

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

SUMMARY RECORD OF 10th MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.

The Tenth 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 **September 19-20, 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 9th EAC Meeting

The Minutes of the 9th Meeting of EAC held during August 22-23, 2016 were circulated.

Item No. 2:

Day 1: 19th September, 2016 (MONDAY)

CONSIDERATION OF ENVIRONMENT CLEARANCE

(2.1). J-11015/109/2013-IA.II(M) Vanduva Quartz Mine of M/s Sri V. Narasimha Rao located at Village Tudi&Vanduva, Tehsil Veeragattam Mandal, District Srikakulam, Andhra Pradesh (65.76 ha). (Consultant:-PridhviEnviro Tech Private Limited)

The proposal is for Quartz mining with production capacity of 1,20,000 TPA. The Mine Lease area is located at Village Tudi and Vanduva, Tehsil Veeragattam Mandal, Srikakulam District, Andhra Pradesh. The Mine Lease area is between Latitude 18° 38' 14" to 18° 38' 48" N and Longitude 83° 38' 31" to 83° 39' 22"E. The proposed project is for open cast method of mining for quartz. It was reported by the Project Proponent that The Mine lease has been obtained from Industries and Commerce (M-III) Department, Government of Andhra Pradesh vide memo. No. 15295/M.III(1)/2009-1 dated 21-05-2010 and mine plan is approved by Zonal Director of Mines and Geology, Government of Andhra Pradesh vide letter no. 3322/M/2010 dated 28.07.2010. There is no forest land involved in the ML area of 65.76 Ha.

It was noted by the Committee that the TOR was issued on 31st October, 2013 with the validity of two years. The TOR has expired on 30th October, 2015 therefore the PP shall seek for extension of validity of TOR. The PP vide letter dated 19.09.2016 requested for the extension of validity of TOR. The Committee **recommended** extension of the validity of TOR for two years i.e. from **31.10.2015 to 30.10.2017**.

(2.2). J-11015/244/2013-IA-II(M) Mota Asota Bauxite Mine with Production Capacity 10,13,260 MTPA of M/s Prabhudas Vithaldas Makhecha located at village Mewasa, Kenedy & Mota, Taluka Kalanpur, District Jamnagar, Gujarat (67.1827ha) (Consultant:-GRC India (P) Ltd.)

The mine lease is located at village Virpur, Mewasa, Kenedy & Mota Asota, Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat. The co-ordinate of Virpur Mewasa, Kenedy & Mota Asota Blocks and Kenedy block of the Mine Lease area are 22°13'46.5" N to 22°17'24.6" N & 69°18'03.7" E to 69°20'31.7" E and 22°04'01.5" N to 22°05'14.4" N & 69°18'20" E to 69°18'48.6" E respectively. The project is located in seismic zone- IV. Marine National Park & Marine Sanctuary, Eco Sensitive Zone lies within 5 km of study area. The mining lease was executed in favour of M/s Prabhudas Vithaldas – I over 67.1827 ha (reduced area 59.0889 ha). The Mining Lease was granted over an area of 67.1827 ha in village Virpur, Mewasa, Kenedy & Mota Asota, Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat vide Govt. order no. MNL-1559/202648-MNG dated 12.11.1959 for 30 years. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

The Lessee submitted the first renewal application (Form-“J”) to the competent authority dated 14.02.1989. Lessee has applied for second renewal on 11.11.2008 for a period of 20 years and lease is valid as per new MMDR Ordinance 2015. Mining Scheme has been approved by IBM vide letter. 682(23) (726)/2010-MCCM (N) Udaipur dated 31.07.2015. The TOR to the project was issued vide letter dated J-11015/244/2013-IA.II(M) 20.02.2015. The Amendment in TOR with respect to production capacity from 10,13,260 TPA (ROM) to 5,99,330 TPA (ROM) and reduced area from 67.1827 to 59.0889 ha was issued on 04.12.2015.

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 document from concerned State Authority that mine lease is located outside the Eco-sensitive Zone and CRZ.
2. 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.

(2.3). J-11015/120/2013-IA-II(M) Virpur (Gunawali) Bauxite Mine of M/s Smt. P.P. Makhecha located at Vill-Virpur (Gunawali), Tehsil-Kalyanpur, District Jamnagar, Gujarat (55.2520 ha)(Consultant:-GRC India (P) Ltd.)

The mine lease is located at village Virpur (Gunawali), Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat. The mine lease area is between 22°15'38.7" N to 22°16'17" N and 69°17'43.6" E to 69°18'25.5" E, Survey No. 110/P. It is a category A Project, and Marine National Park & Marine Sanctuary is present within 5 km of the study area. The mining lease was executed in favour of M/s Smt Pushpaben Prabhudas Makhecha over 55.2520 (reduced area 37.1670 ha). The Mining Lease was granted over an area of 55.2520 ha in village Virpur (Gunawali), Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat vide Govt. order no. MCR-1584(M-40)/5883 CHH dated 01.02.1992 and executed on 27.06.1994 for a period of 20 years. Lessee has applied for renewal on 16.06.2012 and lease is valid as per new MMDR Ordinance 2015. Modified Mining Plan has been approved by IBM vide letter 682 (23) (M.P.-522/2009-II MCCM (N) Udaipur dated 03.09.2015. As per Modified Mining Plan production capacity is revised as 1,51,875 TPA from 8,18,418 TPA with mining working area is 37.1670 ha as blocks are falling in the Eco Sensitive Zone (ESZ) as per the notification issued by MoEC&CC dated 22.08.2013. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

Ministry has accorded ToR to the project vide letter no. J-11015/120/2013-1A-II (M) dated 04.02.2015. The TOR was amended w.r.t. to production capacity from 8,18,418 TPA (ROM) to 1,51,875 TPA (ROM) and reduced area from 55.2520 to 37.1670 ha The amendment was issued on 04.12.2016.

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 document from concerned State Authority that mine lease is located outside the Eco-sensitive Zone and CRZ.
2. 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.

(2.4). J-11015/264/2013-IA-II(M) Virpur Kenedy Bauxite Mine for M/s Prabhudas Vithaldas located at village – Virpur, Taluka – Kalyanpur, District – Jamnagar, Gujarat (70.8216ha) (Consultant:-GRC INDIA PVT LTD)

The mine lease is located at village- Virpur & Kenedy, Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat. The Mine Lease area is between 22°14' 53.1" to 22°16' 10.9"N & 69°17' 3.7" to 69°19' 51.6" E. The project is located in seismic zone- IV. Marine National Park & Marine Sanctuary, Eco Sensitive Zone lies within 5 km of study area. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

The mining lease was executed in favour of M/s Prabhudas Vithaldas – II over 70.8216 ha. The Mining Lease was granted over an area of 70.8216 ha in village- Virpur & Kenedy, Tehsil- Kalyanpur, District- Devbhumi Dwarka, Gujarat vide order no. MNL / 1558 (G-II) on dated 30.05.1963 which was executed on 15.10.1963 for a period of 30 years. Lessee has applied for 1st renewal to Govt. of Gujarat on 31.10.1992 for a period of 20 years and Second renewal was applied to Industries and Mines Department Gandhinagar, Gujarat dated 05.06.2012 and lease is valid as per new MMDR Ordinance 2015. Modified Mining Plan has been approved by IBM vide letter. 682(23) MS 405/2007 MCCM (N) UDP dated 07.09.2015. As per Modified Mining Plan production capacity is revised as 8, 39,398 TPA from 11, 95,803 TPA with mining working area is 56.6573 ha as blocks are falling in the Eco Sensitive Zone (ESZ) as per the notification issued by MoEC&CC dated 22.08.2013.

The method of mining will be Opencast Semi mechanized mining method. Total water requirement for drinking and operations will be 14.88 KLD from nearby villages. The waste generated will be backfilled simultaneously. The estimated cost of the project is Rs. 22.98 lakhs. The Project Proponent has informed that the baseline monitoring has been conducted for summer season March to May-2015 based on ToR conditions and the same is informed to the Ministry vide letter no. PV-II/MoEF&CC/15-16/299 dated 22.04.2015.

Ministry had accorded ToR to the project vide letter no. J-11015/264/2013-1A-II(M) dated 27.01.2015. The amendment in TOR w.r.t. production capacity from 11, 95,803 TPA (ROM) to 8,39,398 TPA (ROM) and reduced area from 70.8216 to 56.6573 ha was issued on 03.12.2015.

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 document from concerned State Authority that mine lease is located outside the Eco-sensitive Zone and CRZ.
2. 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.

(2.5). J-11015/15/2016-IA.II(M) Proposed Limestone Mine of M/s UltraTech Cement Limited (UTCL) located at Villages – Methala, Madhuvan, Jhanjmer, Rajpara, Ralia&Gadhula, Taluka-Talaji, district-Bhavnagar (Gujarat) (851.3216 ha.) Production Capacity 3.21 MTPA (ROM) (Consultant:-J.M EnviroNetPvt Ltd)

The proposal is of M/s UltraTech Cement Limited for Proposed Limestone Mine (M.L. Area- 851.3216 ha) with Production Capacity of 3.21 Million TPA (ROM) at Villages- Methala, Madhuvan, Jhanjmer, Rajpara, Ralia and Gadhula, Taluka- Talaja, District- Bhavnagar (Gujarat). Study area falls between 21° 9'38.582"N to 21°12'50.071"N and 72° 1'1.941"E to 72° 5'51.394"E on Survey of India Toposheet No. 46C / 4 (Restricted). The Project is located in Seismic zone-III. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

The application for Environmental Clearance was submitted to MoEFCC, New Delhi, on 11th Dec., 2015. The proposal was considered in 2nd meeting of the EAC (Non-Coal Mining), held on 20th January, 2016, to determine the Terms of Reference (TOR) for undertaking detailed EIA study. TOR was issued by MoEFCC vide letter J-11015/15/2016-IA. II (M) dated 08th February, 2016. Public Hearing for the proposed mining project was conducted on 16th June, 2016 & Final EIA/EMP Report & Final EIA/EMP Report was submitted on MoEFCC webportal on 12th August, 2016.

The mine lease area is 851.3216 ha, comprising of 6.70 ha of Govt. land and 844.6216 ha of Private land covering six villages. No forest land and grazing land falls within the mining lease area. Letter of Intent (LOI) for the grant of Mining Lease was issued by the Industries & Mines Department, Government of Gujarat vide its letter no. MCR- 1096-1273-(Part-2)-CHH-1 dated 21.07.1999 & LOI in the name of UTCL has been State Government vide order no- MCR/102012/1248/CHH dated 09.07.2015. Mining Plan for the proposed limestone mine was approved by Controller of Mines (NZ), IBM vide letter no:- 682(23)(45)/ 2000-MCCM(Udaipur) dated 23.01.2001 & Progressive Mine Closure Plan by vide letter no: - 682(23) (CLP-103)/2006-(Udaipur) dated 12.01.2007.

The mining operations will be carried out by non-conventional opencast mechanized method without any drilling and blasting. Surface Miner will be used for mining & limestone will be transported to the proposed cement plant located at District Bhavnagar & existing cement plants located at District Amreli (Gujarat) of UTCL through existing roads. Life of Mine is 25 Years and total minable reserves are 33.16 million tonnes. At the conceptual stage, out of the total mining lease area (i.e. 851.3216 ha), total mined-out area will be 469.73 ha; out of which about 63.02 ha will be reclaimed by backfilling / bench slope plantation (10.69 ha on backfilled area & 52.33 ha bench slope plantation) and same will be stabilized by plantation. Remaining mined out area (i.e. 406.71 ha) will be covert into rain water reservoir. Greenbelt & plantation will be developed on 88.02 ha area (25 ha area will be covered under green belt along with haul roads and plantation near mine office workshop etc. & 63.02 ha will be reclaimed by bench slope and backfilled afforestation). It was informed that 351.5916 ha of the area will be undisturbed area and PP proposed to surrender the area.

Total water requirement for the project is 150 KLD which will be sourced from Narmada Water Supply & Mine sump (as and when developed). Mutual agreement for

purchase of water between UTCL & Mahuva Nagar Seva Sadan (Narmada Water Supply authority) has been done. It was reported by PP that no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves are located within 10 km radius of the proposed Mining Lease boundary. There is one Reserve Forest (Methala RF) within 10 km radius study area. List of flora & fauna for core and buffer zone & location map has been duly authenticated by Forest Department. Conservation Plan for five Schedule-I species as per IWPA, 1972, namely Chinkara, Lion, Indian Wolf, Leopard & Peafowl, found in the study area has been approved by Forest Department.

The project area does not fall in CRZ. CRZ Report & map has been prepared & duly authenticated by Institute of Remote Sensing, Anna University, Chennai (An authorized agency by MoEF&CC). Salinity ingress due to the project is not envisaged. Isotopic analysis of water samples has been carried out by Nuclear Hydrology Laboratory of the National Institute of Hydrology, Roorkee. Public Hearing was conducted on 16th June, 2016 at mine site near village Jhanjmer. The Public Hearing was presided over by Shri R.R. Vyas, Regional Officer (RO), Gujarat Pollution Control Board (GPCB), Bhavnagar and Shri Aayush Oak (IAS), Chairman of Public Hearing committee and District Magistrate & Collector, Bhavnagar. The issues raised during Public Hearing were also considered and discussed during the meeting which interalia, included impact of project on ecology & biodiversity of the area in terms of mangroves, migratory route of birds, medicinal plants, etc. impact on landuse in terms of fertility, salinity ingress, project falling in CRZ, employment, drinking water, name change from Grasim to UTCL, solid waste management, etc. About 1053 representations have been received during the public hearing for the proposed mining project which included the following common issues: name change in LOI from Grasim to UTCL, the impact of project on the proposed Methala Bandhara Project, impact of project on migratory route of birds, management plan for wild animals in the study area, project falling in CRZ, Conduction of Public Hearing of two projects on the same day etc. The majority of the public was of the opinion that these issues have not been adequately covered in the EIA/EMP report. Action plan with budgetary allocation against issues raised in public hearing has been prepared & incorporated in the EIA/EMP report along with other details.

Total cost of the Project is Rs. 100.0 Crore/-. Capital Cost for environmental protection measures is Rs. 1.25 Crore /- & Recurring cost is Rs. 40.0 Lakhs/annum and Expenditure proposed towards CSR activities is Rs. 25 Lacs/annum. No Litigation is pending against this project.

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

- (i) An affidavit that land will not be bought and lease will be surrendered for 351.5916 ha of undisturbed area with a map indicating the area to be surrendered.
- (ii) Details of the habitation inside and outside the mine lease with detailed R&R plan of the area.
- (iii) A detailed plan for supply of drinking water.
- (iv) The Public hearing indicates the presence of migratory birds in the area, a report on the conservation of migratory birds shall be submitted.
- (v) The issue of natural stone boundary raised in public hearing shall be addressed and proposal for its protection shall be submitted.
- (vi) The budget for green belt shall be revised and plan shall be resubmitted.

(2.6). J-11015/13/2016-IA.II(M) Proposed Limestone Mine of M/s UltraTech Cement Ltd. (UTCL) located at Villages-Bambhor and Talli, Taluka-Talaja, District-Bhavnagar (Gujarat) (193.3269 ha; 0.53 MTPA). (Consultant:-J.M EnviroNetPvt Ltd.)

The proposal is of M/s. UltraTech Cement Limited for Proposed Limestone Mine (M.L. Area- 193.3269 ha) with Production Capacity of 0.53 Million TPA at Villages- Talli and Bambhor, Taluka- Talaja, District- Bhavnagar (Gujarat). Study area falls between 21° 9'8.871"N to 21°10'20.694"N and 71°57'55.218"E to 71°59'6.534"E on Survey of India Toposheet No. 41 O/ 16 (Restricted). The Project is located in Seismic zone-III. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

The application for Environmental Clearance was submitted to MoEFCC, New Delhi, on 9th Dec., 2015. The proposal was considered in 2nd meeting of the EAC (Non-Coal Mining), held on 20th January, 2016, to determine the Terms of Reference (TOR) for undertaking detailed EIA study. TOR was issued by MoEFCC vide letter no J-11015/13/2016-IA. II (M) dated 08th February, 2016. The Public Hearing for the proposed mining project was conducted on 15th June, 2016 & Final EIA/EMP Report was submitted on MoEFCC web portal on 16th August, 2016.

The mine lease area is 193.3269 ha, comprising of 155.3269 ha of private land & 38.0 ha of Govt. land. No forest land and grazing land falls within the mining lease area. Letter of Intent (LOI) for the grant of Mining Lease was issued by the Industries & Mines Department, Government of Gujarat vide its letter no. MCR- 1095-3994- CHH-1 dated 04.06.2001 in favor of Grasim Industries Ltd. Later on, Grasim Industries Ltd merged with M/s UltraTech Cement Ltd. Lol in the name of UltraTech Cement Ltd. has been granted by State Government vide letter no. MCR/102012/1248/CHH dated 09.07.2015. Mining Plan & Progressive Mine Closure Plan for the proposed limestone mine (ML area 193.3269 ha) has been approved by Controller of Mines (NZ), IBM, vide letter no. 682(23) (310)/ 2004- UDP dated 14.06.2004

The mining operations will be carried out by non-conventional opencast mechanized method without any drilling and blasting. Surface Miner will be used for

mining & limestone will be transported to the proposed cement plant located at District Bhavnagar & existing cement plants located at District Amreli (Gujarat) of UTCL through existing roads. Life of Mine is 38 years and total minable reserves are 19.22 million tones. At the conceptual stage, out of the total mining lease area (i.e. 193.3269 ha), total mined-out area will be 163.72 ha; out of which about 4.0 ha area will be backfilled and reclaimed followed by plantation and 9.2 ha will be developed under bench plantation. Remaining mined out area (i.e. 150.52 ha) will be converted into water reservoir. Greenbelt & plantation will be developed on 19.58 ha area (6.38 ha area will be covered under green belt & plantation along the pits, undisturbed area and along the mine lease boundary, 9.2 ha will be reclaimed by bench slope and 4.0 ha backfilled plantation).

Total water requirement for the project is 60 KLD which will be sourced from Narmada Water Supply & Mine sump (as and when developed). Mutual agreement for purchase of water between UTCL & Mahuva Nagar Seva Sadan (Narmada Water Supply authority) has been done.

It was reported by PP that no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves are located within 10 km radius of the proposed Mining Lease boundary. There is one Reserve Forest (Methala RF) within 10 km radius study area. List of flora & fauna for core and buffer zone & location map has been duly authenticated by Forest Department. Conservation Plan for five Schedule-I species as per IWPA, 1972, namely Chinkara, Lion, Indian Wolf, Leopard & Peafowl, found in the study area has been approved by Forest Department.

The project area does not fall in CRZ. CRZ Report & map has been prepared & duly authenticated by Institute of Remote Sensing, Anna University, Chennai (An authorized agency by MoEF&CC). Salinity ingress due to the project is not envisaged. Isotopic analysis of water samples has been carried out by Nuclear Hydrology Laboratory of the National Institute of Hydrology, Roorkee. Public Hearing for the proposed project was conducted on 15th June, 2016 at mine site near Village Bambhor. The Public Hearing was presided over by Shri R.R. Vyas, Regional Officer (RO), Gujarat Pollution Control Board (GPCB), Bhavnagar and Shri Aayush Oak (IAS), Chairman of Public Hearing committee and District Magistrate & Collector, Bhavnagar. The issues raised during Public Hearing were also considered and discussed during the meeting which interalia, included impact of project on ecology & biodiversity of the area in terms of mangroves, migratory route of birds, medicinal plants, etc. impact on landuse in terms of fertility, salinity ingress, project falling in CRZ, employment, drinking water, name change from Grasim to UTCL, solid waste management, etc. About 624 representations were received from public during the public hearing for the proposed mining project which included the following common issues: name change in LOI from Grasim to UTCL, the impact of project on the proposed Methala Bandhara Project, impact of project on migratory route of birds, management plan wild animals in the study

area, project falling in CRZ, Conduction of Public Hearing of two projects on the same day etc. The majority of the public was of the opinion that these issues have not been adequately covered in the EIA/EMP report. Action plan with budgetary allocation against issues raised in public hearing has been prepared & incorporated in the EIA/EMP report along with other details.

Total cost of the Project is Rs. 30 Crore/-. Capital Cost for environmental protection measures is Rs. 75.0 Lakhs/- & Recurring cost is Rs. 25.0 Lakhs/annum and Expenditure proposed towards CSR activities is Rs. 25 Lacs/annum. No Litigation is pending against this project.

After the detailed discussions by the EAC (Non-Coal Mining), the details of R&R action plan and action plan for activities to be carried out as per need base assessment study carried out for the proposed project was submitted by PP. Budget for Land cost (including compensation), one time rehabilitation allowance to be paid to land owners along with details of plot of land & amount to be paid as per valuation of existing house for building house on the provided plot to be given to 6 nos. of house owners has been submitted. Revised phase-wise greenbelt development & plantation programme along with budgetary allocation for the same has been submitted. The PP i.e. UTCL has given an undertaking to the effect that no housing units falling in the mining lease area will be disturbed.

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

- (i) Details of the habitation inside and outside the mine lease with detailed R&R plan of the area. As informed that six private houses are allocated within mine lease area therefore detailed R&R plan indicating the provision for providing the houses outside the lease area with details like size, cost and land details shall be indicated.
- (ii) The Public hearing indicates the presence of migratory birds in the area, a report on the conservation of migratory birds shall be submitted.
- (iii) The budget for green belt shall be revised and plan shall be resubmitted.
- (iv) The R&R action plan and action plan for activities to be carried out as per need base assessment study shall be submitted.

(2.7). J-11015/36/2015-IA-II(M) Balu/Sand Mining (Minor Mineral) of M/s NM Food Products located at Village Mohani, Tehsil Munger, District Munger, Bihar (225 ha) (Consultant:-Vardanenviro net)

The proposal of M/s M/s NM Food Products is for Balu/Sand Mining with annual production capacity 18,66,240 Tons/annum over an Area 225 Ha at Village Mohani, Tehsil Munger, District Munger, Bihar. The Latitudes and Longitude of Mine lease area for Ganga River, West End N25°19'27"; E 86°19'08". East end:- N25°15'00"; E86°43'33",
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For Mahani River SW end N24°57'15"; E 86°32'39", NE end :-N25°08'56"; E 86°36'04"; For Belharni Nadi South End:- N24°56'41" E 86°35'21", North end:-N25°02'30"; E 86°36'58", and for Badhua Nadi South end:-N24°57'59" E 86°37'46" North end:-N25°05'32"; E 86°40'38"; with toposheet (Survey of India) numbers 72 K/3, 72 K/7, 72 K/11, 72 K/15, 72 K/16, 72 L/8, 72 L/12, 72 L/5 and 72 L/9. Project Proponent reported there is Wild Life Sanctuary i.e. Bhimbandh Wildlife Sanctuary at distance 1.7 Km W. Apart from this there is no other Wild Life Sanctuary /National Park /Biosphere Reserve etc. with 10 Km radius from the lease boundary. However there is one Reserve forest falls i.e. Bhitia Reserve Forest at distance 9.0 Km SE. The Lease area is free from forest. The conservation plan has been prepared to protect the wildlife and accordingly a budget of Rs. 20.00 Lakhs has been allocated to conserve the wildlife in the study area. The Project is located in Seismic zone-III. As per EIA Notification dated 14th September, 2006 this project falls under Category "A", 1 (a), as the lease area is more than 50 Ha.

The TORs were issued by MoEF&CC vide letter No. J-11015/36/2015-IA-II (M) dated 27.04.2015. The proponent submitted Final EIA/EMP to the Ministry on 26.08.2016 for seeking environmental clearance after conducting public hearing. The proposal was considered by MoEF&CC in its 10th Reconstituted Meeting held during April 19-20th 2016 for consideration of Environmental Clearance.

The mine lease area 225 Ha. The land use of the lease area is Gair Mumkin Nadi Nala. M/s Jai Mata Dee Enterprises, R/o Hanuman Complex, Main Road, Nawada, Bihar has been granted the Letter of Intent (LOI) for mining of Balu/Sand (Minor Mineral) under Bihar Minor Mineral Concession Rules, 1972 by District Mining Officer, Nawada (Bihar) vide Memo No. VIII-02/2014/486/M dated 13.11.2014. The proposed project is for mining of Balu/Sand (Minor Mineral) by open cast semi-mechanized and No drilling/blasting are required as the material is loose in nature at District-Munger, Bihar. The total water requirement is 30 KLD including water demand for domestic purpose, dust suppression and plantation development which shall be met by hired tanker. The mining during said period would restrict to depth which would not be more than 3 m. Mineral Balu/Sand will be transported by trucks. The proposed mining operations are not anticipated to raise the concentration of the pollutants beyond prescribed limits.

Project Proponent reported that mining will be done leaving a safety distance from the banks as per mineral concession rule of Bihar State. Mining will be done during day time only. The site elevations are from 33-44 m amsl in North to 50-79 m amsl South. Mineral will be transported through roads. Project Proponent has made the Traffic Analysis survey and reported that frequency of trucks will be deployed 42 per day (25 tons capacity each) which increase 189 PCUs per hour for highways NH-31, NH-80, NH-333, SH-22,. The LOS value from the proposed mine will be the same as before i.e. "C" or "Good" for the National and State highways falling in the study area. Project Proponent reported that haul roads will be repaired regularly and maintained in good conditions.

Baseline data has been collected from Pre-Monsoon (1st March 2015 to 31st May, 2015) within 10 Km radius of the study area as directed by 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 18.07.2016 at 12:30 PM at Town Hall, Munger. The issues raised during the public hearing were also considered and discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control dust pollution, water conservation measures, village development activities and do not harm nearby fields and social development of village.

The capital cost of the project is Rs. 17.65 Crore; the cost for Environmental Protection is Rs. Rs.35.00 Lakhs per annum; Budget for Occupational Health and Safety is Rs.20.00 Lakhs per annum. For ESR Rs.17.50 Lakhs per annum; Budget for Biodiversity Conservation Rs. 20.00 Lakhs will be allocated in this proposed Balu/sand mining activity.

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

- (i) The scientific study on the replenishment of sand shall be submitted.
- (ii) The copy of approved mine plan.
- (iii) The authenticated map regarding location of protected areas within 10 km radius of the mine lease from CWLW.
- (iv) The documents from State Government/SPCB to ascertain that the Public Hearing was presided over by the Officer above the rank of ADM.

RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

- (2.8). J-11015/5/2016-IA.II(M) Sand Minor Mineral Project of M/s Shri Kulvinder Singh S/o Shri Trilochan Singh M/s P.S. Buildtech located at Village Jathlana and Dhakwala, Tehsil- Radaur, District-Yamuna Nagar, Haryana (Lease 101.27 ha; Production Capacity 45 Lakhs TPA). (Consultant:- Vardan Environet)**

The proposal is of Sh. Kulvinder Singh Prop. M/s P.S. Buildtech for mining of Sand (Mine Lease Area–101.27 Ha.) at Jathlana, District Yamuna Nagar (Haryana). The copy of LOI is issued by Department of Mines & Geology, Govt. Of Haryana vide Letter no. DMG/HY/Cont./Jathlana Block /YNR B-12/2015/10070 dated 30.11.2015. Life of mine is 10 years. The Mine plan was approved by Department of Mines and Geology, Haryana vide letter no. DMG/HY/MP/Jathlana Block/YNR B-12/2015/3110

dated 10.06.2016. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

The proposal for TOR was considered in EAC meeting held during January 20-22, 2016, to determine the Terms of Reference (TOR) for undertaking detailed EIA study. TOR was issued by MoEFCC vide letter no. J-11015/5/2016-IA. II(M) dated 08.02.2016.

The project land is situated in riverbed of two villages Jathlana and Dhakwala in the coordinates are as under:

Pillar no	Latitudes	Longitudes
A	N 30° 00' 30"	E77° 14' 46"
B	N 30° 00' 34"	E77° 14' 58"
C	N 30° 00' 34"	E77° 15' 11"
D	N 30° 00' 36"	E77° 15' 11"
E	N 30° 00' 36"	E77° 15' 23.5"
F	N 30° 00' 35.5"	E77° 15' 23.5"
G	N 30° 00' 35.5"	E77° 15' 33"
H	N 30° 00' 24"	E77° 15' 56"
I	N 30° 00' 20"	E77° 16' 00"
J	N 30° 00' 12"	E77° 15' 54"
K	N 30° 00' 19"	E77° 15' 13.5"
L	N 30° 00' 19"	E77° 15' 02"
M	N 30° 00' 20"	E77° 14' 59"
N	N 29° 59' 48"	E77° 14' 39"
O	N 29° 59' 51"	E77° 14' 37"
P	N 30° 00' 00"	E77° 14' 37.5"
Q	N 30° 00' 11"	E77° 14' 43.5"
R	N 30° 00' 15"	E77° 14' 42"

The proposed project is for mining of Sand by open cast semi-mechanized at Yamuna river Tehsil-Radaur and Distt-Yamuna Nagar, Haryana with proposed production capacity of 45,00,000 TPA of Sand. The total geological reserve is 60,76,200 Metric Tons and total mineable reserve is 45,40,200 Metric Tons. Mine lease area will be worked in blocks and the ultimate depth will be 3 m. The

replenishment with respect to the production capacity was analysed as per the Dandy-Bolton's equation. Sand will be transported by trucks of 25 Tons capacity and 200 dumpers will be deployed for transportation of minerals. Total water requirement for the project is 70 KLD. Total man power requirement for the project is 120.

It was reported by the PP that no National Parks/Wildlife Sanctuaries/Biosphere Reserves/Wildlife Corridors/Tiger/Elephant Reserves are located within 10 km radius of the proposed Mining Lease boundary. There are one Protected Forests within 10 km radius study area. The conservation plan for Schedule-I species, *Pavo cristatus*, *Herpestes edwardii* and *Macaca mulatta* was also submitted. Baseline data was collected for the winter season (December to February, 2016). All the parameters of monitoring data *i.e.* Air, Water, Soil and Noise were found within permissible limit.

The public hearing was held on 24.05.2016 at Jathlana, Yamuna Nagar, Haryana. The public hearing was presided over by Shri S.S. Phulia, Deputy Commissioner, Yamunanagar. This project will enhance the opportunities of employment for the local villagers. It is proposed to plant 1000 Nos. per annum of native species along with some fruit bearing and medicinal trees during the mining plan period. The project cost is 12 crore and a budget of Rs. 30.00 Lakhs for Environmental Social Responsibility, budget for conservation of biodiversity is Rs. 9.10 Lakhs, budget of Rs. 15.00 Lakhs for Occupational Health and Safety and budget of Rs. 36.00 Lakhs for EMP will be incurred by Project Proponent to address all social, physical, ecological and environmental issues.

There is no court case against this project, however there is a court case in the matter of M/s Om minerals v/s State of Haryana and others [CWP No. 7991 of 2014], wherein the petitioner had challenged the demand/levy of stamp duty on execution of (Contract Agreement). The State Government (Dept. of Mines and Geology) has issued Lol subject to the outcome of this case. The above mentioned case is still pending before Hon'ble Punjab and Haryana High Court for adjudication. It was reported that the Project Proponent has not filed any court case against any department neither he is a party in this case.

The proposal was placed in the EAC meeting held during July 21-22, 2016 wherein the Committee deliberated at length the information submitted by PP and deferred the Proposal for want of following information:

- (i) The replenishment study shall be done and report shall be submitted.
- (ii) The evacuation gates w.r.t. haulage road and detailed traffic analysis shall be submitted.
- (iii) The Disaster Management Plan of the area shall be submitted.
- (iv) The Transportation plan and Plantation programme is to be revised with budgetary provisions.

The PP submitted that information online therefore the proposal was considered in the present meeting. The Committee deliberated at length the information submitted by PP and **deferred the Proposal** for want of following information:

- (i) The scientific replenishment study shall be done and report shall be submitted.
- (ii) The evacuation gates w.r.t. haulage road and detailed traffic analysis shall be submitted.
- (iii) The Disaster Management Plan of the area shall be submitted.
- (iv) The Transportation plan and Plantation programme is to be revised with budgetary provisions.

(2.9). J-11015/178/2016.IA.II (M) Musyoli Chak Joshigaun Soapstone Mining Project of M/S Shri Bhupal Singh Kanwal located at Village- Musyoli Chak Joshigaon, Tehsil & District Bageshwar, Uttarakhand. (17.976Ha) (Consultant:- GRC Inida Pvt. Ltd.)

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. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

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 –/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 proposal was considered by EAC in the meeting held during August 22-23, 2016, 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.

On submission of the information the proposal was considered in the present meeting. The PP submitted that the District Survey Report is under preparation and state authority has given letter to this effect. The PP also submitted that as per the amendment to the EIA, notification, dated 01.07.2016 the clause of cluster shall be applicable to the mine leases or quarry licenses granted on and after 9th September, 2013 the adjoin leases were granted prior to the 09.09.2013 therefore the cluster approach is not applicable to the project.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for proposed Musyoli Chak Joshigaun Soapstone Mining Project of M/s Shri Bhupal Singh Kanwal located at Village- Musyoli Chak Joshigaon, Tehsil & District Bageshwar, Uttarakhand with proposed production capacity of 53,275 TPA (ROM) over the mine lease area of 17.976Ha.

(2.10). J-11015/192/2011-IA.II(M) River Bed Mining of Sand, Bari and Stone (Minor Mineral) of M/s Smt. Asha Rani Dang, Village Baddi Shitapur, Landewal, Kalyanpur & Kainduwal, Tehsil Nalagarh, District Solan, Himachal Pradesh (Area-70.9312 ha) (Consultant:-M/s Udaipur Min-Tech Pvt. Ltd)

The Proposal of Smt. Asha Rani Dang w/o Shri Sh. Trilochan Singh situated at Asha Niwas, Housing Board Colony, Face II, Nr Block no. 22, Saproon, Dist. - Solan (H.P.) is for mining of Sand, Bajri & Stone (Minor Minerals) with production capacity of 1,32,765 Tons/ Annum (ROM). The mine is located at River – Sirsa village Baddi, Shitalpur, Landewal, Kalyanpur, Kainduwal), P.O. & Tehsil Nalagarh, District Solan, Himachal Pradesh in the mine lease area of 70.9312 ha. The Latitude and longitude of the mine lease area are 76° 45' 51'' E to 76° 47' 27'' E and 30° 54' 49'' N to 30° 56' 35'' N respectively on survey of India topo sheet no. 53 B /13. The project is located in seismic zone –IV.

The proposal for TOR was considered by the Expert Appraisal Committee (mining) in its meeting held during October 19-21, 2011 to determine TOR for undertaking details EIA study. The TOR was issued by MoEF&CC vide letter number J-1015/192/2011-IA.II(M) on dated 1st May, 2012. The application for ToR extension was considered in the EAC meeting held during September 22-24, 2015 and extension of ToR was granted for period of 01.05.2015 to 30.04.2016 vide letter no J-11015/192/2011.IA.II (M) dated 5th November 2015.

It was noted that it is a violation case as the mine operated without prior environment clearance and the mine lease renewal fell due in 2012. PP has submitted the Board Resolution in form of affidavit dated 17.01.2012 that such violation will not be repeated in future. The Mining Officer, Solan vide letter dated 22.09.2015 no. Udyog/SLN/MM/lease/2011-832 has informed that mining operations had been stopped w.e.f. since November, 2011. The prosecution report has been filed in the Court of Ld. Chief Judicial Magistrate, at Nalagarh, District Solan, HP on 8.01.2015 vide Case No.PCB/148/M/s Rama Stone Crusher/14-23746 to take cognizance of offence by the said court under section 15 of Environment (Protection) Act, which has been committed by the offending project and the same have been taken on record.

The mining lease area of 93.6024 ha (1170.03 bighas) for extraction of Sand, Bajri and Stone was granted vide Govt. order no. Udhog Bhu- (khani-4) Laghu -319/95/7685 on dated 26.11.1996. for a period of 5 years in village/ Mauza Baddi, Shitalpur, Landewal, Kalyanpur, Kainduwal in Tehsil – Nalagarh, District- Solan, State – Himachal Pradesh. During the joint inspection of lease, an area of 239.84 bighas was deducted and earmarked for plantation and protection of irrigation scheme. Therefore mining lease was reduced to an area of 930.19 Bighas (74.415 ha).

The mine lease was renewed twice, for a period of 5 years. The application for 3rd renewal of lease was filed on dated 22.02.2011 for an area of 70.9312 Hectare (899.14 Bighas) for further 5 years. Letter of Intent has been granted for renewal of grant of mining lease for mining sand, stone, bajri vide letter Nos. Udyog-Bhu(khani-4) Laghu-319/95- Vol I-3867 dated 15-07-2015.

Mining plan for renewal of mining lease has been approved on 12.02.2016 vide letter no Udyog –Bhu(Khani-4) Laghu-319/95- Vol-I-11340. The mining will be done manually without drilling and blasting. The mining will be done only during day time and completely stopped in monsoon season, no mining machinery will be deployed. Excavation will be carried out up to a maximum depth of 1m from surface deposit. The ground water depth is 6m bgl in pre monsoon season and 5 m bgl in post monsoon season.

The site elevation is 360 to 388 m about msl. The total water requirement will be 7.5KLD (2.0 KLD for drinking, 2.5 KLD for dust suppression and 3.0 KLD for plantation). Water will be available from borewell outside lease area. The loaded tractor trolleys/trucks will carry the material, about 490 tons of sand bajri and stone would be required to be moved daily.

It was reported by the PP that no national park, wildlife sanctuaries, tiger reserves fall within study area the base line data was generated for period during December 2012 to February 2013. The parameter of water and air quality was within permissible limit. The public hearing for proposal was conducted on dated 11.09.2013 at village – shitalpur, Tehsil – Baddi, District – Solan, Himachal Pradesh. The public hearing was presided over by ADM, during the public hearing suggestion, objection were invited from the local people regarding the project. The cost of project is Rs 30.0 lakhs and capital cost of EMP will be Rs 10.0 lakhs and amount earmarked for social fund is Rs 2.50 lakhs for plan period.

The proposal of EC was appraised in the EAC meeting held during **March 21-22, 2016** wherein the Committee deliberated at length the information submitted by the project and the presentation made by the proponent and based on the discussion held the Committee noted that the replenishment study done by consultant does not support the production capacity of the project. The Committee therefore **deferred** the proposal and sought the following additional information: (i) The replenishment study report justifying the production capacity of the project. (ii) The annexure of EIA report are not numbered and uploaded on the website, the consultant is requested to do proper numbering of all the pages of the EIA report and upload on the Ministry website and also consultant to provide the explanation for incomplete uploading of EIA report.

The Project proponent submitted point-wise requisite information to MoEFCC online therefore proposal was considered in the present meeting. The PP submitted the replenishment study report prepared by K.C. Katoch, retd. Geologist, justifying the production capacity of the project. The consultant informed that while uploading the proposal on MoEF portal, it is mandatory that the complete application should not exceed 20MB & on uploading this EIA report with annexure it was not getting uploaded, so EIA report was uploaded without annexures.

The proposal was placed in the EAC meeting held during **July 21-22, 2016** Committee deliberated at length the information submitted by PP and **recommended** the Proposal for environmental clearance with additional specific conditions for Mining

of Mineral Sand, Bajri and Boulder (Minor Mineral) with proposed production capacity of **1,32,765 TPA (ROM)**.

The matter was examined in the Ministry and it was decided that the scientific replenishment study shall be done and report shall be considered by the EAC. The proposal was therefore, placed before the EAC for re-consideration the Committee deliberated at length the information submitted by PP and **deferred the Proposal** for want of following information:

- (i) The scientific replenishment study shall be done and report shall be submitted.

CONSIDERATION OF TOR PROPOSALS

(2.11). Lime stone mine of M/s Vertex Cements (P) Ltd located at Telukutla, Daida and Gangavaram Villages, Gurazala Mandal, Guntur District, Andhra Pradesh (ML Area: 1539.53 acres (623.039 ha)IA/AP/MIN/58028/2016

The mine lease area is located in the revenue boundary of Telukutla, Daida and Gangavaram Villages, Gurazala Mandal, Guntur District, Andhra Pradesh. The mine site location falls in survey of India Top sheet no. 56 P/10 at the intersection of 79° 34' 39.09" - 79° 37' 37.46" E longitude and 16° 36' 4.50" - 16° 37' 17.029" N latitude. The site elevation above Mean Sea Level (MSL) is 103 -110 m. The mine site is surrounded by open lands in all directions. The nearest hamlet is Lakshmi Gangavaram Camp at a distance of 0.85 km in Southeast direction. The site is connected to Macherla – Guntur state highway at a distance of 4.5 km in south direction. The nearest railway station is Rentachintala 7.1 km in SE Direction (South central Railway Macherla – Guntur Branch). Interstate Boundary of Andhra Pradesh - Telangana is at a distance of 3.9 km in Northwest direction. Krishna River is at a distance of 3.7 km in Northwest direction. There is no national park and or wild life sanctuary within 10 km radius. There are six reserve forests located within 10 km radius of the ML area; Daida RF at a distance of 2.1 km in North direction, Virlapalem RF at a distance of 4.6 km in North direction, Goli RF at a distance of 5.7 km in Northwest direction, Adividevulapalli RF at a distance of 6.1 km in Southwest direction, Paluvayi RF at a distance of 8.5 km in Northeast. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

Water requirement is for domestic use, wet drilling, dust suppression, and greenery development. The required water quantity is 220 KLD, which is abstracted from mine seepage water / bore wells/Krishna River. Wastewater generated from domestic source shall be sent to septic tank followed by soak pit. Total cost estimated for the proposed project is Rs. 63.87 Crores and EMP Cost tentatively Rs. 1 crore. No court case/violation.

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).Chinaclay mining of M/s Oriental Prospecting Company located at Survey no. 27, 34 & River Bed paiki, village Kot, Taluka : Vijapur, District: Mehsana, Gujarat (56.83 ha.) IA/GJ/MIN/58226/2016

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

(2.13). Babarzar Limestone Mine of M/s. Prabhudas Vithaldas located at Village Babarzar, TalukaLalpur, District-Jamnagar with production capacity of 44664 TPA of ROM. (76.89 Ha). IA/GJ/MIN/58376/2016

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

(2.14). Silica Sand Mine of M/s K. SeshagiriRao& Co. located at Kothapatnam Village, Kota Mandal, SPS Nellore District, Andhra Pradesh (50.60 Ha.)IA/AP/MIN/58389/2016

The Mine Lease area is located in Sy. No. 628/A of Kothapatnam Village, Kota Mandal, SPS Nellore District, Andhra Pradesh. The mine site location falls in:

S.N.	LATITUDE	LONGITUDE
1	14° 06' 36.64"	80°06' 01.29"
2	14° 06' 37.21"	80° 06' 11.08"
3	14° 06' 06.69"	80° 06' 14.75"
4	14° 05' 36.34"	80° 06' 21.16"
5	14° 05' 33.34"	80° 06' 10.28"
6	14° 06' 19.36"	80° 06' 05.72"

The mining lease was granted in favor of K. Seshagiri Rao & Co, over an extent of 125 Acres or 50.60 Ha. in Sy.No.628/A of Kothapatnam Village, Kota Mandal, SPS Nellore District, vide G.O.Ms.No.176 of Industries & Commerce (Mines-I) Dept, Govt. of Andhra Pradesh dated 03.07.2007. The ML was executed on 08.08.2007 for a period of 20 years vide Procs. No.2424/M/2002 dated: 08.08.2007 of the ADM&G, NLR and valid upto 07.08.2027. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

The mining plan was approved under letter No: 7737/R3(2)/MP/2005, Dated: 08.12.2005 by the Dept of Mines & Geology, Hyderabad. The mining plan period of 5 years and effective from the date of execution i.e. 08.08.2007 and expired on 07.08.2012.

Subsequently the 1st scheme of mining period of 5 years would be from 08.08.2012 to 07.08.2017. In the 1st scheme period about one year period i.e from 08.08.2012 to 08.08.2013 is lapsed and also same was approved vide letter no:285/MS/NLR/13.Dated:03/07/2013 for period of 4 years i.e. from 08.08.2013 to 07.08.2017 for a production of 8,27,550 T.

To get the required quality/grade to meet the demand by increasing production from 4,13,250 T to 7,87,810 T for about two years by seeking modification of first mining scheme. Hence the modification of first mining scheme for two years, i.e, 2015-16 and 2016-17 (ending 07.08.2017) submitted for approval. And same was approved by vide letter no:285/MS/NLR/2013.Dated:22/08/2015.

The proposed method of mining is by opencast manual Mining Method by employing locally available Manpower. Manual open cast method of digging, scooping and excavating with the help of simple tools like spade / pawdas. It is proposed to produce 4,03,560 TPA of Silica Sand.

The water will be required for dust suppression to prevent fugitive dust emissions, greenbelt development and for domestic purpose will be 27.2 KLD. The water requirement will be met from the bore well. Only source of waste water generation will be sanitary waste water which will be treated in septic tank followed by soak pit. The mine is in operation from August, 2007 to September, 2015. Hence it is a violation case. As per the directions of MOEF, Government of Andhra Pradesh has filed case in Hon`ble Court and the C.C. No. is 497/2016 dated 15/07/2016. The PP vide letter dated 01.09.2015 has submitted before the IBM and Department of Mines and Geology, SPS Nellore that their mining operations is stopped from 01.09.2015. Cost of the project is Rs. 20.0 Lakhs.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **deferred** the proposal and requested to submit a letter from State Government that their mining operations have been stopped since 01.09.2015.

(2.15). Sonadih Limestone Mine (ML-1) with production capacity of 5.50 MTPA by M/s Lafarge India Private Limited, located near Villages-Sonadih, Dhabadih, Raseda, Keshdabri, Baloda Bazar Tehsil & Balodabazar-Bhatapara District, Chhattisgarh (M.L. Area : 294.160 Ha) (Consultant: BS Envi-Tech Pvt. Ltd.)-Consideration of TOR.

The proposal of M/s Lafarge India Private Limited is for Sonadih Limestone Mine (ML-1) mining project with production capacity of 5.50 MTPA. The mine is located in Villages-Sonadih, Dhabadih, Raseda, Keshdabri, Baloda Bazar Tehsil & Balodabazar-Bhatapara District, Chhattisgarh in 294.160 Ha. The mine lease area lies between the 21⁰43'10.0"- 21⁰45'0.0" North latitude and 82⁰10'50.0"-82⁰12'20.0" East Longitude with

an average altitude of 243-259m above MSL on the Survey of India Toposheet No. 64/K/2.

Total mine lease area is 294.160ha, out of which is 277.025 ha is patta land and 17.135 ha is Govt. Land. The mining of the deposit is proposed to be worked by deep hole drilling & blasting with fully mechanized open cast conventional method. The excavated limestone will be transported by dumpers to crusher located in the cement plant which is adjacent to the ML area. Limestone resources are about 101 Million Tonnes which will last for 19 Years with production capacity of 5.50 MTPA. Project Proponent reported that Govt. of Chhattisgarh, vide letter dated 15-06-2016 sanctioned the mine lease. PP informed that there are no National parks/Sanctuaries within 10 km radius of the project area. PP informed that there is no court case /litigation pending against the project.

Based on the information furnished and presentation made by the Project Proponent and discussions held the Committee **deferred** and may be considered after **submission** of status of the land acquisition.

(2.16). Bandla Limestone Mine of M/s Friends Minerals located at Mauza Shamah Pamta, Tehsil-Poanta Sahib, Distt-Sirmour, Himachal Pradesh (60021 TPA; 4.91 ha) IA/HP/MIN/58619/2016.

The proposed project is a Hill Slope Mining Project for the mining of lime stone located at Mauza Shamah Pamta, Tehsil-Poanta Sahib, Distt-Sirmour, Himachal Pradesh. The proposed project is having lease area of 4.96 ha (58-18 bighas), Bandla limestone mine was sanctioned on 01.08.1985 in favour of M/s Friends Minerals for 20 years/31.07.2005 Renewal was applied 23.07.2007 for period of 20 years which was extended upto 31.07.2015. As per section -8A introduce by MMDR (Amendment) Act 2015, the lease extended upto 31.07.2035. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

As per MoEF, New Delhi Gazette dated 14th September 2006 and amended thereafter, the proposed mining project is categorized as category 'A' due to the presence of Interstate Boundary of Uattrakhand and Himachal Pradesh within 5 km of the study area, there are other mine lease exists in the 500 m periphery of the lease area. The sum total area is 12.46 ha as per mining officer letter.

S.No	Name of mine lease	Area
1	M/s friends Minerals	4.96 Hect
2	M/s Savita Chauhan	3.10 Hect
3	M/s A Dean & Company	4.4 Hect
Total Area		12.46 Hect

The proposed project activity will be carried out from the Hill Slope. It has been proposed to collect 6,0021 TPA (maximum) of lime stone. Maximum mine waste will be generated is 12 m³ will be generated per year during operation of mine. The proposed project activity will be carried out from the Hill Slope. It has been proposed to collect 6,0021TPA (maximum) of lime stone. Maximum mine waste will be generated is 1,264 cum per year will be generated per year during operation of mine.

The lease area forms a part of hilly terrain lying between Dehradun and Shimla. The general slope of the hillock is towards north east. Highest level of the area is 1434 mRL towards south west slope while lowest level is 1386 mRL towards north east flank of lease area. Seasonal nallah exists in the central part of the lease area which flows from SW to NE direction.

The capital cost of the project is Rs. 55 Lakh and the annual recurring cost for the environment protection measures is proposed as Rs. 6.0 Lakh including pollution control and monitoring. About 500 sapling of local bushes and plants shall be planted in proposed five year plan.

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**.

(2.17). Fuser Iron Ore Mining of M/s Corporate Ispat Alloys Limited located at Village: Fuser, Tahsil: Chamorshi, Dist: Gadchiroli, Maharashtra (72.60 Ha)IA/MH/MIN/58688/2016.

The Iron Ore Mining Project is Located at Survey No 12 (Forest Compartment No.21) Village Fuser, Tahasil Chamorshi, District Gadchiroli, Maharashtra. The Lease area over 72.60 ha is covered with in the survey of India Toposheet No. 65 A/1, and it lies between Coordinates 19°53'48"N to 19°54'20"N and 80°08'42"E to 80°09'41"E. The Mining lease was granted by Govt. of Maharashtra vide letter No. MMN-1005/CR 931/Ind-9 dated 11th Nov 2011. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

The Mining Lease area falls under Reserve Forest compartment No.21. Nearest Town is Chamorshi 27 Km, District H.Q. is at 35 km and nearest railway station is Mul is at 55 km. The lease area is on hilly terrain sloping towards south and north waste, general height of the area is 281 m above msl, The drainage is controlled by a small gullies formed due running rain water along the slops. The drains joins the river Mandoli flowing North waste at a distance 7 km. The total estimated reserve of Iron Ore is 0.571 Million Tons. Iron Ore mine shall be developed as fully opencast semi-mechanized mine for the production of Iron Ore @1.025 MTPA.

Waste material shall comprises of soil, weathered Iron Ore and intercalated boulders and physical rejects generated during the mining. The water requirement of the project is estimated to be 5 m³/day of the water is required for drinking/domestic

purpose. Water requirement for dust suppression (within the lease and outside the lease in nearby villages), plantation and vehicle washing will be met from mine water and from rainwater collected in mining pit. Necessary permissions shall be obtained from the competent authorities.

The power requirement will be met from adjoining from State electricity board. Ground water table is expected to be at more than 20 m depth from surface level. There is no National Park, Wildlife sanctuary, defense installation or sensitive area located within 10 km radius of the proposed mine. The Tiger Corridor is located at a distance of 4 km from the mine lease. The anticipated Project Cost is Rs. 10.70 Crore approx. The Capital budget for environment protection measure is estimated to be Rs. 50 Lakhs.

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**.

(2.18). 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 Kalamalla Limestone Mine Lease (413.0 Ha) is located at Kalamalla & Chilamkur villages, Yerraguntla Mandal, Y.S.R. Kadapa District, Andhra Pradesh. The Mine site falls between 14° 40' 16.45" - 14° 41' 32.64" North latitude and 78° 27' 15.40" - 78° 28' 59.16" East longitude with an average altitude of 175 m above MSL. The project is a Category – A project.

The Opencast fully mechanized conventional method of mining will be adopted. The excavated limestone will be transported by dumpers to the crusher located in factory and in future planned to transport with the help of in pit crushing and belt conveyor system. Mining Lease was granted by Govt. of Andhra Pradesh vide Memo No. 11092/M.III-1/93-13 dated 02-12-2005. Total water requirement is 100 m³/day for domestic, workshop, green belt & dust suppression of the mines. The water required for mining utilities will be initially sourced from Cement plant & later from the mine pit itself. The Case W.P. No. 1813 of 2007 filed in Hon'ble High Court of Andhra Pradesh by M/s Lok cement on rejection of their Prospecting L applications and grant of part of the area to ICL. The Court has issued a direction to the State Authorities to maintain status quo as to grant of Mining Lease in the land in question for a period of two weeks and the status quo is continuing. The Capital Cost is Rs. 165 crores.

Based on the information furnished by the Project Proponent and discussions held, the Committee was of the view that **the proposed project area involves the diversion of agriculture area utilized mostly for pulses production. In addition, mining activities would also alter the water & moisture regime of the area affecting nearby agricultural fields** and hence will have adverse impact on agricultural productivity in area larger than the project area. The proposal in the present

form was not accorded ToR and **deferred**. The committee suggested to PP to apply afresh for an alternative mining site or with reduced area actually required for mining at the present site and also provide the status of the court case w.r.t. the LOI issued to mine lease.

(2.19). 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

India Cements Limestone Mines (609.119 Ha.) is located at Ganapur & Burgupally Villages, Chincholi Taluk, Kalaburagi (Gulbarga) District Karnataka. The Mine site falls between North Latitude 17⁰19'27" & 17⁰21'31" and East Longitude 77⁰25'30" & 77⁰27'29" an average altitude of 440-487m above MSL. Chincholi Wildlife sanctuary is at 8.0 km in the NNE. The project is a Category – A project.

Opencast conventional Mechanized Method of Mining will be adopted. The excavated limestone will be transported by dumpers to crusher and crushed limestone will be transported to cement plant by closed belt conveyor. Letter Of Intent (LOI) for the Mining Lease was issued by Govt of Karnataka vide letter no. DMG:MLS:673:AML2009:11-12/9976 dated 17th November, 2017 (LOI submitted to MoEF along with TOR Application). Total water requirement is 100 m³/day for domestic, workshop, green belt & dust suppression of the mines. ICL has proposed to tap water from River Kagina for the plant purpose. The water required for mining utilities will be initially sourced from Cement plant & later from the mine pit itself. The Capital Cost is Rs. 150 crores. The litigation on lease area is pending in the Hon'ble Court and matter is subjudice.

Based on the information furnished by the Project Proponent and discussions held, the Committee was of the view that **the proposed project area involves the diversion of agriculture area utilized mostly for pulses production. In addition, mining activities would also alter the water & moisture regime of the area affecting nearby agricultural fields** and hence will have adverse impact on agricultural productivity in area larger than the project area. The proposal in the present form was not accorded ToR and **deferred**. The committee suggested to PP to apply afresh for an alternative mining site or with reduced area actually required for mining at the present site.

(2.20). Iron Ore Mine of M/s Sai Balaji Minerals located at Village Obulapuram, d. Hirehal Mandal, Anantapur District Andhra Pradesh (4.06 ha) IA/AP/MIN/55797 /2016.

M/s Sai Balaji Minerals was granted lease for Iron Ore mine, over an extent of 4.046 Hectares., in Sy.No.370 & 58/ P of Obulapuram Village, D.Hirehal Mandal,

Anantapur district, of Andhra Pradesh for a period of 20 years. The proposed production capacity is 96126.24 TPA of Iron Ore minerals from this mine. The Mine Lease area is located at Sy. No: .370 & 58/ P of Obulapuram Village, D.Hirehal Mandal, Anantapur district. The Mine Lease area is located in a Latitude 15° 3' 10.0" N - 15°3' 9.6" N and longitude 76 51' 31.6" E -76 51' 42" E.

The lease area is proposed to be worked by open cast Semi Mechanised method of mining by using machinery and with drilling and blasting. Based on the recommendation of the Government of Andhra Pradesh have proposed to grant Mining lease for Iron Ore mine with G.O Ms.No.158 Industries & Commerce (M.III) Depart. Dated 20-06-2007. For this purpose a mining plan approved by the regional controller of Mines, IBM vide letter No: AP/ANP/MP/Iron-12/HYD Dated:29.03.2016. The water requirement for this proposed mining activity will be for Dust suppression purpose: 9.5 KLD, Domestic purpose: 1.5 KLD and Greenbelt purpose:1.0 KLD. There is no generation & discharge of wastewater from this mine.

It is reported by the project proponent that there is no court case / litigation is pending against the project. The cost of the Project is 45 lakhs.

Based on the information furnished by the Project Proponent and discussions held, the Committee **deferred** the proposal and was of the view that the **PP shall submit the following:**

- (i) The updated mine plan shall be submitted.
- (ii) Production details since the start of operation of the mine plan shall be submitted.
- (iii) The report from the RO, Chennai to ascertain if this is a violation case or not.

(2.21). Hatgacha Black Stone Mines of M/s West Bengal Mineral Development Mineral Development & Trading Corporation located at Village: Hatgacha, P.S. Mahammad Bazar District: Birbhum, West Bengal, IA/WB/MIN/58536/2016

The proposal of M/s West Bengal Mineral Development and Trading Corporation Limited has proposed to mine black stone from Hatgacha Blackstone Mines within the lease area of 43.921 ha. by opencast mining method. The mining process shall include drilling, blasting, crushing, etc. The mine shall be developed to produce 8,39,808 TPA of ROM. The proposed mining project is located in Birbhum district of West Bengal. The ML area is covered under the SOI toposheet No. G45V12 (72 P/12) and has the following coordinates. Latitude- 24° 06' 52" to 24° 07' 16" N Latitude- 87°0 35' 20" to 87° 36' 01" E. This mining project belong to 'A' Category Since the Interstate boundary between West Bengal & Jharkhand is 500m away in West direction.

The lease area is gently sloping to flat terrain with general slope of ground towards south east and with occasional high grounds or peaks containing basaltic trap rocks of 90 to 100m AMSL high. Otherwise, the ML area has a height of 71 to 85m AMSL. The quarry may deepen upto 110m from the surface level as the reserve is

observed to be available upto that limit. Mining shall commence from the eastern part of the leasehold and completed upto the reserve level of about -38m AMSL.

The Mining plan for the period 2015-16 to 2019-20 was approved by the CMO Asansol, under West Bengal Minor Mineral Rules, 2002, vide memo no. 235/CMO dated 28.7.2014. The peak water requirement shall be 15 cum/ day and shall be met from the ground water source with due permission. With the continuation of mining operation, the pit size increases and accumulated rain water shall be pumped out & used in dust suppression & plantation. The mining rejects and black stone fines marketable and will be sold as road ballast.

It was reported by the PP that there is no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves within 10 km radius of the mine site. It is reported by the Project Proponent that there is no court case / litigation is pending against the Project. The total project cost is estimated to be Rs. 14.32 crores and there is budgetary provision of Rs 140 lakhs toward environmental protection measures.

Based on the information furnished by the Project Proponent and discussions held, the Committee **deferred** the proposal and was of the view that the **PP shall submit the following:**

- (i) The revised form-I and PFR shall be submitted as various discrepancies were observed in the application.

Day 2: 20th September, 2016 (TUESDAY)

CONSIDERATION OF ENVIRONMENT CLEARANCE

(2.22). J-11015/277/2012-IA.II (M) Palakhada mining project of Bauxite mine by M/s Saurashtra Minerals Pvt. Ltd., located at Village Palakhada, Tehsil and District-Porbandar, Gujarat (90.5279 ha) (Consultant:-Kadam Environment Consultants)

The proposal of M/s Saurashtra Minerals Pvt Ltd is for enhancement of production capacity of Laterite from 9,029 TPA to 76,520 of Palakhada Laterite mine with lease area 90.5279 ha, located at Survey No. 184, 185, 286, 290, 299 & 300, in Village Palakhada of Taluka and District Porbandar of Gujarat State. Palakhada Bauxite mine is located within the coordinates a) 21°46'36.83"N, 69°29'36.68"E to b) 21°45'27.24"N, 69°29'36.01"E and c) 21°45'50.23"N, 69°29'7.81"E to d) 21°45'54.40"N, 69°29'40.71"E on Survey of India Toposheet No F42P5. There is no National Park or Wildlife Sanctuary within 10 km of mine lease area. The project is located in Seismic Zone III. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

The proposal of ToR was considered by the Reconstituted Expert Appraisal Committee in its meeting held during December 19-21, 2012 to determine the Terms of

Reference (ToR) for undertaking detailed EIA study. The ToR was issued by the Ministry vide letter no J-11015/277/2012-IA. II (M), dated 15th December 2014. Corrigendum in ToR was issued by MoEF&CC on 30th November 2015. Public hearing was conducted on 28th January 2016. The proponent submitted the EIA/EMP report online to Ministry for seeking environment clearance after conducting public hearing.

The mine lease area is 90.5279 ha. The lease area is Non-forest Government Waste land. The mining lease was granted to Saurashtra Minerals Private Limited (SMPL) for a period of 20 years from vide a government order dated 15.10.1980 and the lease deed was executed on 11.02.1981. The lessee had made an application for first renewal and the mining lease has been further renewed for a period of 20 years vide Order No. Order No. MCR-1501-2734-CHH dated 12.07.2004 for a period of twenty years from 10.02.2001 to 09.02.2021. As per MMDR Amendment Act 2015 sub sections 5 and 6 of section 8A the mining lease is deemed to have been granted up to the year 2031.

It is reported by Project Proponent (PP) that method of mining is Open Cast Semi Mechanized. Geological reserves under proved and probable category are 56,78,344 MT and 2,34,618 MT respectively. Life of mine is 40 years. The waste generated during scheme period will be very less and is proposed to be stacked along statutory barrier. No backfilling is proposed and the pit generated during scheme period will be used as water reservoir.

The proponent informed that total water requirement for drinking domestic, dust suppression and green belt development is 13.4 KLD. Water required for domestic purpose will be supplied through tanker from nearby village and water collected in mined out pit will be utilized for dust suppression and green belt development. Ultimate working depth will be up to maximum 8.5m bgl and ground water level is observed at 12m bgl, thus working will not intersect ground water level.

The project proponent had informed that the baseline monitoring has been conducted for summer season March to May 2015 based on ToR condition. The public hearing for the project was conducted on 28th January 2016 at project site of M/s Saurashtra Minerals Pvt Ltd. at Survey No 185, 290, 299 & 300, Village Palakhada, Porbandar – Harshad Road, Taluka and District Porbandar.

Total cost of the project is Rs. 245 lakhs. Man power requirement is 122. PP informed that their CSR activities are budgeted at cost of Rs 16.5 lakhs, which include community latrine, solar light, veterinary camp, awareness programme for animal care, animal fodder, training program, educational activity and medical facilities. The proponent informed that credible action has been initiated by GPCB for excess production violation.

Based on the information furnished and discussion held, the committee deferred the proposal and was of the view that PP has to submit the following documents for further decision on the matter by the committee

- i. Letter from Geology and Mining Department, Porbandar stating that there have been no mining activities at site since submission of Board resolution and court case papers to MoEF&CC.
- ii. The Conservation plan for Schedule 1 species shall be submitted.
- iii. List of flora and fauna of study area shall be authenticated by State Forest Department.
- iv. Revised plantation details with increased number of trees and budget shall be submitted.

(2.23). J-11015/276/2012-IA.II(M) Palakhada Mining project of Bauxite mine of M/s Saurashtra Minerals Pvt. Located at Village Palakhada, Tehsil and District Porbandar, Gujarat (65.3971 ha) (Consultant:-Kadam Environment Consultants)

The proposal of M/s Saurashtra Minerals Pvt. Ltd. is for enhancement of production capacity of Bauxite from 71,500 TPA to 1,78,794 of Palakhada Bauxite mine with lease area 65.3971 ha, located at Survey No. 185, 286, 290 & 299, in Village Palakhada of Taluka and District Porbandar of Gujarat. Palakhada Bauxite mine is located within the coordinates a) 21°46'13.10"N, 69°29'22.34"E to b) 21°45'34.47"N, 69°29'25.92"E and c) 21°45'50.23"N, 69°29'7.81"E to d) 21°45'54.40"N, 69°29'40.71"E on survey of India Topo sheet No F42P5. There is no National Park or Wildlife Sanctuary within 10 km of mine lease area. The project is located in Seismic Zone III. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

The proposal of ToR was considered by the Reconstituted Expert Appraisal Committee in its meeting held during December 19-21, 2012 to determine the Terms of Reference (ToR) for undertaking detailed EIA study. The ToR was issued by the Ministry vide letter no J-11015/276/2012-IA. II (M), dated 15th December 2014. Public hearing was conducted on 20th November 2015. The proponent submitted the EIA/EMP report online to Ministry for seeking environment clearance after conducting public hearing.

The mine lease area is 65.3971 ha. The lease area is Non-forest Government Waste land. The mining lease was granted to Saurashtra Minerals Private Limited (SMPL) for a period of 20 years vide a government order dated 14.08.1981 and the lease deed was executed on 16.11.1981. The lessee had made an application for first renewal and the mining lease has been further renewed for a period of 20 years vide Order No. MCR-1580-2734-CHH dated 12.07.2004 for a period of twenty years i.e. from 16.11.2001 to 15.11.2021. As per MMDR Amendment Act 2015 sub sections 5 and 6 of section 8A the mining lease is deemed to have been granted up to the year 2031.

It is reported by Project Proponent (PP) that method of mining is Open Cast Semi Mechanized. Geological reserves under proved and probable category are 35,58,594 MT and 13,39,800 MT respectively. Life of mine is 30 years. The OB and waste generated during scheme period will be very less and will be stacked along statutory

barrier. Soil generated during scheme period will be spread on statutory barrier for plantation. No backfilling is proposed and the pit generated during scheme period will be used as water reservoir.

The proponent informed that total water requirement for drinking domestic, dust suppression and green belt development is 13.4 KLD. Water required for domestic purpose will be supplied through tanker from nearby village and water collected in mined out pit will be utilized for dust suppression and green belt development. Ultimate working depth will be up to maximum 7.5m bgl and ground water level is observed at 12m bgl, thus working will not intersect ground water level.

The project proponent had informed that the baseline monitoring has been conducted for summer season March to May 2015 based on ToR condition. The public hearing for the project was conducted on 20th November 2015 at project site of M/s Saurashtra Minerals Pvt Ltd, Sr No 185, 286, 290, & 299, Porbandar – Harshad Road, Village Palakhada, Taluka and District Porbandar.

Total cost of the project is Rs. 245 lakhs. Man power requirement is 71. PP informed that their CSR activities are budgeted at a cost of Rs 16.5 lakhs including community latrine, solar light, veterinary camp, awareness programme for animal care, animal fodder, training program, educational activity, medical facilities. The proponent informed that credible action has been initiated by GPCB for excess production violation.

Based on the information furnished and discussion held, the committee deferred the proposal and was of the view that PP has to submit the following documents for further decision on the matter by the committee

- i. Letter from Geology and Mining Department, Porbandar stating that there have been no mining activities at site since submission of Board resolution and court case papers to MoEF&CC.
- ii. The Conservation plan for Schedule 1 species shall be submitted.
- iii. List of flora and fauna of study area shall be authenticated by State Forest Department.
- iv. Revised plantation details with increased number of trees and budget shall be submitted.

(2.24). J-11015/155/2014-IA.II(M) Production of 2.0 lakh TPA (ROM) of limestone by M/s Saurashtra Chemicals, located at village Zinzarka-Boricha, Tehsil & District Porbanda, Gujarat (24.28ha) (Consultant:-Mantec Consultants Pvt. Ltd.)

The proposal of M/s Saurashtra Chemicals Division of Nirma Limited is for mining of Limestone with production capacity of 2, 00, 000 TPA from the mine lease of 24.28 ha located at Village: Zinzarka-Boricha, Tehsil: Porbandar, District: Porbandar, Gujarat. The latitude & longitude of the mine lease area lies between 21°44' 56.76" N to 21°45' 14.90" N & 69°40'19.65" E to 69°40'37.74" E the survey of India Toposheet No is 41G 9,

41G 10. It is Category "A" project as the MLA comes within 1.38 KM area of Barda Wildlife Sanctuary. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

Mining lease of Zinzarka Limestone mine was granted in favour of Shri Laxman Bhai Bhim Bhai Agath in the year 1985 and the lease deed was executed on 08.06.1988 for 20 years. The lease was transferred vide Govt. of Gujarat Order No. MCR-1589 (S-54)-2164-CHH dated 24.11.1992 and corrigendum dated 17.01.1994 was issued in the name of M/s "Saurashtra Chemicals". Transfer deed was executed on 24.01.1994. The PP had applied for renewal of lease vide application dated 30.05.2007. Receipt of the renewal application was acknowledged in from 'D' by Govt.of Gujarat on 21.06.2007.

The Ministry had earlier prescribed Terms of Reference (ToR) for the said mine vide MoEF letter no. J-11015/1243/2007-IA.II (M), dated 25.01.2008 for 12,800 TPA Limestone productions, SPCB had conducted the Public Hearing on 22.10.2008 and PP has submitted the EIA/EMP report on 17.01.2013 i.e. after expiry of the validity of TORs. Accordingly, MoEF vide letter dated 11.03.2013 communicated to the PP that the validity of TORs has already expired. The PP had re-applied afresh for obtaining Environment Clearance on 06th May 2014. The project was discussed in the EAC held on 08th – 09th July 2014 for grant of ToR. The EAC recommended ToR in the meeting and ToR letter was issued on 25th November 2014.

The water is required for sprinkling on haulage road. Total water requirement shall be 5.85 KLD. The domestic water demand has been calculated as 2.35 KLD and for dust suppression 1.5 KLD, Green belt development 2.0 KLD. Total water requirement shall be met from bore well located at Dharpur-kajawadri limestone mine. Necessary Permission for abstraction of ground water for a quantity of 94.025 KLD has been granted by Central Ground Water Authority vide letter no. 21-4(732)/WCR/CGWA/2010-2590 dated 24.11.2010.

PP has informed that the Application to obtain National Board of Wildlife clearance has been submitted vide letter dated 15.09.2012. Jambuvanti cave is a Historical monument of Archeological importance in the study area at a distance of 5 km from Zinzarka mine for which NOC has been granted by the Directorate of Archaeology, Gandhinagar vide its letter dated 12.05.2009. There is no court case/litigation is pending against the mining project. Total cost of the Project is Rs 25 Lakhs. There is a typographical error in the approved ToR where the capacity of the project is given 2.0 MTPA, however M/s Saurashtra Chemicals Division of Nirma, Gujarat had applied for 0.2 MTPA. It was also communicated to MoEF vide our letter no SC/NL/ENV-121/186/2016 dated July 01, 2016.

The Gujarat State Pollution Control Board has conducted the public hearing on 20.05.2016 at 09:00 A.M. under the chairmanship of Shri Dinesh Patel, District

Magistrate, Distt. Porbandar on the project site Zinzarka-Boricha Village, Tehsil & District Porbandar, Gujarat. The people were concerned about the commencement of the mining activity as this will provide the employment opportunity for unskilled persons living in the nearby villages.

The latest scheme of mining along with mine closure plan is approved by IBM Udaipur vide its approval letter no 682(23)(605)/2008-Khanikhas(U)Udai dated 23.12.2013. It is proposed to adopt semi mechanised opencast method of working with conventional drilling - blasting techniques, using 65 mm dia drills for drilling blast holes, conventional high explosives for blasting, sizing at mine site and then sized materials loading manually into truck/ tippers& dispatched directly to soda ash plants regularly, therefore no stacking for materials are required. Occasionally excavator cum loader JCB 4DX will also be used as and when required.

The ground water table is 20-25 m below the surface level. The mining operation (7.5mBGL) will be on higher level above the water table. There will be no adverse effect on the existing water regime due to the mining activity in the area. The baseline monitoring was conducted for period of December 2014 to February 2015. The maximum value for PM10 is observed, as 82 µg/m³ at Adityana while 24 hours applicable limit is 100µg/m³ for industrial and mixed use areas. The area observes average PM10 concentration in the range of 67.3-76.1µg/m³ with the lowest concentration of 56µg/m³ recorded at Bakharla. The maximum value for PM2.5 observed is, 48µg/m³ at Adityana Site while 24 hours applicable limit is 60µg/m³ for industrial and mixed use areas. The average PM2.5 concentration value ranges between 37.1-38.5µg/m³ with lowest concentration of 32 µg/m³ recorded at Adityana, Katwana, Boricha and Bakharla villages.

The Committee deliberated at length the information submitted by PP and decided to **defer** the Proposal for environmental clearance as it was noted that mine lease area falls within the Eco-sensitive Zone (ESZ) of the Barda Wildlife Sanctuary. The ESZ notification provides for prohibiting the mining activity within the ESZ therefore, the proposal may be deferred till the ESZ notification is finalized.

(2.25). J-11015/443/2014-IA.II(M) Budhwada Limestone Mine of M/s The Ramco Cements Limited located at Village Budawada, Jaggayyapeta Taluk, Krishna District, Andhra Pradesh (ML area 160.0 ha). (Consultant:-M/s. B. S. Envi-Tech Pvt. Ltd.)

M/s Ramco Budawada Limestone mine is located at Village Budawada, Jaggayyapeta Taluk, Krishna District, Andhra Pradesh and Survey No.: 376(P), Compartment No. 6, Budawada Reserve Forest. The total area of the mine falls under the Survey of India Topo sheet No. 65/D/1. The site falls between 16°51'17.0"N - 16°52'10.3"N latitude & 80°03'46.9"E - 80°05'31.7"E East Longitude with an average altitude of 65m above MSL.

The Terms of Reference was approved by MoEF & CC for carrying out the Environmental Impact Assessment study vide letter No.J-11015/443/2014-IA.II(M) dated 29.07.2015. Public hearing was conducted on 26.04.2016. The proponent submitted its application for seeking environmental clearance after conducting public hearing to the Ministry online on 02.07.2016. The mine is located in an area of 160 ha in 376(P) Compartment No. 6 of Budawada Reserve Forest for which forest clearance was obtained. The 1st Scheme of Mining is approved by Indian Bureau of Mines on 27-10-2014, valid upto 31.03.2019.

Based on the information furnished and discussion held, the Committee was of the view that only 10% of the production has been achieved and proposal for expansion could not be justified by the PP. Therefore, Committee decided to **deferred** the proposal and was of the view that PP has to submit the following documents, in addition to justification for seeking EC for expansion, for further decision on the matter by the committee

- i. The mine lease area is complete forest land however no Schedule 1 species was reported in the area. Therefore, list of flora and fauna of study area shall be authenticated by State Forest Department.
- ii. The Conservation plan for Schedule 1 species, if any, shall be submitted.
- iii. The baseline data appears to be incorrect. The fresh baseline data shall be collected and re-submitted.
- iv. It was noted that mine has achieved only 10% of its present production. Therefore, the request for expansion is not justified; an explanation in this regard shall be submitted.

(2.26).J-11015/72/2013-IA.II (M) Mogla Limestone Mine of M/s JSW Cements Ltd. for 4.51 MTPA Limestone capacity at Mogla Village, Chittapur Taluka, Gulbarga District, Kanataka (404.29 ha) (Consultant:-Bhagavathi Ana Labs Pvt Ltd)

The proposal is for production of 4.51 million TPA of Limestone from 404.29ha Mine lease area located at Village-Mogla, Taluka Chittapur, District Gulbarga in Karnataka Sy. Nos. 29 – 32, 42 – 84, 88 – 91, 95 – 119 of Mogla Village. The latitude and longitude of the site are

Corner	Latitude	Longitude
1	17° 09' 50.47" N,	77° 07' 35.43" E
2	17° 09' 48.90" N,	77° 07' 30.42" E
3	17° 09' 10.80" N,	77° 07' 19.50" E
4	17° 09' 10.40" N,	77° 08' 41.50" E
5	17° 08' 07.00" N,	77° 08' 55.10" E
6	17° 08' 19.80" N,	77° 09' 18.90" E
7	17° 08' 40.83" N,	77° 09' 17.16" E
8	17° 09' 05.01" N,	77° 09' 05.70" E

9	17° 09' 16.28" N,	77° 08' 08.72" E
10	17° 09' 39.66" N,	77° 07' 47.49" E

The proposal for TOR was considered in the EAC meeting held during 17th April 2013. Based on discussions held TOR was issued vide MoEF Lr. No J-11015/72/2013-IA.II (M) dated 21st November 2013. The proposal was further considered on 22.12.2015 for extension of TOR and the same was issued vide MoEF Lr. No J-11015/72/2013-IA.II (M) dated 8th January 2016. The mine lease area is 404.29 ha which is private non-forest single crop dry agricultural land. There is no forest land in the lease area. The mining plan for the project is approved by Indian Bureau of Mines, Bangalore vide Letter No. KNT/GLB/MP/LST-258-SZ/002 dated 28.12.2012 for production of 4.51 MTPA of Limestone from 404.29 Ha Mine lease area.

The total cost of the project is Rs. 2036 Crores which includes cement plant also. Capital budget for environmental protection measures is Rs 195.5 lakhs and recurring cost is Rs 112.10 lakhs. It was reported by the PP that there is no court case/litigation pending against the project.

Based on the information furnished and discussion held, the Committee noted that the PP has wrongly reported the minable reserves in the Form-1 at TOR stage. There is no production plan in absence of estimates of minable reserves. The mine plan is based on the potential reserve and not on minable reserves, therefore the proposal is premature at this stage for consideration for ToR. The Committee therefore rejected the proposal in its present form.

(2.27). J-11015/139/2014-IA.II (M) Limestone Mine of M/s Emami Cement Ltd. located at village: Tengada, taluka: Dachehalli, District: Guntur, Andhra Pradesh. (521.691 ha)(4.5 MTPA) (Consultant:-J.M EnviroNetPvt Ltd).

The proposal is of M/s. Emami Cement Ltd. for Proposed Limestone Mining Project (Area 521.691 ha) with production capacity 4.50 million TPA (ROM). The mine lease is located at Villages: Tengada, Mandal: Dachehalli, District–Guntur (Andhra Pradesh). Study area falls within the Survey of India Toposheet No. 56 P/10, 56 P/14. The Project is located in Seismic zone-II. The Latitude and Longitude of the site falls between 16° 37'43.51" N to 16°40'08.35" N and 79°46'58.80" E to 79°48' 16.75" E respectively. The Consultant has presented the details of mine site using KML/SHP files on Google Earth.

The Proposal was considered by the Expert Appraisal Committee in its meeting held on 9th July, 2014 to determine the Terms of Reference (ToR) for undertaking detailed EIA study. ToR was issued by MoEF&CC vide letter no. J-11015/139/2014-IA.II (M) dated 12th August, 2014. The extension of validity of ToR was approved by EAC in its Meeting held during 24th May, 2016. EIA/EMP Report has been submitted online on

27.08.2016 to the Ministry for seeking Environmental Clearance after conducting Public Hearing on 21.06.2016.

This is a proposed Limestone mining project with Production Capacity of 4.50 million TPA (ROM). Letter of Intent (LOI) in favour of M/s Emami Cement Ltd over an area of 521.691 ha was issued by the Government of Andhra Pradesh, Industries and Commerce (M-IV) Department vide its Memo No. 15011/M.IV(2)/2013-1 dated 03rd December, 2013. Mining Plan & Progressive Mine Closure Plan for 521.691 ha area was approved by Regional controller of Mines, Indian Bureau of Mines, Hyderabad vide their letter no. AP/GNR/MP/Lst-75/Hyd dated 22nd October, 2014.

Limestone Mining will be done by opencast mechanized method involving drilling, blasting, loading by Hydraulic Excavators and dumpers, crushing & transportation. At the conceptual stage, out of the total mine area (i.e. 521.691 ha), total mined-out area will be 392.845 ha which will be converted into water reservoir. The limestone produced from the mine will be transported to the crusher within the ML area. From crusher, the limestone will be transported to the cement plant by covered conveyor belt. Mining will intersect ground water table at conceptual stage. Permission for intersecting ground water table will be taken from concerned authority before intersecting ground water table.

Mining lease area for this mining project is 521.691 ha, which falls in village Tengada. Out of the total mine area 328.761 ha is patta land, 49.600 ha is Govt. Land (INAM Land), 46.280 ha land is Government Waste Land and 97.050 ha is Patta land as per special Register (Poramboku and as per RSR). Detailed R&R action Plan has been prepared for the project & submitted.

It was reported that no National Parks/Wildlife Sanctuaries/Biosphere Reserves/Wildlife Corridors/Tiger/Elephant Reserves are located within the 10 km study area of the mine area. There are fourteen Reserved Forest within 10 km radius study area. No forest land is involved in Mining lease area. State Forest Dept Vide letter no 544/2015/TO dated 22.04.2015 has confirmed that no forest land is there in the mine area also stating that there is no flora of Economic value and no schedule –I, II & III fauna exists in the study area. The baseline data was collected for the period Winter Season (October to December-2014). The analytical results of samples collected for all parameters were found within permissible limits.

The Public Hearing was conducted on 21st June, 2016 near Mine site, Tengada village, Dachepalli Mandal, Guntur District, Andhra Pradesh. The Public Hearing was presided over by Shri. M. Venkateswara Rao, Joint Collector II, Guntur and Shri. M.V. Balasubrahmanyam, Environmental Engineer, A.P. Pollution Control Board, Regional Office, Guntur. The issues raised during Public Hearing were also considered and discussed during the meeting, which interalia, included employment, village

development work, drinking water problem, education, medical facilities, environmental pollution, greenbelt/plantation, road construction, infrastructure development, land purchasing & compensation, rain water harvesting structures, CSR Programmes. Action plan with budgetary allocation has been given against Points raised in Public hearing. Total cost of the Project is Rs. 63 Crores. Capital Cost for Environmental Protection Measures is Rs. 2.0 Crores/- & Recurring cost is Rs. 70 Lacs/annum.

Based on the information furnished and presentation made by the Project Proponent and discussions held, the Committee **deferred** the Proposal and sought the following information:

- (i) The 328.761 ha agriculture land is involved therefore a detailed report on status of acquisition of the land and present land use shall be given.
- (ii) The revised budget and plan for the green belt development shall be provided.
- (iii) The details of the surface run-off and garland drain shall be provided.
- (iv) Detailed R&R plan shall be provided.
- (v) The detailed action plan with budgetary provisions on issues raised during the public hearing shall be provided.

EXTENSION OF VALIDITY OF TOR

(2.28). J-11015/111/2014-IA.II(M) Pandillapalli Limestone Mine of M/s Bharathi Cement Corporation Pvt. Ltd for 0.5 TPA Limestone Capacity at Pandillapalli, Thurkapalli and T.Sadipiralla Villages, KamalapuramMandal, Kadapa District, Andhra Pradesh (95.368 ha.).

The proposal is for the proposed New Limestone Mine (ML 95.368 ha) with total production (Limestone) capacity of 0.5 Lakh Tonne Per Annum (LTPA) in Pandillapalli, Thurkapalli and T. Sadipiralla villages, Kamalapuram mandal, YSR (Kadapa) district, Andhra Pradesh. The latitude and longitude of the site range between 14°35'27" N to 14°36'24"N and 78°35'25" E & 78°36'35" E respectively. It is covered under survey of India topo-sheet no 57J/10.

The proposal of TOR was considered in meeting held during May 28-30, 2014. The TOR letter was issued by MoEF&CC, New Delhi vide letter no. J-11015/111/2014-IA.II (M) dated 15.07.2014. The TOR was valid for two year and expired on 14.07.2016. The proposal for extension of validity of TOR was considered in EAC meeting held during September 19-20, 2016. On recommendations of the EAC the TOR was extended for one year from 15.07.2016 to 14.07.2017. The present proposal is for seeking extension of validity of TOR for one more year i.e. up to 14.07.2016. Extension of validity of TOR is requested as the public hearing for the project has been delayed.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for outer limit of two years i.e. from **15.07.2016 to 14.07.2018**.

(2.29).J-11015/112/2014-IA.II(M) Pandillapalli Limestone Mine of M/s Bharathi Cement Corporation Pvt. Ltd, located at Village T.Sunkesula&Tippalur, Yerragutla Mandal, District Kadapa, Andhra Pradesh (206.144 ha).

The proposal is for the proposed New Limestone Mine (ML 206.144 ha) with total production (Limestone) capacity of 0.5 Lakh Tonne Per Annum (LTPA) in Villages- T.Sunkesula and Tippalur Mandal- Yerraguntla, District-YSR (Kadapa), Andhra Pradesh. The latitude and longitude of the site range between 14°35'52" & 14°36'46" N and 78°33'26" & 78°34'40" E respectively. It is covered under survey of India topo-sheet no 57J/10.

The proposal of TOR was considered in meeting held during May 28-30, 2014. The TOR letter was issued by MoEF&CC, New Delhi vide letter J-11015/112/2014-IA.II (M) dated 15.07.2014. The TOR was valid for two year and expired on 14.07.2016. The proposal for extension of validity of TOR was considered in EAC meeting held during September 19-20, 2016. On recommendations of the EAC the TOR was extended for one year from 15.07.2016 to 14.07.2017.

The present proposal is for seeking extension of validity of TOR for one more year i.e. up to 14.07.2016. Extension of validity of TOR is requested as the public hearing for the project has been delayed.

Based on the information furnished and discussions held, the Committee **recommended** extension of the validity of TOR for outer limit of two years i.e. from **15.07.2016 to 14.07.2018**.

(2.30). Mining of River Sand Bajri (Minor mineral) in Banganga River with proposed production capacity of 15.0 Lac TPA (ROM) by M/s Satyaswaroop Singh Jadon, located at 68 revenue villages of Tehsil- Mahwa, District – Dausa, Rajasthan (MLA: 755.02 ha)[Consultant:- M/s Perfact Enviro Solutions Pvt. Ltd.]- Re-Consideration of EC

The proposal of M/s Satyaswaroop Singh Jadon is for mining of Bajri (Minor Mineral) with proposed production capacity of 15.0 Lac TPA (ROM). The mining lease area is located at 68 revenue villages of Tehsil- Mahwa, District – Dausa, Rajasthan in the mine lease area of 755.02ha. The mining lease area lies on Banganga River.

The Project Proponent, vide letter dated 16.09.2016, has requested that they could not attend the meeting and sought the deferment. The Committee accepted the request of PP and **deferred** the proposal.

(2.31). Enhancement of Nongtraï Limestone Mine with production capacity from 2.0 million TPA to 5.0 million TPA of limestone by M/s Lafarge Umiam Mining Private Limited, located at village-Nongtraï, District East Khasi Hills, Meghalaya (MLA: 100.00 ha) (Consultant: M/s ERM India Pvt. Ltd.)- Re- Consideration of EC

The proposal of M/s Lafarge Umiam Mining Private Limited (LUMPL) is for enhancement of Nongtraï Limestone Mine with production capacity from 2.0 million TPA to 5.0 million TPA of limestone in the mine lease area of 100 ha. The mine lease area is located at village Nongtraï, Mawsynram Block, District East Khasi Hills, Meghalaya. The Coordinates of the four corners of the 100 ha mining lease area are: NW Corner: 25°11'49.90"N, 91°36'53.50"E; NE Corner 25°11'48.70"N, 91°37'29.20"E, SW Corner: 25°11'17.40"N, 91°36'52.10"E, SE Corner 25°11'16.20"N, 91°37'27.80"E. The International Boundaries between India and Bangladesh lies at 1.5 km (from the nearest location) to south of the mine site. Study area falls within the Survey of India, Toposheet No. 78 O/12. The Project is located in Seismic zone-V.

The proposal of EC was earlier appraised in the meeting held during May 23-24, 2016 wherein the Committee **deferred** the Proposal and sought the following information/clarifications:-

- (i) The Committee noted that the certified compliance Report is old i.e. of November 2014 and the Regional Office of the MoEFCC Regional Office, Shillong may be requested to provide the latest certified compliance report;
- (ii) Project Proponent reported that Six Schedule-I species have been reported in the buffer area. The Committee noted that species specific conservation plan along with budgetary provisions needs to be prepared and submitted for approval to the Chief Wildlife Warden of the State Government;
- (iii) The detailed action plan on public hearing issues along with the budgetary provisions needs to be submitted;
Project Proponent needs to revise table 3.42 [page 160 of the EIA/EMP report w.r.t. threatened species];
- (iv) The Committee noted that the CO level monitored at two locations i.e. Shella Bazaar are reported 575 µg/m³ and 464.3 µg/m³ which are at very high level. The Project Proponent needs to be monitored through another laboratory duly accredited by the NABL/MoEFCC to confirm the high concentration of CO and submit the mitigation measure for the same; and
- (v) Details of court cases and its updated status.

The Project Proponent, vide letter dated 05.08.2016 has submitted the information online and accordingly the project is placed in this meeting. The Project Proponent has submitted and presented the following point wise reply.

- (i) The MoEFCC Regional Office, Shillong has inspected the mine on 4th July 2016 and submitted the latest compliance report on MoEFCC website. The report, inter-alia, mentioned that over all, the implementation of environmental safeguards is found to be very satisfactory. Some of the observations are (a) It is observed some exotic species has been planted for green belt. M/s Lafrage Umiam Mining Private Limited should plant only native species for green belt development. Plantation of local species should be carried out during this Monsoon Season; (b) Average ground water level based on Piezometer reading in three locations indicates that there is a decrease in ground water level from 52.24 m during 2012 to 51.05 m during 2015. PP should implement the ground water recharge system at several locations in and around the lease area to augment the ground water resource; (c) For display of critical pollutants near the main gate, M/s Lafrage Umiam Mining Private Limited should consider installing LCD projector connected to online monitor instead of manual display board; (d) The project should also implement community Development and Welfare programme in the area of Health, Education and Environmental Protection. The Committee deliberated the status of compliance and noted that compliance are adequate and the observation made by RO may be included as a specific conditions.
- (ii) An Addendum to Conservation Plan for Schedule I Faunal Species encountered in the Study Area has been prepared by North East Hill University (NEHU), Dr. SK Barik, Project Coordinator. The Plan with budgetary provisions was submitted to the Principal Chief Conservator of Forests & HOFF, Government of Meghalaya with a copy to the Additional Principal Chief Conservator of Forest, Wildlife & Chief Wildlife Warden, Government of Meghalaya. An Addendum Conservation Plan with budgetary provisions of Rs 41 lakhs has been approved by the Additional Chief Conservator of Forests, Wildlife & Wildlife Warden, vide letter no. FWC/G/117/Pt/1058, dated 1st August 2016.
- (iii) Details of action plan on Public Hearing issues along with budgetary provisions are submitted and the committee deliberated on the issues.
- (iv) A list of threatened floral species has been revised by North Eastern Hill University (NEHU). The revision of the threatened floral species has been done by NEHU by comparing the comprehensive list of flora encountered during survey in the study. An Addendum Conservation Plan with budgetary provisions of Rs 41 lakhs has been approved by the Additional Chief Conservator of Forests, Wildlife & Wildlife Warden, vide letter no. FWC/G/117/Pt/1058, dated 1st August 2016.
- (v) Ambient air quality has been conducted at nine locations during June and July 2016 by Netel (India) Limited. At each locations CO monitoring was conducted thrice on 8-hourly basis on four occasions i.e. at each locations 12 nos. of 8

hourly CO monitoring were conducted. The laboratory reported 8 hourly CO values at Shella Bazaar (~1.6 km ESE) ranged from 210 µg/m³ to 510 µg/m³ with 98 percentile value of 482 µg/m³ while at Nongtraï village (~2.3 km NNW) the reported values ranged from 170 µg/m³ to 470 µg/m³ with 98 percentile value of 461µg/m³. All the reported values have been found within the prescribed National Ambient Air Quality Standard of 2 mg/m³ (2000 µg/m³).

(vi) The current status of the court cases is given as following:

S. No.	Case No. and Description	Court of Law	Order/Direction	Current Status
1	Review Petition no 20/2014 in PIL 2/2013 alleging legality of land transfer.	High Court of Meghalaya	Nil	The Hon'ble Court is hearing the petition for condonation of delay filed by the other party.
2	TS Case no 6 (T) of 2015 (previously WP 45/2014 before the High Court of Meghalaya, WP 43/2007 before the High Court of Guwahati) alleging mining land area belonging to petitioners i.e. Tremdon Wansai and others.	Court of the Assistant to the Deputy Commissioner at Shillong	Nil	The matter is in preliminary stages. Defendants are yet to file Written Statements.
3	Title Suit no 1 of 2007, (Petitioners: Himani Malngiang and Others). The Petitioners raised a dispute over title of LBC land.	In the Court of the Assistant to the Deputy Commissioner (Judicial) at Sohra.	Nil	Issues have been framed by the Hon'ble Court. Deposition, examination & cross-examination of evidence is yet to commence.

4	Title Suit no. 1(T) of 2013 (previously Title Suit no. 25(T) of 2004), Injunction Misc. case No. 62(T) of 2004, (Respondent: Prince Starwell Sarubai, petitioners: LMMPL and LUMPL) dispute over title of land on one of the plots on LBC corridor.	In the Court of the Assistant to the Deputy Commissioner (Judicial) at Sohra.	Nil	The matter is at the stage of recording evidence.
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The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Enhancement of Nongtrai Limestone Mine with production capacity from 2.0 million TPA to 5.0 million TPA of limestone.

The Committee **recommended additional specific conditions** viz. (i) Implementation of species specific conservation plan for Schedule I species; (ii) Project Proponent should plant only native species for green belt development. Plantation of local species should be carried out during the Monsoon Season; (iii) Average ground water level based on Piezometer reading in three locations indicates that there is a decrease in ground water level from 52.24 m during 2012 to 51.05 m during 2015. PP should implement the ground water recharge system at several locations in and around the lease area to augment the ground water resource; (iv) The Proponent shall install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction. Online provisions of pH and turbidity meters at discharge points of STP and ETP and also at water storage ponds in the mining area may be made. Project Proponent should display the result digitally in front of the main Gate of the mine site.(v) The project should also implement community Development and Welfare programme in the area of Health, Education and Environmental Protection. (vi) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The

Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.

(2.32). Mining of Mineral – River Sand (Bajri) with production capacity of 28.05 Lakh TPA (ROM) by M/s Mangal Singh Solanki, located at Revenue villages of Tehsil –Sheoganj, District–Sirohi, Rajasthan (1414 ha)-Re-consideration of EC

The proposal of M/s Mangal Singh Solanki is for mining of Bajari (Minor Mineral) with proposed production capacity of 28.05 lakhs TPA (ROM). The mining lease area is located in village (s) – AkhapuraKhuni and others, Tehsil- Sheoganj, District - Sirohi (Rajasthan) in the mine lease area of 1414ha.

The Project Proponent, vide letter dated 19.09.2016, has requested that they could not attend the meeting and sought the deferment. The Committee accepted the request of PP and **deferred** the proposal.

(2.33). Expansion of Surda Copper Mine from 0.39 million TPA to 0.9 million TPA (ROM) by M/s Hindustan Copper Ltd., located at village(s)-Surda, Sohada, Pathargora, Benashole villages and Forest Block No. 1098, Tehsil – Ghatsila, District-East Singhbhum, Jharkhand (MLA: 388.68ha) (Consultant: Mecon Limited) – Re-Consideration of EC

The proposal of M/s Hindustan Copper Limited is for enhancement of production from 0.39 million TPA to 0.9 million TPA of Copper Ore (ROM). The mine lease area is located near villages Surda, Sohada, Pathargora, Benashole villages and Forest Block No. 1098, Tehsil – Ghatsila, District- East Singhbhum, Jharkhand. The Latitudes and Longitudes of mine lease area is 22° 32' 42" N and 22° 34' 19" N and 86° 25' 41" E and 86° 26' 42" E respectively on the Survey of India Toposheet No. 73 J/6.

The EC proposal was earlier considered by the EAC in its meeting held during July 21-22, 2016 wherein the Committee recommended the proposal for environmental clearance for expansion of Surda Copper Mine from 0.39 Million TPA to 0.9 Million TPA of Copper Ore (ROM) subject to forest clearance of Surda copper mine.

It is also reported that the total mining Lease is of 388.68ha. Out of this 149.03 ha is forest land, 239.65 ha is Non-Forest Land. The Stage II Forest diversion permission has been accorded by Ministry of Environment and Forest vide letter no. 8-64/93–FC dated 15.05.1998 for Mosaboni, Surda, Dhoboni and Pathargora mining lease area over of 189.74ha (47.49ha is for surface mining already broken up and 142.25ha for underground mining) of Forest Land in favour of M/s Hindustan

Copper Limited. Application for diversion of remaining forest land has been submitted vide letter no. HCL/ICC/G-14/2013/7 dated 05.10.2013. Project Proponent reported that after closure of all the mines except Surda mine, M/s HCL is presently utilizing whole of the 47.49 ha forest area broken and utilized on surface and 52.44ha forest area for underground purpose.

The Committee was of the view that the Ministry may seek comments from FC Division w.r.t. exact lease area of Surda copper mine diverted under the FC Act vide FC dated 15.05.1998 . In this context, FC Division has clarified that 31.07 ha of forest land has been directed under Surda mine in the Stage-II clearance order dated 15.05.1998. However, status of the forest clearance for the forest land involved in underground mining need to be ascertained/clarified.

The Committee deliberated at length on the comments provided by the FC Division and is of the view that EC is **recommended** for Expansion of Surda Copper Mine from 0.39 million TPA to 0.9 million TPA (ROM) in lease area of **270.72ha** (i.e. 239.65 ha of Non-Forest Land + 31.07ha of forest land for which diversion of Forest land already granted) subject to clarification regarding forest clearance for forest land involved in underground mining.

(2.34). Telighana Limestone & Dolomite Mine of M/s OM Ganesh Minerals, located at Village Telighana Main Road, Rajgangpur, District-Sundergarh, Odisha (MLA: 106.833 ha ; 28,704 TPA) – Amendment of TOR proposal.

The proposal of M/s OM Ganesh Minerals is for amendments in TOR w.r.t. adding Saleable Rejects @ 1,50,696 TPA for Telighana Limestone & Dolomite Mine located at village Telighana, Block – Kutra, Tehsil - Rajgangpur in the district of Sundergarh, Odisha. The TOR was granted vide letter dated 19.01.2016. The proposal earlier placed in the EAC meeting held during July 21-22, 2016.

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

(2.35). Lime Stone (Minor Mineral) Mining Project with production capacity 320076 TPA (ROM) by M/s Vaibhav Enterprises, located at Village-Ransigaon, Tehsil-Bilara, District-Jodhpur, Rajasthan (M.L.No.–05/1989, MLA: 96ha) (Consultant: Eco Pro Engineers Pvt. Ltd.) –Re-Consideration of TOR

The proposal of M/s Vaibhav Enterprises is for Mining of Limestone (Minor Mineral) with production capacity 3,20,076 TPA (ROM). The mine is located near Village- Ransigaon, Tehsil-Bilara, District-Jodhpur, Rajasthan in ML area of 96ha. The mine site falls between Latitude 26⁰22'09.06" to 26⁰22'48.96"N and Longitude 73⁰47'16.86" to 73⁰47'59.82"E on Survey of India Toposheet no. 45F/15.

The proposal of TOR was earlier considered in EAC meeting held during July 21-22, 2016 wherein the Committee noted that the Project Proponent has not submitted the requisite information, in view of this the Committee deferred the Proposal and is of the view that PP should submit revised Form I and PFR. The Project Proponent has submitted the revised Form I and PFR accordingly the proposal is placed in this present meeting.

The total mine lease area 96ha which is Government land. No forest land is involved in this area. Method of Mining is Open cast Semi-mechanized method. The life of mine is 78 years. Project Proponent reported that this is an existing mining lease of mineral Lime Stone (Burning). The mining lease for an area 100 ha was granted in favour of Shri Jamaluddin S/o Shri Lal Mohammad, vide order no.-DMG/F-2(A)(2)Jodh/sakh/79/268 on dated 19/12/1979. The lease was registered on dated 06/04/1979 for 10 years. The mining lease was renewed for 10 years by ADM Jodhpur vide order No.- ADM/Jodh/CC/Minor/5/89/916 on dated 31/05/1989. The mining lease was transferred in favor of M/s. Vaibhav Enterprises vide order no.-ADM/Jodh /CC/Minor/5/89/215 dated 30/01/1990 registered on dated 21/04/1990. The mining lease period was extended for 10 years (06/04/1989 to 05/04/2009). The mining lease was canceled vide order No.-ADM/Jodh/CC/Minor/ML/5/89/645 on dated 04/07/2000. The Project Proponent has made an appeal against the order dated 04/07/2000 before Department of Mines & Geology, Jaipur. The Department of Mines & Geology Jodhpur was accepted this appeal and restart this lease but when this mines was cancelled department was allotted new mines in the area (M.L. No.-445/08) the ADM Jodhpur was order M.L. No.-445/08 area 4.00 ha less and remaining 96 ha area was to restart mines. The Mining Plan with Progressive Mine Closure Plan has been approved by SME, Jodhpur vide letter no. SME/JO/CC/Jodhpur/Minor/ML/5/1989/ 11073, dated 30/12/2015. Water requirement is 8 KLD. The project cost is 75 Lakhs. The Project Proponent has reported that there is no court case /litigation is pending against the project.

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

(2.36). 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 reported that the Ministry has earlier issued the TOR on 23.02.2009 vide letter no J-11015/494/2008-IA.II (M). Public Hearing was conducted on 17.03.2011 and the EIA/EMP Report submitted on 23.11.2011. However no EIA/EMP is available in the project file. Now PP submitted the online application for TOR. The Proposal was earlier placed in the EAC meeting held during August 2016 wherein the EAC was deferred the proposal.

Project Proponent reported 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. PP reported that the lease area is not falls under critically polluted area. The Department of Mines and Geology has submitted the production details. The PP reported that due to NGT order mine is not in operation.

Based on the information furnished and by the Project Proponent and discussions held, the **Committee deferred** the proposal and sought following details:

The PP shall revise the mine lease area as the mining and allied activities will only require 73.6ha and the mine lease area is 1000 ha. The revised map along with the revised proposal shall be submitted.

(2.37). Girgita Limestone Mine of M/s KJS Cement Ltd located at Village-Amilia, Girgita and Sonwari, Taluka-Maihar, District-Satna, State-Madhya Pradesh (Proposed capacity : 1.75 MTPA, Area : 258.998 Ha) – Consideration of TOR

The proposal of M/s KJS Cement Ltd is for Girgita Limestone Mine with proposed capacity 1.75 Million TPA. The mine lease area is situated in Girgita, Sonwari and Amilia villages, in Maihar Taluka, Satna District of Madhya Pradesh of the mine lease area 258.998ha. The co-ordinates of the mine lease area are: Pillar No. Latitude - North Longitude - East 1. 24°15'12.2" 80°47'50.2" 2. 24°14'19.5" 80°46'59.6" 3. 24°13'55.5" 80°47'23.2" 4. 24°14'47.4" 80°48'19.2".

The Committee noted that the EAC has earlier recommended the TOR in its meeting held during April 16-18, 2012. The Committee noted that it was a violation case. Accordingly the actions were initiated as per the then procedure stated and the Court case has been filed by the MP Pollution Control Board in 2013 vide CRC No. 5195/2013 invoking the powers under section 19 of the E(P) Act, 1986.

Project Proponent has informed that the mining continued up to September 2015. **The Committee noted that the PP continued the mining activities after filling of court case in 2013 under section 19 of the E(P) Act, 1986 and repeated the violations. The Ministry shall take necessary actions as per the policy and deferred the Proposal.**

(2.38)Kakra-Panna Limestone Mine of M/s Jaykaycem Central Limited located at Villages Kakra, Kamtana, Saptai, Judi, Devri purohit & Devra, Tehsil Amanganj, District Panna of State Madhya Pradesh (area – 1594.34 Ha to produce : Normative Capacity : 4.0 MTPA Maximum Achievable Capacity : 4.08 MTPA ha.) - Consideration of TOR

The proposal of M/s Jaykaycem Central Limited is for Kakra-Panna Limestone Mine. The mine is located at Villages Kakra, Kamtana, Saptai, Judi, Devri purohit & Devra, Tehsil Amanganj, District Panna of State Madhya Pradesh.

The Project Proponent, vide letter dated 16.09.2016, has requested that they could not attend the meeting and sought the deferment. The Committee accepted the request of PP and **deferred** the proposal.

(2.39). Kamarda Chromite Mine with enhancement of production capacity of Chrome Ore from 88,000 TPA to 2.00 Lakh TPA (ROM) and Chrome concentrate through COB plant up to 1.00 Lakh TPA by M/s B. C. Mohanty & Sons Private Limited, located at Village: Kamarda, Tehsil: Sukinda, District Jajpur, Odisha (MLA 107.24 ha) – (Consultant: Environmental Research & Services (India) Pvt. Ltd.) consideration of TOR

The proposal of M/s B. C. Mohanty & Sons Pvt. Ltd. is for Kamarda Chromite Mine with enhancement of production capacity of Chrome Ore from 88,000 TPA to 2.00 Lakh TPA (ROM) and Chrome concentrate through COB plant up to 1.00 Lakh TPA in mine lease area of 107.24 ha. The Mine Lease Area is located in villages Kamarda, Balipada & Tailangi, Tehsil Sukinda District Jajpur in Odisha State. The COB plant is located inside the Leasehold area.

The total lease area is 107.240 ha, out of which 101.850 ha is Forest land and 5.390 ha is Non Forest land. The Committee noted that the Project Proponent has applied only for Mining of Minerals (Schedule 1(a) as for serial no. 9 of Form 1. However it seems that the proposal is for mining of mineral as well as beneficiation project also. The Committee is of the view that the project proponent first submits the correct proposal online.

The Committee also noted that the Ministry early granted environmental clearance vide letter No.J-11015/418/2006-IA.II (M) dated 8th May 2008 with specific condition of A (ii) *Necessary forest clearance under the Forest (Conservation) Act,*

1980 for an area of 101.85ha forestland shall be obtained before starting mining operation in that area. Environmental clearance is subject to grant of forestry clearance. In this context, the project proponent has obtained the Forest Clearance over an area of 87.44 ha vide letter no. 8-81/1996-FC, dated 28th March, 2008 from Ministry of Environment & Forest and the balance 14.41ha comes under Safety Zone. **However the PP has not requested any amendments in the specific no 2 of the EC dated 8th May 2008 and started the mining operation.**

Based on the information furnished by the Project Proponent and discussions held in EAC meeting, the **Committee deferred the proposal and may be considered only after revised Form I and PFR for mining as well as beneficiation project.**

(2.40)Ghoraburhani - Sagasahi Iron Ore with proposed production of 7.16 Million TPA of Iron ore (ROM) along with Crushing & Screening Plant and Beneficiation Plant with capacity of 6.7 Million TPA Capacity by M/s Essar Steel India Limited, located at village- Ghoraburhani, Sagasahi and Kalmang, Tehsil Koira, District Sundargarh, Odisha (MLA 139.165ha)-(Creative Engineers & Consultants) - Consideration of TOR

The proposal of M/s ESSAR Steel India Limited is for Ghoraburhani – Sagasahi Iron ore block with proposed production of 7.16 Million TPA of Iron ore (ROM) along with Crushing & Screening Plant and Beneficiation Plant with capacity of 6.7 Million TPA Capacity in mine lease area of 139.165ha. The mine lease area is located at Ghoraburhani, Sagasahi and Kalmang villages, Koira tehsil of Sundargarh district of Odisha. The lease area is bounded by Latitude 21°56'08.83896" - 21°57'09.61956" North and Longitude 85°17'02.52096" - 85°17'48.99336" East and falls in Survey in India Topo Sheet No. 73 G/1 & 73 G/5.

Project Proponent reported that the Govt. of Odisha issued letter of Intent under Rule 10(2) of Mineral Auction Rules 2015 to M/s Essar Steel India Ltd. on 28th March'2016 for grant of Mining Lease for Ghoraburhani - Sagasahi Block. Iron ore produced from this proposed ML area will be fully utilized in the Integrated Steel Plant of M/s Essar Steel India located at Hazira, Gujarat. The total mine lease area is 139.165ha. Out of which 126.137 ha is forest land and rest 13.028 ha is non-forest land. Mining will be carried out by mechanized opencast method by removal of topsoil, drilling and blasting of ore zone, excavation, loading and haulage of run of mine ore. The total water requirement will be 3230m³/day out of which 430m³/day is needed for mining, domestic & allied activities and 2800m³/day is needed as make up water for Beneficiation plant.

The Committee noted that there are discrepancies in the online Form I and hard copy submitted in the Ministry (viz. S. No. 1.15 facilities for treatment or disposal of solid waste or liquid effluents; S. No. (III) Environmental sensitivity w.r.t. reserve forest and water courses. PP reported that the FC proposal was submitted on 22.03.2016. However as per PFR page no. 26, FC proposal will be submitted after

mine plan approval. Mine Plan was approved on 11.07.2016. **The Consultant may also be warned for such type of discrepancies in the application.**

It is also observed by the Committee that 0.50 ha lease area had already been mined out as per land use pattern mentioned in the PFR and the Committee is of the view State Govt. of Mines and Geology may be requested to ascertain whether mining activities were carried out or not to check the violation, if any as per the provisions of E (P) Act, 1986 and F(C) Act.

Based on the information furnished by the Project Proponent and discussions held in EAC meeting, the **Committee deferred the proposal and may be considered only after revised Form-I and PFR and comments of State Govt. of Mines and Geology. The Consultant may also be warned for such type of discrepancies in the application.**

(2.41) Serangdag Bauxite Mine Block-1 with proposed production capacity of 1.2 Million TPA rock excavation (0.3 Million TPA ROM Bauxite) by M/s Mineral Exploration Corporation Ltd., located at Village- Serangdag, Tehsil- Samari, District-Surguja, Chhattisgarh (MLA-257.923ha)(Consultant Ramky Enviro Engineers Limited Hyderabad) – Re-Consideration of EC

The Proposal of M/s Mineral Exploration Corporation Limited (MECL) is for Serangdag Bauxite Mine Block-1 with proposed production capacity of 1.2 Million TPA rock excavation (0.3 Million TPA ROM Bauxite) in the MLA of 257.923 ha. The Mining Lease area is located at Village-Serangdag, Tehsil: Kusmi (formerly under Samri Tehsil), Balrampur (formerly under Surguja Dist.), Chhattisgarh. The proposed ML area falls under Survey of India Topo Sheet No.64M/15 (F44F15), 64M/16 (F44F16) and 73 A3 (F45A03) and bounded between 23⁰ 20'00" N to 23⁰ 21'45" N Latitude and 83⁰ 54'00" E to 83⁰ 55'30" E Longitude.

The proposal for TOR was considered by the Reconstituted Expert Appraisal Committee in the 22nd meeting held during August 26-27, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TOR was issued by MoEFCC vide letter No. J-11015/198/2014-IA.II (M), dated 24.09.2014. The Proponent submitted the EIA/EMP report on line to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

The Mineral Resource Department, State Govt. of Chhattisgarh, vide letter dated 26.09.2005 has issued Letter of Intent for Mining of Bauxite ore in favour of M/s MECL for an area of 257.923 ha. The Mining Plan along with Progressive Mine Closure Plan has been approved by IBM, Nagpur vide letter dated 11.08.2006. The approximate total Mineable reserve is 19,87,680 tonnes under UNFC 1 1 1. The initial five year plan period w.e.f. date of execution of ML, the production capacity of the will be limited to 3.0 Lakhs TPA (ROM).

The total Mining Lease area of 257.923 ha. Out of which 255.015 ha is Agriculture land, 0.631ha is surface water body and 2.277 ha is Kuccha road. PP

reported that there is no forest land involved in the mine lease area. Out of total MLA 94ha area shall be required for mining activity. Method of mining is opencast semi-mechanised. Conventional shovel dumper combination of opencast mine will be deployed. The wastes generated in the form overburden, sizing and sorting of ore will be disposed of within mined out pit area. Manual sorting, sizing and blending of ROM Bauxite will be done to obtain saleable grade of Bauxite at the pit head. The potable water requirement at Mine site is 47.5 KLD. The source of water will be existing bore wells in the nearby village initially. The Project Proponent has indicated that they would make their own bore wells in the MLA after commencing mining activities.

Based on the DSS, the Committee noted that the Mahuadanr Wildlife Sanctuary is located at 8.3Km within the study area (10 Km radius of the Mine boundary). The Committee is of the view that the project proponent shall apply for NBWL clearance. Accordingly, the Project Proponent, vide letter dated 26.09.2016 has informed that they have initiated the action for obtaining necessary NBWL clearance.

The baseline data was generated for the period during winter season. The Committee deliberated the baseline data collected by the Project Proponent. Project Proponent reported that the project involves R&R. There is no habitant/ homestead in the MLA. The Project Proponent has reported that there are 98 land outsees involved for land acquisition. Land will be acquired in 5 phases, details are in the R& R Plan. Land compensation details for 98 land oustees for Rs.2180.31 lakhs has been estimated. An amount of Rs.462 lakhs has been kept in budgetary provision for requirement of initial two years of mining. Balance amount towards land acquisition for four phases will be provided from revenue of Bauxite. The Project Proponent has reported that one person from land outsees family will be engaged in the Mine developer cum operator(MDO) establishment engaged for carrying out mining. Skill development programme will be arranged by the project for skill development of 53 landless workers of affected land acquisition. Apart from that five students of the village with qualification above secondary standard and having aptitude for technical skill will be imparted technical skill training in nearest ITI and fees for that will be provided from the project. They may later be considered for engagement in MDO establishment, if vacancy persists. 10 educated youths of the village will be considered for providing training to MECL drill machines in the nearest project if they are willing. They may later be considered for engagement in MECL, if opportunity arises. Basic amenities will be provided as per CSR activities of the company. A sum of Rs.22 lakhs has been kept during initial period for community development. 2% of the profit of the previous year will be used for sustaining the CSR activities. The Committee deliberated the issues on R&R and is of the view that the Project Proponent shall constitute a Committee to monitor the R&R related issues for its implementation with the consultation of the District Authority.

The Public Hearing for the proposed project was conducted on 01.03.2016 at Serangdag village, District Balrampur. The Public Hearing was presided by Shree

Bhagwan Singh Ukey, Additional Collector & Additional District. Magistrate, Balarampur-Ramanujanj (C.G). The Regional Officer, Chhattisgarh Environmental Conservation Board (CECB), Ambikapur was also present. The issues raised during the Public Hearing, commitment made by the Project Proponent and action Plan with the Budgetary provisions has been discussed during the meeting. The Project Proponent has made the action Plan along with budgetary provisions. The Committee deliberated and is of the view that the project proponent needs to implement the Action Plan and the implementation report has to be submitted to the Regional office of the MoEFCC every six months.

The capital cost estimated for the proposed mine is Rs.1919 lakhs. The Project Proponent has earmarked Rs.146 lakhs towards EMP has capital cost and Rs.14.6 lakhs per annum as recurring cost. The Project Proponent was earmarked Rs. 20 Lakhs in initial year for Socio-Economic welfare measures for the nearby village; Rs. 462 lakhs towards R&R cost and Rs. 14,75,000 towards Progressive Mine Closure Plan. The Project Proponent reported that there is no court case/litigation pending against the project.

The Committee noted that the TOR is for 257.293 ha, mine plan is approved for 257.923 ha, public hearing conducted for 257.293 ha, EIA/EMP report prepared for 257.923ha. There is discrepancy in the document in respect of mine lease area.

The Committee deliberated at length the information submitted by PP and **recommended** the Proposal for Environmental Clearance for Serangdag Bauxite Mine Block-1 with proposed production capacity of 1.2 Million TPA rock excavation (0.3 Million TPA ROM Bauxite) **subject to submission of** (i) Updated status of application for NBWL; and (ii) Clarification with respect to discrepancy in the document in respect of mine lease area.

(2.42) Iron Ore Mining Project with proposed production capacity @ 2.0 MTPA of M/s Neelachal Ispat Nigam Ltd, located at District Keonjhar and Sundergarh, Orissa (MLA 874.290 ha)

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

(2.43) Marudhara clay mine of M/s Bikaner Ceramics Pvt. Ltd., located at Village Indo Ka Bala, Tehsil Kolayat, District Bikaner, Rajasthan - Amendment in EC No. J-11015/295/2005-IA.II (M) dated 13th September 2006 w.r.t. reduction of Mine lease area from “79.01 ha to 77.7859 ha”.

The Proposal was **deferred** as the Committee did not receive the documents.

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

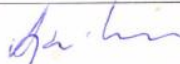
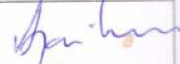
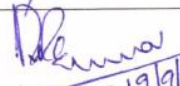

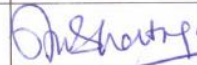
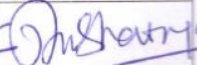
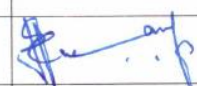
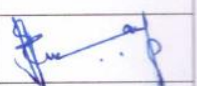

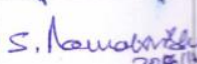
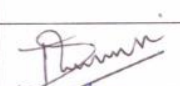
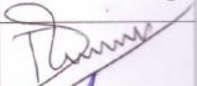

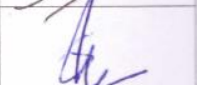


- also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) Similarly, for coastal Projects, A CRZ map duly authenticated 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:-
 - a) All documents to be properly referenced with index and continuous page numbering.
 - b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
 - d) Where the documents provided are in a language other than English, an English translation should be provided.
 - e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
 - g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.

- h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

LIST OF EXPERT APPRAISAL COMMITTEE (MINING - Non Coal Mining Sector)

Sl. No.	Name and address	Designation	1 st Day 19.09.2016	2 nd Day 20.9.2016
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	 19/9/16	 20/9/16
3.	Prof. Dr. K.S. Rana MaharanaManzil, 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		
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	 S. Ramakrishna Rao 19/9/16	 S. Ramakrishna Rao 20/9/16
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, LaxmikantNiwas, SalanGaon, Bhagwantpur, Dehradun-248009, Uttrakhand.	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, Uttrakhand.	Member		
13.	Representative of Indian Meteorological Mr. V.K. Soni, Scientist "E", (Meteorology/Air Pollution), 609, SatMet Building, MausamBhawan, Indian Meteorological Department, Lodhi Road, New Delhi-110003	Member		
14.	Representative of Wildlife Institute of India, Dr. (Ms.) AshaRajvanshi, Wildlife Institute of India, Chandrabani, Dehradun-248001	Member		
15.	Director IA-Division (Non Coal Mining) Vayu-305, Indira ParyavaranBhawan, Ministry of Environment, Forest & CC, Jorbagh Road, Lodhi Road, New Delhi- 110003	Member Secretary		

List of Representatives of the Project Proponents

1. Representative of **M/s Sri V. Narasimha Rao**
2. Representative of **M/s Prabhudas Vithaldas**
3. Representative of **M/s Smt. P.P. Makhecha**
4. Representative of **M/s UltraTech Cement Limited (UTCL)**
5. Representative of **M/s NM Food Products**
6. Representative of **M/s P.S. Buildtech**
7. Representative of **M/S Shri Bhupal Singh Kanwal**
8. Representative of **M/s Smt. Asha Rani Dang**
9. Representative of **M/s Vertex Cements (P) Ltd**
10. Representative of **M/s K. Seshagiri Rao & Co.**
11. Representative of **M/s Lafarge India Private Limited**
12. Representative of **M/s Friends Minerals**
13. Representative of **M/s Corporate Ispat Alloys Limited**
14. Representative of **M/s The India Cements Limited (ICL)**
15. Representative of **M/s Sai Balaji Minerals**
16. Representative of **M/s West Bengal Mineral Development Mineral Development & Trading Corporation**
17. Representative of **M/s Saurashtra Minerals Pvt. Ltd.**
18. Representative of **M/s The Ramco Cements Limited**
19. Representative of **M/s JSW Cements Ltd.**
20. Representative of **M/s Emami Cement Ltd.**
21. Representative of **M/s Bharathi Cement Corporation Pvt. Ltd**
22. Representative of **M/s Satyaswaroop Singh Jadon**
23. Representative of **M/s Lafarge Umiam Mining Private Limited,**
24. Representative of **M/s Hindustan Copper Ltd**
25. Representative of **M/s OM Ganesh Minerals**
26. Representative of **M/s Vaibhav Enterprises**
27. Representative of **M/s Rajendra Singh Kachchhwaha**
28. Representative of **M/s KJS Cement Ltd**
29. Representative of **M/s B. C. Mohanty & Sons Private Limited**
30. Representative of **M/s Essar Steel India Limited**
31. Representative of **M/s Mineral Exploration Corporation Ltd**