

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

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**SUMMARY RECORD OF 27<sup>th</sup> MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.**

The 27<sup>th</sup> Meeting of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forests and Climate Change was held during **December 10-11, 2014**. The list of participants is annexed.

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

**Item No. 1:**

**(1.1). Confirmation of the Minutes of the 26<sup>th</sup> EAC Meeting.**

The Minutes of the 26<sup>th</sup> Meeting of EAC held during **November 24-25, 2014** were confirmed and circulated.

**Agenda Item No. 2:**

**Day 1: December 10, 2014**

**Consideration of Environmental Clearance Proposals**

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

The proposal of M/s. A.N.E Industries Ltd. is for mining of Stone (Minor Mineral) in the Mine of Narnaul with proposed production capacity of 4.0 million TPA of Stone (ROM). The mine is located at Tehsil-Narnaul, District-Mahendergarh, Haryana. The pillar wise geographical coordinates of the proposed mine lease area on Toposheet no. is H43W4, 44P16 & 5A-1 are as follows:

Pillar	Latitudes	Longitudes
A	28 <sup>o</sup> 03'29.7"N	76 <sup>o</sup> 04'24.5" E
B	28 <sup>o</sup> 03'45.46"N	76 <sup>o</sup> 04'20.5"E
C	28 <sup>o</sup> 03'45.46"N	76 <sup>o</sup> 04'39.4"E
D	28 <sup>o</sup> 03'32.2"N	76 <sup>o</sup> 04'36.8"E
E	28 <sup>o</sup> 03'28.0"N	76 <sup>o</sup> 04'35.5"E

The proposal of ToRs was considered by Expert Appraisal Committee (Mining) in its meeting held during 29-30<sup>th</sup> April, 2014 to determine the terms of reference (ToR) for undertaking the detailed EIA study. The ToR was issued by Ministry vide Letter no. J-11015/109/2014-IA.II (M), dated 12<sup>th</sup> June, 2014. The Project Proponent submitted the EIA/EMP Report to the Ministry for seeking environmental clearance after conducting Public Hearing.

Total Mine Lease area is 19.89ha which is Government land. No forest land is involved. The LOI was granted in the name of M/s. A.N.E Industries Pvt. Ltd. by the Department of Mines & Geology, Haryana vide Memo no. DMG/HY/ML/Narnaul/2013/163, dated 03/01/2014. The Modified Mining Plan along with Progressive Mine Closure Plan has been approved by Department of Mines & Geology, Haryana vide Memo No. DMG/HY/ML/Narnaul/MP/4762 dated 04-11-2014.

Mining will be done by opencast mechanized method. Mineable reserves as per the Mine Plan are about 4,30,14,952 MT. Life of mine is 12 years. PP informed that about 2% waste inter-burden will be generated, which will be used for the construction of haul roads. Transportation of mineral will be made by trucks. Proponent reported that the bench height will be 10 m and convenient bench width will not be less than the 10m. Excavated area at the end of the life of mine and ultimate depth of mining will be 18.54 ha and 325 mRL respectively. The general water table is 275.54 mRL (i.e 44.46 mbgl). This suggests that there will be no intersection of water table by the proposed mining in the area. The water requirement for the proposed mining activity will be 12KLD and it will be sourced from the old existing bore wells of nearby villages.

Project Proponent informed that there are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/ Elephant Reserves etc. located within the study area (10 km radius of Mining Lease boundary). There are 3 Reserved Forests in the study area viz. Rasulpur Reserved Forest (0.5 Km, SW), Narnaul Reserved Forest (5.0 km, E) and Mukandpura Reserved Forest (8.0 km, SSW). No Schedule-I species were reported in the study area.

Baseline studies were carried out during Pre-Monsoon Season, 2014 (March 2014 to May, 2014) and one season of Post monsoon season (October, 2014). The basic parameters of environmental attributes, i.e. air, water, soil & noise are well within the limits as prescribed by the CPCB.

The Public Hearing of the proposed Project was conducted on 15-09-2014 at the project site in Tehsil Narnaul, District Mahendergarh, Haryana. The Public Hearing was presided over by Shri Atul Kumar, Deputy Commissioner, District-Mahendergarh. The issues raised during Public Hearing were discussed during the meeting, which inter-alia, included that priority to local people in employment, effective implementation of measures to control environmental pollution and protection of nearby houses and fields from the anticipated damage due to mining activity and social development of the village.

The total cost of the project will be Rs. 3.8 Crores. The cost on Environmental Protection Measures will be Rs. 15.4 Lakhs. It is proposed to incur an amount of Rs. 20 Lakhs on CSR activities.

The Committee took note of a common representation on Minor Mineral Projects of State of Haryana which has been dealt in **Item no. 3 of the Minutes of Meeting**.

Further to the information cited above, the Committee desired that **PP has to submit the following documents/clarifications for further decision on the matter by the Committee where after Committee will take up the matter for further appraisal of the Project:-**

- (i) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Haryana vide letter dated 04.11.2014 and the Public Hearing was held during 15.09.2014 i.e. **prior to approval of the Mine Plan**. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the PP to the Public. The Committee also was of the view that clarification may also be sought from the PP with an undertaking, **as to whether the contents of Draft Mine Plan and approved Mine plan are same or different**;
- (ii) Committee desired that in compliance with TOR no. 1, production details be submitted; as mine was working earlier as informed by the PP during presentation;
- (iii) Details of impact and predictions from blasting and fly rocks should be provided;
- (iv) Action Plan for ensuring good occupational environment for mine workers may be submitted based on Recommendations of any Nationally reputed Institute; Both specific and Generic preventive measures may be elaborated in the Action Plan;
- (v) Wind rose diagram was not correct, which needs to be redone and submitted;
- (vi) Committee noted that in proper compliance of TOR no. 17 with regard to Aravali Notification, the required Certificate from the concerned Authority should be submitted;
- (vii) Committee noted that in compliance with TOR no. 47 the details and outcome of Court case in CWP No. 27700 of 2013, needs to be furnished;
- (viii) Details of R&R were deficient, complete details in this regard should be furnished; and
- (ix) Deficiencies in Annexure-I (as per Agenda) and the Questionnaire may be rectified and re-submitted.

**(2.2) Mining of Bajri (Minor Mineral) with production capacity of 12 Lakh TPA (ROM) by M/s Naval Kishor Gupta, located at Revenue village of Tehsil-Baseri & Bari, District-Dholpur, Rajasthan (232.92ha)(Consultant: Vardan Environet, Gurgaon, Haryana)-EC**

The proposal of M/s. Naval Kishore Gupta is for Mining of Bajri (Minor Mineral) with production capacity of 12 Lakh TPA (ROM). The mine is located at Tehsil Baseri & Bari, District Dholpur, Rajasthan. The geographical Coordinates of the proposed mine lease area lie between Latitudes: 26°38'45.10"N to 26°45'46.25"N and Longitudes: 77°29'17.65"E to 77°38'27.07"E on Toposheet no. 54 F/5, 54 F/9, 54 F/10 & 54 F/6.

The proposal of ToR was considered by Expert Appraisal Committee (Mining) in its meeting held during 25-27<sup>th</sup> September, 2013 to determine the terms of reference (ToR) for undertaking the detailed EIA study. The ToR was issued by Ministry vide Letter no. J-11015/277/2013-IA.II (M) and dated 17<sup>th</sup> October, 2013. The project Proponent submitted the EIA/EMP Report to Ministry for seeking environmental clearance after conducting Public Hearing.

The Total Mine Lease area is 232.92 ha which is Government land. No forest land is involved. The LOI was granted in the name of Shri Naval Kishore Gupta by the Department of Mines & Geology, Rajasthan vide letter no. प2(ए.1)/धौल /बजरी/2012/156 dated 11.01.2013. The Mining Plan along with Progressive Mine Closure Plan has been approved by Department of Mines & Geology, Rajasthan vide Letter No. SME/BP//M.Plan/2013/599 dated 11<sup>th</sup> November, 2013. Mining will be done by opencast semi mechanized method. Mineable reserves as per the Mine Plan are 88,04,376 MT. Life of mine is 7 years. Transportation of mineral will be made by trucks & tractors.

Proponent reported that the bench height will be 3 m and convenient bench width will not be less than the bench height. The Bajri Mining will be restricted up to a depth of 3 m bgl while the average ground water table exists at about 20 m bgl. This suggests that there will be no intersection of water table by the proposed mining in the area. The water requirement for the proposed mining activity will be 10.81 KLD and it will be sourced from the existing bore wells/wells of nearby villages.

PP reported that there are no National Parks, Wildlife sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/ Elephant Reserves etc. within the study area (10 km radius of Mining Lease boundary). There is one Reserved Forest in the study area: Sonikhera Reserved Forest (6.5 Km, NW). No Schedule I species was reported in the study area. Baseline studies were carried out during Post Monsoon Season, 2013 (October-December, 2013). The basic environmental attributes, i.e. air, water, soil & noise are well within the limits as prescribed by the CPCB.

The Public Hearing was conducted on 21-07-2014 at Sub Division Office, Baseri. The Public Hearing was presided over by Sh. Shivcharan Meena, Additional District Magistrate, Dholpur. The issues raised during Public Hearing were discussed during the Meeting, which inter-alia included priority to local people in employment, effective implementation of measures to control environmental pollution and protection of nearby fields and social development of the village. Project Proponent reported that there is no Court case/ litigation pending against the proposed Project. The total cost of the project

will be 1.53 Crores. The cost on Environmental Protection Measures will be Rs. 7 Lakhs. It is proposed to incur an amount of Rs. 5 Lakhs on CSR activities.

Further to the information cited above, the Committee desired that **PP has to submit the following documents/clarifications for further decision on the matter by the Committee where after Committee will take up the matter for further appraisal of the Project:-**

- (i) All the papers i.e. Maps, drawings and Plans were not legible; The Committee also noted that the Consultant has not followed the Manuals, Standards, Office Memoranda and Guidelines issued by the Ministry from time to time for preparing EIA/EMP Report and submitting documents to EAC members. This has caused EAC members finding it difficult to appraise the Project. The Consultant and also the Project Proponent **should not have unnecessarily submitted such a Proposal causing delay in appraisal of Proposal and wasting the time of the Committee. Legible set of the required documents may be submitted;**
- (ii) PP has not submitted copy of Mine Plan which may be furnished;
- (iii) Committee desired that in compliance with TOR no. 17 with regard to Aravali Notification, a proper Certificate from the competent Authority be submitted;
- (iv) Action Plan for ensuring good occupational environment for mine workers may be submitted based on Recommendations of a Nationally reputed Institute; Both specific and Generic preventive measures may be elaborated in the Action Plan;
- (v) Annexure-I (as per Agenda) and revised Questionnaire may be submitted;
- (vi) Action Plan with budgetary provisions duly addressing the issues raised during Public Hearing may be submitted;
- (vii) PP has not adequately addressed the presence of wild life in the study area. A detailed Report with regard to wild life habitat in the study area prepared by any Wild Life Expert shall be submitted; and
- (viii) There are two Rare, Threatened and Endangered (RET) Plant Species i.e. *Commiphora* and *Adhatoda* which need to be conserved and a Plan for multiplication of such species (as accepted by PP during presentation) may be submitted.

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

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

The Latitudes & Longitudes of the site are 28° 51' 45.00" N to 28° 53' 18.06" N and 75° 50' 28.12" E to 75° 51' 23.08" E respectively on Toposheet No. H43V13 (44P13).

The Proposal was considered by the Expert Appraisal Committee (Non-Coal Mining) in its Meeting held during 29<sup>th</sup> – 30<sup>th</sup> April, 2014, to determine the Terms of Reference (ToR) for undertaking detailed EIA study. The ToRs were issued by the Ministry vide letter no. J-11015/100/2014.IA.II (M) dated 11<sup>th</sup> June, 2014. The Proponent submitted the EIA/EMP report to the Ministry seeking Environmental Clearance after conducting Public Hearing.

The total mining lease area is 55.50 ha, which is Government Land. PP reported that there is no forest land involved. LOI was issued by Department of Mines & Geology, Haryana vide Memo No. DMG/HY/ML/Dadam/2013/161 dated 03.01.2014. Mining Plan & Progressive Mine Closure Plan have been approved by Director of Mines and Geology, Haryana vide letter no DMG/HY/ML/Dadam/MP/2013/4684 dated 28.10.2014. PP reported that total mined out area will be 43.34 ha area out of which, 21.17 ha area will be converted into water reservoir & 25.17 ha area will be used for plantation on benches & 9.16 ha for Greenbelt development / Plantation. Total mineable reserves are 137.45 Million Tonnes. The life of the mine is 10 years. PP informed that mining lease does not fall in Aravalli Hill range and submitted a certificate from the Department of Mines & Geology, State Govt. of Haryana vide letter dated 08.11.2014. The PP informed that no crusher will be installed in the MLA.

Mining method will be mechanized opencast for Mining of Stone (Minor Mineral) with production capacity of 15 million TPA (ROM) by digging, sorting, grading of minerals & transportation by trucks/dumpers. It is proposed to work by forming benches of 9 m height and 9 m width. Total water requirement for the project is 100KLD which will be sourced from Ground water. The ground water drawl permission has been obtained from the Central Ground Water Authority vide letter dated 21<sup>st</sup> November, 2014.

Project Proponent reported that there is no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife Corridors, Tiger/Elephant Reserves exists within 10 km radius of the mine site. The baseline data was generated for the period during Sumer Season (March-May, 2014) & one month additional monitoring data for post monsoon season (October, 2014). All the parameters for water & air quality were within permissible limits.

The Public Hearing for the project was conducted on 1<sup>st</sup> October, 2014 at Village– Dadam, Tehsil- Tosham, District- Bhiwani (Haryana). Public Hearing was presided over by Shri D.K. Behera, Deputy Commissioner, Bhiwani. The representative of Regional Officer of HSPCB was also present. Major issues raised during Public Hearing were discussed during the meeting, which inter-alia, included, local employment; Environment related issues like vibrations and noise generation due to major blasting, Health and safety facilities, major diseases due to pollution and others. As per the villager's requirements, it was informed by the Project Proponent that they would take care of local employment on the basis of qualification and experience, Blasting will be done with latest technology which will help in reducing noise, vibration & air emission,

Medical check-up will be done at regular intervals under a health policy and other Services and Facilities would also be provided.

Total cost of the project is Rs. 18 Crores. The Project Proponent has earmarked Rs. 90 Lakhs towards Environmental Protection Measures as capital and Rs. 9.0 lakhs per annum towards recurring expenses. The PP informed that Rs. 92.50 lacs have been earmarked towards CSR activities. One Court case in CWP No. 27700 of 2013 is pending before the Hon'ble High Court of Punjab & Haryana as mentioned in the LOI letter issued by the Mines & Geology Department of State Govt. of Haryana.

The Committee took note of a common representation on Minor Mineral Projects of State of Haryana which has been dealt in **Item no. 3 of the Minutes of Meeting.**

Further to the information cited above, the Committee desired that **PP has to submit the following documents/clarifications for further decision on the matter by the Committee where after Committee will take up the matter for further appraisal of the Project:-**

- (i) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Haryana vide letter dated 28.10.2014 and the Public Hearing was held on 01.10.2014 i.e. **prior to approval of the Mine Plan.** Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the PP to the Public. The Committee also was of the view that clarification may also be sought from the PP with an undertaking, **as to whether the contents of Draft Mine Plan and approved Mine plan are same or different;**
- (ii) Certificate from State Govt. with regard to details of forests land in the mine lease area need to be provided;
- (iii) Waste dump management plan may be provided;
- (iv) Authentic List of Flora/Fauna needs to be provided;
- (v) Committee noted that compliance of TOR no. 29, Green belt development plan was not adequately addressed by the PP;
- (vi) Details of impact and predictions from blasting and fly rocks were not provided; and
- (vii) Action Plan for ensuring good occupational environment for mine workers may be submitted based on Recommendations of Nationally reputed Institute; Both specific and Generic preventive measures may be elaborated in the Action Plan.

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

The proposal of M/s. MSK (JV) is for Mining of Stone in the Mine of “Atela Kalan” with production capacity of 6.0 million TPA of Stone (ROM). The mine lease area is located at village- Atela kalan, Tehsil –Charkhi Dadri, District: Bhiwani (Haryana). The Latitudes & Longitudes of the site are 28°34'10.94" N to 28°34'42.74"N and 76°5'38.24" E to 76°6'13.90" E respectively on Toposheet No. 53D/2, 53D/3.

The proposal of TORs was considered by the Expert Appraisal Committee (Non-coal Mining) in its meeting held during 29<sup>th</sup>-30<sup>th</sup> April, 2014 to determine the Term of Reference (ToR) for undertaking detailed EIA study. The ToRs were issued by the Ministry vide letter no. J-11015/74/2014-IA.II (M) dated 11.06.2014. The proponent submitted the EIA/EMP report to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

The total mining lease area is 54.0 ha which is Government Land. PP reported that there is no forest land involved. LOI was issued by the Department of Mines & Geology, Haryana vide Memo No. DMG/HY/ML/Atela Kalan/2013/155, dated - 03.01.2014, Chandigarh. Mining Plan & Progressive Mine Closure Plan has been approved by Department of Mines & Geology, State Govt. of Haryana vide letter No. DMG/HY/Atela Kalan/MP/4154 dated 15.09.2014. PP reported that 27.56ha area will be converted into water reservoir, 18.19ha for Greenbelt development/Plantation, 0.18ha area for Infrastructure development, 2.08ha for road and 5.27ha area will be the undisturbed area. The mineable reserves are 69.105 Million Tonnes and life of mine is 12 years. PP informed that mining lease does not fall in Aravalli Hill range and submitted a certificate from the Department of Mines & Geology, State Govt. of Haryana vide letter dated 20.08.2014.

The production capacity of “Atela Kalan” will be 6.0 million TPA of Stone (ROM). Mining method will be opencast mechanized for Production of Stone by digging, sorting and grading of minerals & transportation by trucks/dumpers. In the present operation, bench height will be 9m. Each bench will advance one by one. While carrying out the mining operations in accordance with the above provisions, the overall pit slope will be maintained at 50° the mineral bearing rocks being hard and compact. Total water requirement for the project is 40 KLD which will be sourced from Nearby Villages. Preference will be given to the local people as per their eligibility.

PP reported that there are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves within 10 km radius of mine site. No Schedule – I species were reported within buffer zone. The baseline data was generated for the period during Summer Season - March to May, 2014 and one month additional monitoring in October, 2014. The Committee deliberated on the baseline data and found that the principle environment parameters are well within the permissible limits as prescribed by the CPCB.

The Public Hearing was conducted on 10<sup>th</sup> October, 2014 at 11:00 am at Mine Site, Village– Atela Kalan, Tehsil –Charkhi Dadri, District: Bhiwani (Haryana). The Public Hearing was presided over by Shri D.K. Behera, Deputy Commissioner, Bhiwani. The



representative of Haryana SPCB was also present. The issues raised during Public Hearing were discussed during the Meeting.

Total cost of the Project is Rs. 30 Crores. The Project Proponent has earmarked Rs. 75 Lakhs/- towards Environmental Protection Measures & Rs. 12.0 Lakhs/annum towards recurring expenses. PP informed that Rs. 25.00 Lakh/- has been earmarked towards CSR activities. One Court case in CWP No. 27700 of 2013 is pending before the Hon'ble High Court of Punjab & Haryana as mentioned in the LOI letter issued by the Mines & Geology Department of State Govt. of Haryana.

The Committee took note of a common representation on Minor Mineral Projects of State of Haryana which has been dealt in **Item no. 3 of the Minutes of Meeting**.

Further to the information cited above, the Committee desired that **PP has to submit the following documents/clarifications for further decision on the matter by the Committee where after Committee will take up the matter for further appraisal of the Project:-**

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

**(2.5). River Sand Mining with production capacity of 30 Lakh TPA of M/s. Abhishek located near villages- Bakarwaliya, Sinodiya, Bhadun, Palri Bhopatan, Tehsil-Kishangarh, District-Ajmer (Rajasthan) (1219.03ha)-EC**

The Committee **deferred** the proposal as the PP did not attend the Meeting.

**(2.6). River Bed mining project of Bajri (Minor Mineral) with production capacity of 7.5 Lakh TPA (ROM) of Bajri by M/s Indrajeet Singh Jhala, located at Revenue village(s) of Tehsil - Gangadhar, District-Jhalawar, State-Rajasthan (1179.84ha)(Consultant: M/s Udaipur Min-Tech Pvt. Ltd., Udaipur, Rajasthan)-EC**

The proposal of M/s Indrajeet Singh Jhala is for River Bed mining project of Bajri (Minor Mineral) with production capacity of 7.5 Lakh TPA (ROM) of Bajri. The mine lease area is located at near villages: Parapili, Mundla, Bishniya, Chaumahta, Gangdhar, , Pipakheri, Uncha Bardlya, Lakha kheri parmar, Chiri, Sarwar, Magal, Unhel, Kishangarh, Karmakheri, Chara, Tonkra, Tehsil-Gangdhar and Distt.- Jhalawar, Rajasthan over an area of 1179.84ha. Proposed production of Bajri is 7,50,000 TPA. The applied lease area lies between Latitudes & Longitudes 24° 01' 32.47'' - 23° 47' 32.21'' N and 75° 42' 02.82'' - 75° 27' 37.45'' E respectively.

The proposal of TORs was considered by the Expert Appraisal Committee (mining) in its meeting held during 31<sup>st</sup> October, 2013 to 01<sup>st</sup> November, 2013, for undertaking detailed EIA study. The TORs were prescribed by the Ministry vide letter no. J-11015/327/2013-IA.II (M) dated. 22.11.2013. The Proponent submitted the present EIA/EMP Report for proposed production to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

The total mine lease area is 1179.84 ha. PP informed that 130.0 ha area will be excavated in five Blocks in the operational phase. About 37.5 ha area will be planted up to 5<sup>th</sup> year, Plantation will be taken up along the approach roads and vicinity of river bank. The Letter of Intent was issued by Joint Secretary, Mines (Group-2), Government of Rajasthan, letter no.P.9 (2) Khan/Group-2/2013, Jaipur dated 08.03.2013. As per RMMCR 1986, validity period of lease is five years. The mining plan with progressive mine closure plan was approved by Suptdg. Mining Engineer, Kota vide letter no. SME/Kota/CC-II/MP/13/11748 dated 13.12.2013.

The method of mining will be open cast semi-mechanized for River Bed mining of Bajri (Minor Mineral) with production capacity of 7.5 Lakh TPA (ROM) of Bajri. Excavation will be carried out up to a maximum depth of 3 meters from surface of sand deposit or one meter from water level, whichever comes first. The loading will take place in Truck /Dumper and Tractor Trolley. Total water requirement is 15.0 KLD. The required water will be available from Dug well & river water from applied lease area. No waste will be generated. The mining will be done in five Blocks in different sites of the applied lease area.

Project Proponent reported that there is no National Park, Wild Life Sanctuary, Habitat for Migratory Birds, Tiger Reserve, Elephant Reserve or Bio-sphere Reserve located within 10 km radius of the mine lease. One Schedule I species namely Peacock was recorded, however, PP has not submitted the Conservation Plan duly approved by Chief Wild Life Warden of the State Govt. The baseline data was generated for the period during winter season i.e. December 2013 to February 2014. All the parameters for water and Air quality were within the permissible limits.

Public Hearing was held on 10.06.2014 which was presided over by Shri Khajan Singh, ADM, District-Jhalawar. The representative from the Rajasthan State Pollution Control Board, Regional Office, Gangdhar was also present. The Committee discussed the issues raised during Public Hearing. The total cost of the project is 80.0 Lakhs. The Project Proponent has earmarked Rs 10.0 Lakh per annum as recurring cost towards Environmental protection measures. Rs. 10.0 lakhs have been earmarked towards Socio-economic Welfare measures for the nearby village. PP informed that there is no court case /litigation pending against the project.

Further to the information cited above, the Committee desired that **PP has to submit the following documents/clarifications for further decision on the matter by the Committee where after Committee will take up the matter for further appraisal of the Project:-**

- (i) Date wise AAQ data has not been submitted by the PP, which may be furnished;
- (ii) The Committee noted that compliance of TOR no. 20 & 21 with regard to wind rose diagram and Isopleth was not adequately addressed by the PP, this may be done;
- (iii) The Committee noted that in compliance with TOR no. 27, the required details with regard to the stream passing through the MLA may be furnished;
- (iv) Committee desired in compliance with TOR no. 35, expected implications with regard to Public Health may be adequately addressed and details given;
- (v) One Schedule-I species namely Peacock was recorded, PP may submit the Conservation Plan, duly approved by the concerned Chief Wild Life Warden;
- (vi) Action Plan with budgetary provisions on issues raised during Public Hearing was not found satisfactory. The Action Plan as required may be given. The damaged Bridge for People's access may be restored as raised by Public during PH.;
- (vii) Action Plan for ensuring good occupational environment for mine workers may be submitted based on Recommendations of any Nationally reputed Institute; Both specific and Generic preventive measures may be elaborated in the Action Plan; and
- (viii) There is one Rare, Threatened and Endangered (RET) Plant Species i.e. *Asparagus racemosus*, which needs to be conserved and a Plan for multiplication of such species may be submitted as agreed to.

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

The proposal of M/s. Sanjay Jaglan is for mining of sand in the Mine of “Panipat Unit-2” with production capacity of 10 million TPA of Sand (ROM) in mine lease area of 1775.02ha. The mine lease area is located at village(s)- Nanhera, Adhmi, Jalmana, Rahimpur Kheri, Mirzapur, Goela Kalan, Goela Khurd, Sanjoli, Raimal, Khojgipur, Bilaspur, Hathwala, Saharmalpur, Garhichajju and Jorasikhalsa, Tehsil-Panipat, District-Panipat, Haryana. The mine lease area lies in the bed of River Yamuna & outside the River bed too. The Latitudes and Longitudes of the lease area in River Bed are Nanhera Block/PNP-3 Latitudes : 29°13'29.48" to 29°21'30.60"N" Longitudes : 77° 8'16.06" to 77° 7'31.62"E". The Latitudes and Longitudes of the lease area in Agriculture Land is Garchajju Block/PNP-6 are : 29°15'21.11" to 29°17'10.97"N" and : 77° 3'15.12" to 77° 3'41.43"E" respectively, on Survey of India Topo-sheet No. 53G03, 53G04, 53C15.

The proposal of TORs was considered by the Expert Appraisal Committee in its meeting held during March 20-21, 2014, for undertaking detailed EIA study. The TORs were prescribed by the Ministry vide letter no. J-11015/33/2014-IA.II (M) dated 08.08.2014. The Proponent submitted the present EIA/EMP Report for proposed production to the Ministry for seeking Environmental Clearance after conducting Public Hearing.

Total mine lease area is 1775.02 ha, out of which River bed area is 976.5 ha, Agricultural land area is 798.52ha and area restricted for mining is 558.67ha (Bridges, roads, anicuts, 7.5m lease boundary, 25% river bank sides etc., 50m strip after each km). The Letter of Intent has been issued by the Director, Mines & Geology Department, Govt. of Haryana, vide letter no. DMG/Hy/Panipat Unit- 2/2013/125 vide letter dated 03.01.2014. Mine Plan has been approved by Department of Mining & Geology, Haryana vide letter no. DMG/HY/Auction/PNPUNT-4/MP/4477 dated 13.10.2014.

The Proposal pertains to mining of sand on Agriculture Land & River Bed. The rate of production will be 10 million TPA (ROM) of Sand from both Agriculture Land & River Bed. Project Proponent reported that the Sand from the dried river bed will be excavated at the rate of 4.0 million TPA (ROM) and outside the river bed @ 6.0 million TPA (ROM). The method of mining adopted will be opencast manual mining in River bed and mechanized in Agriculture land. No drilling and blasting will be adopted. Geological Reserves in the mining lease are estimated to be 170.38 Million Tonnes whereas Mineable Reserves are estimated to be 119.26 Million Tonnes. Mining will be continuing up to 3 m depth in the River bed & 9 m depth outside the River bed. River bed area is 976.5 ha & outside river bed is 798.52 Ha. Sand Mining will be carried out only upto a depth of 3 m bgl or a meter above ground water level (whichever comes first), for the river bed Blocks and 9 m bgl or a meter above ground water level (whichever comes first), for the off River bed Blocks. Total water requirement will be 36 KLD which will be used for sprinkling, plantation and drinking purposes. Water will be supplied with the help of water tankers from existing bore wells/ tube wells from nearby villages. The

machinery for the mining will be excavators, dumpers and tractor-trolleys etc. No waste will be generated from dried river bed mining; however, 1-2m topsoil generated from agriculture land mining shall be backfilled, simultaneously.

Project Proponent has reported that there is no Wildlife Sanctuary, National Park, Habitat for Migratory Birds, Tiger Reserve and Critically Polluted Area etc. located within 10 km radius of the mine lease. There is one Schedule-I species namely Common Peafowl and Schedule-II species namely Jackal, mongoose and rhesus monkey found in buffer zone. PP informed that the species specific Conservation Plan has been approved, however, copy of the letter of approval needs to be provided.

The baseline data was generated for the pre-monsoon period during March 2014 to May 2014. The Committee deliberated on the baseline data and found that the principle environment parameters are well within the permissible limits as prescribed by the CPCB.

Public Hearing was conducted on 30.09.2014, at village Nanhera, Tehsil & District Panipat, Haryana. Public Hearing was presided over by Shri Ajit Bala Ji Joshi, Deputy Commissioner, District-Panipat. The representative from the Haryana State Pollution Control Board, Regional Office, Panipat was also present. The Committee discussed the issues raised during Public Hearing. The total cost of the Project is Rs 5.5 Crores. The cost on environment protection measures will be Rs 16.75 Lakhs (capital cost). It is proposed to incur Rs 45 Lakhs on CSR activities. One case CWP No.27700 of 2013 filed by Sh. Rajbeer Singh is pending before Hon'ble Punjab and Haryana High Court. The letter of intent issued by State Govt. is subject to the outcome of this CWP.

The Committee noted that PP will use 798.52ha agriculture land for the mining activities which may affect the fertility of the soil. The Committee noted that a representation was received from the Society for Awareness and Development which *inter-alia* has cited the Report of Haryana Agricultural University, Hissar (2006) which was relied upon by the Hon'ble High Court of Punjab and Haryana requiring the Environmental Impact Assessment Authorities to examine the issues prior to grant of environmental clearances. The Committee noted that the provision of the EIA Notification, 2006 entails prior examination of issues before the proposals are recommended for EC. However, the present proposal is for District Panipat but the impact being of similar nature, the Committee is of the view that all necessary precautions to prevent the degradation of the surrounding eco-system shall be put in place. In case any degradation is noticed, the affected fertile land shall be duly compensated for loss in productivity. HAU in their summary have concluded with respect to three Districts namely Sonapat, Panipat and Yamuna Nagar that, *"the sand mining has disturbed the natural soil profile, land degradation due to soil erosion, formation of gullies at the junction of mined and un-mined fields and drifting of fine dust particles causing air pollution; the depleted soil fertility and low water holding capacity of the soil as a result of sand mining, the inputs of requirement in terms of fertilizers and water will be high resulting in high cost of crop production and less net profit"*.

*Representation has also been received requesting the EAC to consider sand mining cases in the meetings to be held during the next few months. Accordingly, the issue of mining over agricultural land should be considered in a broader prospective and views of various Expert Institutions that have carried out detailed studies and research, should be taken before any sand mining or mining of any mineral which is otherwise abundantly available elsewhere, be allowed over agriculture land.*

In view of the above Representation and deliberations at length during the meeting, the Committee was of the view that it is advisable that for the time being, **PP may be allowed mining activity on River Bed only and the decision on the mining activities on Agricultural land may be deferred in view of several Representations and likely impact on Agricultural productivity. The PP has also agreed to this decision of the Committee.**

The Committee took note of a common representation on Minor Mineral Projects of State of Haryana which has been dealt in **Item no. 3 of the Minutes of Meeting.**

Further to the information cited above, the Committee desired that **PP has to submit the following documents/clarifications for further decision on the matter on the sand mining proposal on River Bed with production capacity of 4.0 million TPA (ROM) of Sand by the Committee where after Committee will take up the matter for further appraisal of the Project:-**

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

- (iv) Committee noted that Water Quality Level has to redone again;
- (v) Action Plan with budgetary provisions of issues raised during Public Hearing were not adequately addressed by PP;
- (vi) Maps and photos are completely not legible; Same should be improved and need to be submitted;
- (vii) Action Plan for ensuring good occupational environment for mine workers may be submitted based on Recommendations of Nationally reputed Institute; Both specific and Generic preventive measures may be elaborated in the Action Plan;
- (viii) Details of Mitigation measures need to be provided for two villages where fluoride level, calcium, chloride, TDS, total hardness and magnesium in water is higher than the permissible limit as per EIA/EMP Report; and
- (ix) Revised Questionnaires need to be submitted.

The Committee has also observed that the Consultant has reproduced the same data for water quality parameters for villages namely Atah and Pasina Khurd. The Ground water quality data of Atah village for dates 05.04.2014, 23.04.2014 and 05.05.2014 are the same as the data of Pasina Khurd village for dates 30.04.2014, 12.04.2014 and 15.05.2014 respectively. Therefore, **Analysis Report in various locations shows that the Consultant has duplicated the same data at two sites which amount to data replication without analysis affecting the result of impact prediction. The same may be rectified by Consultant and QCI/NABET may also be informed accordingly for necessary action.**

**(2.8). Mining of Stone (Minor Mineral) in the Mine of "Rajawas" with production capacity of 9.0 million TPA (ROM) by M/s. R.S. Joint Venture, located at village Rajawas, Tehsil & District- Mahendergarh, Haryana (53.03ha) (Consultant: JM EnviroNet Pvt. Ltd., Haryana)-EC**

The proposal of M/s. R.S. Joint Venture is for Mining of Stone (Minor Mineral) in the Mine of "Rajawas" with production capacity of 9.0 million TPA (ROM) in the ML Area of 53.03ha. The mine lease is located at Village Rajawas, Tehsil & District Mahendergarh (Haryana). The Latitudes & Longitudes of the site are 28° 18'15.3" N to 28° 19'10.04"N and 76° 03' 00" E 76° 03' 35.2" E respectively & part of study area falls within the Survey of India Toposheet No. H43W3, H43W4, H43V15 & H43V16.

The Proposal was considered by the Expert Appraisal Committee (Non-coal Mining) in its meeting held during 29<sup>th</sup> to 30<sup>th</sup> April, 2014 to determine the Terms of Reference (TOR) for undertaking detailed EIA. The TORs were issued by the Ministry vide letter No. J-11015/78/2014-IA.II (M), dated 11<sup>th</sup> June 2014. The Proponent submitted the EIA/EMP report to the Ministry for seeking environmental clearance after conducting Public Hearing.

The total mining lease area is 53.03ha which is Government land. LOI for mining lease was granted vide Memo No. DMG/HY/ML/Rajawas/2013/171 dated - 03.01.2014 by Department of Mines & Geology, Haryana. The Mining Plan & Progressive Mine Closure Plan has been approved by Mines & Geology, Haryana vide letter no. DMG/HY/ML/Rajawas/MP/2013/4555-58 dated 17.10.2014. PP reported that total mined out area will be 42.32ha, out of which 5.48 ha area will be converted into water reservoir & 36.84 ha area will be used for plantation on benches, 5.85 ha area for Greenbelt development/plantation, 1.20 ha area for road, 0.43 ha area for Infrastructure development & 2.58 ha area will be the undisturbed area. Total mineable reserves are 189.67 Million Tonnes. Life of the mine is 21 Years.

Method of Mining will be opencast mechanized for Production of Stone using digging, sorting of minerals & transportation by trucks/dumpers. Mineral will be sorted and graded and transported through trucks. It is proposed to work by forming benches of 10 meters height and 9 meters width from top downwards which may be reviewed. Total water requirement for the project is 60 KLD, which will be sourced from Ground water.

PP reported that there is no National Park, Wildlife Sanctuary, Biosphere Reserve, Wildlife corridors, Tiger/Elephant Reserves within 10 km radius of the mining project site. Three Reserved Forests exist within 10 km radius of mine site. PP informed that mining lease does not fall in Aravalli Hill range and submitted a certificate of the Department of Mines & Geology, State Govt. of Haryana vide letter dated 08.11.2014.

The baseline data was generated during Summer Season (March-May, 2014) & one month additional monitoring data for post monsoon season (October, 2014). All the parameters for water & air quality were within permissible limits.

The Public Hearing was held on 15<sup>th</sup> September, 2014 at mine site, village Rajawas, Tehsil & District: Mahendergarh (Haryana) and presided over by Shri Atul Kumar Divedi, Deputy Commissioner. The representative of Haryana State Pollution Control Board, Regional Office, Mahendergarh (Haryana) was also present. The issues raised during Public Hearing were also discussed during the Meeting, which inter-alia, included employment opportunities, medical & health care facilities; Environment related issues like vibrations and noise generation due to heavy blasting, Road & Transportation issues etc. As per the villager's requirements, it was informed by the PP that they would take care of local employment, provide medical/health check-ups for villagers, Blasting will be done with latest technology which will help in reducing noise, vibration & toxic fumes, Royalty free raw material supply to local villagers, separate road for transportation etc.

Total cost of the Project is Rs 18 Crores. PP informed that Capital Cost for environmental protection measures is Rs. 90 Lakhs/- & Recurring cost is Rs. 9.0 Lakhs. PP informed that a sum of Rs. 55.5 Lakhs/- has been earmarked towards CSR activities. One Court case in CWP No. 27700 of 2013 is pending before the Hon'ble High Court of Punjab & Haryana as mentioned in the LOI letter issued by the Mines & Geology Department of State Govt. of Haryana.

The Committee took note of a common representation on Minor Mineral Projects of State of Haryana which has been dealt in **Item no. 3 of the Minutes of Meeting**.



Further to the information cited above, the Committee desired that **PP has to submit the following documents/clarifications for further decision on the matter by the Committee where after Committee will take up the matter for further appraisal of the Project:-**

- (i) The Committee noted that Mine Plan has been approved by Department of Mining & Geology, Haryana vide letter dated 17.10.2014 and the Public Hearing was held during 15.09.2014 i.e. **prior to approval of the Mine Plan**. Thus the Public was informed about the Mining Proposal with a draft Mine Plan only. In view of the above, it was decided by the Committee that the comments of the Mining & Geology Department be secured on material changes, if any, in the Final Mine Plan compared to the said Draft Mining Plan submitted by the PP to the Public. The Committee also was of the view that clarification may also be sought from the PP with an undertaking, **as to whether the contents of Draft Mine Plan and approved Mine plan are same or different**;
- (ii) Action Plan for ensuring good occupational environment for mine workers may be submitted based on Recommendations of Nationally reputed Institute; Both specific and Generic preventive measures may be elaborated in the Action Plan;
- (iii) PP proposed to work by forming benches of 10 meters height and 9 meters width from top downwards which may be reviewed; and
- (iv) There are 20,000-25,000 Plants/Trees as reported in the PH proceeding, the comments of DFO in this regard needs to be obtained about applicability of FC Act, 1980. The present area is surrounded on three sides by Aravali Planation and mine is at zero distance from the Aravali Planation of Rajawas village and area closed under section 4 & 5 of PLP Act, 1900 of Madhogarh village. There is no road/path to reach to the proposed mine site. The access to mining area is only possible through Aravali Planation or area closed under PLP Act, 1900. DFO has also mentioned that any such proposal for path has not been received under the FC Act, 1980. Therefore, PP needs to clarify all the points raised during PH on the forests issues as produced in the Note at page 158-161 of the EIA/EMP Report.

The Committee decided that a **Sub-Committee comprising of Prof. G.S. Roonwal, Prof. A.K. Bhatnagar and Prof. L. Ajay Kumar, Members of EAC alongwith Member Secretary may visit the study area and submit the Report** particularly with reference to location of the proposed mine vis-a-vis Aravali and applicability of PLP Act.

**(2.9). River Bed Mining Project from River Banas with Production Capacity of 7.2 million TPA (ROM) of Bajri by M/s. S.R. Associates, located at near Villages: Amlia, Banthali, Jalseena, Jaleri, Jagatya, Nandpura, Rajmahal, Satwara, Santhali; Tehsil- Deoli; District: Tonk (Rajasthan) (1667.78ha) (Consultant: JM EnviroNet Pvt. Ltd., Haryana)-EC**

The proposal of M/s. S.R. Associates is for River Bed Mining Project from River Banas with Production Capacity of 7.2 million TPA (ROM) of Bajri. The mining lease

area is located at Village(s) Amlī, Banthali, Jalseena, Jaleri, Jagatya, Nandpura, Rajmahal, Satwara, Santhali, Tehsil: Deoli, District: Tonk (Rajasthan). The Latitudes & Longitudes of MLA are North: 25°52'13.66" to 25°59'19.75" & East: 75°28'3.6" to 75°38'51.6" on Survey of India toposheet no. 45 O/5, 45 O/9 & 45 N/8, 45 N/12,. The Project is located in Seismic Zone-II.

The proposal of TORs was considered by the Expert Appraisal Committee (Non-Coal Mining) in its Meeting held on 21<sup>st</sup> -23<sup>rd</sup> Aug, 2013 to determine the Terms of Reference (ToRs) for undertaking detailed EIA study. Terms of Reference (ToRs) were issued by the Ministry vide letter no. J-1015/208/2013-IA.II (M) dated 14<sup>th</sup> October, 2013. The Proponent submitted the EIA/EMP report to the Ministry for seeking environmental clearance after conducting Public Hearing.

Total mining lease area is 1667.78 ha which consists of Gair mumkin nadi & nalla. Letter of Intent (LOI) for grant of mining lease of Bajri has been issued by the Joint Secretary, Department of Mines & Geology, Government of Rajasthan vide letter no. P.6 (4) Mine/Group-2/ 2013, dated 26.02.2013 for a period of five years. Mining Plan & Progressive Mine Closure Plan has been approved by Government of Rajasthan, SME, Jaipur Region, Jaipur (Rajasthan) vide their letter no. SME/JP/MP/352/13 dated 10<sup>th</sup> July 2013.

Mining will be by opencast manual cum semi-mechanized method. Mining process does not involve drilling & blasting. Machineries for mining activities include hydraulic loaders, tractor/trolleys etc. Transportation of Bajri from river bed face to consumers will be by road. Mining will be done upto 3 m from surface or 1 m above water level, whichever comes earlier. Total mineable reserves in the proved and probable category have been estimated at 104.24 million tonnes. PP informed that mining will be done as per the MoEF&CC Guidelines issued by Working Group in March, 2010 and Rajasthan State Government Policy Notification No. GSR 27 dated 21 June, 2012 in respect of mining of Bajri. Mining will be done as per Approved Mining Plan & Progressive Mine Closure Plan. No waste will be generated from the mining activities. There will not be any permanent change in land use as mining activity involves collection of deposited bajri. Natural replenishment of bajri will be there during rainy days. Total water requirement is 100 KLD for dust suppression, drinking & plantation which will be sourced from nearby villages.

PP informed that there are no Wildlife Sanctuaries, Tiger Reserves, National Parks, Biosphere Reserves within the study area (10 km radius of the mine boundary). Three Reserved Forests and Eight Protected Forests exist in the study area. There is one Schedule I species found in the study area. Conservation plan has been prepared by the PP. The total budget for biodiversity conservation will be Rs 27.80 Lakhs spread over 5 years. The PP has informed that the Conservation Plan for Schedule-I species is under approval by the Chief Wildlife Warden of the State Govt. PP informed that mine lease does not fall in Aravalli hill range and submitted a certificate from the Department of Mines and Geology, State Govt. of Rajasthan vide letter dated 13th Oct, 2014.

Baseline data has been collected during Post Monsoon Season, 2013 (October 2013 to December, 2013). The Committee deliberated on the baseline data and found

that the principle environment parameters are well within the permissible limits as prescribed by the CPCB.

Public Hearing was held on 18<sup>th</sup> June, 2014 at Gram Panchayat Bhawan, Village-Banthali, Tehsil- Deoli, District- Tonk (Rajasthan) and was presided over by Shri P.S Naaga, Additional District Collector (Administration), Tonk. The representative of Regional Office of Rajasthan State Pollution Control Board, Kishangarh was also present during the Public Hearing. The Committee has observed that Public made representation with regard to Water management, Socio- economic development, Employment, Transportation, pollution, damage of fertile land, water level degradation, fluoride concentration in water; and Time- bound Action Plan along with the budgetary allocation on the issues raised during the Public Hearing. In view of the above, the Committee was of the view that the PP has to make proper action plan on the issues raised during the PH.

The total cost of the project is Rs 1.0 Crore. The Capital cost of Rs. 15 Lakhs has been earmarked towards Environment Protection Measures & Rs 6 Lakhs per annum towards recurring expenses. Rs.60 Lakhs have been earmarked towards CSR activities. PP reported that No court case/ litigation is pending against the Project.

Further to the information cited above, the Committee desired that **PP has to submit the following documents/clarifications for further decision on the matter by the Committee where after Committee will take up the matter for further appraisal of the Project:-**

- (i) The Committee has observed that Public made representation with regard to Water management, Socio- economic development, Employment, Transportation, pollution, damage of fertile land, water level degradation, fluoride concentration in water; and Time- bound Action Plan along with the budgetary allocation on the issues raised during the Public Hearing. In view of the above, the Committee was of the view that the **PP has to make a proper Action Plan on the issues raised during the PH alongwith budgetary provisions and SPCB may be requested to submit all hard copies of the Representations** received regarding the Project;
- (ii) Committee noted that PP has not submitted the details w.r.t. disaster management plan and flood control mitigation measures. This may be done;
- (iii) There is one Schedule-I species found in the study area. PP is to submit the approved Conservation Plan for Schedule-I species, duly approved by the Chief Wildlife Warden; and
- (iv) Action Plan for ensuring good occupational environment for mine workers may be submitted based on Recommendations of any Nationally reputed Institute; Both specific and Generic preventive measures may be elaborated in the Action Plan.

The Committee decided that the Proposal be **deferred and that** the same be re-considered **without calling the PP** after receipt of the above information/clarifications.

**(2.10). River Sand Mining (Shivpura River- a tributary of Luni River) proposal with production capacity of 2.52 Lakh TPA (ROM) by M/s Paras Sethi, located at Revenue village(s) of Tehsil-Chohtan, District-Barmer, Rajasthan (54.68ha) (Consultant: Enviro Concept (I) Pvt. Ltd, Jaipur as per Hon'ble High Court of Rajasthan)-EC**

The proposal of M/s Paras Sethi is for River Sand Mining (Shivpura River- a tributary of Luni River) with production capacity of 2.52 Lakh TPA (ROM) of Sand in the mine lease area of 54.68ha. The mine lease is located at Revenue village(s) of Tehsil-Chohtan, Distt-Barmer, Rajasthan.

The Committee noted that the EIA/EMP Report has not addressed all baseline and other environmental parameters adequately. EIA/EMP Report has not been prepared in-line with the Annexure-III of EIA Notification, 2006. There are several deficiencies viz. (i) EIA/EMP Report along with Mining Plan/Scheme has not been circulated to the Committee Members and that the Committee experienced difficulty in appraising the Proposal for EC; (ii) There are 03 threatened species and 06 Schedule-I species as per Report for which conservation plan with funding provision has not been provided adequately; (iii) List of flora/fauna and endangered species are not accurate, a conservation plan for Endangered Plant species be submitted; (iv) Geological profile of the area may be furnished; (v) details of Action Plan for occupational health of the workers has not been furnished; (vi) Environment Policy has not been submitted; and (vii) detailed Action plan with budgetary allocation on issues raised during the Public Hearing has not been submitted.

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

**(2.11). Expansion of production capacity from 42,000 TPA to 1,50,000 TPA (ROM) of Limestone in Bhimdeol Mine by M/s GHCL, located at Village-Bhimdeol, Tehsil Talala District-Junagadh, Gujarat (56.3517 ha) (Consultant: Udaipur Min Tech Pvt. Ltd.)-Reconsideration of EC**

The proposal of M/s GHCL is for the expansion of production capacity from 42,000 TPA to 1,50,000 TPA (ROM) of Limestone in Bhimdeol Mine. The mine is located at Village-Bhimdeol, Taluka- Talala, District-Junagadh, Gujarat. The Latitude and Longitudes of the mine lease area are as: 20° 56' 55" to 20° 58' 05" N and 70° 36' 21" :: 70° 37' 02" E respectively.

The proposal of TORs was considered by the Expert Appraisal Committee (Non-Coal Mining) in its Meeting held on 21<sup>st</sup>-23<sup>rd</sup> September, 2011 to determine the Terms of Reference (ToRs) for undertaking detailed EIA study. Terms of Reference (ToRs) were issued by the Ministry vide letter no. J-1015/141/2011-IA.II (M) dated 31<sup>st</sup> October, 2011. The Proponent submitted the EIA/EMP Report to the Ministry for seeking environmental clearance after conducting Public Hearing.

The proposal of EC was earlier appraised by the 9<sup>th</sup> EAC meeting held during July 22<sup>nd</sup> -24<sup>th</sup> 2013, herein the Committee deferred the proposal and sought information/clarification. Based on the information submitted by PP vide letter no. GHCL/MIN/2014-15 dated 15/10/2014, the proposal was considered in the present Meeting.

The Committee noted that the Earlier EC was granted by MoEF vide letter no. J-11015/238/2003-IA.II (M) dated 06.10.2006 for production capacity of 42,000 TPA of limestone. Method of mining is opencast manual. Life of mine is 23 years. The Mining Plan was approved vide letter no 682(23)(165)2001-MCCM(N)UDP, dated 27/2/2002. Further, the Modified mining plan was approved by IBM, Udaipur for production enhancement from 42,000 to 1,50,000 TPA vide IBM letter no. 682/23/735/ 2010/MCCM(N)UDP dated 28/07/2011. The mining lease was executed for 56.3517ha for period of 20 years w.e.f. 15.09.2008. The Committee noted that there are discrepancies in the mine lease area in LOI & MP.

PP informed that there is no National Park, Sanctuary, Biosphere Reserve, Wildlife Corridor, Tiger/Elephant Reserve within 10 Km of the mine lease area. PP informed that the Project cost is Rs. 50.0 Lakhs and EMP cost is Rs. 25 Lakhs towards capital and 3.0 Lakh as Recurring cost per annum.

Public Hearing was held on 25<sup>th</sup> September, 2014 at Bhimdeol, Tehsil – Talala, District – Gir-Somnath (Earlier Junagarh), Gujrat and was presided over by Deputy Collector & Sub-Divisional Magistrate. The representative of Regional Office of Gujarat State Pollution Control Board, Junagarh was also present during the Public Hearing.

The Committee discussed the proposal in its Meeting held during July 22<sup>nd</sup> -24<sup>th</sup> 2013 and decided to defer the proposal and to request the RO to revisit the mine as regards the compliance of earlier EC and submit his Report. The Committee also decided that the Proposal be brought back to the Committee after the following information is submitted: -

- (i) Compliance report from the Regional Office, apparently sent vide covering letter vide 01<sup>st</sup> May 2013, is not available in MoEF, nor is it circulated among the Members. The Committee could not discuss the compliance of earlier EC (granted on 06/10/2006) conditions. The required Compliance Report, duly certified by the Regional Office, may be submitted.
- (ii) The PP has not submitted the Mine Plan and also not forwarded it to the Committee. The Committee could not discuss the MP. Copy of the approved Mine Plan may be submitted.

- (iii) Affidavit with regard to change of mine lease area in Mine Plan needs to be submitted.
- (iv) Clarification with regard to change of mine lease area may be secured from the State Govt. and a copy furnished to the Committee.
- (v) Copy of NOC letter from the Gram Sabha/Panchayat (as applicable) for the Gocher land used may be provided.
- (vi) The Committee noted that the issues raised during the Public Hearing are not properly addressed in the EIA/EMP Report. Action Plan on the issues raised during Public Hearing with budgetary provisions needs to be provided.
- (vii) As per PH, temple is archeological site, a certificate is to be provided from the Archeological Department of the State Govt.
- (viii) Details of survey of population w.r.t SC/ST from the State Govt. needs to be provided. PP shall also submit the plan of social development and details of employment to be provided to the Communities.
- (ix) Permission to Abstract water from the Central Ground Water Authority needs to be submitted.

Based on the information submitted by PP vide letter no. GHCL/MIN/2014-15 dated 15/10/2014, the proposal was considered in this present meeting. The Committee deliberated the **details submitted by the PP and was satisfied**; however the Compliance Report submitted by the Regional Office of the MoEF&CC is not adequate.

Based on the information furnished and discussions held, the Committee **deferred** the proposal and suggested that the mine may be **revisited** by the Regional Office of the MoEF&CC and submit the detailed compliance of Earlier EC granted by MoEF vide letter no. J-11015/238/2003-IA.II (M) dated 06.10.2006 for production capacity of 42,000 TPA of limestone. As the Monitoring Report submitted earlier is now one and half year old and the implementation status of non-compliances reported by RO are not available with PP, therefore a fresh monitoring by RO is necessary. The Committee decided that the Proposal be **deferred and that** the same be re-considered **without calling the PP** after receipt of the Compliance Report of RO, MoEF.

Day 2: 11<sup>th</sup> DECEMBER, 2014 (Thursday)

### CONSIDERATION OF EC PROPOSALS

**(2.12). Mining of Minor Mineral (Sand, Stone & Bajri with production capacity of 3,00,0000 TPA from River Giri for raw material of stone crusher of M/s Allstone Mines & Minerals Pvt. Ltd., village Rampur Ghat, Tehsil Paonta Sahib, District Sirmour of Himachal Pradesh (19.8416ha).**

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

### RECONSIDERATION ENVIRONMENTAL CLEARANCE

**(2.13). Captive Limestone Mine (5.0 MTPA) of M/s Chettinad Cement Ltd. located at Village-Peddagarlpadu & Kesanupalli, Mandal-Dachepalli, Distt-Guntur, Andhra Pradesh (377.68 ha) (Consultant: Pioneer Enviro Laboratories & Consultants Pvt. Ltd.)-EC**

The Proposal is for opening a New Captive Limestone Mine over an extent of 377.68 ha consisting of 347.983 ha of Patta Land and 29.692 ha of Government Land in Pedagarlapadu & Kesanupalli Villages, Dachepalli Mandal, Guntur District, Andhra Pradesh. The area is falling under Topo-sheet No.56 P/10 & P/14 with Latitudes: N 16°31.22.3" to N 16°33'51.8" and Longitudes: E 79°43'58.2" to E 79°44'52.4". The purpose of proposed Captive Limestone Mine is to meet the Limestone requirement of the Integrated Cement Plant proposed to be established adjacent to this Mine Area.

The Proposal was considered by the Reconstituted Expert Appraisal Committee in its 8<sup>th</sup> meeting held during 26<sup>th</sup> to 28<sup>th</sup> June 2013 to determine the Terms of Reference (ToR) for undertaking detailed EIA study. The ToR was issued by MoEF Vide Letter No J-11015/152/2013-IA.II (M) dated 27<sup>th</sup> August 2013. The Letter of Intent has been issued by the Government of Andhra Pradesh vide Memo No. 19749/M.IV(2) /2013-1 dated 18<sup>th</sup> January 2014 for an extent of 377.68 ha in Pedagarlapadu & Kesanupalli Villages, Dachepalli Mandal, Guntur District, Andhra Pradesh for the non-forest land consisting of 347.983 ha of Patta Land owned by the company and 29.692 ha of Government Land [Total Extent : 377.68 ha)]. The Mining Plan was approved by Indian Bureau of Mines vide Letter No AP/GNR/MP/LSt-73/Hyd dated 22<sup>nd</sup> Jul 2014. The proposed mine lease area consists of stony waste lands and small portion of single crop agricultural lands.

The Opencast mining will be done by Mechanized method by using drilling & blasting and deploying HEMM. The deposit is horizontally bedded and covered by the black cotton soil of thickness varying from 0 m to 3 m (1m average thickness) and is devoid of any complex geological structural disturbances. It forms a simple deposit with almost flat topography. The total estimated geological reserves are 442 million tons and the mineable reserves are 306 million tons. The black cotton soil will be scrapped & collected by hydraulic excavators & bulldozer, loaded by loaders and transported by dumpers to the temporary stacking yard for using the same concurrently for afforestation works. The Limestone will be mined by drilling 150mm diameter holes and

carrying out blasting using slurry and ANFO explosives. Loading of blasted Limestone will be carried out with the help of hydraulic excavator of 4.5 m<sup>3</sup> bucket capacity. The blasted limestone will be transported directly by 35 ton Dumpers, (thus reducing the number of trips and thereby reducing dust & noise generation) to the crusher in Cement Plant, located adjacent to the mine area, through the internal road within mine area. Mining operation will be carried out in two shifts of eight hours each, for 300 days in a year. The proposed maximum depth of the pit is 46m bgl, which will include an average thickness of 1.0 m of black cotton soil. The pit water will be collected in the sump developed below the bottom most bench and pumped out through centrifugal pumps for using the same for various purposes within the premises. No Beneficiation is involved as the entire Limestone produced will go as Plant feed.

The total Mine Lease area is 377.68 ha and the land use at conceptual period will be Mined out pits converted into Rainwater Harvesting Ponds : 280.01 ha, Greenbelt: 67.47 ha, Road/Infrastructure/Others:30.2 ha. No wastes will be generated and the entire Limestone produced will be used as the Plant feed. As no wastes are generated, there is no Proposal for back-filling of the pit. At conceptual stage, the leftover black cotton soil, if any, will be spread over the topmost Limestone bench for the development of vegetation. The total expected generation of Black Cotton Soil (BCS) is 7.0 million m<sup>3</sup>.

The water requirement for proposed mining activity will be 120 KLD which includes 100 KLD for dust suppression and greenbelt development, 10 KLD for workshop and 10 KLD for domestic purposes. The application submitted for obtaining clearance for ground water drawl from Central Ground Water Authority is under process. The Hydrological study has been carried out. The water table in the core zone is 10.2 m bgl during pre-monsoon and 4.3 m bgl in post monsoon and pit will reach a maximum depth of 46 m bgl (including average BCS thickness of 1m. The ground water will be intersected at 8m depth.

It was reported by the PP that there is no wildlife Sanctuary, Bird Sanctuary, Tiger Reserves, National Park, Elephant Corridor, within 10 km of the proposed mine boundary. Madinapadu Reserve Forest is at a distance of 7.4 km from the proposed mine boundary. Baseline studies were carried out for one season (post monsoon) during October 2013 to December 2013. All the parameters for water, air and noise were within the limits. The Public Hearing for the proposed Integrated Cement Plant with Captive Power Plant and Captive Limestone Mine was conducted at Mandal Parishad Primary School, Pedagarlapadu near the Project site on 5<sup>th</sup> March 2014. The PH was presided over by Shri Vivek Yadav, Joint Collector & Additional District Magistrate, Guntur District, Andhra Pradesh. The issues raised by the public include Pollution Control Measures, Impact of pollution, Use of Imported Coal, Utilisation of Fly Ash, Employment, Welfare Measures (Road, School, College, Hospital, Marriage, Hall, Village Office, Check Dam), Compensation for land owners, Land purchase, Adherence to Rules & Regulation, No hindrance due to railway line, Contracts to locals etc., and the response against each issue has been included in the EIA Report. The commitment for CSR for the Integrated Cement Plant with Captive power Plant and Captive Limestone Mine is Rs 2.2 Crores per annum.



The total cost of the proposed mining Project will be Rs. 10 Crores and the recurring expenditure for Environmental Protection measures will be Rs. 41 lakhs per annum. There is no court case and also there is no violation of any statutory rules. The Committee noted that a seasonal nallah is passing through MLA; therefore adequate width of safety zone should be left on both sides of the nallah.

The proposal was considered in the EAC meeting held during 25-26, September, 2014, wherein the Committee sought following information/clarification:-

- (i) The R&R plan for people from whom the land is acquired and the details of local people deriving their livelihood from the bamboo available on the lands inside the lease area.
- (ii) The Ground water table will be intersected by mining operation. The CGWA approval for intersecting the ground water and drawl of 120 kld of water to be used for carrying out mining operations need to be submitted.
- (iii) Details of surrounding villages close to the mining lease and status of essential social infrastructure available like drinking water, sanitation and health.
- (iv) Avenue and Green Belt Plan should be resubmitted with names of plant species suitable for the plantation.
- (v) Occupational health budget of Rs. 60 lakh per year is insufficient, which needs to be increased based on a proper Occupational Health Monitoring and Implementation Plan.
- (vi) Accordingly Questionnaire may be revised and re-submitted.

The PP submitted that the proposed mining lease area of 377.68 ha consists of 347.983 ha of Patta Land and 29.692 ha of Government Land. In the proposed mining lease area, there are no structures and no habitation. Hence Resettlement Plan has not been envisaged. It was informed by the PP that there is no bamboo cultivation existing in the proposed mining lease area. A copy of the letter issued by the Mandal Revenue Officer, Dachepalli Mandal, Guntur District confirming that there is no bamboo cultivation within the proposed mining lease area was submitted. The CGWB, Hyderabad had recommended the proposal to CGWA, Delhi and the clearance is in process. The copy of the CGWA approval would be submitted to the Ministry upon receipt of the same.

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

- (i) The detailed R&R plan for people from whom the land is acquired and the details of local people deriving their livelihood from the lease area.
- (ii) The CGWA approval for intersecting the ground water table and drawl of 120 kld of water to be used for carrying out mining operations need to be submitted.
- (iii) Detailed proposal with timeline, budget etc for providing the facilities to villagers like drinking water, sanitation, health etc.
- (iv) Revised Occupational health budget, as 30 lakhs for potable water cannot be considered for occupational health.

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

**(2.14). Mining of Sand Stone and Bajri by M/s Himachal Stone Crushing Co. located at village & P.O. - Riyal, Tehsil - Fatehpur, Distt.- Kangra (H.P)(18-45-97ha)(80,000MTPA) (Consultant: M/s IDMA Laboratories Ltd.)**

The proposed mining site is located near the Beas River on its old terrace falling in Mauza Riyali, Tahsil Fatehpur, and District Kangra of Himachal Pradesh. The Latitude and Longitude of the site is: Latitude: 31° 59' 35" N to 31° 59' 43" N; Longitude: 75° 48' 52.6"E to 75° 49' 3.5"E. The proposal was considered by the Expert Appraisal Committee in its Meeting held during 25<sup>th</sup>-27<sup>th</sup> April, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/17/2011-IA.II (M) Dated 20<sup>th</sup> May, 2011.

The mine lease area is 18.4597ha which is a private owned land. Mine lease approval was accorded on 16-3-2010 vide order no. Udyog – Bhu (Khani - 4) Laghu – 303/08 – 11439 dated 08- 01- 2010 for a period of fifteen years. Mining plan was approved by State Mining Department, Himachal on 30-3-2013. It is reported by the Project Proponent (PP) that the mining will be open cast manual. The Project is confined to extraction of sand, stone & bajri from the terrace of river Beas. Sand mining will be carried out up to a depth of 5 m below ground level, by using hand tools like shovel, pan, and sieve etc. No Drilling, blasting and mining machinery will be deployed. It is reported by the PP that Total Geological Reserves are about 22,72,500 Metric Tonnes and Movable Reserve 13,68,300 Metric Tonnes. The life of mine is 15 Years.

The material is sorted manually at mining site and sand will be separated from stone and bajri. Stone and bajri will be transported to the crusher for crushing and Sand will be sold in the open market. Mining will be carried out only during day time and will be completely stopped during the Monsoon season. Solid waste generation will be 60,000 tonnes during mining plan period, tailings are 46,000 tonnes silt and 14,000 tonnes clay within the project area. It was reported by the PP that the water requirement for the mining activity such as water sprinkling on the haulage roads and green belt development will be met from local water bodies by tankers and drinking water will be provided by bore well present at the crusher site. Total water required is an average of 3.8 KLD and 4.65 KLD during peak demand of water. As per 'Working cum Environmental Plan', the working will not intersect the ground water table.

It is reported by PP that no national Parks , Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves (existing as well as proposed) within 10 km of mine lease area. However, study area has schedule-I species.

Baseline studies were carried out during non monsoon season (March-May) 2011. All the parameters for water and air quality were reported to be within Permissible limits. The Public Hearing for the Proposed Project was conducted at Village: Riyali on 10.05.2013. The PH was chaired by Mr. R.K. Sharma, Additional Deputy Collector (ADC), Kangra. The Proponent informed that the Chairman of the Public Hearing is of the level of ADM as per EIA Notification, 2006. The issues raised during Public Hearing

were also considered and discussed during the Meeting, which inter-alia, included that there should not be any traffic congestions, air pollution control measures shall be adopted by carrying out of plantation, sprinkling of water etc. As per the villager's requirements, it was informed by the PP that they would give preference to locals for employment; health issues and providing education etc. These have been incorporated in the Project Plan with budgetary provisions.

The cost of the project is Rs. 7 lakh. Project proponent informed that 1.95 Lakh capital cost & 1.08 lakh for Environmental protection measures and CSR activity. It was reported by the PP that there is no court case/litigation pending against the project and no violation.

The proposal was considered in the EAC meeting held during **February 24-25, 2014 wherein** the Committee sought following information:

- (i) The meteorological data collected for the proposal is same as of other three proposals, therefore one month baseline data shall be collected afresh and submitted.
- (ii) Site specific conservation plan for the Schedule-I species shall be submitted with budgetary provisions.
- (iii) Details regarding occupational health and CSR plan shall be submitted.
- (iv) Information on geological reserves based on UNFC classification shall be provided.
- (v) Revised 'Questionnaire' shall be submitted.
- (vi) Flood details for last 5 years shall be provided.
- (vii) Details of number of crushers located in study area and impact of crushers on nearby agriculture land and mitigation measures proposed shall be furnished.
- (viii) Details of court case, if any, shall be submitted.

On submission of information, the Proposal was placed in the present EAC meeting. The PP submitted fresh baseline data from 11.03.2014 to 10.04.2014. The Conservation Plan for Schedule-I species was approved by the CWLW vide letter no. wl(misc.)-73/mining/vii/4606 dated 11.11.2014. The Occupational Health and CSR Plan with capital cost of 1.0 lakh and recurring cost of 0.4 lakh was submitted. The geological reserves based on UNFC classification is 331. The revised 'Questionnaire' was submitted and it was informed that no flood has been reported in the area since last nine years. It was informed by the PP that five crushers are located in the study area. It was informed by the PP that no court case is pending on Project.

Based on the information submitted, presentation made by the Proponent and discussions held, the Committee **recommended** the proposal for environmental clearance with additional specific conditions:

- i. Implementation of the Recommendations of National Institute of Miners Health for ensuring good occupational environment for mine workers;

**(2.15). Sand, Stone and Bajri of M/s Krishna Stone Crusher located at village Riyali Tehsil Fatehpur, District Kangra, H.P. (13-00-76ha) (Capacity: 50,000MTPA) (Consultant: IDMA Laboratories Ltd., Haryana)**

The proposed mining site is located near the Beas River on its old terrace falling in Mauza Riyali, Tahsil Fatehpur, and District Kangra of Himachal Pradesh. The Latitude and Longitude of the site is: Latitude: 32° 01' 21.2" N to 32° 01' 11.6" N; Longitude- 75° 48' 38.9" E to 75° 48' 38"E. The proposal was considered by the Expert Appraisal Committee in its Meeting held during 25<sup>th</sup>-27<sup>th</sup> April, 2011 to determine the Terms of Reference (TOR) for undertaking detailed EIA study. The TORs were issued by MoEF vide letter no. J-11015/20/2011-IA.II (M) Dated 20<sup>th</sup> May, 2011.

The mine lease area is 13.0076ha which a private owned land. Mine lease has been granted on dated 16-3-2010 vides Letter no. order no. Udyog – Bhu (Khani - 4) Laghu – 289/08 – 8946 dated 18- 11- 2009 and mining plan approved by State Mining Department, Himachal on 06.09.2012. It is reported by the Project Proponent (PP) that the mining will be open cast manual. The project is confined to extraction of sand, stone & bajri from the terrace of river Beas. Sand mining will be carried out up to a depth of 2 m below ground level, by using hand tools like shovel, pan, and sieve etc. No Drilling, blasting and mining machinery shall be deployed. It is reported by the PP that Total Geological Reserves are about 8, 77,500 Metric Tonnes and Movable Reserve 3,78,000 Metric Tonnes. The life of mine is 7.6 Years.

The material is sorted manually at mining site and sand is separated from stone and bajri. Stone and bajri will be transported to the crusher for crushing and Sand will be sold in the open market. Mining will be carried out only during day time and will be completely stopped during the Monsoon season. Silt & clay generated during the mining process will be treated as waste. This will be used as a spread on areas along the peripheral safety zone and waste dumps indicated in mining plan, for plantation purpose. It was reported by the PP, that solid waste generation will be 34,400 tonnes during mining plan period, tailings 26,500 tonnes silt and 7,900 tonnes clay within the project area.

It was reported by the PP that the water requirement for the mining activity such as water sprinkling on the haulage roads and green belt development will be met from local water bodies by tankers and drinking water will be provided by bore well present at the crusher site. Total water required is an average 1.5 KLD and 2.3 KLD during peak demand of water. As per 'Working cum Environmental Plan', the working will not intersect the ground water table.

It was reported by the project proponent that there are no national Parks , Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves (existing as well as proposed) within 10 km of mine lease. However, schedule I species is found in study area.

Baseline studies were carried out during non-monsoon season (March-May) 2011. All the parameters for water and air quality were found to be within Permissible limits. The Public Hearing for the Proposed Project was conducted at Village: Riyali on 14.05.2013. The PH was chaired by Mr. R.K. Sharma, Additional Deputy Collector (ADC), Kangra. The Proponent informed that the Chairman of the Public Hearing is of the level of ADM as per EIA Notification, 2006. The issues raised during Public Hearing were also considered and discussed during the meeting, which inter-alia, included that there should not be any traffic congestions, air pollution control measures shall be adopted by carrying out plantation, sprinkling of water etc. As per the villager's requirements, it was informed by the PP that they would give preference to locals for employment; health issues and providing education etc. These have been incorporated in the Project Plan with budgetary provisions.

The cost of the project is Rs. 6.2 lakh. Project proponent informed that 1.95 Lakh capital cost & 1.08 lakh for Environmental protection measures and CSR activity. It was reported by the PP that there is no court case/litigation pending against the project and no violation.

The proposal was considered in the EAC meeting held during **February 24-25, 2014 wherein** the Committee sought following information:

- (i) The meteorological data collected for the proposal is same as of other three proposals, therefore one month baseline data shall be collected afresh and submitted.
- (ii) Site specific conservation plan for the Schedule-I species shall be submitted with budgetary provisions.
- (iii) Details regarding occupational health and CSR plan shall be submitted.
- (iv) Information on geological reserves based on UNFC classification shall be provided.
- (v) Revised 'Questionnaire' shall be submitted.
- (vi) Flood details for last 5 years shall be provided.
- (vii) Details of number of crushers located in study area and impact of crushers on nearby agriculture land and mitigation measures proposed shall be furnished.
- (viii) Details of court case, if any, shall be submitted.

On submission of information, the Proposal was placed in the present EAC meeting. The PP submitted fresh baseline data from 11.03.2014 to 10.04.2014. The Conservation Plan for Schedule-I species was approved by the CWLW vide letter no. WI(misc.)-73/mining/VII/4603 dated 11.11.2014. The Occupational Health and CSR Plan with capital cost of 1.0 lakh and recurring cost of 0.4 lakh was submitted. The geological reserves based on UNFC classification is 331. The revised 'Questionnaire' was submitted and it was informed that no flood has been reported in the area since last nine years. It was informed by the PP that five crushers are located in the study area. It was informed by the PP that no court case is pending against the Project.

Based on the information submitted, presentation made by the Proponent and discussions held, the Committee **recommended** the proposal for environmental clearance with additional specific conditions:

- i. Implementation of the Recommendations of National Institute of Miners Health for ensuring good occupational environment for mine workers;

### **CONSIDERATION OF TOR PROPOSALS**

**(2.16). Black granite Mine of M/s Midwest Granite Pvt. Ltd. Located at village-Chimiryala, Tehsil-Kodad, District –Nagonda, Telangana(5.83ha).**

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

**(2.17). Limestone Mine of M/s Reliance Cement Company Pvt. Located at Tilkur-Hebal, Taluka- Sedam, District-Gulbarga, Karnataka (929.12ha) (5.0MTPA).**

The proposal is for limestone mining of M/s Reliance Cement Company Pvt. Located at Tilkur- Hebal, Taluka-Sedam, District-Gulbarga, Karnataka. The geographical co-ordinates of the mine lease area are: Latitudes 17<sup>o</sup>13'58.7" to 17<sup>o</sup>15'17.55"N and Longitudes 77<sup>o</sup>20' 12.24" to 17<sup>o</sup>22'59.27" E. The mine lease is spread over in an area of 929.12 ha.

The TOR for Cement Plant for 5.5 MTPA Cement, 3.6 MTPA Clinker & 75 MW CPP was granted by MoEFCC vide no. F.N. J.-11011/52/2012-IA. III(I) dated 20<sup>th</sup> November, 2014. Land use break up is as follows: Mine LOI - 929.12 ha (Agricultural land: 897.18 ha & Non-agricultural land: 31.94 ha). The LOI was issued by Department of Mines and Geology, Govt. of Karnataka dated 30<sup>th</sup> July, 2011. Mining Plan is approved by IBM vide its letter no: 279/1075/2013/BNG/616, dated: 23<sup>rd</sup> April 2014.

The water requirement for the proposed mines will be about 250 KLD and will be met from surface/ ground water. The Mining will be done from 419m to 395 m RL. The Kagina River is adjoining to lease area at South boundary direction. It was reported by the PP that No national parks, wildlife sanctuaries and eco-sensitive zones are located within 10 km radius. Peripheral development will be planned through CSR action plan. There is no displacement in the project area. However, compensation and other benefits will be provided as per Govt. Guidelines. The estimated cost of the proposed mining

Project is about Rs.280 Crores out of which 14 crores is allocated for environment management and pollution control.

Based on the discussion held in the meeting, EAC **suggested** that the Project Proponent has to submit the following documents for further consideration of the TOR:-

- (i) Topo sheet of the area by clearly showing existing and proposed development in the area, road and rail network, existing traffic load and cumulative load assessment due to proposed development;
- (ii) 897.18 ha of the agriculture land is proposed to be acquired. PP to provide information on alternatives being provided to land losers and compensation including alternate agriculture land. The state land use norms may also be submitted as to whether acquiring such large fertile agricultural land will be permitted.

The Committee decided to **defer** the proposal to be considered after receipt of the above mentioned information.

**(2.18). Dumarpara Dolomite Mine of M/s Sri Balaji Metals & Mineral Pvt. Ltd. Located at village-dumarpara, Tehsil-sakti, District- janjgir- Champa, Chhattisgarh (42.754ha) (3,40,393.16 MTPTA).**

The proposed Dolomite Mining project is located at village-Dumarpara, Tehsil-Sakti, District- Janjgir-Champa, State- Chhattisgarh. The total mining lease area is 42.754 hectares. It is a 'B' category project and as the tenure of SEIAA, Chhattisgarh has expired, the proposal is being examined in the MoEF&CC.

Earlier EC for the project was granted on 06.05.2010 to M/s Balaji Metals & Minerals Pvt. Ltd. for the production of Dolomite (1,50,000 TPA) over the 42.754 ha by SEIAA. The project proponent further proposes for capacity enhancement of the mine from 1,50,000 TPA to 3,40,393.16 TPA under the same lease area. Mining Plan for the project has been approved by Indian Bureau of Mines, Nagpur Regional Office vide letter no-JNG/DOL/MPLN-677/NGP dated 23.10.2000. The latest Scheme of Minw has been approved by IBM vide letter dated JNG/DOL/MPLN-677/NGP dated 20.09.2013. The lease area was first sanctioned to M/s Star Ferro Alloys Pvt. Ltd. on 20.05.2002 for a period of 20 years.

The proposed mining process involves removal of overburden followed with drilling, control blasting, loading by excavator, transportation by tippers to the nearest steel plant. Life of proposed mine is 74 years. There is no River/Nallah flowing near or adjacent to the proposed mine. Total water requirement of mining activity is 3.11 KLD i.e including drinking, domestic, dust suppression and green belt development. Total project Cost is Rs. 8 Crores.

Based on the discussion held in the meeting, EAC **prescribed** TOR as per Annexure-I with following additional TOR:-

- (i) The land use details of the area were not correct therefore actual land use details of the area shall be provided.
- (ii) The details of lease transfer from State Government of Chhattisgarh shall be provided.
- (iii) Mining area is full of mine workings with mine pit filled with water and OB dump spread haphazardly. Action plan for reclamation of old workings should be submitted. OB dumps located outside the lease area are to be included in the action plan.

**(2.19). Mines & Minerals M/s N. MD. Zaheer located at Village-Thurmamidi, Mandal- Bantwaram, District- Rangareddi, Telangana(12.403ha) (1,52,000TPA)**

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

**(2.20). Limestone Mine of M/s The Ramco Cements Limited located at village-Budawada, Mandal-Jaggayyapet, District-Krishna, Andhra Pradesh (160 ha)(2.5 MTPA).**

The Budawada Limestone Mine of M/s The Ramco Cements Limited is located at village- Budawada, Mandal-Jaggayyapet, District-Krishna, Andhra Pradesh The earlier EC was obtained vide Letter: F. No. J-11015/150/2008- IA II (M) dated 10<sup>th</sup> December, 2009 for 1.1 MTPA of Limestone production in an area of 160 Ha (Budawada Reserved Forest Area), Jaggayyapet Mandal, Krishna District, Andhra Pradesh.

It is proposed to enhance Clinker production of the Cement Plant by 0.3 MTPA for which, limestone requirement is 0.5 MTPA. Due to presence of high silica zones, clay pockets and phyllites, mineral reserves have come down drastically in the operating captive limestone mines of Jayanthipuram Cement Plant. Ramco Budawada Limestone mine is spread over an area of 160 Ha. With proved mineral reserve of about 101.46 Million Tonnes, the Mine will last for 41 years with proposed production capacity of 2.5 MTPA.

Fully Mechanized method of mining will be adopted. The limestone produced will be crushed in the mine for transport to cement Plant through haul roads. 160 Ha is part of Budawada Reserve Forest. Forest Clearance was obtained vide letter No. 8-56/2005-FC, dated December 22, 2011. No topsoil is present. The waste available is interstitial clay. The waste generated will be stacked in temporary dump yard and will be used for afforestation and laying roads.

At the end of mining operations, about 150 Ha of mined-out area will be developed into water reservoir and 2.72 Ha along the mine lease boundary and barrier zone for railway line will be afforested under Greenbelt development. 5.26 Ha will be developed under road/Belt conveyor etc., 2.02 Ha will be developed for Crusher, Sub-station, Mines office, auto garage etc.

Water requirement for the mine at 2.5 MTPA limestone production, is about 200 m<sup>3</sup>/day for dust suppression, plantation and domestic purposes. This requirement is



supplied by cement Plant and after formation of the mine pit, rain water collected in the mine pit will be used. The capital Investment Cost is estimated as Rs. 4 Crores.

Committee noted that the Form-I along with Pre-Feasibility Report as per EIA Notification, 2006 has not been submitted and the compliance of earlier EC condition particularly the report on the Cumulative study of the area has not been implemented. Also the Protection measures for first order stream passing through the lease area as mentioned in earlier EC, have not been implemented.

Based on the discussion held in the meeting, EAC **suggested** a site visit of the area by a sub-committee of EAC and that the Project Proponent has to submit the following documents for further consideration of the proposal: -

- (i) Revised Form-I along with Pre-Feasibility Report as per EIA Notification, 2006;
- (ii) The compliance of earlier EC conditions, particularly the report on the Cumulative study of the area;
- (iii) Topo sheet of the area; and
- (iv) Protection measures for first order stream passing through the lease area as mentioned in earlier EC.

The Committee decided to **defer** the proposal, to be considered after receipt of the above mentioned information.

**(2.21). Lime Stone Mine of M/s Smt. Satya Tomar located at Village –Kamroo, Tehsil- Ponta Sahib, District- Sirmour Himachal Pradesh (8.50 ha)(60,000 tones/annum).**

The Proposal was earlier considered by the Expert Appraisal Committee for prescribing TOR in its meeting held during 18-20 August, 2008. TOR were issued by MoEF vide letter no. J-11015/77/2008-IA.II(M) dated 23<sup>rd</sup> September, 2008. The proposal for environmental clearance was considered in the Expert Appraisal Committee (Mining) held on during 16-18 January, 2013. Final EIA/EMP report was submitted to MoEF on 09.10.2012 after expiry of TOR. The proposal was therefore rejected and same was communicated to the PP vide letter dated 23.09.2014 to apply afresh.

It was noted that the mine had enhanced its production without obtaining prior EC. Thus this was a violation case. As per O.M. dated 12.12 2012 the Board resolution and credible action report was submitted by PP in the Ministry on 15.10.2013. On the basis of O.M. dated 27.06.2013, directions to PP under Section 5 of the Environment (Protection) Act, 1986 were issued on 17.02.2014. The prosecution report has been filed in the Court of Judicial Magistrate, Court no. 1, Paonta Sahib, District Sirmour, H.P. on 25.06.2013 vide Case No. 209/1 of 2013 to take cognizance of offence by the said Court under section 15 of Environment (Protection) Act, which has been committed by the offending Pproject. The affidavit dated 08.09.2013 stating that such violations of Environment (protection) Act, 1986 will not be repeated in the future has been submitted by project proponent. In compliance to the directions under section 5 of EPA,

SPCB has informed that mine is found closed on inspection on 30.05.2014 and no production related activities were observed during inspection.

The proposal is for open cast Limestone Mining with capacity of 60,000 TPA located at Village Kamraoo, District Sirmour, Himachal Pradesh. The Latitudes and Longitudes of the site are 30°36'36"N to 30°36'46" N and 77°40'53" E to 77°40'41" E respectively. The mine lease area is 8.50 ha, categorized as waste land. No forestland is involved. This was considered as category "A" project as interstate boundary of Himachal Pradesh and Uttarakhand is located at 6 km from mine lease. Now in view of amendment of EIA notification dated 22.06.2014 vide S.O. 1598(E) the proposal would be categorized as category "B" Project.

Based on the discussion held and presentation made the Committee was of the view that PP shall submit the following:

- (i) One month baseline data to revalidate that data collected earlier for preparation of EIA/EMP Report.
- (ii) The approved Conservation Plan for four Schedule – I species spotted in the study area i.e. *Antelope cervicapra* (Black buck), *Pavo cristatus* (Peacock), *Haliaetus leucogaster* (Cheel) and *Python spp.* (Ajgar).

The Committee was of the view that the proposal may be considered for prescribing of TOR as per Annexure-I (without Public Hearing as Public Hearing for project has already been conducted) with above mentioned additional information and the Committee suggested that the Proposal be considered for appraisal of EC thereafter.

#### **Reconsideration of TORs**

**(2.22). Sand Mining project of M/s Shri Vijay Kumar, Village- Sindhuria, District Sonebhadra, U.P. (14.17 ha) (16667 Tonnes/annum).**

The Proposal was **deferred** as neither the Project Proponent nor authorized representative attended the meeting.

**(2.23). Sand Mining project of M/s Shri Paras, Village- kargara, Tehsil – Robertsganj, District Sonebhadra, U.P. (12.14 ha) (16667 Tonnes/annum)**

The Proposal was **deferred** as neither the Project Proponent nor his authorized representative attended the meeting.

**(2.24). Sand Mining project of M/s Ram Gopal, Village- Sindhuria, District Sonebhadra, U.P. (14.17 ha) (16667 Tonnes/annum)**

The Proposal was **deferred** as neither the Project Proponent nor his authorized representative attended the meeting.

**Item No.3: Representation from resident of VPO-Golwa, District-Mahendergarh, Haryana highlighting the fact on Aravali and Shivalik ranges; and Transportation Issues etc. on mining of Minor Minerals in the Districts of Panchkula, Ambala, Yamuna Nagar, Panipat, Karnal, Sonipat and Faridabad.**

The Committee noted that a representation has been received from resident of VPO-Golwa, District-Mahendergarh, Haryana. The representation *inter-alia* stated that State Govt. of Haryana had auctioned mining rights for 13 stone quarries in Districts Bhiwani & Mahendergarh and 30 sand and gravel quarries in the Districts of Panchkula, Ambala, Yamuna Nagar, Panipat, Karnal, Sonipat and Faridabad. The stone mining projects are part of the fragile Aravali Mountain range and the sand and gravel mining projects are part of the Shivalik range. There are a numbers of Judgments passed by the Hon'ble Supreme Court of India as well as Punjab and Haryana High Court which have highlighted the fact that Aravali and Shivalik ranges are very fragile and have to be protected. The total capacity of all the mining projects are 91 million TPA for Stone and 239.82 million TPA for sand i.e. about 20,222 trucks of Stone per day and 53,295 trucks of sand per day will be transported in the State of Haryana.

The Committee observed that the above apprehensions, as presented, do appear cumulatively significant as far as environmental impacts are concerned; but then, ground realities are much different, toned down as they are, by loading and unloading rate limitations, truck availability vis-vis competing users, transport restrictions around the mine-sites and the 'first mile' constraints, resultant traffic density status on other Highways as per the Road Congress standards and more importantly, the demand supply equilibrium. Also, there is an urgent need to have optimum quantities of sand being made available with all due environmental clearances, lest there should be any shortage of legally mined sand, stone and other building materials. Thus, the Committee was of view that the individual Projects be appraised on merits, as per the applicable statutes and Notifications for the quantities applied for, **but simultaneously, the attention of the Lessor State Govt. (Mining, Transport & Environment Depts.) and the concerned SPCB as well as NHAI be drawn to keep a close watch on the aforesaid cumulative impacts.** The PPs may also be advised to ensure that no untoward hardships are caused on this account and the prescribed environmental safeguards are strictly adhered to, particularly in respect of human habitats around the mine sites and enroute.

It is recommended that **an independent study be organised** during peak activity, to understand how the actuals compare with the Carrying Capacities and further decisions taken to maintain Sustainability of this essential stone & sand extraction and supply activity. The Committee also noted that the Court Restrictions/Prohibitions, as regards the eco-sensitive 'Aravali Range' are being taken care of through appropriate certifications by the Competent Authorities.

It is recommended by the Committee that **Clarifications may be sought by Project Proponent. Further, the Comments may also be sought from the Transport & Environment Departments of State Govt./NHAI w.r.t. likely impacts and changes in existing land use conditions and Carrying Capacity of existing Roads to sustain transportation of the targeted quantity of mineral in the State of Haryana.**

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

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

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

	furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
19)	R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village located in the mine lease area will be shifted or not. The issues relating to shifting of Village including their R&R and socio-economic aspects should be discussed in the report.
20)	One season (non-monsoon) primary baseline data on ambient air quality (PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> ), water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM <sub>10</sub> , particularly for free silica, should be given.
21)	Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
22)	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
23)	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
24)	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
25)	Impact of the project on the water quality, both surface and groundwater should be assessed and necessary safeguard measures, if any required, should be provided.
26)	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report

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

	besides other impacts specific to the proposed Project.
38)	Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
39)	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.
40)	The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.

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**List of Participants**

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|---|------------------|
| 1. Shri M. S. Nagar   | Chairman         |
| 2. Dr. S. Subramaniyan  | Member           |
| 3. Dr. L. Ajay Kumar  | Member           |
| 4. Shri P.K. Verdia   | Member           |
| 5. Prof. G.S. Roonwall  | Member           |
| 6. Dr. S.K. Peshin  | Member           |
| 7. Dr. D. Mohamed Kizhar Irshath                                  | Member           |
| 8. Dr. Asha Rajvanshi   | Member           |
| 9. Shri Ranjan Sahai  | Member           |
| 10. Dr. V.P. Upadhyay, Director (Scientific), MoEF&CC             | Member Secretary |
| 11. Dr. R. B. Lal, Joint Director(S), MoEF&CC                     |                  |
| 12. Dr. Sonu Singh, Deputy Director (S), MoEF&CC                  |                  |
| 13. Representatives of M/s A.N.E. Industries Private Ltd.,        |                  |
| 14. Representatives of M/s Naval Kishor Gupta                     |                  |
| 15. Representatives of M/s. KJSL – Sunder (JV)                    |                  |
| 16. Representatives of M/s. MSK (JV)                              |                  |
| 17. Representatives of M/s Indrajeet Singh Jhala                  |                  |
| 18. Representatives of Shri Sanjay Jaglan S/o Shri Raj Singh Arya |                  |
| 19. Representatives of M/s. R.S. Joint Venture                    |                  |
| 20. Representatives of M/s. S.R. Associates                       |                  |
| 21. Representatives of M/s Paras Sethi                            |                  |
| 22. Representatives of M/s GHCL,                                  |                  |
| 23. Representatives of M/s Chettinad Cement Ltd.                  |                  |
| 24. Representatives of M/s Himachal Stone Crushing Co.            |                  |
| 25. Representatives of M/s Krishna Stone Crusher                  |                  |
| 26. Representatives of M/s Reliance Cement Company Pvt.           |                  |
| 27. Representatives of M/s Sri Balaji Metals & Mineral Pvt. Ltd.  |                  |
| 28. Representatives of M/s The Ramco Cements Limited              |                  |
| 29. Representatives of M/s Smt. Satya Tomar                       |                  |

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