

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

SUMMARY RECORD OF 9th MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The Ninth meeting of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during **August 22-23, 2016**. 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). Circulation of the Minutes of the 8th EAC Meeting

The Minutes of the 8th Meeting of EAC held during July 21-22, 2016 were circulated.

Item No. 2:

Day 1: 22nd August, 2016 (MONDAY)

CONSIDERATION OF ENVIRONMENT CLEARANCE: 10.15 AM onwards

- (2.1). J-11015/04/2015-IA-II(M) Mining of Sand (Minor Mineral from Mines/Quarries of 'Barauli-4 Sand Unit' with Production Capacity of 18,00,000 TPA (ROM) of Sand by M/s Charites, Real Estate Pvt. Ltd. , located at Village – Barauli, Tehsil – Sonipat, Distt. – Sonipat, Haryana (52.50ha). M/s Udaipur Min Tech Pvt. Ltd.**

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

The proposal was considered by the Expert Appraisal Committee in its 31st Meeting held during March 16-18, 2015 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by MoEF vide letter No. J-11015/04/2015-IA.II (M) dated 13.04.2015. The proponent submitted Final EIA/EMP to the Ministry on 16.02.2016 for seeking Environmental Clearance after conducting Public Hearing. The proposal was considered in the EAC meeting held during 25-26 April 2016 the proposal was deferred as PP did not attended the meeting.

Total mine lease area is 52.50 ha, out of which River Bed Block is 41.50 ha and Outside River Bed Block is 11.0 ha. Mining will be done in River Bed block only. No forest land is involved. The Letter of Intent (LoI) of mining lease was issued by the Director General, Mines & Geology Department, Haryana in favor of M/s Charites, Real State Private Limited having memo no. DMG/Hy/Cont/Barauli-4 Sand Unit/2015/39 dated 02.01.2015. The mining plan is approved by Director, Mines and Geology, Govt. of Haryana; vide letter no. DMG/HY/MP/SNP/Barauli-4/7675 dated 21.08.2015.

Mining will be opencast by semi-mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit. The total water requirement is 20 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by hired tankers. No ground water interception during the mining operations is envisaged as ground water table 5-10 m below the surface of river bed. The percentage of replenishment is around 100% every year. The maximum depth of mining in the riverbed will not exceed 3m from the un-mined bed level at any point of time with mining restricted to the central 3/4th width of the river. A safety margin of 2m shall be maintained above the ground water table and no mining operation shall be permitted below this level. Mining will be done leaving a safety distance from the banks. Mining will be done only during day time and completely stopped in monsoon season. The site elevation is 215.0 to 218.0 m RL. There will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure.

Mineral will be transported through road. Traffic Analysis survey has been made. Total 300 No. of trucks per day will be deployed (20 tonnes capacity each) which increase 1800 PCUs per day and the level of service (LOS) remains as "A". Roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

It was reported by the PP that no National Parks, Wildlife Sanctuaries, Tiger Reserves, eco sensitive Zones falls within study area (10 km radius of the mine boundary). Baseline data has been collected from Pre-Monsoon (March to May 2015) season, 2015 within 10 Km radius of the study area as directed in committee members. All the parameters for water, soil, noise and air quality were within permissible limits.

The Public Hearing for the proposed Project was conducted on 17.12.2015 at 10:00 am at Mine Site near village- Asadpur, Tehsil & District – Sonipat, Haryana. The Public hearing was presided over by Additional Deputy Commissioner, Sonipat. During the process suggestion, objections were invited from the local people regarding the project. Issue raised during the public hearing was like priority of employment to local people, effective implementation of measures to control dust pollution, maintenance of plants, priority for hiring the machineries to the local villagers, depth of mining and maintenance of transportation vehicles. Project Proponent has made the Action Plan

with budgetary provisions. There is no court case against this project, however there is a court case in the matter of Mr. Rajbir Singh v/s State of Haryana and others [CWP No. 27700 of 2013], wherein the petitioner had challenged the conditions of the auction notice and the rules relating to payment of rent and compensation to the land owners. The State Government (Dept. of Mines and Geology) has issued Lol subject to the outcome of this case. The above mentioned case is dismissed by Hon'ble Punjab and Haryana High Court, order dated 19.10.2015. It was informed by the PP that they have not filed any court case against any department neither they are party in this case.

The cost of the Project is Rs. 18.84 Crore the Proponent has earmarked Rs. 15.0 Lac towards Environmental Protection Measures. Rs. 12.0 Lac has been earmarked towards CSR activities.

The Committee deliberated at length the information submitted by PP and **deferred the Proposal**. The Proposal may be considered further after **receipt of following information**:

1. The replenishment study shall be done and report shall be submitted.
2. The evacuation gates w.r.t. haulage road and detailed traffic analysis shall be submitted.
3. The Transportation plan and Plantation programme is to be revised with budgetary provisions.
4. Plan on occupational health and safety shall be submitted with revised budget.
5. Revised action plan on Public Hearing shall be submitted. The concerns related to School going children were raised by the Committee. A separate action plan in this regard shall be submitted.

(2.2). J-11015/05/2015-IA.II (M) Mining of Sand (Minor Mineral) from Mines/Quarries of 'Asadpur Sand Unit' with Production Capacity of 18,00,000 TPA (ROM) of Sand by M/s Zelkova Buildcon Private Limited, located at Village – Asadpur, Tehsil – Sonipat, Distt. – Sonipat, Haryana (56.01ha). M/s Udaipur Min Tech Pvt. Ltd.

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

The proposal was considered by the Expert Appraisal Committee in its 31st Meeting held during March 16-18, 2015 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR were issued by MoEF vide letter No. J-11015/05/2015-IA.II (M) dated 17.04.2015. The proponent submitted Final EIA/EMP to the Ministry on 16.02.2016 for seeking environmental Clearance after conducting Public Hearing. The proposal was considered in the EAC meeting held during 25-26 April 2016 the proposal was deferred as PP did not attended the meeting.

Total mine lease area is 56.01 ha, out of which River Bed Block is 43.25 ha and Outside River Bed Block is 12.76 ha. Mining will be done in River Bed block only. No forest land is involved. The Letter of Intent (LoI) of mining lease was issued by the Director General, Mines & Geology Department, Haryana in favor of M/s Zelkova Buildcon Private Limited having memo no. DMG/Hy/Cont/Asadpur Sand Unit/2015/31 dated 02.01.2015. The mining plan is approved by Director, Mines and Geology, Govt. of Haryana; vide letter no. DMG/HY/MP/SNP/Asadpur/7671 dated 21.08.2015.

Mining will be opencast by semi- mechanized method. Excavation will be carried out up to a maximum depth of 3 meters from surface of deposit. The total water requirement is 20 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by hired tankers. No ground water interception during the mining operations is envisaged as ground water table 10m bgl. The percentage of replenishment is around 100% every year. The maximum depth of mining in the riverbed will not exceed 3m from the un-mined bed level at any point of time with mining restricted to the central 3/4th width of the river. A safety margin of 2m shall be maintained above the ground water table and no mining operation shall be permitted below this level.

Mining will be done leaving a safety distance from the banks. Mining will be done only during day time and completely stopped in monsoon season. The site elevation is 217.50 to 218.80 m RL. There will be construction of ramps, temporary rest shelters during operational phase and these will be removed at the time of mine closure.

Mineral will be transported through road. Traffic Analysis survey has been made. Total 300 No. of trucks per day will be deployed (20 tonnes capacity each) which increase 1800PCUs per day and the level of service (LOS) remains as "A". Roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

It was reported by the PP that no National Parks, Wildlife Sanctuaries, Tiger Reserves, eco sensitive Zones falls within study area (10 km radius of the mine boundary). Baseline data has been collected from Pre-Monsoon season, 2015 (March to May 2015) within 10 Km radius of the study area. All the parameters for water, soil, noise and air quality were within permissible limits.

The Public Hearing for the proposed Project was conducted on 16.12.2015 at 10:00 am at Mine Site near village- Asadpur, Tehsil & District –Sonipat, Haryana. The Public hearing was presided over by Additional Deputy Commissioner, Sonipat. During the process suggestion, objections were invited from the local people regarding the project. Issue raised during the public hearing was like effective implementation of measures to control dust pollution, priority of employment to local people, implementation of CSR activities, depth of mining & maintenance & speed of transportation vehicles. Project Proponent has made the Action Plan with budgetary provisions. There is no court case against this project, however there is a court case in the matter of Mr. Rajbir Singh v/s State of Haryana and others [CWP No. 27700 of 2013], wherein the petitioner had challenged the conditions of the auction notice and the rules relating to payment of rent and compensation to the land owners. The State Government (Dept. of Mines and Geology) has issued LoI subject to the outcome of this case. The above mentioned case is dismissed by Hon'ble Punjab and Haryana High

Court, order dated 19.10.2015. It was informed by the PP that they have not filed any court case against any department neither they are party in this case.

The cost of the Project is Rs. 15.70 Crore. The Proponent has earmarked Rs. 15.0 Lac towards Environmental Protection Measures. Rs. 12.0 Lac has been earmarked towards CSR activities.

The Committee deliberated at length the information submitted by PP and **deferred the Proposal**. The Proposal may be considered further after **receipt of following information**:

1. The replenishment study shall be done and report shall be submitted.
2. The evacuation gates w.r.t. haulage road and detailed traffic analysis shall be submitted.
3. The Transportation plan and Plantation programme is to be revised with budgetary provisions.
4. Plan on occupational health and safety shall be submitted with revised budget.
5. Revised action plan on Public Hearing shall be submitted. The concerns related to School going children were raised by the Committee a separate action plan in this regard shall be submitted.

(2.3). J-11015/159/2014-IA.II(M) Limestone Mine of M/s Shree Cement Ltd. located near village Semaradih & Bharuwadhih, Tehsil Balodabazar, District Balodabazar Bhatapara (531.126ha) Chhattisgarh- (Expansion 4.8 Million TPA to 8.6 Million TPA. (Consultant: J.M Enviro Net Pvt. Ltd.)

The proposal is of M/s. Shree Cement Limited for proposed Expansion in Limestone Production capacity from 4.8 Million TPA to 8.6 Million TPA (ML Area – 531.126 ha) near Villages – Semaradih & Bharuwadih, Tehsil- Balodabazar, District- Balodabazar – Bhatapara (Chhattisgarh). Study area falls between 21° 34' 36" N to 21° 37' 06" N and 82° 03' 12" E to 82° 06' 12" E on Survey of India Toposheet No. 64 K/2. The Project is located in Seismic zone-II.

Application for Environmental Clearance was submitted to MoEF CC on 5th May, 2014. The First technical presentation (for ToR Approval) was held before EAC (M) on 8th July, 2014. ToR letter for the same was issued vide letter no. J-11015/159/2014-IA. II(M) dated 12th August, 2014 and amendment in ToR dated 28.09.2015. EIA/EMP Report has been submitted online on 30th July, 2016 to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

Earlier Environmental Clearance was accorded to the project for production capacity 4.8 million TPA vide letter no. J-11011/235/2008- IA II (I) dated 7th March 2011 and amended dated 1st June, 2011 and 4th February, 2015. Compliance Report of the existing EC has been certified by Regional Office (West Central Zone), Nagpur vide letter no. 5-11/2011 (Env)/1177 dated 05.10.2015. The compliance report was discussed in the meeting and it was found that the compliance is satisfactory.

This is an existing Limestone mining project with proposed Expansion in Limestone Production Capacity from 4.8 million TPA to 8.6 million TPA. Modified Mining Plan with Progressive Mine Closure Plan for 531.126 ha area has been approved by Regional controller of Mines, Indian Bureau of Mines (IBM), vide their letter no.

Balodabazar/ Chu P/ MP/ Nagpur/ 2015/29 – Raipur dated 13.07.2016. Limestone Mining is being carried out by fully mechanized opencast method by a combination of shovel and dumper with drilling & blasting. Heavy Earth Moving Machines will also be used. Limestone from Mine is being transported up to the crusher by dumpers and to cement plant via pipe belt conveyor. Life of Mine is 24 years and total minable reserves are 203.2 million tones. At the conceptual stage, out of the total mining lease area (531.126 ha), total mined-out area will be 387.1 ha, out of which 277.1 ha area will be converted in to water reservoir and remaining 110 ha area will be backfilled. Green belt/ plantation will be done on 176 ha area. Out of total Green belt area (176 ha), 110 ha area comes under backfilled area, 21 ha area of waste dump and on 45 ha area comes under afforestation on barrier zone along lease boundary. Mining will intersect ground water table. Permission for the same has been obtained from CGWA vide letter no.21-4(36)/NCCR/CGWA/2008-569 dated: 08.04.2015 & CGWA vide letter no. 21-4(36)/NCCR/CGWA/2008-1270 dated: 06.08.2015.

The mining lease over an area of 531.126 ha was granted in favour of Shree Cement Limited vide the government order no. F-2/32/2003/12 (3) dated 25.03.2008. The mining lease period has been extended upto 50 years from 11.01.2011 to 10.01.2061 as per Section 8A (5) of M.M.D.R. Amendment Ordinance 2015. The mining operation commenced from 12th March, 2015 as Consent to operate was obtained. Total Mining lease area is 531.126 ha, out of which 78.722 ha is Government land and rest 452.404 ha area is Private land. The mining lease area falls in 2 Villages Semaradih & Bharuwadih.

A residential colony is proposed in non-mineral zone of mining lease area. Total area of colony will be 22 Ha out of which 33% area will be developed as green belt. Total residential units will be 751 numbers in 22 ha with built-up area of 111011 sq meter. All required facilities such as school, temple, shopping complex, medical health center, club house, sewage treatment and safe drinking water availability will be provided. Total water requirement for colony will be 415 and domestic waste water will be treated in STP of capacity 300 KLD.

No National Parks/Wildlife Sanctuaries/Biosphere Reserves/Wildlife Corridors/ Tiger/Elephant Reserves are located within the 10 km study area of the mine lease. Application for Authentication of Location map has been submitted to Forest Department vide letter no. SCL/Raipur/EC/2015-16 dated 26.05.2015. There is one Reserved Forest (Dhabadih Reserved Forest at ~ 0.25 km in NE direction) within 10 km radius study area. State Forest Dept. vide letter no. S. No./SDO/Ra/35 dated: 07.12.2010 has confirmed that no forest land falls within the lease area.

The baseline data was collected for the period Summer Season (March to May 2015). The analytical results of samples collected for all parameters were found within permissible limits.

Public Hearing was conducted on 22nd January, 2016 at **Sarvajanik Rangmanch in Village Khapradih, District – Balodabazar – Bhatapara (Chhattisgarh)**. The Public Hearing was presided over by Shri M. Kalyani, Additional District Collector, Balodabazar - Bhatapara as presiding officer and Shri S. K Upadahaya, Regional Officer, Chhattisgarh Environment conservation Board, Raipur (C. G.). The issues raised during Public Hearing were also considered and discussed during the meeting, which interalia, included impact of blasting, benefit of expansion project & providing

assistance for employment. The action plan with budgetary allocation was discussed in the EAC on issue raised in Public hearing.

Total cost of the Project is Rs. 74.70 crores. The Capital Cost for environmental protection measures is Rs. 1.00 crore /- & Recurring cost is Rs. 0.30 crore and Expenditure proposed towards CSR activities is Rs. 187.3 Lacs. No Litigation is pending against this project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Expansion of production from 4.8 Million TPA to 8.6 Million TPA of M/s Shree Cement Ltd. located near village Semaradih & Bharuwadhih, Tehsil Balodabazar, District Balodabazar Bhatapara, Chhatisgarh over the mine lease area of 531.126 ha.

The EAC also **recommended** the additional specific conditions: (i) The canals should not be diverted; and (ii) The 50 m buffer zone on either side of stream/canal in lease area and adjoining to the mine lease area should be maintained.

RECONSIDERATION OF ENVIRONMENT CLEARANCE

(2.4). J-11015/143/2014-IA.II (M) Limestone mine of M/s Shree Cement Ltd. located near village Kachavaram & Inuparajupalli, Mandai -Karemudi, District Guntur, Andhra Pradesh (283.585 ha.)(3.6 MTPA).

The Shree Cement Limited (SCL) proposes to produce 3.6 Million Tons Per Annum Limestone from mine located at village Kachavaram & Inuparajupalli, Mandal Karemudi, District- Guntur, Andhra Pradesh. The Mining Lease area is 283.585 hectares. Limestone mined from the mine will be supplied to the proposed cement plant at adjacent Pedagarlapadu village. The LOI was issued on 19.05.2010 by Government of Andhra Pradesh for the grant of Mining Lease over an area of 283.585 hectares for the period of 30 years. The lease area lies on River Ken. The co-ordinates of Mine Lease area are- Latitude: 16° 30' 59" to 16° 32' 55" N, Longitude: 79° 43' 03" to 79° 44' 04" E on Survey of India toposheet numbers 56P/10.

The proposal for TOR was considered by the Expert Appraisal Committee (mining) in its 21st meeting held during July 8-9, 2014 to determine TOR for undertaking details EIA study. The TOR was issued by MoEF&CC vide letter number J-1015/143/2014-IA. II(M) on dated 12th August, 2014.

The Mining Lease area is 283.585 hectare, the lease area is an agricultural land. The PP has proposed open cast mechanized mining, which includes controlled blasting and wet drilling/dry drilling with dust collector, Use of Hydraulic Excavators, Dumpers, Rock Breaker, Crushing, Stacking & Reclaiming and Motor Grader, Road Compactor. Maximum bench height would be 10 m and minimum bench width would be 20m. Ultimate pit angle slope is proposed to be kept at 45°. Limestone will be crushed by 1200 TPH crusher, which will be installed at mine lease area. Crushed limestone will be transported to cement plant by conveyor belt. Available topsoil will be stacked separately and used for plantation as well as to spread over backfilled area. Over burden and inter burden would be stacked at earmarked area and will be backfilled in worked out pit. Life of the mine is 48 years @ 3.6 Million Tonnes per Annum limestone

production. In the first five years, 0.56 Million Cubic Meter Over Burden will be generated. At the end of life of mine, 5.07 Million Cubic Meter (7.61 Million Tons) of Over Burden will be generated. The Over Burden generated will be back filled in excavated area where mineral has been exhausted.

Mining plan with mine Closure Plan has been approved on 03.08.2012 vide letter no MP/AP/GNR/Lst-243-SZ/462. Baseline data was generated from 1st December 2014 to 28th February 2015. Baseline study was conducted around 10 km area from the Mining Lease area. Ambient air samples from 8 locations were analyzed for PM_{2.5}, PM₁₀, SO₂, NO₂, nickel, lead, zinc content. Silica content was measured for PM₁₀. The air quality was found to be meeting the National Standards. Noise levels were monitored at 8 locations and levels were found to be meeting the National Standards. Total water requirement for dust suppression, green belt development, drinking and utility purpose will be 120 kl/day which will be sourced from ground.

The terrain of the site is almost flat. It was reported by the PP that no forest land in the lease area. No national park & wildlife sanctuary is present in 10 KMs. radius of area. Madinapadu Reserve Forest is present at a distance of ~9.5 km. in North direction. Nearest railway station is Nadikudi, 6 km in North direction. Nearest Town is Dachepalli, ~5 km. in North direction. Nearest Airport is Vijayawada, ~114 km. in East direction.

The Public Hearing was conducted on 29.10.2015 at 11.00 AM at, village – Kachavaram, Mandal Karampudi District Guntur Andhra Pradesh. The Public Hearing was presided over by Sri Kantilal Dande, I.A.S. Collector & District Magistrate, Guntur. The issues raised during Public Hearing were also considered and discussed during the meeting, which inter-alia, included drinking water facility, resources Development, Medical Assistance, Sanitation Programme, Plantation Programme, Education facility, village infrastructure and employment potential. Total cost of the project is Rs. 169 Crores. Capital Cost of environmental protection measures for mine is Rs. 2.0 Crores & Recurring cost is Rs. 0.60 Crores /annum. No court cases / litigations / violations are pending against the project.

The Committee suggested the following points:

1. The Soil should be tested regularly for mercury contamination.
2. The station for continuous monitoring of air quality shall be setup.
3. The lime stone shall be transported through the Conveyor belt.
4. The effluent water used for dust suppression shall be tested for Cr 6+ and shall be treated if Cr6+ contamination is detected.
5. The mineralized zone at boundary with adjoining mine leases should be utilized for perspective of mineral conservation.

The Committee deliberated at length the information submitted by PP and **deferred** the Proposal in its meeting held during 23-24 May 2016 and sought the following information/clarifications for further consideration:-

1. The detailed R&R plan shall be submitted as per TOR -19.
2. Two villages are located at a distance of 500 meter a report on safety measures

and dust pollution in villages shall be submitted.

3. The list of species proposed to be planted as the green belt shall be revised, the list shall include the indigenous and fruit bearing trees.

On submission of point-wise requisite information by the project proponent to MoEFCC through online portal and thereafter proposal was reconsidered in EAC meeting on 22.08.2016. The following reply points were submitted by PP:

1. Based on general need assessment of the Project Affected Families, the detailed R & R plan for 159 PAF has been prepared.
 1. Training to 7 youth (ITI Holder) from PAF and then employment in the project.
 2. Training to 43 youth from PAF (Operation & Maintenance of mining) and then employment in the project.
 3. Training to 10 youth from PAF (Gardening & Housekeeping) and will provide livelihood in project (through contractors).
 4. Training to 5 youth from PAF (Driver) and will provide livelihood in project (through contractors)
 5. Training to 15 youth from PAF (Helper) and will provide livelihood in project (through contractors)
 6. Free medical facilities in proposed health management centre by the company to all PAF
 7. Vocational training to one family member of PAF for sustainable livelihood.
2. Report on safety measures and dust pollution including:
 1. Controlled Blasting technique i.e. use of shock tube detonators (Down Line Detonators in combination with Noiseless Trunk Line Detonator in place of Detonating Cord & Delay Detonators.
 2. Use of delay detonators to keep charge per delay within permissible limit, wherever required
 3. Use of Bottom air deck for better utilization of explosive energy.
 4. Optimization of Blast Geometry.
 5. Use of Polymer Beads / air decking to reduce the charge density in the hole.
 6. Designing initiation pattern in such a way that the blast vibration will travel away from the habitation.
 7. Using hydraulic rock breaker in place of secondary blasting.
 8. Proper Charge per delay: When any permanent structure lies within 500 meter from blasting site, the charge per delay will be as permitted by DGMS so no damage will take place to the structure.
 9. Making dummy holes in between ML boundary and blasting site towards the habitation side.
 10. Wet drilling system / dust cyclone system will be used to control dust.
 11. De-dusting system will be provided at screening & crushing plant.
 12. Atomized water sprinkling system (Automatic) will be provided at crusher hopper (Unloading point).
3. The trees to be planted will includes fruit bearing trees like Jamun, Amla, Mango, Imli etc. in consultation with forest department.

The Committee deliberated at length the information submitted by PP and **recommended** the environmental clearance for limestone mine of M/s Shree Cement Ltd. located near village Kachavaram & Inuparajupalli, Mandai -Karemudi, District Guntur, Andhra Pradesh for production of 3.6 MTPA over the mine lease area of 283.585 ha. The EAC **recommended** the proposal for grant of Environment Clearance with additional specific condition: (i) The R&R plan shall be strictly implement in the time bound manner.

AMENDMENT OF ENVIRONMENT CLEARANCE

(2.5). J-11015/1026/2007-IA.II (M) Tiroda Iron Ore Mine of M/s Gogte Mineral located at Village Tiroda, Venguria Taluk, Sindhudurg District in Maharashtra.(ML area 34.4812 ha and production capacity 0.40 MTPA).

The Tiroda Iron ore mine of M/s Gogte Minerals, having lease hold area of 34.4812 ha was granted EC on 31st December 2008. The lease is in two parts, known as Eastern block having an area of 14.4812 ha and Western block having an area of 20 ha. It was reported by the PP that the mining activities are presently going on in the western part of the lease having an area of 20 Ha. The south of the western block of the lease is flanked by a small perennial river Nanos – around 30 m wide (average).

The Condition No. A (XI), under specific conditions, in EC mandates lessee to maintain 100 mts barrier of no Mining zone towards Nanos River. The lessee has submitted that around 0.285 million Tonnes of medium to High Grade ore is blocked in this barrier and has requested for permitting to work within portion of this barrier by relaxing the condition A (XI), under the specific conditions at least upto the distance of 50 Mts, so that part of ore which is blocked can be recovered. The PP has given an undertaking to reclaim, restore and revegetated the entire barrier with native plant species thereafter. The PP referred to the following norms as rationale behind seeking reduction of the barrier width from 100m to 50m:

1. The MMR 127(2) under the Mines Act requires maintenance of 15m barrier under such condition.
2. The K form in MCR under the MMDR Act requires maintenance of 50m barrier under such condition.

The Committee deliberated at length the information submitted by PP and **deferred** the Proposal. The Proposal may be considered further after receipt of following information:

1. The impact assessment report along with hydro geological report on decreasing buffer area from 100 to 50 meter.

(2.6). J-11015/59/2014-IA.II(M) Mining at Sand (Minor Mineral) in “Panipat Unit-3” with proposed production capacity of 7.0 million TPA of Sand (ROM) by M/s Jai Karan, located at Village (S) – Rakshera, Karoli&Mahaoti, Tehsil – Samalkha, District-Panipat, Haryana (MLA 780.80 ha)

The proposal of M/s Jai Karan is for the mining of sand from “Panipat unit-3” with production capacity of 7.0 million TPA of Sand (ROM). The mining areas are located at

village(s) – Rakshera, Kakroli & Mahaoti, Tehsil – Samalkha, District Panipat, Haryana in mine lease area of 780.80ha. The mining areas lie in the bed of River Yamuna & outside the river bed in fields. The geographical limits of the mining area in river bed of Rakshera village are from Latitudes- 29°11'43.37" to 29°10'01.67"N Longitudes-77°08'34.00E 77°08'00.19"E. In Kakroli (outside the river bed) limits are from Latitudes-29°12' 29.03"to 29°11'41.56"N and Longitudes-77°05'46.94" to 77°06'01.19"E. In Mahaoti village (outside riverbed) geographical limits are from Latitudes-29°11'57.54" to 29°10'28.93"N & Longitudes-77°03'59.64"E to 77°4'53.73"E. Toposheet Nos. of the area are 53G/3, 53G/4, 53C/14, 53C/15 with highest 222 m AMSL to lowest 219 m AMSL in River bed & highest 224m AMSL to lowest 225m AMSL outside river bed. The project was granted EC on 03.08.2015 for production capacity of 7.0 million TPA of Sand (ROM) over the mine lease area of 780.80ha. The mining areas lie in the bed of River Yamuna & outside the river bed in fields.

The proposal is for amendment of EC with respect to method of mining the EC has been granted for mechanized in agriculture land and manual in river bed. The PP requested to change in method of mining from Manual in river bed to Semi-mechanized method in river bed. The Committee was of the view that mining in agriculture land will affect the hydrology and water & moisture regime of the area, therefore, recommended the deletion of agriculture area i.e. outside river bed area from the mine lease and amendment of method of mining from manual to semi-mechanized. PP agreed to exclude agricultural land from mining area. The Committee recommended the mining only in river bed for lease area of 114.80 ha with production capacity of 1.5 million TPA of sand (ROM) by using semi-mechanized method of mining.

(2.7). J-11015/47/2011-IA.II (M) Bauxite mining project with enhancement of production capacity from 44,543.356 TPA to 1,10,022 TPA of bauxite (ROM) by M/s Orient Abrasives Ltd., located at village-Moti Balachor, Taluka-Abdasa, District Kuchchh, Gujarat (110.07ha).

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) of Rata Talab Bauxite Mine with the total mining area of 110.07 ha falling in survey no.275/P, village-Moti Balachod, Taluka-Abdasa, District-Kachchh, Gujarat. Latitudes and Longitudes of the Rata Talab Bauxite Mine are 23°12'46.7"N to 23°13'36.7"N and 69°09'52.5"E to 69°10'56.6"E on Survey of India Toposheet No. F42D4. The Project is located in Seismic Zone-V.

The Proposal of ToR was considered by the Expert Appraisal Committee in its meeting held during April 25-27, 2011 and March 20-21, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by the Ministry, vide letter no. J-11015/47/2011-IA.II (M), dated 15th January, 2015. Public Hearing was conducted on 19th March 2016. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environment clearance after conducting Public Hearing.

The Mine lease area is 110.07 ha. The lease area is a Non-forest, Government Waste land. Rata Talab Bauxite Mine was granted by Government of Gujarat vide order dated 14.09.1973 and was executed on 03.06.1974. Lessee has applied for renewal for a period of 10 years from 03.06.1994 to 02.06.2004. The lessee has applied for second Minutes of the 9th Meeting of EAC held during August 22-23, 2016

renewal upto 02.06.2024 by their application dated 02.06.2003 and as per Rule 24(A) leases are under deemed renewal. Now, as per Rule 8(A) of MMDR Amendment Ordinance, 2015, both the leases are valid upto 2030. Scheme of Mining for the lease was approved by Indian Bureau of Mines, Udaipur vide letter no. 682(23) 551/2007 MCCM(N)UDP dated 10.09.2013.

It is reported by the Project Proponent (PP) that the Method of mining is open cast Semi Mechanized. Total Geological reserves of the area is 3127720 MT and Mineable reserves estimated as 2697350 MT. Life of Mine is 25 years. The mined out area will be backfilled by the generated OB and Waste and will be covered by plantation. Thus, no permanent dumping is required. Complete backfilling is not possible due to very less quantity of material for backfilling, the remaining pit will be converted into reservoir (Rain water harvesting pit).

The proponent informed that total water requirement for drinking domestic, dust suppression and Greenbelt development is 32.75 KLD. Water require for Domestic purpose will be supplied through tanker from nearby villages and water collected in mined out pits will be utilized for dust suppression and greenbelt development. Ultimate working depth will be upto maximum 5.5m depth bgl and Ground water level is observed at ~16m bgl. Thus, working will not intersect the ground water level. As this area falls under safe category prescribed by CGWA guidelines and water requirement is less than 100 KLD, permission for water withdrawal is not required from competent authority.

It was reported by the PP that any National park, Sanctuary, does not fall in study area for the project. The Project Proponent has informed that the baseline monitoring has been conducted for this mine for summer season March to May-2015 based on ToR conditions.

The Public Hearing for the project was conducted on 19th March 2016 at Shri Bhimpar Primary School, Village Bhimpar, Ta. Abdasa, District Kachchh. Shri D.A.Shah, Additional District Magistrate, presided over the entire public hearing process. The issues raised during the public hearing were also considered and discussed during the meeting.

Total cost of the project is 11.10 lakhs as Capital cost and 5.24 crore as Recurring cost. PP has informed that Conservation Plan was prepared in consultation with Forest department with Rs.32 Lakh budget which includes activities such as plantation in surrounding villages with native plants, Wildlife awareness programme in surrounding villages, Greenbelt development, Environment monitoring/ survey, etc. PP informed that these activities will be taken up by Forest department and PP will provide budget for these. PP informed that there CSR activities budgeted at Rs.16.5 Lakhs over a period of 5 years includes stationery distribution to schools, road repairing, village development activities, fund for fodder to Gaushala, Fund for cultural activities, etc. PP informed that this project will increase direct employment opportunity for about 70 people and indirect employment at village level business, transporters, machinery contractors, etc.

The proponent informed that they have requested Gujarat Pollution Control Board, Gandhinagar to initiate Credible action for excess production violation vide letter

dated 23rd June, 2014 and GPCB, Gandhinagar, has informed GPCB, Bhuj-Kachchh to initiate credible action.

The proposal was considered in the EAC meeting held during June 22-23, 2016 wherein the Committee **deferred** the proposal and sought the following information:

1. The Species selected for green belt should be revised as per the CPCB guidelines also the number of saplings for greenbelt development are too less for the area in which plantation is to be carried out. The revised plan needs to be submitted.
2. A detailed time bound action plan along with the budgetary provision for issues raised during the Public Hearing shall be submitted.
3. It appears that mine had been operated even after the submission of Board Resolution that violation of EPA will not be done in future. An inspection report from Regional Office of MoEFCC shall be obtained to ascertain the violation.
4. A detailed report on management of water body/ seasonal river passing through the mine lease area.

Based on the information furnished and discussions held, the Committee **deferred** the proposal and was of the view that the information submitted by PP is incomplete therefore following documents need to be resubmitted for further decision on the matter by the Committee:-

1. The Species selected for green belt should be revised as per the CPCB guidelines also the number of saplings for greenbelt development are too less for the area in which plantation is to be carried out. The revised plan needs to be submitted.
2. A detailed time bound action plan along with the budgetary provision for issues raised during the Public Hearing shall be submitted.
3. It appears that mine had been operated even after the submission of Board Resolution that violation of EPA will not be done in future. An inspection report from Regional Office of MoEFCC shall be obtained to ascertain the violation.
4. A detailed report on management of water body/ seasonal river passing through the mine lease area.

(2.8). J-10015/192/2010.IA.II (M) Varda Bauxite Mine with the production capacity 3,24,430 TPA of (ROM) by M/s Orient Abrasives Ltd. , located at Village-Mewasa, Taluka-Kalyanpur, District -Jamnagar(Dev Bhoomi Dwarkai Gujarat (37.2098 ha)

The Proposal of M/s Orient Abrasives Ltd. is for enhancement of production capacity to 3,24,430 TPA (ROM) of Varada Bauxite Mine with the total mining area of 37.2098 ha falling in 2 adjoining blocks of survey no.330/p, village-Mewasa, Taluka--Kalyanpur, District-Devbhoomi Dwarka, Gujarat. Latitudes and Longitudes of the Varada Bauxite Mine cluster are 22°14'18.0"N to 22°14'48.9"N and 69°17'58.8"E to 69°19'12.6"E on Survey of India Toposheet No. F42J8. The mining lease lies at a distance of 2.6 km from Marine Sanctuary and 15.7 km from Gaga Bird Sanctuary. It is a category 'A' Project as the Mine area is located within 5km of Protected Area. The Project is located in Seismic Zone-IV. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

The Proposal of ToR was considered by the Expert Appraisal Committee in its meeting held during September 22-24, 2015 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by the Ministry, vide letter no. J-11015/192/2010-IA.II (M), dated 16th November, 2015. Public Hearing was conducted on 2nd March 2016. The Proponent submitted the EIA/EMP Report online to Ministry for seeking environment clearance after conducting Public Hearing.

The Mine lease area is 37.2098 ha. The lease area is a Non-forest, Government Waste land. Varada Bauxite Mine is a Cluster of two leases/block, those leases were granted by Government of Gujarat vide order dated 07.04.1981 & 23.04.1985 respectively. Lessee has submitted renewal applications for both the leases on 05.06.2000 & 13.09.2004 respectively and as per Rule 24(A) leases are under deemed renewal. Now, as per Rule 8(A) of MMDR Amendment Ordinance, 2015, both the leases are valid upto 2030. Scheme of Mining for both the leases were approved by Indian Bureau of Mines, Udaipur vide letter no. 682(23) (MS-489)/2009-MCCM (N) UDP dated 07.07.2014 and 682(23) (MS-490)/2009-MCCM (N) UDP dated 01.12.2014.

It is reported by the Project Proponent (PP) that the Method of mining is open cast Semi Mechanized. Total Geological reserves of the area is 16,14,265 MT and Mineable reserves estimated as 12,46,812 MT. Life of Mine is 6 years. The mined out area will be backfilled by the generated OB and Waste and will be covered by plantation. Thus, no permanent dumping is required. Complete backfilling is not possible due to very less quantity of material for backfilling, the remaining pit will be converted into reservoir (Rain water harvesting pit).

The proponent informed that total water requirement for drinking domestic, dust suppression and Greenbelt development is 48.865 KLD. Water require for Domestic purpose will be supplied through tanker from nearby villages and water collected in mined out pits will be utilized for dust suppression and greenbelt development. Ultimate working depth will be upto maximum 5.5m depth bgl and Ground water level is observed at ~12m bgl. Thus, working will not intersect the ground water level. As this area falls under safe category prescribed by CGWA guidelines and water requirement is less than 100 KLD, permission for water withdrawal is not required.

It was reported by the PP that the both the leases/blocks are located at 3.1 km and 2.6 km away from the Marine Sanctuary, as per the letter issued by Chief Conservator of Forest, MNP, Jamnagar.

The Project Proponent has informed that the baseline monitoring has been conducted for both the adjoining leases for summer season March to May-2015 based on ToR conditions.

The Public Hearing for the project was conducted on 2nd March 2016 at Open Plot, Revenue Survey No. 330/P, Varada Bauxite Mine, Mewasa-Virpur Road, Village: Mewasa, Taluka: Kalyanpur, Dist: Devbhoomi Dwarka. Shri H.K.Patel, District Magistrate, Devbhoomi Dwarka, presided over the entire public hearing process. The issues raised during the public hearing were also considered and discussed during the meeting.

Total cost of the project is 97.3 lakhs. Man power requirement is 98. PP has informed that Conservation Plan was prepared in consultation with Forest department with Rs.20.30 Lakh budget which includes activities such as plantation in surrounding villages, Mangrove plantation in 7 hectare area, Wildlife awareness programme in surrounding villages, Greenbelt development, Environment monitoring, etc. PP informed that these activities will be taken up by Forest department and PP will provide budget for these. PP informed that there CSR activities budgeted at cost of Rs.16.5 Lakhs such as stationery distribution to schools, road repairing, village development activities, fund for fodder to Gaushala, Fund for cultural activities, etc. PP informed that this project will increase direct employment opportunity for about 98 people and indirect employment at village level business, transporters, machinery contractors, etc.

The proponent informed that Credible action has been initiated by GPCB for excess production violation. There are no litigation pending against the project.

The proposal was considered in the EAC meeting held during June 22-23, 2016 wherein the Committee **deferred** the proposal and sought the following information:

1. Revised LOI/lease document amalgamating both the leases shall be submitted.
2. The Species selected for green belt should be revised as per the CPCB guidelines. Also the number of saplings for greenbelt development are too less for the area in which plantation is to be carried out. The revised plan needs to be submitted.
3. A detailed time bound action plan along with the budgetary provision for issues raised during the Public Hearing shall be submitted.
4. It appears that mine had been operated even after the submission of Board Resolution that violation of EPA will not be done in future. An inspection report from Regional Office of MoEFCC shall be obtained to ascertain the violation.

Based on the information furnished and discussions held, the Committee **deferred** the proposal and was of the view that the information submitted by PP is incomplete therefore following documents need to be resubmitted for further decision on the matter by the Committee:-

1. Revised LOI/lease document amalgamating both the leases shall be submitted.
2. The Species selected for green belt should be revised as per the CPCB guidelines. Also the number of saplings for greenbelt development are too less for the area in which plantation is to be carried out. The revised plan needs to be submitted.
3. A detailed time bound action plan along with the budgetary provision for issues raised during the Public Hearing shall be submitted.
4. It appears that mine had been operated even after the submission of Board Resolution that violation of EPA will not be done in future. An inspection report from Regional Office of MoEFCC shall be obtained to ascertain the violation.

(2.9). J-11015/198/2014-IA.II(M) Serangdag Bauxite Mine Block-1 M/s Mineral Exploration Corporation Ltd. Located at Village- Serangdag, Tehsil- Samari, District Surguja, Chhattisgarh (257.293ha) (1.2MTPA). Ramky Enviro Engineers limited-EC .

The proposal is for open-cast Bauxite Mining in Serangdag Bauxite Mine Block-1 with 1.2MTPA rock excavation (0.3 MTPA ROM Bauxite) in Mining Lease Area of 257.923 Ha at Serangdag (vii), Kusmi (formerly under SamariTehsil), Balarampur Dist (formerly under Surguja Dist.), Chhattisgarh by M/s Mineral Exploration Corporation Limited (MECL). Mineral Exploration Corporation Limited (MECL), has proposed to undertake Opencast Bauxite Mining of Serangdag Bauxite Mine Block-1 atSerangdag (V), Kusmi (T), BalarampurDist, Chhattisgarh located in the extreme north-eastern part of Balarampur District, about 15 km north of Kusmi (tehsil headquarter), Balarampur District. It can be approached from Ambikapur (120km SW), (District Headquarter), Surguja District, by Ambikapur-Kusmi road. The Nearest Railway station is Ambikapur. Nearest highway is NH-343 at 50 kmW. The entire MLA including 10km buffer area falls in Survey of India (SOI) Toposheet No.64 M15 (F44F15), 64 M16 (F44F16)and 73 A3 (F45A03).The area is drained by Kanhar river flowing about 4 km NW of the area and by the Burhanadi, flowing 3 km NE of the area.

The total mining lease area of 257.923 hectares (637.34 acres) comprises of agriculture land (privately owned), kuchcha Road and waterlogged land. The estimated total area is excluding forest land. The forest area of 9.611 hectares has been excluded from the MLA and NOC obtained from Dept. of Forest, Govt. of Chhattisgarh.The proposed mining activity falls in schedule 1(a) of category 'A' with rock excavation capacity of 1.2MTPA (0.3 MTPA ROM Bauxite). Capital cost of project is Rs. 19.19 crores.

The Committee deliberated at length the information submitted by PP and **deferred** the Proposal. The Committee was of the view that there are several discrepancies in the EIA report and Mining plan therefore a revised EIA report rectifying the errors shall be submitted for further consideration.

CONSIDERATION OF TOR PROPOSALS

(2.10).J-11015/345/2007-IA.II(M) Mahagiri Mines (Chromite) of M/s Indian Metals and Ferro Alloys Ltd. located at Village Kaliapani, District Jaipur, Odisha. IA/OR/MIN/56966/2016

The proposal is of M/s Indian Metals & Ferro Alloys Limited for Mahagiri Mines (Chromite), M.L. Area- 73.777 ha, Proposed Expansion in Chrome Ore Production Capacity from 3.0 Lac TPA to 6.0 Lac TPA, located near Village- Kaliapani, Taluka- Sukinda & District – Jajpur (Odisha). The mine site falls between 21° 01' 16.66" N to 21° 01' 56.83" N Latitude and 85° 46' 24.94" E to 85° 47' 13.58" E Longitude on Survey of India Toposheet no. - 73 G/16.

Total M.L Area is 73.777 ha. The M.L. Area comprises of 66.380 ha of forest land & 7.397 ha of waste land as per HAL records. However, the 7.397 ha area has now been assessed as Forest land under SABIK records. Clearance for 63.91 Ha of forest land vide letter F.No.8-116/2002-FC, dated 18.05.2005 & Clearance for forest land admeasuring 2.47 Ha earmarked as safety zone within the ML area has been obtained vide letter No. F.No. 8-116/2000-FC (Vol.) dated 18.11.2014 from MoEFCC, Govt of India. Forest clearance for land admeasuring 7.397 ha is under process.

There will be no change in present mining method of mechanized opencast & underground method. Opencast mining is being carried out by drilling & blasting in conjunction with HEMMs. Trackless mining using LHD & LPDT is being adopted in underground mines. Blast hole stopping with filling has been proposed as method of stopping as per Geo - technical study conducted by CIMFR, Dhanbad. Total water requirement for the proposed mining project will be 108 KLPD, which will be sourced from borewell & treated ETP water. Permission has been obtained from CGWA vide letter no. 21-4(107)/SER/CGWA/2008-667 dated 27.04.2015.

Total manpower will be 695 persons. Total cost of the Project is Rs. 115.0 Crore/-. It was reported by PP that there is no National Park, Wild Life Sanctuary, Biosphere Reserve, and Tiger Reserve etc. within 10 km radius of M.L. Area. The elephant corridor is located at ~2.7 km from the M.L. Area and permission from CWW has been obtained vide letter no. 1314, 1WL-C-FC-518/09/10 dated 16.02.2010.

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

(2.11).J-11011/926/2008-IA II (I) Yarekatte Iron & Manganese Ore Mine of M/s Goa Minerals Pvt. Ltd lease over an extent of 116.55 Ha in Yarekatte village, Chikkanayakanahalli taluk, Tumkur Dist., Karnataka State. IA/KA/MIN/57243/2016

The Proposal of Yarekatte Iron & Manganese Ore Mine of M/s Goa Minerals Pvt. Ltd is over an extent of 116.55 ha in Yarekatte village, Chikkanayakanahalli taluk, Tumkur Dist., Karnataka State. The Geographical Co-ordinates for the mine site are Latitude: N 13° 25' 05.30" to N 13° 25' 44.34" Longitude: E 76°40' 23.15" to E 76° 41' 13.05". The mine site falls on Survey of India Topo-sheet no 57 C/11. Mine working will be opencast mechanized without drilling & blasting. Water Requirement 180 KLD of water used for dust suppression, afforestation & for drinking.

Goa Minerals Pvt. Ltd. has applied for mining lease for iron ore and manganese at "Yarekatte Iron & Manganese ore Mine, AML. No. 1063 (Block 4)" Forest land at Yarekatte village of Chikkanayakanahalli Taluk, Tumkur district of Karnataka over an extent of 116.55 ha. Earlier this area was under active mining with well-developed network of transport roads. Since mining operations were discontinued over a long period of time mining lease was determined by Karnataka State Govt., and notified for re-grant. Presently GMPL has applied for fresh grant of mining lease in this area. Central Government has accorded approval for grant of mining lease for Iron and Manganese mineral for 20 years.

Presently it is proposed to produce @ maximum 1.085 MTPA of iron ore, ore to waste ratio of 1:1.04 with an average total handling of 1.956 MT by conventional opencast mechanized mining using eco-friendly ripper-dozer. The mining plan for above production of iron ore is approved by under letter No. MP/TMK/FeMn-131-SZ dated 07.07.2006 as a prerequisite for execution of the lease deed. Forest Clearance under Section-II of Forest Conservation Act 1980 is also applied simultaneously.

The ML area is located within Thirtharampura Forest and Bukkapatna State Forest is located at 7 kms from ML area towards northeast. No major vegetation or wildlife exists within this area. It was reported by PP that there are no national parks, wild life sanctuary, eco sensitive areas within the study area. Average rainfall of the district is 540.7mm. It is also known for dry climate. Depth of water table is at 823 m above MSL Mining pit/lease area occupies the elevated portion of hillock with an average elevation of RL of 1075 m MSL and present pit bottom is at 1026m MSL. At conceptual stage, mine will go up to a depth of 932 RL which is still above the general ground water level in the area.

The capital cost of project is 10,130 lacs. There is no Court case/ litigation pending against the Project. The Director of Mines & Geology, Govt. of Karnataka has issued a letter to M/s Goa Minerals (P) Ltd., to obtain all the statutory clearances including Environment Clearance from MoEF to facilitate execution of the Mining Lease. The capping in the area has been fixed to 30 MTPA. The PP informed that the quantity of iron ore production is allotted by the CEC in the districts of Bellary, Chitradurga and Tumkur. In this connection CEC has submitted a report to Hon'ble Supreme Court for fixation of production quantity for various mines in the three districts referred above. In CEC's report (page 8 & 9) they have clearly stated that mining leases granted under Section 10 A (2)(c) of MMDR Act, 2015 no specific quantity can be given and it will be decided only after leases are executed.

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

(2.12). Kalamala Mine lease of M/s The India Cements Limited (ICL) located in Chilamkur & Kalamalla Village, Yerraguntla Mandal, Y.S.R. Kadapa district of Andhra Pradesh. IA/AP/MIN/57582/2016

The Proposal was **deferred** as the Project Proponent did not attend the meeting. However, a letter was submitted by the Project Proponent to the effect that their case may be deferred for next meeting.

(2.13). Limestone, Shale & Clay production of M/s The India Cements Limited (ICL) Burugupally village in Chincholi Taluka, District Kalaburagi (Gulbarga), Karnataka. IA/KA/MIN/57585/2016

The Proposal was **deferred** as the Project Proponent did not attend the meeting. However, a letter was submitted by the Project Proponent to the effect that their case may be deferred for next meeting.

RECONSIDERATION OF TOR PROPOSALS

(2.14). J-11015/134/2016-IA.II(M) Haldari Gujjar off River Bed Block Sand Mining project of M/s S.M. Contractors & Suppliers having an area of 46.80 ha with

the proposed production of 8,80,000 TPA at Village HaldariGujjar District Yamunanagar State Haryana (46.80 ha).

The proposal of M/S S M CONTRACTORS & SUPPLIERS is for mining of Boulder, Gravel and Sand Minor Mineral (Minor Mineral) with production capacity of 8,80,000 TPA in the mine lease area of 46.80 Ha. The project is categorized as category as the Interstate Boundary of Haryana and Uttar Pradesh is at a distance of 3.00 km from the project site.

LOI was issued by Director General, Mines and Geology Department, Govt. of Haryana vide letter no. DMG/HY/Cont./Haldari Gujjar Block/ YNR B-35/2016/1477 dated 03.03.2016 for the period of 08 years.

The mine lease area is located between the following coordinates:

Latitudes	Longitudes
N 30° 11' 00"	E77° 25' 34"
N 30° 11' 00"	E77° 25' 46.5"
N 30° 10' 40"	E77° 25' 46.5"
N 30° 10' 40"	E77° 25' 56.5"
N 30° 10' 30"	E77° 25' 56.5"
N 30° 10' 30"	E77° 25' 21.5"
N 30° 10' 39.5"	E77° 25' 21.5"
N 30° 10' 40"	E77° 25' 34"

Toposheet (OSM) No.-53 F/08. No National Park falls within the 10 km radius of the project site Total mine lease area is 46.80 ha is outside Riverbed. The Method of mining will be opencast semi-mechanized method. Loading of minerals into trucks / tippers will be done by using excavators and transported to market. The depth of mining will be 9 m or 2 m above ground water level. Total water requirement for the proposed project will be 12.51KLD . Water for dust suppression, domestic and plantation will be supplied from existing Dug well / Tube well situated in the nearby areas.

The cost of the project is Rs. 1.00 Crores. The cost for EMP is 6.00 Lakhs. Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee was of the view that the mining operations in agricultural land are in isolated patches and would result in deterioration of agricultural land and top fertile soil of the field, drainage pattern of the area resulting into the ponding effect.

The proposal was considered in the EAC meeting held during April 25-26, 2016 wherein the Committee decided to **defer** the proposal and sought following information from Mines and Geology department of State Government of Haryana:

1. Whether, the lease area in the subject is part of Comprehensive mine plan prepared on direction of NGT dated 18.02.2016 in the matter of 184/2013 in Gurpreet Singh Bagga Vs. Union of India and ors.
2. Considering the environmental implications of the sand mining in isolated ptches of agriculture land a policy for granting such leases and mitigation of impact of mining in these areas shall be submitted.

On receipt of information the proposal was considered in the present meeting. The Committee deliberated the issue at length and decided that TOR to the project cannot be granted as mining operations in agricultural land are in isolated patches and would result in deterioration of agricultural land and top fertile soil of the field, drainage pattern of the area resulting into the ponding effect. These would result in change in water & moisture regime of the area affecting the nearby agricultural field and therefore, would have adverse environmental impact far beyond the project area.

(2.15).J-11015/122/2016-IA.II(M) Ismailpur off River Bed Block Sand Mining Project having an area of 50.50 ha with the production of 960000 MPTA of M/s Som Prakash Sethi located at Village Ismailpur Tehsil chhachhrauli District Yamunanagar, Haryana (50.50 ha).

The proposal of Shri Som Prakash Sethi is for mining of Boulder, Gravel and Sand Minor Mineral (Minor Mineral) with production capacity of 9,60,000TPA in the mine lease area of 50.50 Ha. LOI was issued by Director General, Mines and Geology Department, Govt. of Haryana vide letter no. DMG/HY/Cont./Ismailpur Block/ YNR B-32/2016/1479 dated 03.03.2016 for the period of 08 years.

The mine lease area is located between the following coordinates:

latitudes	Longitudes
30° 13' 17" N	77° 25' 33.5" E
30° 13' 17" N	77° 26' 01" E
30° 13' 01" N	77° 26' 46" E
30° 13' 01" N	77° 25' 38.5" E
30° 12' 55" N	77° 25' 38.5" E
30° 12' 47" N	77° 25' 31" E
30° 12' 46.5" N	77° 25' 28.5" E
30° 12' 59" N	77° 25' 16" E
30° 13' 03" N	77° 25' 28.5" E
30° 13' 09" N	77° 25' 28.5" E

Toposheet (OSM) No.-53 F/08. No National Park falls within the 10 km radius of the project site. Total mine lease area is 50.50 ha is outside Riverbed. Method of mining will be opencast semi-mechanized method. Loading of minerals into trucks / tippers will be done by using excavators and transported to market. The depth of mining will be 9 m or 2 m above ground water level. Total water requirement for the proposed project will be 12.875. Water for dust suppression, domestic and plantation will be supplied from existing Dug well / Tube well situated in the nearby areas. It was informed by the PP that no National Park/Wildlife Sanctuary/Biosphere Reserve etc is located with 10 km radius of the mine lease area. The cost of the project is Rs. 1.00 Crores. The cost for EMP is 6.00 Lakhs.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee was of the view that the mining operations in agricultural land are in isolated patches and would result in deterioration of

agricultural land and top fertile soil of the field, drainage pattern of the area resulting into the ponding effect.

The proposal was considered in the EAC meeting held during April 25-26, 2016 wherein the Committee decided to **defer** the proposal and sought following information from Mines and Geology department of State Government of Haryana:

1. Whether, the lease area in the subject is part of Comprehensive mine plan prepared on direction of NGT dated 18.02.2016 in the matter of 184/2013 in Gurpreet Singh Bagga Vs. Union of India and ors.
2. Considering the environmental implications of the sand mining in isolated patches of agriculture land a policy for granting such leases and mitigation of impact of mining in these areas shall be submitted.

On receipt of information the proposal was considered in the present meeting. The Committee deliberated the issue at length and decided that TOR to the project cannot be granted as mining operations in agricultural land are in isolated patches and would result in deterioration of agricultural land and top fertile soil of the field, drainage pattern of the area resulting into the ponding effect. These would result in change in water & moisture regime of the area affecting the nearby agricultural field and therefore, would have adverse environmental impact far beyond the project area.

(2.16).J-11015/123/2016-IA.II(M) Chuharpur Off River Bed Block Sand Mining Project having an area of 50.40 ha with 930000 MTPA of M/s Aman Sethi located at Village Chuharpur Tehsil Chhachhrauli District Yamunanagar, Haryana (50.40 ha)

The proposal of Shri Aman Sethi is for mining of Boulder, Gravel and Sand Minor Mineral (Minor Mineral) with production capacity of 9, 30,000TPA in the mine lease area of 50.40 Ha. LOI was issued by Director General, Mines and Geology Department, Govt. of Haryana vide letter no. DMG/HY/Cont./Chuharpur Block/YNR B26 & 27/2016/1475 dated 03.03.2016 for the period of 08 years.

The mine lease area is located between the following coordinates:

latitudes	longitudes
N 30° 16' 54"	E77° 28' 14.5"
N 30° 16' 44"	E77° 28' 37"
N 30° 16' 38"	E77° 28' 37"
N 30° 16' 32"	E77° 28' 29.5"
N 30° 16' 30"	E77° 28' 24.5"
N 30° 16' 30"	E77° 28' 19.5"
N 30° 16' 44"	E77° 28' 19.5"
N 30° 16' 44"	E77° 28' 14.5"
N 30° 16' 22"	E77° 28' 27"
N 30° 16' 22"	E77° 29' 14"
N 30° 16' 16"	E77° 29' 9.5"
N 30° 16' 12"	E77° 28' 52.6"

N 30° 16' 12"	E77° 28' 39.5"
N 30° 16' 20"	E77° 28' 27"

Toposheet (OSM) No.-53 F/07. The lease falls at mean distance of approx. 6.00 km from the boundary of ecosensitive zone of the Kalesar Wildlife Sanctuary, Hence NBWL clearance is not required for the project. Total mine lease area is 50.40 ha is outside Riverbed. The Method of mining will be opencast semi-mechanized method. Loading of minerals into trucks / tippers will be done by using excavators and transported to market. The depth of mining will be 9 m or 2 m above ground water level. Total water requirement for the proposed project will be 13.15. Water for dust suppression, domestic and plantation will be supplied from existing Dug well / Tube well situated in the nearby areas.

The cost of the project is Rs. 1.00 Crores. The cost for EMP is 6.00 Lakhs. Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee was of the view that the mining operations in agricultural land are in isolated patches and would result in deterioration of agricultural land and top fertile soil of the field, drainage pattern of the area resulting into the ponding effect.

The proposal was considered in the EAC meeting held during April 25-26, 2016 wherein the Committee decided to **defer** the proposal and sought following information from Mines and Geology department of State Government of Haryana:

1. Whether, the lease area in the subject is part of Comprehensive mine plan prepared on direction of NGT dated 18.02.2016 in the matter of 184/2013 in Gurpreet Singh Bagga Vs. Union of India and ors.
2. Considering the environmental implications of the sand mining in isolated patches of agriculture land a policy for granting such leases and mitigation of impact of mining in these areas shall be submitted.

On receipt of information the proposal was considered in the present meeting. The Committee deliberated the issue at length and decided that TOR to the project cannot be granted as mining operations in agricultural land are in isolated patches and would result in deterioration of agricultural land and top fertile soil of the field, drainage pattern of the area resulting into the ponding effect. These would result in change in water & moisture regime of the area affecting the nearby agricultural field and therefore, would have adverse environmental impact far beyond the project area.

(2.17).J-11015/152/2016.IA.II(M) Vangar-Madhiya Limestone Mining of M/s Nirma Ltd. located at Villages Vangar & Madhiya, Taluka Mahuva, District Bhavnagar, Gujarat. (1225.8553 Ha)

The project proponent has submitted request for Vangar and Madhiya Limestone Mining Lease Area at villages Vangar & Madhiya, Taluka Mahuva, District Bhavnagar, Gujarat of M/s Nirma Ltd. along with Form-I and Pre-Feasibility Report. The applied area falls within the Survey of India Toposheet No. 41 O/12(restricted). The applied area is bounded by Latitudes 21° 02' 2.35" & 21°03' 40.13" N and Longitudes 71° 39' 18.3" & 71° 41' 05" E.

The total ML area is 1225.8553 ha. Proposed production from the mine shall be 1.6 MTPA (ROM). Limestone produced from this captive mine shall be used for manufacturing of Cement and Clinker of the company. No forest land is involved. No national park/ sanctuary is located within 15 Km. No displacement is involved. Water bodies present in the study area are Malan River (8.4 km, E), Mota Jadra Garvho Nadi (2.6 km, E), Malan Bandhara reservoir (5.5 km, ESE) and Arabian Sea Coast (3.8 km to the HTL). Nearest city is Mahuva at a distance of 7.8 km by road. The site falls in Seismic zone-III.

State Govt. has issued Letter of Intent for grant of mining lease of Limestone vide letter no. MCR-102004-1827-CHH dated 15.02.2008. Opencast Mechanized mining method (conventional and non-conventional) by bench formation of 6.0 m height with deep hole drilling blasting, hydraulic excavator – dumper in combination as well as deploying surface miner shall be adopted. Life of mine shall be 22 years. The limestone will be crushed in a crusher in adjoining the lease area (Padhiarka). Limestone will be transported by internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease.

The proposed project will generate direct employment for 56 people. Total estimated water requirement for the proposed units will be 42 cum/day. The water will be sourced from Narmada water pipeline for which tapping will be taken for the Company's cement plant and rainwater collected in mine pit. The power demand for the proposed mine will be about 100 KW which shall be sourced from State Electricity Board/ Captive Power Plant at Village Padhiarka, Taluka Mahuva, District Bhavnagar. Total cost of the proposed project will be Rs. 24 Crores.

The Committee was of the view that it's a large area under consideration effecting huge number of villagers therefore the area shall be reduced. To this effect PP submitted an undertaking that mining operations will not be carried out in 196 ha and only 1029.8553 ha of the area will be used for mining operations. The PP also submitted that there interlinked cement plant received environmental clearance on vide letter no. J-11011/992/ 2007- IA II (I) dated 11 Dec 2008 which was revoked by MOEF vide their order dated 1st December 2011. The revoked order was challenged in NGT, who vide their order dated 14th January 2015 in the appeal no. 04 of 2012 has set aside the MOEF's revocation order dated 01.12.2011, which restores the EC granted by MoEF vide letter dated 11.12.2008. In the meantime, the environmental clearance process of the three captive limestone mines was also stalled. Now that the cement plant project and its EC has been revived consequent to the order of the NGT, PP has re-initiated the process of environmental clearance for the three mines.

The proposal was considered in the EAC meeting held during May 23-24, 2016 based on the information furnished by the Project Proponent and discussions held, the Committee was of the view that there was severe mismatch between limestone requirement of the proposed cement plant, extent of area needed for mining and total area proposed to be acquired. This mismatch is critical considering that most of the area proposed for acquisition is private agricultural land. The case was, therefore, deferred and PP is to submit a revised plan reducing the area to be acquired to minimum possible commensurate with the limestone production required for the proposed cement plant.

The PP submitted the revised plan reducing the area, the proposal was considered in the present meeting. The PP submitted that no rejects will be generated in this limestone deposit. The soil cover will be removed before winning the limestone. The soil is non-toxic in nature. The chances of the water quality getting affected due to mining activity are very remote, as no chemical having toxic element will be used in carrying out mining activity. The working pits or the ones not being mined during a particular period will be storing the rain water for use in mines. Also, neither soil nor Limestone contains toxic elements, which can affect the quality of the water. During the course of mining the Mine sump water and Reject water of RO /DM plant (from proposed at Cement plant) will be use in dust suppression, plantation, dumpers/ trucks washing etc. Sewage sludge will be used as manure after composting. Oil and grease will get generated in the workshop located in the cement plant where effluent will be skimmed and separated by oil water skimmer and will be sold to recycling vendors authorized by CPCB. The top soil shall be used simultaneously for the plantation over backfill areas, in green belt, avenues, colonies and other areas. Some soil or meagre overburden would be backfilled into mined out areas.

Based on the information furnished by the Project Proponent and discussions held, the Committee was of the view that there was still a severe mismatch between limestone requirement of the proposed cement plant, extent of area needed for mining and total area proposed to be acquired. Committee was of the view that the project is part of three contiguous projects (Agenda item numbers 2.17, 2.18 & 2.19) and taken together these extend approximately over 3300 ha, out of which approximately over 2500 ha are private agriculture lands involving about 7 villages & approximately more than 2500 households. The revised plan doesn't reduce the area to be acquired and only demarcates the areas which are near roads, habitations etc on which mining would not be undertaken. These three projects together would divert large private agricultural land, affect large number of families and would, therefore, have large socio-economic impact by affecting agriculture & allied activities. The mining over this area would also alter the water & moisture regime of the area and would have serious environmental impact affecting even the agriculture and allied activities in nearby area as well. **The committee was of the view that ToR could not be granted to the present proposal.** The PP was advised to look for alternative site or reduce the project area substantially.

(2.18).J-11015/153/2016.IA.II(M) Gujarda, Dudheri and Dudhala Limestone Mining of M/s Nirma Ltd. located at Villages Gujarda, Dudheri and Dudhala, Taluka Mahuva, District Bhavnagar, Gujarat(1489.4701 ha.)

The project proponent has submitted request for Gujarda, Dudheri and Dudhala Limestone Mining Lease Area at villages Gujarda, Dudheri and Dudhala, Taluka Mahuva, District Bhavnagar, Gujarat of M/s Nirma Ltd. along with Form-I and Pre-Feasibility Report. The applied area falls within the Survey of India Toposheet No. 41 O/12 (Restricted). The applied area is bounded by Latitudes 21°01'21.18" & 21°02'51.49 N and Longitudes 71°41'2.44" & 71°42'19.33" E.

The total ML area is 1489.4701 ha. Proposed production from the mine shall be 2.7 MTPA (ROM). Limestone produced from this captive mine shall be used for manufacturing of Cement and Clinker of the company. No forest land is involved. No national park/ sanctuary is located within 15 Km. No displacement is involved.

Water bodies present in the study area are Malan River (7.6 km, NE), Mota Jadra Garvho Nadi (3.28 km, NE), Malan Bandhara reservoir (19.95 km, E) and Arabian Sea Coast (0.8 km to the HTL). Nearest city is Mahuva at a distance of 15 km by road. The site falls in Seismic zone-III. State Govt. has issued Letter of Intent to grant the mining lease over an area of 1497.4701 hecets vide letter no. MCR-102004-1943-CHH dated 15th Feb. 2008 & based on our request, the Industries and Mines Department, Government of Gujarat issued revised Letter of Intent vide letter no. MCR-102004-1943-CHH dated 02.02.2011 for an area of 1489.4701 ha, after deleting 8.00 ha. area fall under CRZ and nearby adjoining area for Gujarda, Dudheri & Dudhala mining lease area in place of originally granted area 1497.4701 ha. Opencast Mechanized mining method (conventional and non-conventional) by bench formation of 6.0 m height with deep hole drilling blasting, hydraulic excavator – dumper in combination as well as deploying surface miner, shall be adopted. Life of mine shall be 21 years.

The proposed project will generate direct employment for 76 people. Total estimated water requirement for the proposed units will be 44 cum/day. Total cost of the proposed project will be Rs. 25 Crores. The Committee was of the view that it's a large area under consideration effecting huge number of villagers therefore the area shall be reduced. To this effect PP submitted an undertaking that mining operations will not be carried out in 273 ha and only 1216.4701 ha of the area will be used for mining operations. The PP also submitted that there interlinked cement plant received environmental clearance on vide letter no. J-11011/992/ 2007- IA II (I) dated 11 Dec 2008 which was revoked by MOEF vide their order dated 1st December 2011. The revoked order was challenged in NGT, who vide their order dated 14th January 2015 in the appeal no. 04 of 2012 has set aside the MOEF's revocation order dated 01.12.2011, which restores the EC granted by MoEF vide letter dated 11.12.2008. In the meantime, the environmental clearance process of the three captive limestone mines was also stalled. Now that the cement plant project and its EC has been revived consequent to the order of the NGT, PP has re-initiated the process of environmental clearance for the three mines.

The proposal was considered in the EAC meeting held during May 23-24, 2016 based on the information furnished by the Project Proponent and discussions held, the Committee was of the view that there was severe mismatch between limestone requirement of the proposed cement plant, extent of area needed for mining and total area proposed to be acquired. This mismatch is critical considering that most of the area proposed for acquisition is private agricultural land. The case was, therefore, deferred and PP is to submit a revised plan reducing the area to be acquired to minimum possible commensurate with the limestone production required for the proposed cement plant.

The PP submitted the revised plan reducing the area, the proposal was considered in the present meeting. The PP submitted that no rejects will be generated in this limestone deposit. The soil cover will be removed before winning the limestone. The soil is non-toxic in nature. The chances of the water quality getting affected due to mining activity are very remote, as no chemical having toxic element will be used in carrying out mining activity. The working pits or the ones not being mined during a particular period will be storing the rain water for use in mines. Also, neither soil nor Limestone contains toxic elements, which can affect the quality of the water. During the course of mining the Mine sump water and Reject water of RO /DM plant (from

proposed at Cement plant) will be used in dust suppression, plantation, dumpers/ trucks washing etc. Sewage sludge will be used as manure after composting. Oil and grease will get generated in the workshop located in the cement plant where effluent will be skimmed and separated by oil water skimmer and will be sold to recycling vendors authorized by CPCB. The top soil shall be used simultaneously for the plantation over backfill areas, in green belt, avenues, colonies and other areas. Some soil or meagre overburden would be backfilled into mined out areas.

Based on the information furnished by the Project Proponent and discussions held, the Committee was of the view that there was still a severe mismatch between limestone requirement of the proposed cement plant, extent of area needed for mining and total area proposed to be acquired. Committee was of the view that the project is part of three contiguous projects (Agenda item numbers 2.17, 2.18 & 2.19) and taken together these extend approximately over 3300 ha, out of which approximately over 2500 ha are private agriculture lands involving about 7 villages & approximately more than 2500 households. The revised plan doesn't reduce the area to be acquired and only demarcates the areas which are near roads, habitations etc on which mining would not be undertaken. These three projects together would divert large private agricultural land, affect large number of families and would, therefore, have large socio-economic impact by affecting agriculture & allied activities. The mining over this area would also alter the water & moisture regime of the area and would have serious environmental impact affecting even the agriculture and allied activities in nearby area as well. **The committee was of the view that ToR could not be granted to the present proposal.** The PP was advised to look for alternative site or reduce the project area substantially.

(2.19). J-11015/154/2016.IA.II(M) Padhiarka-Doliya Limestone Mining of M/s Nirma Ltd. located at villages Padhiarka&Doliya, TalukaMahuva, District Bhavnagar, Gujarat.(616.7254 ha.)

The project proponent has submitted request for Padhiarka-Doliya Limestone Mining Lease Area at villages Padhiarka & Doliya, Taluka Mahuva, District Bhavnagar, Gujarat of M/s Nirma Ltd. along with Form-I and Pre-Feasibility Report. The applied area falls within the Survey of India Toposheet No. 41 O/12 (Restricted). The applied area is bounded by Latitudes 21° 01' 5.71" & 21° 02' 16.27" N and Longitudes 71° 40' 30.85" & 71° 41' 21.27" E.

The total ML area is 616.7254 ha. Proposed production from the mine shall be 1.5 MTPA (ROM). Limestone produced from this captive mine shall be used for manufacturing of Cement and Clinker of the company. No forest land is involved. No national park/ sanctuary is located within 15 Km. No displacement is involved.

Water bodies present in the study area are Malan River (9.9 km, ENE), Mota Jadra Garvho Nadi (4.7 km, NE), Malan Bandhara reservoir (3.5 km, E) and Arabian Sea Coast (0.5 km to the HTL). Nearest city is Mahuva at a distance of 9.5 km by road. The site falls in Seismic zone-III.

The State Govt. has issued Letter of Intent for grant of mining lease of Limestone vide letter no. MCR-102004-1945-CHH dated 15.02.2008. Opencast Mechanized mining method (conventional and non-conventional) by bench formation of 6.0 m height with deep hole drilling blasting, hydraulic excavator – dumper in combination as

well as deploying surface miner shall be adopted. Life of mine shall be 19 years. The limestone will be crushed in a crusher in the lease area. Limestone will be transported by internal haul road from mine face to crusher and by conveyor from crusher to the Cement plant adjacent to the mine lease.

The proposed project will generate direct employment for 60 people. Total estimated water requirement for the proposed units will be 41 cum/day. Total cost of the proposed project will be Rs. 29 Crores.

The Committee was of the view that it's a large area under consideration effecting huge number of villagers therefore the area shall be reduced. To this effect PP submitted an undertaking that mining operations will not be carried out in 86 ha and only 530 ha of the area will be used for mining operations. The PP also submitted that there interlinked cement plant received environmental clearance on vide letter no. J-11011/992/ 2007- IA II (I) dated 11 Dec 2008 which was revoked by MOEF vide their order dated 1st December 2011. The revoked order was challenged in NGT, who vide their order dated 14th January 2015 in the appeal no. 04 of 2012 has set aside the MOEF's revocation order dated 01.12.2011, which restores the EC granted by MoEF vide letter dated 11.12.2008. In the meantime the environmental clearance process of the three captive limestone mines was also stalled. Now that the cement plant project and its EC has been revived consequent to the order of the NGT, PP has re-initiated the process of environmental clearance for the three mines.

The proposal was considered in the EAC meeting held during May 23-24, 2016 based on the information furnished by the Project Proponent and discussions held, the Committee was of the view that there was severe mismatch between limestone requirement of the proposed cement plant, extent of area needed for mining and total area proposed to be acquired. This mismatch is critical considering that most of the area proposed for acquisition is private agricultural land. The case was, therefore, deferred and PP is to submit a revised plan reducing the area to be acquired to minimum possible commensurate with the limestone production required for the proposed cement plant.

The PP submitted the revised plan reducing the area, the proposal was considered in the present meeting. The PP submitted that no rejects will be generated in this limestone deposit. The soil cover will be removed before winning the limestone. The soil is non-toxic in nature. The chances of the water quality getting affected due to mining activity are very remote, as no chemical having toxic element will be used in carrying out mining activity. The working pits or the ones not being mined during a particular period will be storing the rain water for use in mines. Also, neither soil nor Limestone contains toxic elements, which can affect the quality of the water. During the course of mining the Mine sump water and Reject water of RO /DM plant (from proposed at Cement plant) will be used in dust suppression, plantation, dumpers/ trucks washing etc. Sewage sludge will be used as manure after composting. Oil and grease will get generated in the workshop located in the cement plant where effluent will be skimmed and separated by oil water skimmer and will be sold to recycling vendors authorized by CPCB. The top soil shall be used simultaneously for the plantation over backfill areas, in green belt, avenues, colonies and other areas. Some soil or meagre overburden would be backfilled into mined out areas.

Based on the information furnished by the Project Proponent and discussions held, the Committee was of the view that there was still a severe mismatch between limestone requirement of the proposed cement plant, extent of area needed for mining and total area proposed to be acquired. Committee was of the view that the project is part of three contiguous projects (Agenda item numbers 2.17, 2.18 & 2.19) and taken together these extend approximately over 3300 ha, out of which approximately over 2500 ha are private agriculture lands involving about 7 villages & approximately more than 2500 households. The revised plan doesn't reduce the area to be acquired and only demarcates the areas which are near roads, habitations etc on which mining would not be undertaken. These three projects together would divert large private agricultural land, affect large number of families and would, therefore, have large socio-economic impact by affecting agriculture & allied activities. The mining over this area would also alter the water & moisture regime of the area and would have serious environmental impact affecting even the agriculture and allied activities in nearby area as well. The committee was of the view that ToR could not be granted to the present proposal. The PP was advised to look for alternative site or reduce the project area substantially.

Day 2: 23rd AUGUST, 2016 (TUESDAY)

(2.20) Ochre, White Earth, Laterite & Iron Ore Mine with production capacity of 1,00,000 TPA (ROM) [89,000 TPA (ROM) of Laterite & 10,000 TPA (ROM) & 1000 TPA of Iron Ore] by M/s Shiv Kumar Agarwal, located at village- Kama Khuia, Taluka-Birsinghpur, District-Satna, State-Madhya Pradesh (16.19ha) (Consultant: Envirta Sustainable Solutions India Pvt. Ltd.)- Consideration of EC

The Proposal of M/s Shiv Kumar Aggarwal is for Ochre, White Earth, Laterite & Iron Ore Mine with production capacity of 1,00,000 TPA (ROM) [89,000 TPA (ROM) of Laterite & 10,000 TPA (ROM) & 1000 TPA of Iron Ore]. The mine is located at Village - Kama Khuia, Tehsil- Birsinghpur, District-Satna, Madhya Pradesh. The mining lease area lies between Latitudes & Longitudes 24°52'57.9" to 24°53'16.4" North and 81°01'3.0" to 81°01'16.6" East respectively. The proposal was considered as category 'A' as Interstate Boundary between Uttar Pradesh & Madhya Pradesh at 4.9 Km & Raipur Wild Life Sanctuary at 4.9 Km.

The proposal of TOR was considered by the EAC in its meeting held on August 25-27, 2015 and ToR was issued to proponent for undertaking detailed EIA study for the purpose of obtaining Environment Clearance vide Letter No. J-11015/278/2015-IA.II (M) dated 24.09.2015. The EIA/EMP Report was submitted online to Ministry for seeking environment clearance.

The Committee noted that the **EIA/EMP Report has several deficiencies** which were observed by the Committee and are as:-

- (i) Public Hearing was presided by Shri Deepak Vaidh, SDM (representative of District Collector). The Committee noted that the Public Hearing was not presided as per the provisions of EIA Notification, 2006 as the Public Hearing was presided by the officer which is below the rank of ADM. The Committee is of the view that the PP to conduct the fresh Public Hearing per the

- provisions of EIA Notification, 2006;
- (ii) PP to submit the production details since inspection of the mine and duly authenticated by the State Government of Madhya Pradesh;
- (iii) Since, the Raipur Wild Life Sanctuary is located at 4.9 Km, NBWL Clearance is mandatory for this project. The PP needs to submit the proof of application submitted for NBWL clearance and its present status;
- (iv) (Clarification w.r.t. mining activities continued without NBWL Clearance.
- (v) There are Schedule I Species located in the study area. The PP needs to submit the proof of application submitted for approval of Conservation Plan for Schedule I Species and its present status;
- (vi) Revised list of Plant species for plantation;
- (vii) PP has not submitted questionnaires' and Annexure as per agenda note;
- (viii) CSR and environment management plan should be re-submitted; and
- (ix) Crystallographic study of White Earth should be given.

The Committee deliberated at length and **deferred the proposal and the same may be considered only after the revised EIA/EMP Report. The revised EIA/EMP report shall also remove the above mentioned deficiencies.**

(2.21) Raibazar Kaolinised Sand, Silica Sand & China Clay Mine with production capacity of 1, 50, 000 TPA(ROM) of sand stone and washing plant by M/s Standard Mercantile Company (Mining Division) Pvt. Ltd., located at Village: Raibazar, Tehsil: Rajmahal, District: Sahibganj, Jharkhand (MLA 65.197 ha) (Consultant: M/s Udaipur Min-Tech Pvt. Ltd.)- Re-Consideration of EC

The proposal of M/s Standard Mercantile Company (Mining Division) Pvt. Ltd. is for mining of Kaolinised sand stone with production capacity of 1, 50, 000 TPA(ROM) of sand stone and washing plants in the mine lease of 65.197 ha are located at Village: Raibazar, Tehsil: Rajmahal, District: Sahibganj, Jharkhand. The latitude & longitude of the mine lease area lies between 25° 03' 23.41" N to 25° 03' 57.34" N & 87° 47' 14.07" E to 87° 47' 52.18" E the survey of India Toposheet No is 73 O/14. It is "A" project as the MLA is more than 50ha, Interstate boundary between Jharkhand & West Bengal is at a distance of 1 Km from lease area. The Udhuwa Bird Sanctuary is located at a distance of 8.0 Km from the lease area.

The proposal of EC was earlier considered in the EAC meeting held during January 20-22, 2016 wherein the Committee **deferred** the Proposal and sought the following information/clarifications for further consideration:-

1. The Public Hearing was presided by Shri Amit Kumar Mishra, Karyapalak Dandaadhikari. The Committee is of the view that PP has to submit a clarification of SPCB that the Public Hearing was presided over not below the rank of ADM officer.
2. A detailed analysis report on occupational health of the workers need to be submitted;

3. Details of Beneficiation Plant along with flow diagram need to be submitted;
4. The accretion of mine waste in the form of “in-situ waste while mining” as well as “tailing while beatification/washing/litigation process” are to be assessed correctly.
5. The Committee noted that during Public Hearing Shri Shivshankar Thakur has raised an issue w.r.t. a court case filed by Pandit Madan Mohan Malviya on restriction of industry and mining activity within 500m boundary of Ganga River. The PP needs to submit detailed court order and its implication on this instant Project;
6. Details of plantation carried out till date in and around the mine lease area; and
7. Updated status of NBWL clearance.

The Project Proponent vide letter dated 26.07.2016 had submitted the following information as sought by EAC in its meeting held during January 20-22, 2016:-

1. The Public Hearing was done again on 11.07.2016 and presided by Shri Shripati Giri, Director, DRDA, Sahaivganj. The committee deliberated the PH proceedings.
2. The PP has submitted the detailed analysis report on Occupational Health & Safety of the workers;
3. The details of beneficiation Plant along with layout of beneficiation plant are submitted by the PP and the same was the deliberated by the Committee;
4. The PP reported that about 15% i.e. 10.5 to 12 MT per day of tailing will be generated from the washing plant. During the beneficiation process the same is temporarily to the tailing dump and then is used to back-fill the mined-out area. The tailing is devoid of any hazardous material.
5. The PP submitted that there is no implication of court case. Moreover this court case is for Allahabad city. Further the washing plant is more than 500 m from exaction river bank.
6. Project Proponent report that 607 plants planted; and
7. The PP reported that the application for NBWL clearance is submitted on 08.03.2013. The application was forwarded from DFO to CCF on 27.05.2015 and further from CCF to Department of Environment on 19.08.2015.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for **Raibazar Kaolinised Sand, Silica Sand & China Clay Mine with production capacity of 1, 50, 000 TPA(ROM) of sand stone and washing plant.**

The Committee also **recommended the additional specific conditions** viz. (i) Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; and (ii) Project Proponent shall appoint an Occupational Health Specialist

for Regular and Periodical medical check-up once in six months and necessary medical care/preventive measures undertaken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers should also be adopted.

(2.22) Narani Red Ochre Mining Project with production capacity of 1,66,989 TPA, located in Village Narani, Tehsil Chhoti Sadri, District Chittorgarh, Rajasthan (Mine lease No. 44/2006; MLA- 259ha) - Transfer of EC from Shri Radhey Shyam Sharma vide No. J-11015/566/2007-IA.II(M) dated 26.12.2007 to Shri Sunil Kumar Sharma.

The proposal of Shri Sunil Kumar Sharma is for transfer of EC from Shri Radhey Shyam Sharma vide No. J-11015/566/2007-IA.II(M) dated 26.12.2007 to Shri Sunil Kumar Sharma. The mine lease is located at village- Mudh, Tehsil- Kolayat, District – Bikaner, Rajasthan. The lease area lies between Latitudes of:- N 24° 24' 45" to N 24° 26' 7.5" Longitude of :-E 74° 46' 28" to E 74° 47' 44.5" respectively.

The Committee is of the view that this is a **case of transfer of EC and the Project Proponent has to apply as per the provisions of Rule 11 of the EIA Notification, 2006** and the Ministry may take action as per the provision of EIA Notification, 2006 and such project should not be placed before the EAC.

(2.23) Silica Sand Mining Project with production capacity of 2,03,400 TPA, located at village –Agawali, Tehsil-Bayana, District-Bharatpur, Rajasthan (M.L.No. 2/93) –Amendment in EC No. J-11015/163/2006-IA. II (M) dated 17.05.2007 w.r.t. reduction of mine lease area from 71.70 ha to 49.56 ha and transfer EC from Shri Yogesh Mittal to M/s Shivalik Silica.

The proposal of M/s Shivalik Silica is for amendment in EC No. J-11015/163/2006-IA. II (M) dated 17.05.2007 w.r.t. reduction of mine lease area from 71.70ha to 49.56ha and transfer of EC from Shri Yogesh Mittal to M/s Shivalik Silica. The mine is located near village – Agawali, Tehsil-Bayana, District-Bharatpur, Rajasthan. The lease area lies between latitudes of: N27° 00' 1.45" to 27° 00' 21.38" 'longitude of E 77° 19' 43.08" to 77° 20' 27.12" respectively.

The Committee noted that the Environmental Clearance was granted by the Ministry, vide letter no. J-11015/163/2006-IA. II (M) dated 17.05.2007 to M/s Yogesh Mittal, Power of Attorney holder for mining of silica sand with production capacity of 2,03,400 TPA in mine lease area of 71.70ha.

Project Proponent informed the Committee that the proposal for transfer EC has already been submitted to the Ministry under the provision of Rule 11 of EIA Notification, 2006. **The Committee deliberated the information submitted by Project Proponent and is of view that transfer of EC proposal is to be dealt in the Ministry as per provision of Rule 11 of EIA Notification, 2006.**

Project Proponent has reported that the mining lease was originally sanctioned for 165.72ha in the name of Smt. Veena Joshi w/o Shri R. S. Joshi and its agreement was executed and registered on 07.05.1994 making it effective up to 06.05.1994. It bore M. L. No 1/73. An area of 46.95ha was surrendered on 23.09.1975, which was accepted on 26.11.1976 reducing effective area to 118.77ha. Application for the first renewal was duly applied on 05.05.1993. New M. L. No. given was 2/93 which continues till date.

Project Proponent informed that during pendency of renewal of lease by the State Government, Smt Veena Joshi had expired on 19.02.2004. Incidentally mining activities were also stopped w.e.f 16.5.2004 for want of Environmental Clearance. After the death of Smt Veena Joshi, the ML No 2/93 was mutated in favour of her legal heir Shri Madhup Joshi s/o Late Shri R. S. Joshi and a rider agreement with the State Government was executed on 02.07.2005. After applying for surrender of part area and retaining 71.70ha, Shri Madhup Joshi got a Mining Plan with Progressive Mine Closure Plan prepared which was approved on 30.12.2005. Shri Madhup Joshi appointed Shri Yogesh Mittal as General Power of Attorney Holder on 28.04.2006. Under the circumstances, the Ministry granted EC in the name of Shri Yogesh Mittal in the capacity of Power of Attorney Holder and for lease area of 71.70ha on 17.05.2007.

The retained area of 71.70ha consisted of certain patches of khatedari lands. Since the khatedars were not agreeable to give NOC to the Project Proponent and the earlier application for surrender of area over and above 71.70ha was still pending, project proponent applied for fresh surrender retaining only 49.56ha on 25.05.2007. As a result of reduction in area, Project Proponent got fresh Mining Plan with Progressive Mine Closure Plan prepared for 49.56ha which was approved by Mines and Geology Department on 13.07.2007. Net retained area was 49.56ha which was accepted by the State Government on 27.07.2007 and it continues to be so till date. First renewal of ML was granted on 10.10.2007 and agreement was executed on 07.11.2007 valid up to 06.05.2014.

Shri Madhup Joshi transferred M. L. No 2/93 in favour of M/s Shivalik Silica, a partnership firm and transfer deed was registered on 19.02.2008. A letter of memorandum by the State Government was issued on 21.02.2008 making the transfer effective from 19.02.2008. Project Proponent (M/s Shivalik Silica) applied for second renewal of ML on 02.05.2013. During the process of renewal of ML, the period of its validity has been extended to 06.05.2024 vide letter issued by the State Govt. of Rajasthan on 27.02.2015. The Department of Mines and Geology, vide letter dated 11.08.2016 reported that the mine has never exceeded the production capacity of 2,03,400 TPA. Project Proponent informed that they are regularly submitting compliance reports of EC conditions to the Regional Office of the Ministry, Lucknow endorsing copies to the RSPCB and DMG. The mine has Consent to Operate from Rajasthan State Pollution Control Board, Jaipur with validity up to 28.02.2019. Project proponent reported that there is no court case/litigation pending against project.

The Committee **deferred** the proposal and is of the view that the **PP shall submit the following:**

- (i) The certificate of State Government w.r.t. location of National Park, Wildlife Sanctuary, Biosphere Reserve/ Tiger Reserve etc. within 10 Km radius of MLA, and
- (ii) The present status of the mining lease area i.e. status of land restoration of the area which has been surrendered through the Department of Mines & Geology, State Govt. of Rajasthan.

(2.24) Silica Sand Mining Project of M/s Meetha Lal Bohra, located Near Village Kodai-Gothra, Tehsil - Sapotra, District - Karauli, State - Rajasthan - Consideration of TOR

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

(2.25) Mining of Limestone (Minor Mineral) with proposed production capacity of 0.5 Million TPA (ROM) by M/s Rajendra Singh Kachchhwaha, located at Village Mandla, District – Pali, Tehsil –Sojat, Rajasthan (MLA: 1000ha)- (Consultant: Eko Pro Engineers Pvt. Ltd.)- Consideration of TOR

The proposal of M/s Rajendra Singh Kachchhwaha is for Mining of Limestone (Minor Mineral) with proposed production capacity of 0.5 Million TPA (ROM). The mine lease area is located at Village Mandla, District – Pali, Tehsil –Sojat, Rajasthan in the mine lease area of 1000ha. Project Proponent report that this is an existing mining lease and the State Government of Rajasthan has granted the Mining lease for 10 years w.e.f. 01.03.1974. First renewal was done by the State Government of Rajasthan for 10 years w.e.f. 01.03.1984 and the period of first renewal was extended for further 10 years. Second renewal was done for 20 years w.e.f. 01.03.1994 and the period of second renewal was extended of 20 years by Department of Mines and Geology. The State Government has further extended the lease period for 10 years w.e.f. 01.03.1994. The date of expiry of lease is 28.02.2024. Life of mine is 122 years. Mining plan was approved by Department of Mines and Geology vide letter dated 27.11.2015.

The Committee deliberated at length the information submitted by PP and **deferred** the Proposal and sought the following information:-

1. The details of production authenticated by the Department of Mines and Geology since inception of mine to ascertain the violation, if any, of the provisions of EIA Notification, 2006.
2. Since the mine is located in District Pali which is a critically polluted area as per CEPI, a letter from the State Pollution Control Board/ Central Pollution Control Board needs to be submitted whether this instant mine is located in critically polluted area or not.

(2.26) Moharwa Limestone deposit with proposed production capacity of limestone of 4.0 Million TPA (ROM) by M/s Adhunik Corporation Limited, located at villages Moharwa, Ghotria Godin Patahara, Goraiya, Barkula,

Jhanjhware Tehsil : Maihar, District-Satna, Madhya Pradesh (MLA: 869.032ha) (Consultant: EMTRC Consultants Pvt. Ltd.) - Consideration of TOR

The proposal of M/s Adhunik Corporation Limited (ACL) is for Moharwa Limestone deposit with proposed production capacity of limestone of 4.0 Million TPA (ROM). The mine lease area is located near village(s) Moharwa, Ghotari, Gondin, Patahara, Goraiya, Barkula, Jhanjhware, Tehsil Maihar, District -Satna, Madhya Pradesh in the mine lease area is 869.032ha. The mine lease area lies between Latitudes of:- N 24°08'25.3" to 24°10'56.6" Longitude of :-E 80°51'14.9" to 80°55'14.1" respectively. The Study area falls within the Survey of India Toposheet No. 63 D/16.

The Total mine lease area is 869.032ha. Out of which 99% land is single crop agriculture land. No forest land is involved. Letter of Intent was issued by State Government of Madhya Pradesh vide letter dated 01.04.2015. Project Proponent reported that there is no Wildlife Sanctuary, National Park and Biosphere Reserve exists in the 10 km area (study area) around the proposed mine boundary. The method of mining will be fully mechanized opencast method with the use of HEMM. Blast holes of 150 mm dia. are proposed to be drilled by using DTH wagon drill machine and controlled blasting with ANFO with Booster charge will be done. The project cost is Rs.220 Crores. The life of mine is 27 years.

The Committee noted that the Project Proponent/Consultant has not properly prepared the application i.e. Form I and PFR as per the provisions of EIA Notification, 2006. There are several deficiencies reported viz. (i) Project Proponent at Sl.no.10 of Form I has not mentioned about the production capacity; and (ii) Project Proponent has not provided the land use pattern adequately and mentioned that 859.532ha of area relate to hutments and Infrastructure. In view of this the Committee **deferred** the Proposal the same may be considered further after receipt of **revised Form I and PFR**.

(2.27) Pandru Quartz & Feldspar Mine with expansion in production capacity from 60,000 TPA to 7,00,000 TPA (ROM) by M/s S.B. Minerals Enterprises, located at village - Pandru, Tehsil - Asind, District – Bhilwara, Rajasthan (MLA: 91.0ha) (Consultant - Enkay Enviro Services Pvt. Ltd., Jaipur) – Consideration of TOR.

The proposal of M/s S. B. Minerals Enterprises is for Pandru Quartz & Feldspar Mine with expansion in production capacity from 60,000 TPA to 7,00,000 TPA (ROM) in the mine lease area of 91.0 ha. The mine is located at village – Pandru, Tehsil – Asind, District – Bhilwara, Rajasthan. The geographical co-ordinates of the site are Latitude - 25°35' 50"N to 25°36' 41" N & Longitude - 74°15' 52"E to 74°16' 34" E. Area is covered by Survey of India Toposheet No. 45K/06.

Total mine lease area is 91.0ha. Method of mining is open cast and mechanized method. Project Proponent reported that the originally, the lease was sanctioned to M/s S. B. Minerals Enterprises, Asind vide Govt. Order no. P-5/72/khan/Gr.-2/91 dated

31.03.1992 and agreement on dated 13.05.1992 and registered on 27.05.1992 for a period of 20 years. Lessee has applied for renewal on dated 04.04.2011 for 20 years from 27.05.2012. Modified mining plan including progressive mine closure plan was approved vide letter no. SME/Bhil Circle/Modi.M.P./M.L.146/2011/517 dated 22.02.2016 for the enhanced capacity of 7,00,000 TPA. Water requirement is 20KLD.

The Environmental clearance was earlier granted by the Ministry on 11.03.2014 for renewal of mining lease for production of 60,000 TPA of ROM of Quartz and Feldspar. Consent to Operate has been granted for period from 01.07.2014 to 31.05.2017. Till now the mine has been working manually using jack hammer drilling machine and blasting by explosives and produce 14100 to 48840 tonnes of Feldspar during period from 27.05.2007 to 26.05.2012. From 27.05.2012 the mine remained closed. The management wants to mechanize the mine and produce 7,00,000 tonnes of Feldspar per Annum, i.e. 2334 tonnes per day by deploying Excavator, Dumpers and Wagon Drills. The estimated project cost will be Rs.8.50 Crores. The expected life of mine will be 30.0 years.

The project Proponent requested to exempt the Public Hearing and also use the base line data already monitored during October – December 2015 for the preparation of EIA/EMP study. The Committee deliberated the issue and is of the view that the project is now for expansion from 60,000 TPA to 7,00,000 TPA (ROM) hence Project Proponent needs to conduct the fresh Baseline data and Public Hearing for this enhancement project.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the **Committee prescribed the Standard TOR** for undertaking detailed EIA study as per **Annexure-I**. Further, the Project Proponent along with EC proposal should also furnish the following: (i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change.

(2.28) Mining of Mineral Soapstone (Minor Mineral) at Musyoli Chak Joshigaon Soapstone Mining Project with proposed production capacity of 53,275 TPA (ROM) by Lessee Shri Bhupal Singh Kanwal at Village- Musyoli Chak Joshigaon, Tehsil & District- Bageshwar, Uttarakhand. (MLA 17.976 ha) (Consultant: Grass Roots Research & Creation India (P) Ltd.)-Consideration of EC

The proposal of Lessee Shri Bhupal Singh Kanwal is for mining of Soapstone (Minor Mineral) with proposed production capacity of 53,275 TPA (ROM). The mine lease area of 17.976 ha is located at Village- Musyoli Chak Joshigaon, Tehsil & District- Bageshwar, Uttarakhand. The mine lease area lies on private agricultural land (hill slope). The co-ordinates of Mine Lease area are Latitude: 29°49'12.10"N to 29°

49°10.79'N Longitude: 79°52'23.16"E to 79°52'35.96"E on Survey of India toposheet numbers 53 O/13 (site). The Project is located in Seismic zone-V.

As per EIA Notification, 2006 and as amended on 15th January, 2016, the said mining project comes under category B2 (> 5 ha and <25 ha) without any cluster situation (no any lease is located within the 500m radius). This category B2 project to be appraised at SEIAA Uttarakhand, however the PP has submitted the application to the Ministry as the tenure of SEIAA Uttarakhand has been expired. Accordingly this project is being considered by the EAC/ Ministry. The project proponent has submitted the Form I, PFR, Mining Plan and EMP and subsequent document vide letter dated 23.08.2016.

The total mine lease area of 17.976 ha. The Letter of Intent (LoI) for grant of mining lease for minor mineral Soapstone over an area of 17.976 ha has been granted by Department of Geology and Mining, Govt. of Uttarakhand, vide letter no. 422/VII/105-ख/2008, dated 6th April, 2016. The Mining Plan has been approved by Geology and Mining Unit, Government of Uttarakhand, vide letter dated 04.06.2016. The Mining department of District Bageshwar, vide letter dated 19.08.2016 mentioned that there is no mining activity in 500m radius of this lease area. The Committee noted that the PP needs to submitted details of lease within 500m radius of the lease area as per the provision of EIA Notification, 2006 amended on 15.01.2016.

Method of Mining is opencast semi mechanized. Mine working will not go beyond 1496mRL. Water table will not be intersected by mining operations as spring is too far from the proposed working area. Seasonal drainage exists outside the lease area & Proposed mining area is far away from existing drainage, therefore chances to encounter the water within the working pit shall be nil during next five years. Proponent informed that 13.77 ha area will be used for excavation after leaving 7.5m barrier zone. The site elevation is 1551.67mRL to 1496.10mRL. The total water requirement is 1.50 KLD including water demand for domestic purpose and dust suppression which shall be met by tanker supply. No Objection Certificate from Gram Panchayat has been obtained in this regard.

The overburden and interburden shall be removed by deploying excavator as well as with the help of rock breaker. Average thickness of soil has been considered as 0.5m and it shall be stacked separately. Bench height will be kept 6.0m width of benches shall be kept 6.0m with face slope 70° to 75°. Development work will be construction of approach road to different working benches and no removal of the top soil. The soapstone shall be extracted with deployment of an excavator as well as manually with the help of crow bar; chisels, pickaxe, hammers, spade and different grade of soapstone will be stacked separately near the mining faces. Soapstone is soft mineral; therefore no drilling & blasting shall be required. The soapstone shall be dressed manually & stacked separately. No further beneficiation shall be undertaken during first five years. Wire crated wall having width & height 0.75m & 1.0m shall be provide along the *nalla* for the protection of *nalla* by mining activities & siltation of waste dump. The mining has been proposed in such a way that land will be reclaimed

concurrently from end of first year onward in each pit to restore its maximum original topography. The backfilled area shall be levelled & it is use for agriculture. Total 68621 cum quantity of soil and interburden from pit is expected to be generated during next five years.

The top soil having average thickness 0.50m lies all over the lease area. The top soil, interburden from pit will be stacked separately and used as backfilled material. Total 838 cum soil is expected in the five years. No mineral reject will be produced during next five years. The top soil material to be generated from each pit will be temporarily stacked towards slope side of working pits. Dumping shall be carried out in single terrace & slope of dump shall be kept 37°. All the quantities shall be used in backfilling before the commencement monsoon period. Therefore no proposal has been envisaged for separate stacking of top soil. Before the commencement of monsoon all the pits shall be backfilled. Project Proponent has made the Traffic Analysis survey and reported that no. of trucks will be deployed 44 per day (10 tonnes capacity each) which increase 396 PCUs per day (considering both loaded and empty trucks) and the level of service (LOS) is likely to change from excellent to very good on both the roads. Project Proponent reported that roads will be repaired regularly and maintained in good conditions. A Supervisor will be appointed to regulate the traffic movement near site. Speed breakers and signage will be maintained at the sensitive places.

The project proponent reported that there is no Eco-sensitive areas i.e. National Park and Wild Life Sanctuary lie within the 10 Km radius of the lease area. The DFO Bageshwar vide letter dated 19.08.2016 certified that there is no National Park/Wildlife Sanctuary or any other Eco sensitive Area are located within the 15 Km radius of the lease area. The DFO Bageshwar vide letter dated 19.08.2016 certified that there is no forest land involved in the mine lease area. Proponent informed that there are two Schedule-I species (Leopard and Asiatic black bear) found in the study area and for that conservation plan has been prepared and submitted for approval. The Receiving of the submission of conservation plan to Chief Wildlife Warden for approval, was received on 20/08/2016. Project Proponent reported that there is no R&R plan is applicable for this project as the mine lease area lies entirely on the private agriculture land and there is no establishment on the site. However due compensation will be given to the private agricultural land owners.

Project Proponent informed that the District Survey Report of District Bageshwar has not been prepared and a request letter from proponent side was submitted on 23.08.2016 to the concerned department to get present status of District Survey Report of District Bageshwar. The ADM Bageshwar informed that presently the Committee preparation of District Survey Report (DSR) of District Bageshwar is not in existence. Therefore District Survey Report of District Bageshwar has not been prepared yet.

The cost of the Project is Rs. 9 Lakhs. The Proponent has earmarked Rs. 1.40 Lakhs (Rs. 0.4 lakh as Capital Cost & Rs. 1 Lakh as Recurring Cost) towards Environmental Protection Measures. Proponent informed that Rs. 1.50 lakhs per annum

have been earmarked towards CSR activities for next 5 years of mining operation. Project Proponent reported that there is no litigation pending against the project.

The Committee deliberated at length and **deferred** the proposal and the same may be considered on the submission of (i) District Survey Report as per the provisions of EIA Notification, 2006 amended on 15.01.2016; and (ii) PP needs to submit details of lease within 500m radius of the lease area as per the provision of EIA Notification, 2006 amended on 15.01.2016 to ascertain the category of the project.

(2.29) Narora Limestone Mine with production capacity of 1.0 million TPA of M/s Jaiprakash Associates Ltd. located at Village (s) – Sonra, Hinauti & Narora, Tesil – Huzur, District – Rewa, Madhya Pradesh (147.940 ha) (Consultant: M/s Vimta Lab)-Extension of the validity of TOR

The proposal of M/s Jaiprakash Associates Limited is for mining of lime stone with proposed production capacity of 1.0 million TPA of limestone in the ML area of 147.940 ha. The mine lease area is located at village-Sonra, Hinauti and Narora, Tehsil-Huzur, District-Rewa, Madhya Pradesh.

The TOR to the proposal was issued vide letter no. J-11015/249/2014-IA.II(M) dated 28.10.2014. Project Proponent requested the extension of validity of TOR as the Public Hearing for the project has been delayed. The PP requested for extension of validity of TOR for one year i.e. from 28.10.2016 to 27.10.2017.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for one year i.e. from **28.10.2016 to 27.10.2017**.

(2.30) Janardanpur Limestone Mine with production capacity of 0.5 million TPA of limestone by M/s. Jaiprakash Associated Limited, located at village Janardanpur, Tehsil – Rampur Baghelan, District–Satna, Madhya Pradesh (135.435ha)- (Consultant: M/s Vimta Lab)-Extension of the validity of TOR

The proposal is of M/s. Jaiprakash Associated Limited is for production of 0.5 million TPA of limestone in the ML area of 135.435ha. The mine lease area is located near Janardanpur village, Rampur Baghelan Tehsil, Satna district, Madhya Pradesh.

The TOR to the proposal was issued vide letter no. J-11015/134/2014-IA.II(M) dated 14.07.2014. Project Proponent requested the extension of validity of TOR as the Public Hearing for the project has been delayed. The PP requested for extension of validity of TOR for one year i.e. from 14.07.2016 to 13.07.2017.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for one year i.e. from **14.07.2016 to 13.07.2017**.

(2.31) Karmau Limestone Mining with proposed production capacity of 0.20MTPA by M/s Jaiprakash Associates Limited located at village Karmau, Tehsil Rampur Baghelan, Distt., Satna, Madhya Pradesh (150.028ha) (Consultant: Jaiprakash Associates Limited)-(Consultant: M/s Vimta Lab)-Extension of the validity of TOR

The proposal is of M/s. Jaiprakash Associated Limited for production of 0.2 million TPA of limestone in the ML area of 150.028 ha. The mine lease area is located at village-Karmau Tehsil-Rampur Baghelan, District Satna, Madhya Pradesh.

The TOR to the proposal was issued vide letter no. J-11015/129/2014-IA.II(M) dated 14.07.2014. Project Proponent requested the extension of validity of TOR as the Public Hearing for the project has been delayed. The PP requested for extension of validity of TOR for one year i.e. from 14.07.2016 to 13.07.2017.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for one year i.e. from **14.07.2016 to 13.07.2017**.

(2.32) Limestone Mining with production capacity of 50,000 TPA (ROM) by M/s Dawar Cements Pvt. Ltd. located at Chakdura, Khrew, Tehsil Pampora, District Pulwama J&K State (21.106 ha) (Consultant: Vardan Environet)-Amendment in TOR

The proposal of M/s Dawar Cements is for amendment in TOR dated 22.01.2016 w.r.t. production capacity from 50,000 TPA (ROM) to 53,055 TPA (ROM). The mine lease area is located in Khasra No. 3184, Village Chakdura (Khrew), Tehsil Pampore, District Pulwama, Jammu & Kashmir. The Project falls in Category 'A' as the Dachigam Wildlife Sanctuary is located 2.1 Km towards N direction from mine lease boundary. The Project Proponent submitted the updated Form-I and PFR and requested the amendment in TOR as the production capacity has been increased to 53,055 TPA (ROM) as per the approved mining plan.

The Committee deliberated at length the information submitted by the Project Proponent and based on the discussion the **Committee recommended for amendment of TOR dated 22.01.2016 w.r.t. production capacity from 50,000 TPA (ROM) to 53,055 TPA (ROM)**.

Meeting ended with the vote of thanks to the Chair

Standard Terms of Reference (TOR) for Mining Project

1. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
7. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

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

20. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22. One season (non-monsoon) [i.e. March - May (Summer Season); October - December (post monsoon season) ; December - February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM₁₀, particularly for free silica, should be given.
23. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
24. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
25. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
28. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro


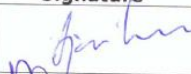

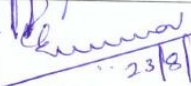


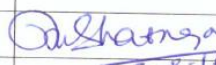

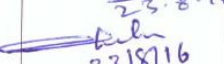

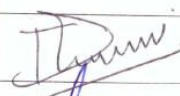

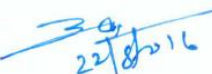

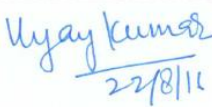
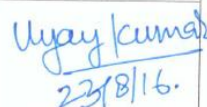


Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.

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

agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.

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

EAC Meeting Month of August 22-23, 2016
LIST OF EXPERT APPRAISAL COMMITTEE (MINING - Non Coal Mining Sector)

Sl. No.	Name and address	Designation	22.08.2016 (I st day) Signature	23.08.2016 (II nd day) Signature
1.	Dr. Ajai Kumar B-1302, BestechParkView Spa, Sector-47, Gurgaon, Haryana	Chairman		
2.	Shri B Ramesh Kumar H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad-500025, Andhra Pradesh	Member	 22/8/16	 23/8/16
3.	Prof. Dr. K.S. Rana Maharana Manzil, 18, Dholpur House, (D.M. Compound), M.G. Road, Agra-1, Uttar Pradesh - 282001	Member		
4.	Prof. A. K. Bhatnagar, JA/4B, Ashok Vihar-I, Delhi - 110052	Member		
5.	Dr. N. C. Karmakar Department of Mining Engineering, Indian Institute of Technology (BHU), Varanasi - 221 005, Uttar Pradesh	Member	 22/8/16	 23/8/16
6.	Dr. Hemant S. Sahasrabudhe "Utkarsha", LB-53, Housing Board Colony, Laxminagar, Nagpur-440022	Member		
7.	Prof. S. Ramakrishna Rao 50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara, Visakhapatnam - 530013 Andhra Pradesh.	Member		
8.	Dr. Himanshu Pathak, Professor, Center for Environment Science and Climate Resilient Agriculture, Indian Agricultural Research Institute, New Delhi 110 012	Member		
9.	Dr. AL. Ramanathan Professor, School of Environmental Sciences, Jawaharlal Nehru University. New Mehrauli Road, New Delhi- 110067	Member		
10.	Dr. Tushar Kant Joshi, Laxmikant Niwas, SalanGaon, Bhagwantpur, Dehradun-248009, Uttarakhand.	Member		
11.	Shri Santosh Gupta, Flat No. 405, Block -B, Gaur Green Vista, NyayKhand -1, Indrapuram, Ghaziabad-201014	Member		
12.	Representative of Ministry of Mines Shri. K.S. Yadav, Regional Controller of Mines, Indian Bureau of Mine, H.No. 100, Old Nehru Colony, Dehradun-248001, Uttarakhand.	Member	 22/8/16	 23/8/16
13.	Representative of Indian Meteorological Mr. V.K. Soni, Scientist "E", (Meteorology/Air Pollution), 609, SatMet Building, Mausam Bhawan, Indian Meteorological Department, Lodhi Road, New Delhi-110003	Member	 22/8/16	 23/8/16
14.	Representative of Wildlife Institute of India, Dr. (Ms.) Asha Rajvanshi, Wildlife Institute of India, Chandrabani, Dehradun-248001	Member		
15.	Director IA-Division (Non Coal Mining) Vayu-305, Indira Paryavaran Bhawan, Ministry of Environment, Forest & CC, Jorbagh Road, Lodhi Road, New Delhi-110003	Member Secretary	 22/8/16	 23/8/16

List of Representatives of the Project Proponents

1. Representative of **M/s Charites, Real Estate Pvt. Ltd.**
2. Representative of **M/s Zelkova Buildcon Private Limited**
3. Representative of **M/s Shree Cement Ltd.**
4. Representative of **M/s Gogte Mineral**
5. Representative of **M/s Jai Karan**
6. Representative of **M/s Orient Abrasives Ltd.**
7. Representative of **M/s Orient Abrasives Ltd**
8. Representative of **M/s Mineral Exploration Corporation Ltd.**
9. Representative of **M/s Indian Metals and Ferro Alloys Ltd.**
10. Representative of **M/s Goa Minerals Pvt. Ltd**
11. Representative of **M/s The India Cements Limited (ICL)**
12. Representative of **M/s S.M. Contractors & Suppliers**
13. Representative of **M/s Som Prakash Sethi**
14. Representative of **M/s Aman Sethi**
15. Representative of **M/s Nirma Ltd**
16. Representative of **M/s Shiv Kumar Agarwal,**
17. Representative of **M/s Standard Mercantile Company (Mining Division) Pvt. Ltd.**
18. Representative of **M/s Shri Radhey Shyam Sharma (M/S Prahladrai & Company)**
19. Representative of **M/s Shri Yogesh Mittal**
20. Representative of **M/s Meetha Lal Bohra**
21. Representative of **M/s Rajendra Singh kachchhwaha**
22. Representative of **M/s Adhunik Corporation Limited**
23. Representative of **M/s S.B. Minerals Enterprises**
24. Representative of **M/S Shri Bhupal Singh Kanwal**
25. Representative of **M/s Jaiprakash Associates Limited**
26. Representative of **M/s Dawar Cements Pvt. Ltd.**