent examines the proposal afresh in the light of the observation made relating to availability of land for waste disposal. The proposal was further considered in EAC in July 25-27, 2012 wherein proponent informed that borehole drilling was done and it was found that some area is available in non mineralised zone and accordingly, the Management modified their Mining Plan and other documents were also revised and submitted. Total waste generation till the conceptual period will be 9,56,236 M³, no. of waste dumps will be 3. Total waste will be backfilled. Greenbelt area will be 2.11 ha. OB dump area will be 2.16 ha. Based on the presentation made and discussion held, the EAC recommended the project for environmental clearance subject to condition that Ministry may issue EC after stage-I FC clearance for balance forest land diversion is granted and copy submitted to MOEF as per the OM dated 09.09.2011.

The proposal was further examined in the MoEF and it was noted that certified compliance report of earlier EC was not discussed in the EAC meeting therefore the proposal was referred back to EAC. The certified compliance report of the RO was discussed during the meeting. The compliance report of RO indicates that compliance was not satisfactory. The conditions of the earlier EC shall be complied and RO's field visit report shall be re-submitted. The Committee decided to **defer the proposal to be brought back** after compliance report from RO is submitted.

(2.62). The proposal, enhancement of production from 0.96 MTPA to 5.26 MTPA Birmitrapur Limestone & Dolomite Mine of M/s. Bisra Stone Limestone and Dolomite Mines located at District Sundargarh, Orissa (793.966ha) (Consultant: Earth & Environment Bhubaneswar) - re-consideration environmental clearance.

The proposal was considered by the Expert Appraisal Committee in its meeting held during 26-28th July, 2010 for prescribing TORs. The proposal was earlier considered by the Expert Appraisal Committee during its meeting held on January 23-25, 2012 wherein the Committee had sought additional information/clarifications on various related issues. The proposal is for renewal of mine lease which fell due in March, 2000 and enhancement of production of limestone to 2.83 million TPA and to 2.43 MTPA of dolomite. Mine is reported to be closed since 11.11.2011. TOR for this project was prescribed on 19.8.2010. Public hearing has been held on 21.9.2011. The mine lease area is 793.966 ha. No forestland is

involved. No National Park / Sanctuary is reported within 10 km of the mine lease. The earlier environment clearance for 0.96 million TPA capacity of limestone was granted in August, 1994. Mine working will be opencast involving drilling and blasting. Water requirement is estimated at 160 kld, which will be partly (60 kld) met from mine water and partly (100 kld) from groundwater. The proponent have obtained permission from CGWA vide letter dated 12.10.2011 for drawl of 100 KLD of groundwater. As per the post mine land use, plantation will be raised in an area of 38.82 ha. The baseline AAQ data showed the levels within permissible limit, however, it was observed that the entire study area has not been covered for AAQ monitoring. The modelling of the impact on air quality was also observed to be unsatisfactory. The issues raised during public hearing were also considered and discussed during the meeting. It was reported that there is no court case pending against the project. Cost of the Project is 3412 lakhs.

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

- (i) Compliance of the earlier EC conditions should be provided along with supporting documents.
- (ii) An undertaking by the project proponent owning the documents and the data/information contained therein should be submitted.
- (iii) It was observed that there was no monitoring station beyond 3.8 km. Data should be collected by extending the network beyond 3.8 km so as to give a representative picture of the air quality in the study area.
- (iv) It may be clearly indicated whether the data collection and analysis has been carried out by one of the accredited labs.
- (v) The modelling carried out for assessment of impacts on air environment needs to be rechecked and results furnished.
- (vi) Noise levels needs to be rechecked and reconfirmed.
- (vii) Specific safeguard measures proposed during blasting should be detailed. Based on peak particulate velocity measurements, it may be shown whether the vibrations are within limit or otherwise.
- (viii) Details of the data on biological environment should be furnished and based on the same important wildlife habitats should be identified. The Wildlife Conservation Plan should flow from the baseline data so collected.
- (ix) Action plan to address the issues raised during public hearing along with time frame and financial allocation.

It was decided that the proposal may be brought back before the Committee for its further consideration after the requisite information as mentioned above has been submitted.

Based on the additional information/clarifications submitted by the proponent, the proposal was considered further in the Expert Appraisal Committee in its meeting held during 23-25th May, 2012. The compliance of the earlier EC conditions (EC granted on 5.8.1994) was presented and discussed during the meeting. The baseline AAQ data collected was also presented. It was, however, observed that the AAQ data, representative of the entire study area, has not been collected. The protocols prescribed in this regard have also

not been followed. Even the raw data was not given. As such, it was not acceptable. It was observed that there is habitation nearby and the issues relating to vibration due to blasting have not been adequately addressed in the report. The report was not found to be satisfactory. No biological survey of the core zone was submitted. (The Biological Survey Report needs to properly demarcate as between the Core Zone and the Buffer Zone.)

Based on the presentation made and discussions held, the Committee sought additional information on the following: -

- (i) One season baseline AAQ data of the study area should be collected by proper selection of monitoring stations and following the monitoring protocol and data submitted.
- (ii) The report on blasting should be redone and submitted. It should clearly bring out the impacts on the habitation nearby. The specific type of blasting to be adopted in the project and whether it conforms to various circulars and guidelines issued from DGMS in this regard, should also be brought out.
- (iii) Baseline data on biological environment along with Wildlife Conservation Plan as was requested in the last meeting should be submitted.

It was decided that the proposal be again brought back before the Committee for its further consideration after the requisite information as mentioned above has been received. The PP submitted information as sought by the committee as per the 27th meeting of EAC held on May, 23-25th 2012.

1. One season baseline AAQ data of the study area by selecting the monitoring stations following the monitoring protocol.

2. Proposed action to minimize the impact of blasting on nearby habitation:

- (i) A number of rock breakers have been deployed to do away with secondary blasting.
- (ii) The Deep-hole blasting has been adopted instead of Short-hole drilling and blasting.
- (iii) Instantaneous firing of holes has been replaced by adopting Delay Detonators and NONEL.
- (iv) Orientation of holes is maintained in opposite direction of the locality.
- (v) Deck charging has been adopted as per requirement.
- (vi) Blasting time has been displayed in local languages (Odiya and Hindi) at all the vulnerable points intercepting the danger (blasting) zone.
- (vii) Entry to the Blasting Zone is restricted by installing barriers, waving red flags and posting guards at safe distance from the danger zone.
- (viii) Adequate no. of blasting shelters have been provided near blasting site.
- (ix) Mechanical siren and whistle are also blown to warn as additional safety measures.

3. Baseline data on biological environment along with Wildlife Conservation Plan was submitted and it was informed that the fauna of the core zone is almost nonexistent, represented by field rat, squirrels, monitor lizard, mongoose, pigeon, crow, sparrow, weaver bird and cuckoo etc. The fauna of the buffer zone has resident species like chital, barking

deer, jackal, small Indian mongoose, monitor lizard, cuckoo, crow, pigeon, sparrow and parrot etc.

For biological environment the project proponent proposed following additional measures:

- (i) Plantation of indigenous species over 61.274 ha. (43.274 Ha completed)
- (ii) Grass seeding over 5 Ha.
- (iii) Contour trenches over 10 Ha.
- (iv) Fencing of mining pit with boulder walls.
- (v) Plantation of Banyan trees @ 2000 seedling /annum for 5 yrs.
- (vi) Plantation of qualifier species in barren forest areas with boulderfencing.
- (vii) Digging up of ponds for wildlife.
- (viii) Deployment of Anti-depredation squad.
- (ix) Elephant proof trench in Bungalow Pahar RF
- (x) Signboards and awareness.
- (xi) Corpus fund.
- (xii) SMC measures (staggered trench, LBCD structure)
- (xiii) Creation of Fire lines & Fire control squad.

Based on the information submitted, presentation made and discussions held the Committee in its meeting held during April 16th-18th, 2013 sought following clarification:

- i. The proposal submitted by the PP was for grant of EC for 793.996 hectares, whereas it was noted that the mine lease area is 1099.303 hectares and not 793.996 ha.
- ii. The lease area includes Forest area of 84.691 hectares for which PP did not mention.
- iii. Approved 'Wild Life Management Plan' was not submitted
- iv. Whether it is a violation case or not.

It was informed by the PP that this is a case of violation of E(P)A, 1986 and EIA notification 2006 as excess production was done from 2006 to 2009. The prosecution report has been filed in the Court of Sub-Divisional Judicial Magistrate, Rourkela on 05.02.2014 vide Case No. 2(c)C 31/2014 to take cognizance of offence by the said court under section 15 of Environment (Protection) Act, which has been committed by the offending project and the Board Resolution by circulation no. BSLC/RESL/2014/2 dated 13.01.2014 that such violations of Environment (protection) Act, 1986 will not be repeated in the future was submitted. It was informed by the PP that mine lease area is 1099.303 ha however the current proposal is for mining block XI having area of 793.966 ha located in villages Banki, Banmunda, Raipura, Brahmammara, Jalangbira and Kansbahal. The lease area of 793.966 does not includes any forest area. The Wild Life Management Plan was also submitted by the PP. Based on discussion and deliberation held, the proposal was **recommended** for grant of Environmental Clearance.

(2.63). Mining of Sand, Stone and bajri of M/s Goyal Crushing Co. Village Manpur Devra, Tehsil- Paonta Sahib, District Sirmour, H.P. (10.53ha, 1,00,000MT/year) M/s Shivalik Solid Waste management Ltd -re-consideration environmental clearance.

The proposal is river bed sand, stone and bajri mining with proposed production of 1,00,000 TPA by M/s Goyal Crushing Company at Khasra No. 638/613/ 590/ 188/1, Village Mohkampur Nawada, Tehsil – Paonta Sahib, Distt. Sirmour, H.P. The Latitudes and Longitudes of the proposed site are 30°28'44.8" N to 30°28'30" N and 77°41'12.9"E to 77°41'12"E.

The Proposal was considered by the expert Appraisal Committee in its meeting held during 23-25th March, 2011 to determine the terms of reference for undertaking detailed EIA study. The TOR was issued by MOEF vide letter No. J-11015/18/2011-IA.II (M) dated 28th April 2011 for mining of mineral Sand, Stone and Bajri. The Proponent, after conducting Public Hearing, submitted its application to MoEF (along with minutes of Public Consultation) for seeking environmental clearance.

The mining lease area is 10.53 ha which is a river bed. The mining plan is approved by Geology wing of Industry department, Himachal Pradesh. The mining plan is approved by State Geologist vide letter No Udyog-Bhu (Khani-4) Laghu-518/09-5307 dated 10.9.2013.

The mining method is manual using hand tools for collection of sand stone and bajari from the river bed. 7,500 metric tonnes of silt and clay will be produced per year which will be used for back filling the pits. There is no intersection of ground water as mining would be carried out for one meter depth only. It was reported by the PP that there is no protected area viz wild life Sanctuaries/ Tiger Reserve/ National Park/ Schedule I species etc. within 10km of the mine.

Baseline studies were carried out during pre monsoon/ summer season 2011. All the parameters of water and air quality were within permissible limits. The public hearing for the project was conducted at village Nawada Tehsil Paonta Sahib on 17-05-2012. The Public Hearing was chaired by ADC (District Sirmour). The issues during the public hearing were also considered and discussed during the meeting, which inter-alia, included that mining activities are carried out as per stipulated guidelines, sprinkling of water etc. as per villager's requirements, it is informed by the Project Proponent that they would give preference to the locals for employment, invest funds for social development in the area etc. These have been incorporated in the Project plan and budgetary provisions.

The cost of Environmental protection measures is Rs 4.95 lakhs. Project Proponent has made provision of free building material for school, religious building etc in consultation with Village Panchayat under CSR. It is reported by Project Proponent that there is no court case / litigation against the project and no violation.

The proposal was considered in EAC in its meeting held during 25th - 27th September, 2013, the proposal was deferred for want of following information: (i) Revised EIA/EMP

report along with Questionnaire, and (ii) details of replenishment study. On submission of the information, the proposal was considered in the present meeting and based on discussion and deliberation the proposal was **recommended** for grant of EC with additional specific conditions: (i) Annual replenishment report certified by an authorized agency shall be submitted to Regional Office of MoEF. In case the replenishment is low, the mining activity/production levels shall accordingly be decreased/stopped.

(2.64). Graphite & Kyanite Mine of M/s Karnataka Mining Industries, Village Shantipura, Taluka H.D. Kote, Distt. Mysore, Karnataka (53.0157ha) (5000 TPA) - re-consideration environmental clearance.

The proposal is for Graphite and Kyanite Mine of M/s Karnataka Mining Industries located at village Shantipura, Taluka-Heggadevanakote, Distt.- Mysore (53.0157ha) (5,000 TPA). The Latitudes and Longitudes of the site are 12°0'57.9"N to 12°01'45.8' N and 76°24'38.1" E to 76°25'26.2"E. The total area of mining lease is in non-forest land. The proposal is for production of 5,000 TPA of Kyanite and Graphite. The proposal was placed in the EAC meeting during 25-27 August 2010 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/216/2010-IA.II(M) dated 4th October, 2010.

The mine lease area is 53.0157 ha, and the entire area is non-forest land. The Mining plan is approved by IBM vide Letter No. 279/655/99/BNG/754 Dated 16/02/2012 for production of 5000 MTPA of Graphite and Kyanite Ore. No forestland is involved. The proposal involves collection of float ore only from the surface and up to a maximum depth of about 1.2 meters. No drilling or blasting or use of heavy machinery is involved. The use of excavator cum loader may be done in case of shortage or unavailability of labour. It has been stated that after the collection of float ore, the soil gets upgraded in its fertility and the lands begin to yield better crops. Life of mine is 20 years. The water requirement for the project is estimated as 0.1 kld. No waste will be generated. All the soil and finer material generated during float ore mining will be put back into the site and land levelled for further agriculture use. For the internal transport, tractor is used to shift the material from working site to the stock yard.

A letter from conservator of forest, Mysore was submitted stating the distance of Bandipur national park from project site is 9.20 km and Nugu State Wildlife Sanctuary is located at 7.96 km from project site. The PP submitted letter from Conservator of Forest and Director, Bandipur Tiger Sanctuary, stating that Shantipura and Hunuganhalli, Kyanite and Graphite collection, does not fall in the limits of the Eco-Sensitive Zone. In addition the Deputy Conservator of Forest, Wild life Mysore, in his report has stated that though Nugu Wildlife Sanctuary and Bandipur National park were included in eco-sensitive zone, there is no separate proposal to declare them as an independent eco-sensitive zone. There are no Schedule – I species recorded in the study area. In accordance to the TORs issued by MoEF the Proponent has submitted the EIA/EMP Report to the Ministry. Further on re-consideration the PP submitted the baseline data for the three months post monsoon period from October 2013 to December 2013, duly conducted by Mineral Engineering services. The

baseline AAQ data showed the levels to be within permissible limits.

The Public Hearing for the Proposed Project was conducted at Shantipura Village on 02.11.2011. The PH was chaired by Shri Naganayak Addl. Deputy Commissioner Mysore District. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia included permission from the agriculturists, location of sensitive areas around the mines, medical facilities and periodic health checkup etc. It was reported that there is no court case pending against the project. The total cost of the project is about Rs. 3.55 Lakhs and the proposed expenditure on the maintenance of the environment, i.e recurring cost is Rs. 1.80 lakhs.

The project was considered in EAC meeting during June 20-22, 2012 for grant of environment clearance based on the discussion in the EAC following additional information was sought:

- (i) Date-wise AAQ data collected should be submitted systematically.
- (ii) A copy of letter of intent / grant of mine lease should be submitted.
- (iii) Location of Bandipur National Park w.r.t. the mine lease should be furnished. A map duly authenticated by Chief Wildlife Warden showing the distance of the Bandipur National Park and any other such location w.r.t. the mine lease should be furnished.
- (iv) A plan for diversion of nallah/channel upstream so as to ensure that there are no gully formation should be furnished.
- (v) Detailed response and action plan on the issues raised during public hearing and to address the same should be furnished.
- (vi) Permission obtained from the land owners for use of their agriculture land for mining and the details of the compensation to be paid to the land owners should be submitted.

On submission of information proposal was considered in the EAC meeting held during July 22-24, 2013. PP had submitted a copy of Mine lease granted on 28.03.2002 valid for a period of 20 years i.e. 27.03.2022. A letter from conservator of forest, Mysore was submitted stating the distance of Bandipur national park from project site is 9.2 km and Nugu State Wildlife Sanctuary is located at 7.96 km from project site. It was informed by the project proponent that no seasonal nallah is affected since the mining proposed is manual removal of float-ore to depth of 1.2 m maximum leaving a safety barrier of 10m on either side of the nallah. Small Check Dams along seasonal nullah will be constructed to prevent flow of sediments, if any, during rainy season outside the mining lease. Culverts will be constructed wherever the Nallah is passing through the road. The issues raised during public hearing and action plan prepared were discussed and the permission obtained from the land owners for use of their agriculture land for mining was also submitted.

Mine lease was granted on 28th March, 2002 and operated during 2004–2006. The PP informed the committee that as per as per MoEF circular dated 28th October, 2004, the mining projects of major minerals of more than 5 ha lease area which have so far not

obtained EC under EIA Notification, 1994 shall do so at the time of renewal of their lease. The Committee therefore was of the opinion that it was **not a violation case**. The Committee after deliberation decided to defer the proposal, and sought the following information:

- (i) The baseline data for only one month was collected, three months post monsoon data needs to be submitted.
- (ii) Details of Schedule I species shall be provided and if schedule I species are found in the area, a species specific conservation plan in consultation with the State Government shall be submitted.

On submission of information the proposal was placed in the present meeting. The PP submitted the baseline data for the three months post monsoon period from October 2013 to December 2013, duly conducted by Mineral Engineering services. There are no Schedule – I species recorded in the study area. The PP has informed that the following CSR activities has been done Construction of community hall, Renovation of Sri. Narshimswamy Temple, Construction of Ganapati Temple in Itna Village, Renovations of Temple in Thoravalli Village, Distribution of books to the students of government school. Based on discussion and deliberations held, the Proposal was **recommended** for grant of Environmental Clearance.

(2.65). Graphite & Kyanite Mine of M/s. Karnataka Mining Industries located at village hunagahalli, taluka - Heggadaevanakote, Distt.- Mysore (60.7ha) (10,000 TPA) - re-consideration environmental clearance.

The Graphite and Kyanite Mine of M/s Karnataka Mining Industries is located at village Hunaganahalli, Taluka - Heggadevanakote, District Mysore (60.7ha) (10,000 TPA). The Latitudes and Longitudes of the site are 12°03"18.5'N to 12°03"56.7' N and 76°25"0.9'E to 76°25"34.8'E. The total area of mining lease is in non-forest land. The proposal is for production of 10,000 TPA of Kyanite and Graphite. The proposal was placed in the EAC meeting during 25-27 August 2010 for determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/217/2010-IA.II(M) dated 4th October, 2010.

The mine lease area is 60.7ha, and the entire area is non-forest land. The Mining plan is approved by IBM vide Letter No. 279/828/2005/BNG/749 Dated: 16/02/2012 for production of 10,000 MTPA of Graphite and Kyanite Ore. The proposal involves collection of float ore only from the surface and up to a maximum depth of about 1.2 meters. No drilling or blasting or use of heavy machinery is involved. The open cast method of mining done by manually by using hand tools like crow bars spades chisels and hammers. The deployment of excavator cum load may be done in case of shortage or unavailability of labour. It has been stated that after the collection of float ore, the soil gets upgraded in its fertility and the lands begin to yield better crops. Life of mine is 15 years. The water requirement for the project is estimated as 0.1 kld. No waste will be generated. All the soil and finer material generated during float ore mining will be put back into the site and land levelled for further agriculture use. For the internal transport, tractor shall be used to shift the material from

working site to the stock yard.

A letter from conservator of forest, Mysore was submitted stating the distance of Bandipur national park from project site is 17.10 km and Nugu State Sanctuary is located at 10.64 km from project site. There are no Schedule – I species recorded in the study area. In accordance to the TORs issued by MoEF the Proponent has submitted the EIA/EMP Report to the Ministry. Further on re-consideration the PP submitted the baseline data for the three months post monsoon period from October 2013 to December 2013, duly conducted by Mineral Engineering services. The baseline AAQ data showed the levels to be within permissible limit.

The Public Hearing for the Proposed Project was conducted at Shantipura Village on 02.11.2011. The PH was chaired by Shri Naganayak Addl. Deputy Commissioner Mysore District. The issues raised during public hearing were also considered and discussed during the meeting, which inter-alia included permission from the agriculturists, location of sensitive areas around the mines, medical facilities and periodic health checkup etc. It was reported that there is no court case pending against the project. The total cost of project is about Rs. 3 Lakhs and the proposed expenditure on the maintenance of the environment, i.e recurring cost is Rs. 0.75 lakhs.

The project was considered in EAC meeting during June 20-22, 2012 for grant of environment clearance based on the discussion in the EAC following additional information was sought:

- (i) Date-wise AAQ data collected should be submitted systematically.
- (ii) A copy of letter of intent / grant of mine lease should be submitted.
- (iii) Location of Bandipur National Park w.r.t. the mine lease should be furnished. A map duly authenticated by Chief Wildlife Warden showing the distance of the Bandipur National Park and any other such location w.r.t. the mine lease should be furnished.
- (iv) A plan for diversion of nallah/channel upstream so as to ensure that there are no gully formation should be furnished.
- (v) Detailed response and action plan on the issues raised during public hearing and to address the same should be furnished.
- (vi) Permission obtained from the land owners for use of their agriculture land for mining and the details of the compensation to be paid to the land owners should be submitted.

On submission of information proposal was considered in the EAC meeting held during July 22-24, 2013. PP had submitted a copy of Mine lease granted on 28.03.2002 valid for a period of 20 years i.e. 27.03.2022. A letter from conservator of forest, Mysore was submitted stating the distance of Bandipur national park from project site is 17.10 km and Nugu State Wildlife Sanctuary is located at 10.64 km from project site. It was informed by the project proponent that no seasonal nullah is affected since the mining proposed is manual collection of float ore to a depth of 1.2 m maximum leaving a safety barrier of 10m

on either side of the nullah. Small Check Dams along seasonal nullah will be constructed to prevent flow of sediments if any during rainy season outside the mining lease. Culverts will be constructed wherever the Nullah is passing across the road. The issues raised during public hearing and action plan prepared were discussed and the permission obtained from the land owners for use of their agriculture land for mining, was also submitted.

Mine lease was granted on 28th March, 2002 and operated during 2004–2006. The PP informed the committee that as per MoEF dated 28th October, 2004, the mining projects of major minerals of more than 5 ha lease area which have so far not obtained EC under EIA Notification, 1994 shall do so at the time of renewal of their lease. The committee therefore was of the opinion that it was **not a violation case**.

The Committee after deliberation decided to defer the proposal, and sought the following information:

- (i) The baseline data for only one month was collected, three months post monsoon data needs to be submitted.
- (ii) Details of Schedule I species shall be provided and if schedule I species are found in the area, a species specific conservation plan in consultation with the State Government shall be submitted.

On submission of information the proposal was placed in the present meeting. The PP submitted the baseline data for the three months post monsoon period from October 2013 to December 2013, duly conducted by Mineral Engineering services. There are no Schedule – I species recorded in the study area. The PP has informed that the following CSR activities have been done viz: Construction of community hall, Renovation of Sri. Narshimswamy Temple, Construction of Ganapati Temple in Itna Village, Renovations of Temple in Thoravalli Village and Distribution of books to the students of government school. Based on discussion and deliberations held, the proposal was **recommended** for grant of Environmental Clearance.

(2.66). Proposed Project of Chromite Underground Mine of M/s Balasore Alloys Ltd., Village Kaliapani, Tehsil Sukinda, Distt. Jajpur, Orissa (64.463 ha) (expansion from 0.42 MTPA to 0.6 MTPA and change in technology from opencast to opencast and underground) (Consultant: J.M. Environet Pvt. Ltd.) - re-consideration environmental clearance.

The proposal is for existing Kaliapani Chromite Mine (ML Area – 64.463 Ha.) at Village Kaliapani, Tehsil : Sukinda, District : Jajpur (Odisha). The Latitude & Longitude of the site is 21°00'07"-21°02'46"N and 85°44'12" - 85°47'22" E. The proposal was considered by the Expert Appraisal Committee (Mining) in its meeting held during 25th-27th July, 2012 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/139/2012-IA.II (M) dated 11th October, 2012 in the name of M/s. Balasore Alloys Ltd.

The compliance report of the EC conditions stipulated by MoEF, New Delhi vide letter

no. J -11015/341/2006-IA.II (M) dated 3rd July, 2007 were discussed. It was noted that the conditions stipulated in earlier EC were by and large complied and no specific condition is required in this regard.

The total mine lease area is 64.463 ha is Government Land. Modified Mining Scheme is approved by IBM vide letter no. 314(3)/2012-MCCM (CZ)/MS -11 dated 17.12.2012 under rule 10 of MCDR 1988. This is a proposal for expansion in production capacity from 0.42 MTPA & 0.6 MTPA and Change in Technology from Opencast to Opencast & Underground including mining of blocked pillars in open pit mines by Drift & Fill mining method. The Opencast process will be done by mechanized method involving drilling & blasting, loading and transportation of the excavated material. Wet drilling is performed by 100 mm dia DTH drills associated with compatible size compressors. Non cap sensitive slurry of 83mm dia cartridge like Aqua dyne, as column charge and for secondary blasting Aqua dyne – 25 explosive cartridge of 25 mm dia will be adopted.

The total mineable reserves are 26.89 Million Tonnes. The anticipated life of mine is approximately 45 years. It was reported by the PP that the total waste generation at the end of the life of the mine will be 4.08 million cum. At the conceptual stage, about 32.34 ha area will be covered under waste dump. The same will be stabilized by plantation.

Total fresh water requirement for the project is 347.2 KLD, out of which 220 KLD is required for beneficiation Plant, 115 KLD for mining operations & Green belt and 12.2 KLD for Domestic/drinking purpose. The requirement is being met from mine discharge water & borewell. Necessary Clearance from CGWA, Ministry of Water Resource, Govt Of India for withdrawal of 53 KLD of water from bore well and 294.2 KLD of Mine Dewater with a total amount not exceeding 347.2 KLD has been obtained vide letter No. 21-4(44)/SER/CGWA/2008-1845 Dated 11.10.2013.

It was reported by the PP that during Underground mining, ground water table shall be intersected. NOC has been obtained from CGWA, Ministry of Water Resources, Govt. Of India Vide letter No. 21-4(44)/SER/CGWA/2008-1845 Dt.11.10.2013 for Ground water intersection.

There is no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant Reserves (existing or proposed) etc. exist within the study area (10 km radius of the mining lease boundary). There are two protected Forests and three Reserved Forests exist within 10 km radius of the mining lease boundary. Baseline data for Site-specific Micro-meteorological data, ambient air quality (PM₁₀, SO₂ and NO₂), water quality, noise level, soil and flora and fauna was collected during Post Monsoon Season 2012 (Oct to Dec-2012). Results are found within permissible limits.

The Public Hearing for the Project was conducted at Kaliapani Village on 04.04.2013. The Public Hearing was chaired by Mr. Chakrayudha Hota, Additional District Magistrate as per EIA Notification, 2006. Major issues raised during public hearing were related to treatment of Mine Drainage Water, Air pollution and control measures, ground water depletion in mining lease area, provision of check dams for irrigation of agricultural land,

deforestation and peripheral development (education, health service, drinking water supply and Employment). Total cost of the project is Rs. 599.0 Crores. Capital cost for Environment Protection Measures has been earmarked Rs. 82.5 Crores along with annual recurring cost Rs. 75.7 Lakh/year.

The proposal was placed before the EAC in its meeting held during 31st October & 1st November, 2013 wherein Committee sought following information: (i) Mine lease area as per mine plan shall be given in EIA report, (ii) Occupational health issues need to be detailed, (iii) Details of flora and fauna shall be resubmitted and authenticated by State Government, (iv) Seven schedule-I species are reported in the study area for which, species specific conservation plan needs to be submitted, (v) Action plan along with budgetary provisions regarding issues raised during public hearing shall be provided, and (vi) Commitment made by PP during the public hearing held for prior EC granted in 2007 and its compliance shall be provided.

On submission of information, the proposal was placed in the present meeting. The PP submitted that the total mine lease area is 64.463 ha. Measure such as ETP, regular monitoring of ground & surface water, control of noise & dust pollution etc will be done. Authenticated list of flora and fauna was submitted. On re-authentication, the two Schedule-II species were reclassified as Schedule-I species (i.e. Bengal Monitor Lizard and Yellow Monitor Lizard). Species Specific Conservation plan for 9 schedule-I species (i.e. Leopard, *Panthera pardus*; Elephant, *Elephas maximus*; Sloth bear, *Melursus ursinus*; Ratel, *Mellivora capensis*; Indian pangolin, *Manis crassicaudata*; Peafowl, *Pavo cristatus*; Indian rock python, *Python molurus*; Monitor lizards, Bengal & Yellow monitor) was submitted. The action plan for public hearing and compliance to the Commitment made by PP during the public hearing held for prior EC granted in 2007 was also discussed and found satisfactory. Based on discussion and deliberation held, the proposal was **recommended** for grant of Environmental Clearance with additional specific conditions that (i) mining shall not commence without necessary permissions for drawl of water; (ii) Mitigation measures such as well-designed ventilation network within underground mine, provision of Personal Protective Equipment should be ensured and necessary training and awareness programs for mine workers should be undertaken; (iii) Continuous monitoring of Mine water should be done and Reports furnished; (iv) Continuous monitoring of all drinking water sources for Cr(VI) of Mine water should be done and Reports furnished; and (v) Morbidity pattern which is a sensitive indicator of ill health with regard to Cr related diseases need to be done.

(2.67). KJST Iron Manganese and Bauxite Mines of M/s Prabodh Mohanty, Village Kalmang, Jaldihi, Sidimba & Tantigram, Distt. Sundergarh, Orissa (188.523 ha) - re-consideration environmental clearance.

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

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

The mine lease area is 188.523 ha which is entire forest land. Mining scheme is approved by IBM, Govt. of India vide letter no. 314(3)/2010-MCCM (CZ)/MS-40 dated 6th April, 2011. The project proponent made a presentation with regard to compliance of earlier EC granted to the project vide no. J-11015/417/2006-IA.II(M) dated 28.01.2008 for 0.7 MTPA iron and 50,000 TPA of bauxite.

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

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

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

The cost of the project is Rs 39.64 Crores. The capital cost for EMP is Rs. 26 lakhs and recurring cost for EMP is Rs. 24 Lakhs/annum. The amount earmarked for socio-economic welfare measures for nearby villages other than R&R plans is 144.20 lakhs. It was

reported by the PP that there is no court case/litigation pending against the project and no violation.

The proposal was placed before the EAC in its meeting held during January 27-28, 2014, wherein Committee sought following information:

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

On submission of information the proposal was placed in the present meeting. The PP submitted the transportation map from mine to koira junction and informed that road leading to and from Koira junction is being widened to four lanes by the mining companies on their own cost and other measures such as deployment of security guards to regulate traffic and wheel mounted crane to pull brake down vehicles have been taken. The monitoring data of ground water level and DGPS map of the mine lease area by ORSAC was submitted. It was informed that no Schedule-I species has been found in the area and pp also submitted a site specific wildlife conservation plan of the project approved by Chief wildlife warden, Bhubaneswar vide letter no. 3963/wl(c) fc-384/2009 dated 03.07.2009. Based on discussion and deliberations held, the proposal was **recommended** for grant of Environmental Clearance.

Consideration of TOR Proposals

(2.68). Colour Granite Mine of M/s Sri Yanamala Madhusudan Raju located at village, Palasamandal, Srikakulam District, Andhra Pradesh, (4.815 ha) (3,600m³/Annum of Colour Granite) (Consultant: B.S. Envi-Tech(P) Ltd)- TOR

The Project Proponent did not attend the meeting. The Committee also noted that it is a Category 'B' project. Therefore Committee was of the view that proposal shall be transferred to the concerned SEIAA.

(2.69). Sand Mine of M/s. District Water Management Agency (DWMA) located at Lankapalli (V), Pamidimukkala Mandal, Krishna District, Andhra Pradesh (8.134 ha) (81,340 M³/annum) (Consultant: Sri Sai Manasa Natuare Tech(P) Ltd. Hyderabad) - TOR

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

(2.70). Iron Ore Mine of M/s. Anjani Mines and Minerals located at Chabali & Thummalur villages, PendlimarriMandal, YSR Kadapa District, Andhra Pradesh. (208.30 ha; Capacity 0.5 MTPA) (Consultant: B.S. Envi-Tech(P) Ltd) - TOR

Chabali & Thummalur Laterite & Iron Ore Mine is located at Chabali & Thummalur Villages, Pendlimarri Mandal, Cuddapah District of Andhra Pradesh. The mine area is a part of the Survey of India Toposheet No. 57J/11 and falls between 14°27'59" to 15°29'39" North latitude and 78°36'46" to 78°37'39" East Longitude

The mine is opencast with the conventional system of mining, which includes drilling, blasting, loading and transportation. The Water requirement is 60 m³/day and is met from borewells. Intercalated waste to the tune of 0.754 million tonnes and overburden waste of 1.74 million tonnes will be generated up to life of mine. The intercalated waste/over burden produced regularly is being used to refill the excavated pit on which plantation will be made.

It was reported by the PP that there is no protected area viz. wild life Sanctuaries/ Tiger Reserve/ National Park/ Schedule I species etc. within 10km of the mine. It was reported by the PP that no court case/litigation is pending against the project. The estimated capital cost of the project is Rs. 1.35 crores.

It was observed by the Committee that this is a case of **violation** of E(P)A, 1986 and EIA notification 2006 as the mine was operated from 2005 to 2013 without obtaining EC. Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per **Annexure-I** with additional TORs:

- (i) The report on the analysis/testing of water, air, soil, noise etc. by the MoEF/NABL accredited laboratories.
- (ii) The scope of accreditation for the mentioned parameters.
- (iii) All the original copies of testing/analysis report should be made available during appraisal of the project.

(2.71). Limestone Mine of M/s. Sree Jayajothi Cements Ltd. located at Village – Palkur, Mandal – Banaganapalle, District – Kurnool, Andhra Pradesh. (149.392 ha)(0.40 MTPA) (Consultant: B.S. Envi-Tech(P) Ltd) - TOR

Palkur Limestone Mine Lease (New Mining Lease) is located at Palkur Village, Banaganapalle Village, Kurnool District of Andhra Pradesh. The Mine site falls between 15° 23' 57.3" to 15° 24' 51.00" N Latitude and between 78° 11' 41.9" to 78° 13' 8.7" E Longitude.

Mechanized method of mining will be adopted. The limestone produced will be crushed in the mine and transported to cement plant by conveyor. Water requirement for the proposed mine is about 40 m³/day. No wastewater is generated from the Mine. Waste water generated from domestic use will be treated in septic tank followed by soak pit.

It was reported by the PP that there is no protected area viz wild life Sanctuaries/ Tiger Reserve/ National Park/ Schedule I species etc. within 10km of the mine. It was informed by the PP that no court case/litigation is pending against the project. The estimated capital cost of the project is Rs. 3 crores. It was suggested by the Committee that EIA/EMP Report and Mine Plan shall be made considering the 50 m, of safety zone from the road adjoining the MLA.

PP informed the Committee that in anticipation of getting TOR they have started monitoring of Baseline data from March 2014 and requested for permitting the use of this data for preparation of EIA report. Committee accepted the request of PP for collection of baseline data from March 2014 onwards. Based on the information furnished and presentation made by the project proponent and discussions held, the Committee **prescribed** the TORs for undertaking detailed EIA study as per **Annexure-I** with additional TORs:

- (i) The report on the analysis/testing of water, air, soil, noise etc. by the MoEF/NABL accredited laboratories.
- (ii) The scope of accreditation for the mentioned parameters.
- (iii) All the original copies of testing/analysis report should be made available during appraisal of the project.

(2.72). Limestone Mine of M/s. Sree Jayajothi Cements Ltd. Located at Village-Palkur, Mandal-Banaganapalle, District- Kurnool Andhra Pradesh. (149.392ha)(0.40 MTPA) (Consultant: B.S. Envi-TECH(P) LTD) - TOR

The proposal is the one listed at item no. 2.71, this was inadvertently repeated in the agenda.

(2.73). Iron Ore Mines of M/s. NMDC Ltd., located at Bailadila range of hills in Bacheliland kirandul Complex in South Bastar Dantewada District, C.G. (33 ha.) Capacity of Iron Ore Beneficiation Plant to produce 4MTPA Iron Ore Concentrate. Area: 33 hectares of forest land. Slurry pipe line capacity 15 MTPA Length: Bacheli to Nagarnar (150km) Diameter: 24 inches NB (Consultant: Ecomen Laboratories Pvt. Ltd. Lucknow) - TOR

The proposal is for Installation of Iron Ore Beneficiation Plant to produce 4MTPA Iron ore concentrate (in slurry form) & slurry pipeline of 150 km long and 24 inch dia from Bacheli to Nagarnar to transport ore concentrate in Slurry form. The feed for the proposed ore processing plant shall be available from Deposit 5 and the required slimes are met through de-silting of the tailing dam pond.

The Beneficiation Plant of 4 MTPA capacity shall be installed in an area of 33 ha which is forest land in Bacheli complex, Village – Bacheli, Tehsil – Dantewada, District- South Bastar, Dantewada, Chhattisgarh. The Plant area is between 18°41'7.5" to 18°41'44.60" North Latitude and 81°15'16" to 81°14'36 East Longitude and is in Survey of India

Toposheet No. 65F/2 and 65F/6. Beneficiation Plant will produce Blast Furnace grade Pellet feed concentrate (iron ore concentrate in slurry form) having chemical composition: Fe \geq 64.5%, Alumina \leq 1.80%, Silica \leq 3.00%.

Slurry pipeline line will be laid underground starting from Beneficiation plant at Bacheli and end point shall be at Nagarnar, Tehsil Jagdalpur, District Bastar. The alignment moves along the road crossing Dantewada to join NH-16 near Geedam, moving east along N.H, the route takes a detour to avoid Jagdalpur main city and terminates at the terminal at Nagarnar. The capacity of Slurry Pipeline is designed for carrying 15 MTPA keeping in view of total evacuation requirement of iron ore from Bailadila Sector. Application for 33ha of forest land has been submitted by NMDC to forest department on 30/10/2012 for diversion of forest land for beneficiation plant.

For laying the slurry pipeline by NMDC, GoI has published Gazette Notification on 3.8.12. For slurry pipe line, Reconnaissance Survey was completed based on which the detailed route survey work is in progress by WAPCOS. After completion of the survey, wherever slurry pipeline alignment passes through forest land, necessary permission will be obtained from the Forest Department for Right of way /Right of use of forest land for laying slurry Pipeline. Estimated indicative cost of project is Rs.1595 Crores. Estimated indicative Electricity requirement is 40.414 MVA.

It was reported by the PP that there is no protected area viz wild life Sanctuaries/ Tiger Reserve/ National Park/ Schedule I species etc. within 10km of the mine. PP informed the Committee that in anticipation of getting TOR they have started monitoring of Baseline data from March 2014 and requested for permitting the use of this data for preparation of EIA report. Committee accepted the request of PP for collection of baseline data from March 2014 onwards.

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

- (i) The report on the analysis/testing of water, air, soil, noise etc. by the MoEF/NABL accredited laboratories.
- (ii) The scope of accreditation for the mentioned parameters.
- (iii) All the original copies of testing/analysis report should be made available during appraisal of the project.

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

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

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

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

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

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List of Participants

1. Dr. S. Subramaniyan Chairman
2. Dr. L. Ajay Kumar Member
3. Shri P.K. Verdia Member
4. Prof. G.S. Roonwall Member
5. Dr. S. K. Peshin Member
6. Dr. D Mohamed Kizhar Irshath Member
7. Dr. V.P. Upadhyay Director, MoEF Member Secretary
8. Dr. Sonu Singh, Deputy Director, MoEF
9. Dr. R. B. Lal, Deputy Director, MoEF
10. Representatives of M/s Sanjay Mangal, Vijay Mangal and Akshay Mangal,
11. Representatives of M/s TATA Chemicals Ltd. ,
12. Representatives of M/s JSW Steel Limited,,
13. Representatives of M/s Khushal Arjun Rathore,
14. Representatives of M/s Rajhans Refractories Ltd.,
15. Representatives of M/s Mahendra Prasad Mithal,
16. Representatives of M/s Jaiprakash Associate Ltd.
17. Representatives of M/s Veer Durgada Minerals Pvt. Ltd.,
18. Representatives of M/s Mandhan Minerals Corporation,
19. Representatives of M/s Hanuman Prasad Singhania,
20. Representatives of M/s Raw Products Plasters & Fertilizers (Mines),
21. Representatives of Shri Sanjay Jaglan S/o Shri Raj Singh Arya
22. Representatives of M/s SRS Natural Resources Ltd.,.
23. Representatives of M/s Astin Excavation Mining Pvt Ltd.,
24. Representatives of M/s Dkrrish Builders Pvt. Ltd.
25. Representatives of M/s Yamuna Infra Developer Pvt. Ltd
26. Representatives of M/s. Associated Soapstone Distributing Co. Pvt. Ltd
27. Representatives of M/s Lotus Infrastructure,
28. Representatives of M/s Vipin Gupta S/o Shri G. K. Gupta,
29. Representatives of M/s Garhwal Mandal Vikas Nigam Ltd.,
30. Representatives of by Mr. Mohd. Saeed Khan
31. Representatives of M/s. Planet Steel Pvt. Ltd.,
32. Representatives of Shri Rajvir Chauhan, S/o Shri Ranjit Singh,
33. Representatives of Sh. Devender Nagpal, S/o Shri Ramdass,
34. Representatives of M/s B.D. Mines,
35. Representatives of M/s Jaipur Infrastructure Pvt. Ltd.
36. Representatives of M/s Millennium Infra Engineer Pvt. Ltd.
37. Representatives of M/s Astin Excavation & Mining Pvt. Ltd.
38. Representatives of M/s Avj Infrastructure Pvt. Ltd.,
39. Representatives of M/s. Antheia Properties Private Limited
40. Representatives of M/s. VNS Infrastructure Private Limited,
41. Representatives of M/s Tamil Nadu Minerals Ltd.,
42. Representatives of M/s. Jai Yamuna Ji developers
43. Representatives of M/s. Rajasthan State Mines & Minerals Limited
44. Representatives of M/s. Jai Karan, S/o Shri Om Prakash
45. Representatives of M/s. Markandeshwar Construction Co.,
46. Representatives of M/s NCR Real Tech Pvt. Ltd.
47. Representatives of M/s Haryana Royalty Company,
48. Representatives of M/s Orient Abrasives Ltd.,
49. Representatives of Smt. Tamanna Begum

50. Representatives of M/s Sher Singh S/o Shri Mangal Singh
51. Representatives of M/s Abhimanyu Chaudhary
52. Representatives of M/s Ajanta Minerals
53. Representatives of M/s Mangalore Minerals (P) Ltd.
54. Representatives of M/s. Rungta Mines Limited
55. Representatives of M/S. UBR Minerals,
56. Representatives of M/s Diamond Enterprises
57. Representatives of M/s. KCP Ltd. located
58. Representatives of M/s Penna Cement Industries Ltd.,
59. Representatives of M/s Devkabai Velji
60. Representatives of M/s. Bisra Stone Limestone and Dolomite Mines
61. Representatives of M/s Goyal Crushing Co.
62. Representatives of M/s Karnataka Mining Industries
63. Representatives of M/s Balasore Alloys Ltd.,
64. Representatives of M/s Prabodh Mohanty
65. Representatives of M/s. Anjani Mines and Minerals
66. Representatives of M/s. Sree Jayajothi Cements Ltd.
67. Representatives of M/s. NMDC Ltd.,

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