

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

SUMMARY RECORD OF 47th MEETING OF THE COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS CONSTITUTED UNDER THE EIA NOTIFICATION, 2006.

The 47th meeting of the Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during 7th to 9th March, 2022 through video conference. The list of participants is annexed herewith. After login of the Committee Members through video conference link provided by NIC, discussion on each of the Agenda Items was taken up ad-seriatim.

(1.0) Deliberation & Circulation on the Minutes of the 46th EAC Meeting (Non- Coal Mining) held on 15th, 16th and 17th February, 2022.

The minutes of 46th EAC Meeting (Non-Coal Mining) held on 15th, 16th and 17th February, 2022 were placed before the members of the Committee. The Member Secretary informed the Committee regarding the following corrigendum:

S. No	As per 46th EAC (Non-Coal Mining) Meeting held during 15th, 16th and 17th February, 2022	Typographical error	EAC recommended during 47th EAC (Non-Coal Mining) Meeting held during 7th to 9th March, 2022
1	Agenda 3.4, Para No: 11, Pg. No: 108, S. No: 3	Validity of Forest Clearance was extended by Forest Dept, Naya Raipur, Chhattisgarh vide letter F-5-10/2016/10-2 dated 31.03.2020 for the period up to up to 11.09.2035 .	Validity of Forest Clearance was extended by Forest Dept, Naya Raipur, Chhattisgarh vide letter F-5-10/2016/10-2 dated 31.03.2020 for the period up to 06.12.2035 .

(1.1) Deliberation & Circulation on the Minutes of the 45th EAC Meeting (Non- Coal Mining) held on 24th, 25th and 27th January, 2022.

The minutes of 45th EAC Meeting (Non-Coal Mining) held on 24th, 25th and 27th January, 2022 were placed before the members of the Committee. The Member Secretary informed the Committee regarding the following corrigendum:

Minutes of 47th EAC Meeting (Non-Coal Mining) held during 7th to 9th March 2022

S. No	As per 45 th EAC (Non-Coal Mining) Meeting held during 24 th , 25 th and 27 th January, 2022	Typographical error	EAC recommended during 47 th EAC (Non-Coal Mining) Meeting held during 7 th to 9 th March, 2022
1	Agenda 3.3, Para No: 4, Pg. No: 75, Point No: 6	Water requirement = 415 m ³ /day	Water requirement = 415 m ³ /hr

Day 1: 7th March, 2022 (Monday)

1.1 Proposal for Environmental Clearance of M/s Odisha Mining Corporation Limited for Guali Iron Ore Mine with total excavation of 37.67 Million TPA [Saleable Iron ore- 27.44 Million TPA, Mineral rejects-2.56 Million TPA, Waste 7.48 Million TPA, Topsoil- 0.184 Million TPA] along with 1 x 5000 TPH, 1 x 2500 TPH stationary multistage crushing & screening plant in addition to existing 1x175 TPH, 1x200 TPH, 2x400 TPH Stationary Crusher Plant, 1x150 TPH mobile crusher plant, 1x150 TPH, 5x250 TPH mobile screening plant and 1x1500 TPH Stationary Screening Plant in the mine lease area of 358.258 ha (as per DGPS)/365.026 ha (as per RoR) at village(s) Guali, Loidapada, Panduliposhi, Topadihi, Rugudihi, Sidhamath R.F in Barbil Tehsil, Keonjhar District, Odisha – [File No. J-11015/1155/2007-IA.II(M), Proposal No. IA/OR/MIN/7224/2008; Consultant: M/s MECON Limited] - Environmental Clearance (Auction mine)

EAC Meeting Details:

EAC meeting	47 th
Date of Meeting	7 th – 9 th March, 2022

The proposal of M/s Odisha Mining Corporation Limited is for mining of Iron ore in Guali Iron ore mine with total excavation of 37.67 Million TPA [Saleable Iron ore- 27.44 Million TPA, Mineral rejects-2.56 Million TPA, Waste 7.48 Million TPA, Topsoil- 0.184 Million TPA] along with 1 x 5000 TPH, 1 x 2500 TPH stationary multistage crushing & screening plant in addition to existing 1x175 TPH, 1x200 TPH, 2x400 TPH Stationary Crusher Plant, 1x150 TPH mobile crusher plant, 1x150 TPH, 5x250 TPH mobile screening plant and 1x1500 TPH Stationary Screening Plant in the mine lease area of 358.258 ha (as per DGPS)/365.026 ha (as per RoR) at village(s) Guali, Loidapada, Panduliposhi, Topadihi, Rugudihi, Sidhamath R.F in Barbil Tehsil, Keonjhar District, Odisha. The mine lease area is located between Latitude 21°59'21.99060"N to 22°00'1.98397"N and Longitude 85°17'02.37474" to 85°18'59.14042"E. The mine lease area falls under the Survey of India Toposheet No: F45H8 & F45N5 (73F/8 & 73G/5) and falls in Seismic Zone-III.

2. M/s Odisha Mining Corporation Limited has made an online application vide proposal no: IA/OR/MIN/7224/2008 dated 09.02.2022 and submitted Form 2 and EIA report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at the Central level.

3. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance (Auction mine) was considered in the 47th EAC Meeting (Non-Coal Mining) held during 7th to 9th March 2022. The Member Secretary informed the Committee that the Project Proponent vide email dated 07.03.2022 has sought deferment of the proposal stating that due to technical reasons, M/s Odisha Mining Corporation Ltd requested to defer the proposal scheduled in 47th EAC Meeting. Therefore, as per the request of the Project Proponent, the Committee **deferred** the proposal.

1.2 Proposal for Terms of Reference of M/s Zuari Cement Ltd for mining of Limestone in Sitapuram Limestone (ML-2) with production capacity of 3,03,750 TPA of Limestone in the mine lease area of 558.71ha, located at Villages of Dondapadu&Revuru, Chintalapalem Mandal, Suryapet District, Telangana - [File No. J-11015/174/2005-IA.II(M), Proposal No: IA/TG/MIN/255765/2022; Consultant: M/s Green Circle INC] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	47 th
Date of Meeting	7 th – 9 th March, 2022

The proposal of M/s Zuari Cement Ltd is for mining of Limestone in Sitapuram Limestone (ML-2) with production capacity of 3,03,750 TPA of Limestone in the mine lease area of 558.71ha, located at Villages of Dondapadu&Revuru, Chintalapalem Mandal, Suryapet District, Telangana. The mine lease area is located between Latitude 16°48'12.29"N to 16°49'51.18"N and Longitude 79°58'14.6"E to 80°02'11.42"E. The mine lease area falls under the Survey of India Toposheet No. 57 P/13 and 65D/1 and falls in Seismic Zone-II.

2. M/s Zuari Cement Ltd has initially submitted application vide online proposal no. IA/TG/MIN/117862/2019 dated 13.09.2019 and the proposal was considered in the 10th EAC Meeting held during October 21-22, 2019 wherein the Committee noted that the mining without EC and in excess of EC capacity is a violation in pursuant to Ministry

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Notification S.O. 804(E) dated 14.03.2017 and also violation as per Hon'ble Supreme Court Judgment dated 02.08.2017. Being a violation proposal, the Committee did not consider the proposal and ask the Ministry to take suitable action as applicable. The Committee therefore returned the proposal in present form.

3. Then, the Project Proponent submitted a fresh application for Terms of Reference vide proposal no: IA/TG/MIN/235087/2021 dated 21.10.2021 and the proposal was considered in the 41st EAC (Non Coal Mining) meeting held during 15th to 16th and 18th November, 2021. During the meeting, the Committee deliberated on the submission made by the PP. After detailed discussion, the Committee reiterated the view taken by the Committee in earlier EAC meeting held during October 21-22, 2019 that EC in the instant case was granted on 04.04.2006 for a production capacity of 0.03 Million Tonne/Annum. On the same date Ministry vide Lr No. J-11015/63/2003-IA.II(M) dated 04.04.2006 issued corrigendum in the EC granted vide letter No J-11015/63/2003-IA.II(M) dated 09.05.2005 to another mining lease (ML-1 770.23 Ha) of the same PP. In the said corrigendum the Ministry restricted the maximum combined production from both the mining lease (ML-1: 770.09 Ha & ML-2: 558.94 Ha) to 3.0 Million Tonne. This means that the production from ML-2 is 0.03 MTPA and Production from ML-1 should not be more than 2.97 Million TPA. But from the past production submitted by the PP it was observed that the base year production 1993-94 was 8,000 TPA and the same has been increased from the year 1994-95 till 2006-07. At this stage PP was required to obtain EC but PP obtained EC on 04.04.2006 for 30,000 TPA. Further, after grant of EC on 04.04.2006, PP has increased the production over and above the approved EC capacity without obtaining expansion in the Environmental Clearance. The Mining without EC and in excess of EC capacity is a violation in pursuant to Ministry Notification S.O. 804(E) dated 14.03.2017 and also violation as per Hon'ble Supreme Court Judgment dated 02.08.2017. Being a violation proposal, the Committee did not consider the proposal and ask the Ministry to take suitable action as per section 19 of E(P)A, 1986. The Committee also noted that the Consultant (M/s Green Circle, INC) having the NABET accreditation till 14.07.2021 only and Consultant has not submitted copy of extension of accreditation validity to the Ministry. The Committee also informed to PP that the SOP on 07.07.2021 was issued by the Ministry for identification and handling of violation cases under EIA, 2006 and the same has been stayed by the Madurai bench of Hon'ble High Court of Madras vide order dated 15.07.2021. Therefore, the Committee returned the proposal in present form and was of the view that PP should approach Ministry after the final adjudication of the Hon'ble High Court of Madras.

4. Now, the Project Proponent again submitted a fresh application for Terms of Reference vide proposal no: IA/TG/MIN/255765/2022 dated 09.02.2022 and submitted Form1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The

proposed project activity is listed at schedule no. 1(a) Mining of Minerals under Category “A” of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at the Central level. The Project Proponent vide Letter dated 03.03.2022 requested to consider the EC granted on 04.04.2006 for combined production of 3.0 MTPA only and to recommend non violation ToR in respect of the subject mine.

5. The instant proposal was considered in the 47th EAC (Non Coal Mining) meeting held during 7th - 9th March, 2022 based on the MoEF&CC Office Memorandum F.No. 22-21/2020-IA.III [E 138949] dated 28.01.2022 w.r.t observation of Hon’ble Supreme Court in the matter of Civil Appeal Nos. 7576-7577 of 2021 in Electrosteel Steels Limited Vs Union of India and Ors., with reference to the SoP dated 7th July, 2021 for identification and handling of violation cases under EIA Notification, 2006. The Hon’ble Supreme Court of India has *inter-alia* observed the following:

“93. The interim order passed by the Madras High Court appears to be misconceived. However, this court is not hearing an appeal from that interim order. The interim stay passed by the Madras High Court can have no application to operation of the Standard Operating Procedure to projects in territories beyond the territorial jurisdiction of Madras High Court. Moreover, final decision may have been taken in accordance with the Orders/Rules prevailing prior to 7th July, 2021”.

6. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 47thEAC Meeting (Non-Coal Mining) held during 7th to 9th March 2022. The Member Secretary informed the Committee that the Project Proponent vide email and letter dated 07.03.2022 stated that the amendment of non-feasible quantity of 30,000 TPA production in the existing EC dated 04.04.2006 is pending with the MoEF&CC applied vide letter dated 09.11.2021 and vide letter dated 03.03.2022 and requested to adjourn the presentation. The Committee again reiterated the view taken by the Committee in earlier EAC meeting held during October 21-22, 2019 and in the 41st EAC (Non Coal Mining) meeting held during 15th to 16th and 18th November, 2021 that based on the past production details submitted by the PP it was observed that the base year production 1993-94 was 8,000 TPA and the same has been increased from the year 1994-95 till 2006-07. At this stage PP was required to obtain EC but PP obtained EC on 04.04.2006 for 30,000 TPA. Further, after grant of EC on 04.04.2006, PP has increased the production over and above the approved EC capacity without obtaining expansion in the Environmental Clearance. The Mining without EC and in excess of EC capacity is a violation in pursuant to Ministry Notification S.O. 804(E) dated 14.03.2017 and also violation as per Hon’ble Supreme Court Judgment dated 02.08.2017. Therefore, the Committee was of the view that Ministry to take appropriate action as per section 19 of E(P)A,1986. Therefore, the Committee **deferred** the proposal as per the request of the Project Proponent during the meeting.

1.3 Proposal for Terms of Reference of M/s Thriveni Earthmovers Private Limited is for mining of Iron and Manganese in Laserda - Pacheri Manganese with production capacity of Iron ore: 1.545 MTPA (ROM), Waste: 1.182 MTPA (Total Excavation: 2.728 MTPA) and Manganese ore: 0.110 MTPA (ROM), Waste: 0.355 MTPA (Total Excavation: 0.465 MTPA) along with Dry screening and crushing using 200 TPH x 2 Primary Crushing, 200 TPH x 2 Secondary Crushing, 200 TPH x 2 Tertiary Crushing, 250 TPH x 2 Vibrating Screen and 150 TPH x 1 Vibrating Screen in the mine lease area of 131.800 ha, located at Dhanurjaypur, Kanarda and Laserda Villages, Barbil Tehsil, Keonjhar District, Odisha – [File No. IA-J-11015/113/2021-IA-II(NCM), Proposal No. IA/OR/MIN/243645/2021; Consultant: M/s Creative Engineers and Consultants] - Terms of Reference (ToR).

EAC Meeting Details:

EAC meeting	47 th
Date of Meeting	7 th – 9 th March, 2022

The proposal of M/s Thriveni Earthmovers Private Limited is for mining of Iron and Manganese in Laserda - Pacheri Manganese and Iron ore block with production capacity of Iron ore: 1.545 MTPA (ROM), Waste: 1.182 MTPA (Total Excavation: 2.728 MTPA) and Manganese ore: 0.110 MTPA (ROM), Waste: 0.355 MTPA (Total Excavation: 0.465 MTPA) along with Dry screening and crushing using 200 TPH x 2 Primary Crushing, 200 TPH x 2 Secondary Crushing, 200 TPH x 2 Tertiary Crushing, 250 TPH x 2 Vibrating Screen and 150 TPH x 1 Vibrating Screen in the mine lease area of 131.800 ha, located at Dhanurjaypur, Kanarda and Laserda Villages, Barbil Tehsil, Keonjhar District, Odisha. The mine lease area is located between Latitude 22°03'16.60991"N to 22°04'19.18502"N and Longitude 85°17'53.81761" to 85°19'15.99748" E. The mine lease area falls under the Survey of India Toposheet No: F-45H8(73F/8) and falls in Seismic Zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s Thriveni Earthmovers Private Limited has made an online application vide proposal no. IA/OR/MIN/243645/2021 dated 10.12.2021 and submitted Form-1 & PFR under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" as the mining lease area is greater than 100ha and appraised at the Central level.

3. The proposal was earlier considered in the 44th EAC (Non Coal Mining) meeting held during 28th – 29th December, 2021. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the Karo River passing through the mine lease area dividing the mine lease area into two blocks namely North East block (Laserda block) and South western block (Pacheri block) and PP has not submitted any

transportation plan for carrying out the mineral over the Kard river. The Consultant couldn't able to bring out the details of transportation before the EAC (Non-Coal Mining). The Committee was of the view that the PP should explore the viability of transportation from each block separately. The Committee also noted that PP has mentioned in the PFR that there are 45 no's of small existing old quarry covering the area of 2.491 Ha within the mine lease area, the current status of the those quarry's and who has been carrying out those quarry's details has not submitted by the PP. The Committee also observed that the PP has not submitted the details of normative and peak excavation. Therefore, the Committee deferred the proposal for want of additional information.

4. The Project Proponent vide Letter Ref: TEMPL/LP_ToR/2021-22/90A/3 dated 09.02.2022 submitted the information in PARIVESH portal on 10.02.2022. The proposal was reconsidered in the 47th EAC (Non Coal Mining) meeting held during 7th – 9th March, 2022 wherein the PP submitted the following: -

Point (i): The Project Proponent should explore the viability of transportation from each block separately from the mine lease area to the railway siding of Bolani and Barbil and needs to submit the map for transport route by clearly mentioning the details of carrying capacity of the road. PP should also indicate the transport route passing through the villages.

Reply by PP: PP submitted that the mine lease area comprises of two blocks i.e. Lasarda block and Pacheri block. Both the blocks are connected with a 40 m passage and make a single lease. Bolani – Kiriburu PWD road (9.0 m width) passes adjacent to the North-west corner part of the mine lease boundary which will be the permanent transportation route for both the blocks. PP reported that the Bolani – Kiriburu PWD road is well connected with Bolani siding at a distance about 5.6 Km and is further connected with Barbil – Bolani PWD road (11.0 m width) which is connecting to Barbil siding at a distance of 12 km from the mine lease area. The Bolani - Kiriburu PWD road and Barbil –Bolani PWD road is well connected with Bhadrasahi – Barajamda State Highway (SH-10) having 4 lane at a distance of 12 Km from the mine lease area. Further SH-10 is connected with NH – 520 at a distance of 4 Km. PP also reported that the as per the Central Road Research Institute (CRRI) study, the maximum V/C ratio in the Joda-Barbil area of the road is 0.28 which is under category “B” LOS as per the IRC guideline. Maximum 14 trips/hr (or say 42 PCU/hr) will be dispatched from the mine. On the post project basis also the LOS of the road will continue to be within “LOS B”. I During the 1stfive year plan period, production and dispatch will be from Laserda block only as per the approved mining plan and in the next plan period Pacheri block will be operated. PP submitted that there will be movement of hardly 1 rake/day from the Barbil/Bolani railway sidings. The roads and railway sidings will accommodate the additional transport load from this project. Besides, a detailed study will be carried out and given in the EIA/ EMP report. PP also submitted that the Bolani-Kiriburu road passes through the Balagoda village and Barbil-

Bolani road passes through the Kalinga Nagar colony and Kantabasti. Further, PP submitted the transport map showing the road and rail network from the mine lease area.

Point (ii): The Project Proponent needs to submit the transportation plan for carrying out the mineral over the river along with the timeline for construction of bridge.

Reply by PP: PP submitted that the mine lease area comprises of two blocks i.e. Lasarda block and Pacheri block. Kiriburu- Bolani PWD road is passing adjacent to the Pacheri Block. During the 1st five year plan period, production & dispatch will be from Laserda block only as per the approved Mining Plan. The material from the Laserda block has to pass through the bridge by trucks/dumpers to reach Pacheri block and further to the Bolani and Barbil siding through Kiriburu-Bolani PWD road and Bolani-Barbil PWD road. At present, the bridge over the river Karo is around 60m length and 7m width and has the strength to sustain the loaded trucks/dumpers. Trucks/Volvos of the local villagers usually pass through the bridge to move towards kiriburu or Barbil. However, PP proposed to construct a bridge over river Karo having dimension of 60m length and 11m width after obtaining permission from PWD and R&B department, Govt. of Odisha. PP reported that after execution of mine lease deed, it will take minimum 6 months for construction of bridge over Karo River and till then materials will be transported through the existing bridge through truck/dumpers. PP also submitted the time schedule along with the activity to be carried out month wise.

Point (iii): The Project Proponent needs to clearly bring out the land use/land cover classification of the mine lease area of 131.800 ha along with the ownership of the land.

Reply by PP: PP reported that the total mine lease area is 131.800 ha out of which 94.351Ha is forest land (53.467Ha revenue forest + 40.884 Ha non forest land recorded as forest as on 25.10.1980) and 37.449 Ha is non-forest land (1.684 Ha Govt. land + 35.765 Ha pvt. Land). PP submitted that the mine lease involves Revenue and Sabik forest predominantly characterized with scattered growth of Sal, Mahua, Kendu etc. which is a tropically dry deciduous open forest. The non-forest land consists of agriculture & non-agriculture land as per revenue record. PP also submitted the letter from the Office of the Tahasildar, Barbil vide No. 4213/ dated 22.11.2021 showing the status of land schedule of non-forest land as on 25.10.1980 over 131.800 ha.

Point (iv): The Project Proponent needs to submit the details of depth of the water table and also to clarify whether the mining activity will intersect the ground water table during the entire operation of mine.

Reply by PP: PP reported that groundwater table lies at a depth of around 490m RL and the ultimate depth of mining will be 392m RL and hence groundwater will be intersected.

PP submitted that the detailed Hydrogeological study will be carried out towards obtaining NOC from CGWA w.r.t dewatering of mine pit and the same will be incorporated in the EIA/EMP report.

Point (v): The Project Proponent needs to submit the normative and peak total excavation in tonnes including mineral, overburden, inter-burden, waste, top soil, rejects etc. to be handled annually and the management of topsoil and waste needs to be properly addressed. The mineable reserves, blocked reserves need to be mentioned along with the life of mine. Waste to be generated during the entire life of mine and details of the location of dumping/backfilling area needs to be submitted.

Reply by PP: PP reported that the total excavation of Iron ore is 2.728 MTPA [Iron ore: 1.545 MTPA (ROM) + Waste: 1.182 MTPA] and total excavation of Manganese ore is 0.465 MTPA [Manganese ore: 0.110 MTPA (ROM) + Waste: 0.355 MTPA]. PP submitted that the impact assessment will be carried out for 1st year for total peak excavation scenario of 2.728 MTPA for iron ore and 0.270 MTPA for manganese ore and the same will be incorporated in the EIA/EMP Report. PP reported that during the plan period 0.022 Million cum top soil will be generated which will be stored at the designated places as per the approved mining plan. The same will be utilized for the plantation. PP also reported that during the plan period, 1.767 Million cum waste will be generated, out of which 0.353 will be utilized for road maintenance, 0.790 Million cum will be dumped in dump-1 & dump-2 near pillar no.3 & 23 respectively covering an area of 4.288 Ha and the rest will be back filled. Back filling will start from 3rd year onwards in the worked out pit-1. During conceptual period, 22.730 Million cum waste will be generated, out of which 13.983 Million cum will be back filled and the rest will be dumped in proposed 3 dumps over an area of 18.672 Ha & some extent will be used for road maintenance. PP submitted the table showing the 1st five year production of iron and manganese, quantity of waste generated during plan period and conceptual period and the quantity of utilization for road maintenance, dumping and backfilling and the summary of reserves of iron and manganese ore. PP also submitted the conceptual plan showing the reclaimed and rehabilitated of mined out areas, dump area, crushing and screening area, stacking yard etc.,

Point (vi): The Project Proponent needs to submit the measures taken in compliance of the MoEF&CC Office Memorandum No. Z11013/57/2014-IA.II (M), dated 29th October, 2014.

Reply by PP: PP submitted an undertaking vide letter dated 06.02.2022 stating that they will comply the conditions of MoEF&CC Office Memorandum No. Z11013/57/2014-IA.II (M), dated 29th October 2014 during the operation of our Laserda-Pacheri Manganese and Iron ore block over an area of 131.800 ha, located at Dhanurjaypur, Kanarda and Laserda Villages, Barbil Tehsil, Keonjhar District, Odisha.

Point (vii): The Project Proponent needs to clarify whether the mineral beneficiation processing is involved in the proposal or not?

Reply by PP: PP clarified that apart from screening & crushing of the Manganese & Iron ore there is no mineral beneficiation process involved in this proposal.

Point (viii): The Project Proponent needs to submit the letter from the Competent Authority that whether the SabikKissam Jungle Pvt. Land of 6.145 Ha and Forest Pvt. Land of 0.306 Ha belongs to Forest land or not?.

Reply by PP: PP reported that the SabikKissam Jungle Pvt. Land of 6.145 Ha and Forest Pvt. Land of 0.306 Ha is part of the total forest land of 94.351 Ha for which diversion proposal already applied under FC Act, 1980. Both the land i.e. 6.145 Ha and 0.306 Ha having Patta of some tenants have been considered under land acquisition also. PP also submitted the letter from the Office of the Tahasildar, Barbil vide No. 4213/ dated 22.11.2021 showing the status of land schedule of non-forest land as on 25.10.1980 over 131.800 ha.

Point (ix): The Project Proponent needs to submit the current status and details of the 45 no's of small existing old quarry covering the area of 2.491 Ha within the mine lease area.

Reply by PP: PP submitted the letter from the Directorate of Mines, Odisha vide Lr No. MXIII (b) 36/2021 1197/DM, dated 09.02.2022 stating that the concerned Mining Officer along with the Jr. Mining Officer of Joint Director of Mines, Joda have enquired the matter in the field on 28.12.2021 & 29.12.2021 and it was observed that there are old excavations of low depth in 45 nos of patches of land covering 2.491 ha (approximately) present inside the applied ML area of Lasarda-PacheriManganese& Iron Block over an area of 131.800 ha of M/s Thriveni Earthmovers Private Limited. Those excavated areas are filled with thick vegetation growth, as it is evident from the surface map attached during auction of Lasarda-Pacheri Manganese & Iron Block for composite license that many excavated quarry's were previously existed inside the composite license area before the grant of composite license to M/s Thriveni Earthmovers Private Limited.

Point (x): The Project Proponent needs to submit the letter from Department of Steel & Mines, Government of Odisha clarifying whether any illegal mining within the mine lease area has been carried out or not and whether the same has been carried out by PP or not?.

Reply by PP: PP submitted the letter from the Directorate of Mines, Odisha vide Lr No. MXIII (b) 36/2021 1197/DM, dated 09.02.2022 stating that the concerned Mining Officer along with the Jr. Mining Officer of Joint Director of Mines, Joda have enquired the matter in the field on 28.12.2021 & 29.12.2021 and it was observed that there is no illegal mining

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carried out by M/s Thriveni Earthmovers Private Limited within the lease hold area and the old excavated quarry's were previously existed inside the composite license area before the grant of composite license to M/s Thriveni Earthmovers Private Limited.

5. Lease Details:

S. no	Grant of PI/mine lease/ Order	Date of grant	Name of the Mineral	Period of Grant	Granted by	Mine lease area in Ha
1	Letter of Intent for grant of Composite License No. IV (MISC)SM06/20178 48/SM, Bhubaneswar	27.01.2017	-	1 year from the date of its issuance	Govt. of Odisha	256.304
2	Composite License vide LrNo.IV (B)SM-100/2007-433/ SM,	19.01.2019	Manganese	24.01.2019 to 23.01.2021	Govt. of Odisha	256.304
3	Letter of Intent for grant of mining lease vide No.7731-IV(B)SM-100/2017/SM and Lol valid for a period of 3 years from the date of its issuance	21.09.2021	Manganese & Iron	50 years	Govt. of Odisha	131.889
4	Revised Lease and authenticated DGPS Survey map vide Lr No. MXIII (b) 80/2015/8031/DM/dated 22.10.2021	22.10.2021	Manganese & Iron	50 years	Govt. of Odisha	131.800

6. Land Use/Land Cover of the Mine lease area:

Breakup of Non-Forest land of 37.449 Ha	
Private land	35.765 Ha
Government land	1.684 Ha
Breakup of forest land of 94.351 Ha	
Revenue forest	53.467 Ha
Non forest land recorded as forest as on 25.10.1980	40.884 Ha

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Total area of forest land	94.351 Ha
Total Mining lease area (MLA)	131.800 Ha
Additional information	PP submitted that the mine lease involves Revenue and Sabik forest predominantly characterized with scattered growth of Sal, Mahua, Kendu etc. which is a tropically dry deciduous open forest. The non-forest land consists of agriculture & non-agriculture land as per revenue record. PP also submitted the letter from the Office of the Tahasildar, Barbil vide No. 4213/ dated 22.11.2021 showing the status of land schedule of non-forest land as on 25.10.1980 over 131.800 ha.

7. Details of Mine Plan:

S.no	Mining Plan along with the Conceptual Plan Approved By	Letter no	Dated of Approval	For a period	Details
1	Mining Plan along with Progressive Mine Closure Plan approved by IBM	MP/A/14-ORI/BHU/2021-22	18.11.2021	5 years from the execution of mining lease	Iron & Mn over an area of 131.800 ha

8. The Project Proponent submitted that the open cast fully mechanized method of mining is proposed. PP also submitted that the lease area configuration with the narrow intervening portion wherein Karo river is passing through divides the lease area into 2 workable blocks namely North East block (Laserda block) and the South western (Pacheri block) block. PP reported that from the present exploration, the iron ore is found only in a small portion of Laserda block whereas Manganese is found in both the blocks. Mining activity in the initial 5 years will be limited to North east Laserda block only. During the plan period Iron ore will be worked from 3 pits namely Laserda Pit -1, 2 & 3 and Manganese will be worked from 2 pits namely Laserda Pit - 2 & 3. During the 1st five year plan period, production and dispatch will be from Laserda block only as per the approved mining plan and in the next plan period Pacheri block will be operated. PP reported that the estimated mineable reserves for iron is 6.226 Million Ton ROM (>45% Fe) and Manganese is 6.470 Million Ton ROM (>10% Mn) as per present available borehole data, which is likely to increase after future exploration. The total life of mine is 7 years for iron ore and 62 years for manganese including the present plan period. PP reported that the total excavation of Iron ore is 2.728 MTPA [Iron ore: 1.545 MTPA (ROM) + Waste: 1.182 MTPA] and total excavation of Manganese ore is 0.465 MTPA [Manganese ore: 0.110 MTPA (ROM) + Waste: 0.355 MTPA]. PP submitted that for Iron ore bench height of 10m

and Width which will be equal and more than the height and for Mn ore bench height of 5m and Width will be equal and more than the height will be maintained. Overall pit slope will be 37.5°. Overburden and ROM will be removed by using shovel-dumper combination. 30 Tonne dumpers are proposed to transport the mineral. The material from the Laserda block has to pass through the bridge by trucks/dumpers to reach Pacheri block and further to the Bolani and Barbil siding through Kiriburu-Bolani PWD road and Bolani-Barbil PWD road. PP submitted that the Bolani-Kiriburu road passes through the Balagoda village and Barbil-Bolani road passes through the Kalinga Nagar colony and Kantabasti. PP proposed to construct a bridge over river Karo having dimension of 60m length and 11m width after obtaining permission from PWD and R&B department, Govt. of Odisha. PP reported that after execution of mine lease deed, it will take minimum 6 months for construction of bridge over Karo River and till then materials will be transported through the existing bridge through truck/dumpers. The blasted run-off mine Manganese ore will be hauled to sorting places located at the designated site. The ROM is then dressed, sorted, sized and graded by deploying mazdoor. The blasted run-off mine Iron ore will be hauled to dry processing plant area as designated for screening and crushing. The different quality of finished ore is then loaded mechanically to the dumpers and transported to stacking ground for stacking the ore in regular geometrical shapes and samples are collected and analyzed in lab. During the plan period about 3.887 Million Tonnes of waste comprising 3.037 Million Tonnes (1.381 Mm³) from iron ore operation and 0.850 Million Tonnes (0.386 Mm³) from Manganese ore operation is expected to get generated. Two dumps are proposed for handling the waste generated during the 1st and 2nd year of the plan period. The waste generated from the third year onwards will be utilized for refilling the worked-out Pit – 1. Out of the total waste generated during the plan period, 0.353 Mil.m³ of waste will be used for road maintenance, 0.790 Mil.m³ of waste will be dumped in Dump-1 & 2 and the balance 0.623 Mil.m³ will be backfilled in the mined-out void. During conceptual period, 22.730 Million cum waste will be generated, out of which 13.983 Million cum will be back filled and the rest will be dumped in proposed 3 dumps over an area of 18.672 Ha & some extent will be used for road maintenance. The mineral reject will be stacked in 3 places. The temporary mineral reject stack – 1 is for manganese ore. The temporary mineral reject stack – 2 & 3 is for iron ore. The temporary mineral reject stack 1 & 2 is on virgin area and mineral reject stack -3 will be on the top of the already refilled and reclaimed area of Laserda pit -1. The sub grade ore/Mineral Reject shall either be sold directly or will be blended with high grade material. PP submitted that apart from screening & crushing of the Manganese & Iron ore there is no mineral beneficiation process involved in this proposal. PP vide Lr No. Ref: TEMPL/LP_ToR/2021-22/90A/3 dated 07.03.2022 informed that for Manganese Ore of 0.11 MTPA, entire 100% will be transported by road to the Steel based industries near Barbil, Keonjhar, Jajpur and Rourkelaregion. There will be hardly 1 trip/hour. For Iron Ore of 1.545 MTPA; 40% (0.618 MTPA) will be go to Barbil siding, 20% (0.309 MTPA) will go

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to Bolani siding and rest of 40% (0.618 MTPA) will go by road to the industries like Arya Steel, Jagannath Steel etc. nearby Barbil and other industries near Keonjhar, Jajpur & Rourkela region.

9. The Project Proponent submitted the letter from the Directorate of Mines, Odisha vide Lr No. MXIII (b) 36/2021 1197/DM, dated 09.02.2022 stating that the concerned Mining Officer along with the Jr. Mining Officer of Joint Director of Mines, Joda have enquired the matter in the field on 28.12.2021 & 29.12.2021 and it was observed that there are old excavations of low depth in 45 nos of patches of land covering 2.491 ha (approximately) present inside the applied ML area of Lasarda-Pacheri Manganese & Iron Block over an area of 131.800 ha of M/s Thriveni Earthmovers Private Limited. Those excavated areas are filled with thick vegetation growth, as it is evident from the surface map attached during auction of Lasarda-Pacheri Manganese & Iron Block for composite license that many excavated quarry's were previously existed inside the composite license area before the grant of composite license to M/s Thriveni Earthmovers Private Limited. As per the report submitted Jr. Mining Officer of Joint Director of Mines, Joda there is no illegal mining carried out by M/s Thriveni Earthmovers Private Limited within the lease hold area.

10. Water requirement:

Total water requirement	95 KLD (Fresh water), besides 300 KLD from anticipated dewatering from mines pit.	Drinking water, Domestic use	8.0 KLD
		Water Sprinkling for Dust Suppression	79.0 KLD
		Greenbelt and Plantation	5.0 KLD
		Workshop cum ETP	3.0 KLD
Source	Groundwater		
Permission	PP submitted that they are yet to apply		
Intersection of Groundwater	PP reported that groundwater table lies at a depth of around 490m RL and the ultimate depth of mining will be 392m RL and hence groundwater will be intersected. PP submitted that the detailed Hydrogeological study will be carried out towards obtaining NOC from CGWA w.r.t dewatering of mine pit and the same will be incorporated in the EIA/EMP report.		

11. Nearest village / town/ highway/railway station / water bodies:

Particulars	Particular's Name	Distance & Direction
Village	Lasarda	300m, S
Town	Barbil	7Km, NE
Highway	NH-520	4.8Km, E
	SH-10B	6.8Km, E

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	SH-4	8.4Km, N
Railway Station	Bolani Railway Siding	4.5Km, N
	Barbil Railway Station	6.3Km, NE
Waterbodies	Karo River	Passes through the lease area
	Seasonal Stream	Within lease area
	TopadihiNala	5.1Km, S

12. The Project Proponent reported that the total mine lease area is 131.800 Ha, out of which 94.351Ha is forest land and 37.449Ha is non-forest land. PP applied for diversion of 94.351 ha of forest land including 4.261Ha of safety zone vide proposal no: FP/OR/MIN/149499/2021 dated 22/11/2021. PP also reported that there is No National Park, Wild Life Sanctuary, Eco Sensitive Areas, Biosphere Reserves etc. within 10 Km radius of the study area. Further, PP reported that the following Reserve Forests such as Karo RF (<1 Km, NW), Uliburu RF (0.2 Km, SE), LakrghatRF(1.8 Km, S), Siddhamath RF (1.4 Km, SE), Thakurani RF (7.4 Km, E) and Karampada RF (3.4 Km, W) are found within 10km of the study area. PP also submitted that Odisha – Jharkhand State Boundary is located at a distance of 2.92 Km (W) from the mine lease area.

13. The Project Proponent submitted that the during the plan period it is proposed to plant over 2.243 ha of area along the mining lease boundary and 50 m of road safety zone in Laserda side. In the post mining stage, an area of 127.29 Ha (96.57% of the total lease area) will be covered under vegetation. Out of this, 74.840Ha of mined out void will be reclaimed by backfilling and plantation, 18.672 Ha of OB dumps will be stabilized by plantation, 1.951Ha of infrastructure, 21.502Ha of mineral storage and sorting area, 2.27Ha of mineral separation plant and 1.941Ha of public utility area will be dismantled and covered under plantation. 6.114Ha will be greenbelt / safety zone. Green belt development will be developed in all possible area comprising 6.114 ha safety zone around mine lease, infrastructures facilities, mineral storage etc. within the mine lease area.

14. The Project Proponent submitted that 42.242 Ha of land needs to acquired. Out of which Non-Forest Private Land is 35.791 Ha, SabikKissam Jungle Pvt. Land of 6.145 Ha and Forest Pvt. Land of 0.306 Ha. PP reported that the SabikKissam Jungle Pvt. Land of 6.145 Ha and Forest Pvt. Land of 0.306 Ha is part of the total forest land of 94.351 Ha for which diversion proposal already applied under FC Act, 1980. Both the land i.e. 6.145 Ha and 0.306 Ha having Patta of some tenants have been considered under land acquisition also. PP also submitted the letter from the Office of the Tahasildar, Barbil vide No. 4213/ dated 22.11.2021 showing the status of land schedule of non-forest land as on 25.10.1980 over 131.800 ha. PP also submitted that 25 number of houses will be shifted as per the 'Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013' and 'the Odisha Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules, 2016'.

Application for the same has been submitted to the Department of Steel & Mines, Government of Odisha.

15. The Project Proponent submitted that there is no any litigation pending against the project and/or land in which the project is proposed to be set up. PP also submitted the Affidavit in a Non-judicial stamp paper of Rs 50 bearing no. D 087496 dated 20.12.2021 to comply with all the statutory requirement & judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India &Ors.

16. Details of project cost and employment:

Particulars	(Rs. In Crore)
Project Cost	Rs.96 Crores
Employment	335 Persons

17. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 47thEAC Meeting (Non-Coal Mining) held during 7th to 9th March 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee **recommended** the proposal of grant of Terms of Reference of M/s Thriveni Earthmovers Private Limited for mining of Iron and Manganese in Laserda - Pacheri Manganese and Iron ore block with production capacity of Iron ore: 1.545 MTPA (ROM), Waste: 1.182 MTPA (Total Excavation: 2.728 MTPA) and Manganese ore: 0.110 MTPA (ROM), Waste: 0.355 MTPA (Total Excavation: 0.465 MTPA)along with Dry screening and crushing using 200 TPH x 2 Primary Crushing, 200 TPH x 2 Secondary Crushing, 200 TPH x 2 Tertiary Crushing, 250 TPH x 2 Vibrating Screen and 150 TPH x 1 Vibrating Screen in the mine lease area of 131.800 ha, located at Dhanurjaypur, Kanarda and Laserda Villages, Barbil Tehsil, Keonjhar District, Odishafor undertaking detailed EIA/EMP study. In addition to Standard Term of Reference for non-coal mining, along with the recommendation made by NEERI in its carrying capacity study for Odisha, the Committee also prescribed the following specific term of reference for this project: -

- i. The Project Proponent needs to submit the detailed hydro geological study for intersection of ground water table for assessing its impacts and also needs to submit the NOC from CGWA for intersection of ground water tableat the time of appraisal of EC.
- ii. The Project Proponent needs to address the impacts on river Karo due to the proposed mining activity in Laserda blockand Pacheri block along with the

- mitigation measures in the EIA/EMP report. PP also needs to submit the conceptual plan delineating the safety zone and measures taken for protection of river Karo in between the Laserda block and Pacheri block, adjacent to these blocks as well as other surface features in the vicinity of the mine lease area.
- iii. The Committee noted that the instant mine lease area is located in Keonjhar where the residents and migratory population of elephants exists, hence the Project Proponent needs to prepare the wildlife conservation plan in consultation with the Forest Department by specifically addressing the movement of elephants and other Schedule-I species in the study area of 10km radius.
 - iv. The Project Proponent should prepare the EMP considering the scenario of pollution to be generated for normative and peak total excavation for assessing air and noise pollution.
 - v. The Project Proponent needs to carry out the study for carrying capacity of road for additional transport of mineral to the railway siding of Bolani and Barbil as a part of EIA/EMP study.
 - vi. The Project Proponent needs to carry out the Public Hearing as per provisions of EIA Notification, 2006. The Committee noted that the instant proposal is located in the State of Odisha and for the purpose of EIA study buffer zone of the 10km study area falls in both the states of Odisha and Jharkhand. Hence, the Project Proponent must involve the villages falling in both the states of Odisha and Jharkhand in Public Hearing. PP shall carry out a single public hearing with the consultation of the concerned District Collectors in both the States of Odisha and Jharkhand. If not feasible, PP shall carry out a separate Public Hearing in both the States.
 - vii. The Project Proponent should also submit the time bound action plan on concerns of the public through proper separate budget for the concerns of the local people in terms of health care facilities for COVID, betterment of schools nearby and to facilitate the online education system by providing Wi-Fi connectivity, smart classrooms and desktops/tablets, infrastructure, and environment protection.
 - viii. The Project Proponent needs to submit an undertaking at the time of appraisal of EC stating that the transportation will be carried out only after the completion of the proposed construction of bridge over river Karo having dimension of 60m

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- length and 11m width and till the time existing bridge over river Karowill not be utilized. PP also needs to submit the permission letter from PWD and R&B department, Govt. of Odisha for construction of bridge over river Karo.
- ix. The Project Proponent needs to submit the detailed R&R plan covering all the components. PP should clearly mention the number of Project Affected Families (PAF) and details of the land owned by them, break up of total compensation to be paid including method of calculation including the sources/references adopted and mode of payment etc. PP need to submit the plan for Socio economic development of the neighborhood habitats based on the need-based survey along with the time bound action plan. PP also needs to submit the timeline for land acquisition of 42.242ha [Non-Forest Private Land: 35.791 Ha + SabikKissam Jungle Pvt. Land: 6.145 Ha + Forest Pvt. Land: 0.306 Ha] at the time of appraisal of EC.
- x. The Project Proponent needs to submit the detailed greenbelt/plantation plan in tabular format (year wise for entire life of mine) with proper time bound capital and recurring cost. Entire plantation shall be carried out by planting the seedling of 10 ft height with at least 90% survival rate and the entire peripheral plantation and the safety barrier plantation shall be completed within 6 months from the start of mining operations. An undertaking in this regard needs to be submitted by PP. PP also needs to the compensatory afforestation plan if any trees to be cut in the mine lease area.

1.4 Proposal for Terms of Reference of M/s Koustuv Mining & Smelting (P) Ltd for mining of Tin ore with proposed production capacity of 8.58 MT/year in the mine lease area of 19.0 ha located at Kamarpalli Village, Malkangiri Tehsil & District, Odisha – [File No. IA-J-11015/91/2021-IA-II(NCM), Proposal No. IA/OR/MIN/237987/2021] - Terms of Reference (ToR)

EAC Meeting Details:

EAC meeting	47 th
Date of Meeting	7 th – 9 th March, 2022

The proposal of M/s Koustuv Mining & Smelting (P) Ltd for mining of Tin ore with proposed production capacity of 8.58 MT/year in the mine lease area of 19.0 ha located at Kamarpalli Village, Malkangiri Tehsil & District, Odisha. The mine lease area is located between Latitude 18°39'23" N to 18°38'55" N and Longitude 81°54'29" E to 81°54'55" E.

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The mine lease area falls under the Survey of India Toposheet No: 65F/14 and falls in Seismic Zone-II.

2. M/s Koustuv Mining & Smelting (P) Ltd has made an online application vide IA/OR/MIN/237987/2021 dated 10.11.2021 and submitted Form 1 and Prefeasibility report under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and the instant proposal attracts the general conditions as the Interstate Boundary of Odisha – Chhattisgarh is located at a distance of 100m from the mine lease area and falls under Category “A” of the schedule of the EIA Notification, 2006 and appraised at the Central level.

3. The proposal was earlier considered in the 42nd EAC (Non Coal Mining) meeting held during 30th November – 3rd December, 2021. During the meeting, the Committee noted that in Form 1, S.No:7, PP submitted that the proposal does not attract the general conditions whereas in covering letter vide ref: KMSPL/SEI/21-22/311 dated 17.08.2021, PP mentioned that the mining lease area is located at 100m from Interstate Boundary of Odisha – Chhattisgarh and the instant proposal falls under Category A as per EIA Notification, 2006 and its subsequent amendments. The Consultant (M/s Green Circle INC) informed the Committee that inadvertently it has been submitted that the proposal does not attract the general conditions. The Committee also noted that in Form 1 (S.No:1.6), PFR Pg. No: 1 & 5 and in Approved Mining Plan (Pg.No:28), PP mentioned that the manual method of mining will be adopted and in S.No: 1.9 & 1.12 and during presentation, PP mentioned that opencast semi-mechanized method will be adopted which is contradictory. The Committee noted that there is ambiguity in the submission made by the Consultant. The Committee also noted that earlier Consultant not submitted the accreditation letter to the Ministry and the Committee requested the Ministry to take action against the Consultant (M/s Green Circle INC) for filling the inappropriate application and incomplete Form-I and PFR. The Committee also warned the consultant to ensure that the document submitted online should be complete and correct in all aspects for taking due diligence in the proposal and consultant should not repeat such carelessness in future. Therefore, the Committee was of the view that Ministry should take appropriate action against the consultant and deferred the proposal for want of the following additional information. Then, the Project Proponent submitted the information on 24.12.2021 in PARIVESH portal and the proposal was placed in the 47thEAC (Non-Coal Mining) meeting held during 7th - 9th March, 2022.

4. Observation and Recommendation of the Committee:

The proposal for Terms of Reference was considered in the 47thEAC Meeting (Non-Coal Mining) held during 7th to 9th March 2022. The Member Secretary informed the Committee that the Project Proponent vide Lr Ref: KMSPL/SEI/21-22/427 dated 19.02.2022 requested to withdraw the proposal No. IA/OR/MIN/237987/2021 and

informed that fresh proposal will be submitted after approval of modification of mining plan. Therefore, the Committee **returned the proposal in present form.**

1.5 Proposal for corrigendum in EC dated 29.10.2021 of M/s UltraTech Cement Ltd for Deora, Sitapuri&Udiyapura Limestone Mine (Auction Block) with Limestone Production Capacity: 2.0 Million TPA, Top Soil: 0.17 Million TPA, OB & IB: 0.25 Million TPA (Total Excavation: 2.42 Million TPA) in the mine lease area of 344.783 ha, located at Villages: Deora, Sitapuri, Udiyapura and Muhali, Tehsil: Manawar, District: Dhar, Madhya Pradesh – [File No. J-11015/66/2019-IA-II(M), Proposal No. IA/MP/MIN/254032/2022; Consultant: M/s J.M. EnviroNet Pvt. Ltd] - Corrigendum in EC

EAC Meeting Details:

EAC meeting	47 th
Date of Meeting	7 th – 9 th March, 2022

The proposal of M/s UltraTech Cement Ltd is for corrigendum in EC dated 29.10.2021 for Deora, Sitapuri&Udiyapura Limestone Mine (Auction Block) with Limestone Production Capacity: 2.0 Million TPA, Top Soil: 0.17 Million TPA, OB & IB: 0.25 Million TPA (Total Excavation: 2.42 Million TPA) in the mine lease area of 344.783 ha, located at Villages: Deora, Sitapuri, Udiyapura and Muhali, Tehsil: Manawar, District: Dhar, Madhya Pradesh. The mine lease area is located between Latitude 22°19'09" N to 22°20'19" N and Longitude 75°05'29"E to 75°07'08"E. The mine lease area falls under the Survey of India Toposheet No: F43/15, F 43/16, F 43J/3 & F 43J/4 and falls in Seismic zone-II. The Project Proponent presented the KML file during the presentation to indicate the location of mine lease on Google Earth.

2. M/s UltraTech Cement Ltd has made an online application vide IA/MP/MIN/254032/2022 dated 29.01.2022 and submitted Form-10 for corrigendum in EC under the provisions of the EIA Notification, 2006. The proposed project activity is listed at schedule no. 1(a) Mining of Minerals and falls under Category "A" of the schedule of the EIA Notification, 2006 as the mining lease area is greater than 100 ha and appraised at the Central level.

3. The Project Proponent obtained Environmental Clearance vide EC Identification No. EC21A001MP171263 dated 29.10.2021 for mining of Limestone in Deora, Sitapuri&Udiyapura Limestone mine (Auction block) with production capacity of 2.0 Million TPA (ROM) Limestone, Top Soil - 0.17 Million TPA, OB & IB - 0.25 Million TPA (Total Excavation - 2.42 Million TPA) in the mine lease area of 344.783 ha at Villages: Deora, Sitapuri, Udiyapura and Muhali, Tehsil Manawar, District: Dhar, State: Madhya Pradesh.

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4. Now, the Project Proponent requested for corrigendum in EC dated 29.10.2021 as mentioned below:-

S. No	As per EC letter dated 29.10.2021	Description as per EC letter dated 29.10.2021	Corrigendum sought by PP
i.	Point No. 3, Pg. No: 3, Line 3	The proposal was earlier considered in the 32 nd EAC meeting held during 28 th June, 2021 to 1 st July 2021. During the meeting, the Project Proponent informed that Letter of Intent (LoI) vide letter no.F.3-32/2018/12/1 Bhopal date 09.06.2018	The proposal was earlier considered in the 32 nd EAC meeting held during 28 th June, 2021 to 1 st July 2021. During the meeting, the Project Proponent informed that Letter of Intent (LoI) vide letter no.F.3-32/2018/12/1 Bhopal date 20.06.2018
ii.	Point No. 4, Pg. No: 3, Line 5 & 6	Now, the Project Proponent resubmitted the proposal vide no. IA/MP/MIN/115209/ 2019 dated 02.09.2021 and submitted Form 2 and EIA report along with the extension of validity of Letter of Intent (LoI) issued by the Govt of Madhya Pradesh vide Lr No F 3-32/2018/12/1 dated 13.08.2021 that the validity of LOI has been extended to a period of further 1 year from 29.06.2021 to 28.06.2022 for obtaining Environmental Clearance.	Now, the Project Proponent resubmitted the proposal vide no. IA/MP/MIN/115209/ 2019 dated 02.09.2021 and submitted Form 2 and EIA report along with the extension of validity of Letter of Intent (LoI) issued by the Govt of Madhya Pradesh vide Lr No F 3-32/2018/12/1 dated 13.08.2021 that the validity of LOI has been extended to a period of further 1 year from 19.06.2021 to 18.06.2022 for obtaining Environmental Clearance.
	Point No. 6, Pg. No: 4, S. No: 2, 5 th & 6 th column	29.06.2021 - 28.06.2022	19.06.2021 - 18.06.2022
iii.	Point No. 7, Pg. No: 5, 1 st row	5 No.s of 35 Tonne dumper with 24 trips/day	5 No.s of 35 Tonne dumper with 230 trips/day

5. Observation and Recommendation of the Committee:

The proposal for Corrigendum in EC was considered in the 47thEAC Meeting (Non-Coal Mining) held during 7thto 9thMarch 2022. After detailed deliberations made by the Project Proponent and the Consultant, the Committee noted that the instant proposal is for Corrigendum in EC dated 29.10.2021 for correction in date of grant Letter of Intent (LoI), the validity of Letter of Intent (LoI), and transportation details as requested by PP in Para 4. The Committee also noted that the Project Proponent informed that under Para 4, S. No iii, to transport 8067 TPD, the total no. of trips will be 230 trips/day with 35 Tonne

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dumper operating in two (2) shifts for 300 days in a year. The Committee was of the view that the permanent haul road of length 750m should be converted into concrete road and the Project Proponent agreed for the same. Therefore, the Committee **recommended** the proposal of Corrigendum in EC dated 29.10.2021 as sought in Para 4 for M/s UltraTech Cement Ltd for Deora, Sitapuri&Udiyapura Limestone Mine (Auction Block) with Limestone Production Capacity: 2.0 Million TPA, Top Soil: 0.17 Million TPA, OB & IB: 0.25 Million TPA (Total Excavation: 2.42 Million TPA) in the mine lease area of 344.783 ha, located at Villages: Deora, Sitapuri, Udiyapura and Muhali, Tehsil: Manawar, District: Dhar, Madhya Pradesh along with the following additional specific conditions:

- i. The Project Proponent should convert the permanent haul road within mine lease area of length 750meters (i.e., from mine to crusher) into concrete road with suitable width. PP shall also adhere to the practices already being practiced in the State of Odisha with respect to NEERI recommendations. PP needs to submit the implementation status of conversion of haul road into concrete road to the Ministry's Integrated Regional Office.
- ii. All other terms and conditions mentioned in the EC letter dated 29.10.2021 shall remain unchanged.

1.6 Proposal for Environmental Clearance for the Granite Building Stone quarry of M/s Kavumkal Granites in the mine lease area of 4.0262 Ha located at AthikkayamVillage, Ranny Taluk, Pathanamthitta District, Kerala – [File No. IA-J-11015/95/2021- IA.II(NCM); Proposal No. IA/KL/MIN/237190/2020; Consultant: SBA Enviro Systems Private Limited] - Environmental Clearance

EAC Meeting Details:

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

The proposal of M/s Kavumkal Granites is for grant of Environmental Clearance for Granite Building Stone quarry in the mine lease area of 4.0262 Ha area located at Athikkayam village, Ranny Taluk, Pathanamthitta District, Kerala. The mine lease area is located between latitude 9°24'54.46" N to 9°25'3.39" N and longitude 76°50'21.19" E to 76°50'28.83" E. The mine lease area falls under the Survey of India Toposheet No. 58C/15 and falls in Seismic Zone III. The EIA consultant is SBA Enviro Systems Private Limited and accreditation no. of the consultant is NABET/EIA/1720/SA094. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14thSeptember 2006 and subsequent amendments. SEIAA, Kerala has been constituted on 3rd March 2022, however, as per the Ministry's

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O.M. dated 23rd October 2017, “In cases, the proposal is appraised by the EAC due to non-existence of SEIAA/SEIAC, then irrespective of whether recommended, deferred or additional information sought, it will continue to be appraised and decided at the central level, even if the SEIAA/SEIAC is constituted later on.”

2. The project proponent submitted the application of Environmental Clearance to MoEF&CC on PARIVESH portal vide proposal no. IA/KL/MIN/237190/2020 on 03.11.2021. The project proponent submitted that Terms of Reference was obtained from SEIAA, Kerala vide letter no. 1259(A)/EC2/2019/SEIAA dated 12/11/2020 for production of Granite Building Stone. The project proponent submitted form 1, form 2, copy of LOI, PFR, EMP, approved mining plan, Authorization letter, Cluster Certificate and DSR as per 2016 Notification for the appraisal of the proposal.

3. Earlier, the proposal for Environmental Clearance was considered in the 42nd EAC meeting held during 30th November to 3rd December, 2021 wherein the committee noted that the project proponent did not submit the authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018. As per 2018 Notification "The District Survey Report shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects" and the Committee deferred the proposal. Accordingly, the project proponent replied for additional details sought on 21.01.2022 and 14.02.2022. The project proponent also submitted the Hon'ble High Court, Kerala order vide WP(C) NO. 22773 OF 2021 dated 31/01/2022. The relevant extract is produced below:

“The writ petition is disposed of directing respondents 1 & 3 to consider and pass orders on Ext.P10 proposal for Environmental Clearance submitted by the petitioner, on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, within a period of one month from the date of receipt of a copy of this judgment.

The certificate issued by the Geologist, Department of Mining and Geology, District Office, Pathanamthitta on 02.12.2021, which is produced as Ext.P13 in the writ petition, confirming that the DSR 2016 is being applied in the State of Kerala, shall also be considered by respondents 1 & 3 while finalizing their orders. The petitioner may upload the certificate issued by the Geologist in the concerned portal along with DSR of 2016, if not already uploaded.”

The project proponent accordingly submitted the certificate issued by the Geologist dated 02.12.2021.

4. The project proponent submitted that the Letter of Intent (LoI) for mining of granite building stone for 4.0262 Ha has been received from the Directorate of Mining and

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Geology, Thiruvananthapuram, Kerala, vide Letter of Intent No.5281/M3/2018 dated 23/06/2018. The Mining plan has been prepared by Mr. Jayachandrapanicker P.S, Recognized Qualified Person (RQP – DMG/KERALA/RQP/12/2017) and the same was approved by the Senior Geologist, Pathanamthitta District, GoK, vide letter No. 1852/DOPTA/M/18 dated 24/09/2018 which is valid up to 01/12/2027. The Mining plan is approved for the total production of 1856378MT. The proposed annual production is estimated as 185637.8 MT. The project proponent submitted that life of mine is 10 years. PP submitted that the total production capacity will be 185637.8 MTPA; Soil: 90585 tonne and Overburden: 92819 tonnes. The total water requirement for the proposed project has been estimated to be around 7 KLD. About 1 KLD is required for domestic consumption, 4 KLD is required for dust suppression and 2KLD is required for greenbelt development. The required water will be met from bore well & open well.

5. The project proponent submitted that the method of mining will be open cast semi-mechanized with 45^o pit slope. PP also submitted that since the bench height needs to be maintained to 5.0 m, blast hole will be by jack hammer where the diameter is normally 32 mm and the depth of the hole is 2.5 to 2.6 m. Blasting pattern is generally square or staggered with burden ranging from 0.75 to 1.00 meters and spacing of 1.0 to 1.2 meters. Maximum holes blasted per day are 40 to 50 with normal delay detonators to mitigate adverse impacts such as air blast, throw and the ground vibration. Holes are electrically detonated using electric detonators. Nitrate mixture (Class-2) types of explosives are used for blasting with 20 to 25 percent, proportion of primer/ booster cartridges and rest as column charge. About 2 to 3 kg of explosives are loaded in 32 mm diameter holes. And powder factor ranging between 7 to 8 tons per kg of explosives is achieved. PP also submitted that loading of the building stone blocks will be done mechanically to tippers of 10 MT capacity and transported from the quarry to the stockyard and mineral rejection/waste will also be handled mechanically.

6. The project proponent submitted that the nearest village is Koothattukulam which is 1.4 km away from the mine site in NE. SH 44 & NH 183A are 4.7km in NE and 5.6 km in S respectively. Chengannur railway station is 27.5 km away in SW and Pampa River is 3.2 km away in NE direction. PP submitted that there is no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves are located within 10 km radius of the mine lease area. PP also submitted that the nearest forest is Periyar National Park which is at 10.5 km away from the mine site.

7. As per the NGT order dated 13.09.2018 and the subsequent Office Memorandum of MoEF& CC, Government of India dated 12/12/2018, if the area of the proposal as individual or as cluster condition is >5ha it is required to take up the EIA studies including public hearing. There are three other quarries adjacent to the proposed quarry. The first

one is an existing quarry of Kavumkal Granites for an area of 6.075Ha, second one is the Quarry of Manimalethu Crusher Industries over an area of 4.3564 Ha and Johnson Rocks for an area of 9.733 Ha (Not yet started as application is under consideration of SEIAA). Hence, considering the four quarries i.e., including proposed quarry area of 4.0262 ha, the total cluster area becomes 24.1906 Ha, the project falls under cluster condition. The cluster certificate is submitted by the PP vide letter no. 1033/DOPTA/M/2018 dated 07/08/2020. Therefore, the project proponent submitted the EIA report, December 2020. The baseline data was collected during Pre-Monsoon (Jan. 2021 to March 2020). Public hearing was conducted on 03.03.2021 at Manimalethu Auditorium, Vehcoochira, Pathanaththitta.

8. The project proponent submitted that the mine lease area of 4.0262 Ha is a private land. The project proponent submitted that capital and recurring cost for EMP is Rs0.22Crore and Rs. 0.03Crore respectively. Total project cost is Rs. 2.225Crore and direct manpower requirement is 20 persons.

9. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 47thEAC Meeting (Non-Coal Mining) held during 7thto 9thMarch 2022. After detailed deliberations, the Committee observed that the Letter of Intent (LOI) was obtained by the project proponent for mining of granite building stone for 4.0262 Ha from the Directorate of Mining and Geology, Thiruvananthapuram, Kerala vide letter dated 23/06/2018, which is not valid as on date. During the presentation, the project proponent informed the Committee that PP has applied for the extension of LOI. The Committee also noted that Periyar National Park is present around 10 km away from the mine lease area. The Committee also observed some mining activities inside the mine lease area through KML file. Therefore, the Committee **deferred** the proposal due to want of the following information:

- 1) The project proponent submitted the Letter of Intent (LOI) for mining of granite building stone for 4.0262 Ha from the Directorate of Mining and Geology, Thiruvananthapuram, Kerala dated 23/06/2018, which was valid for one year. The project proponent needs to submit the valid Letter of Intent (LOI).
- 2) The project proponent needs to submit the letter from DMG that there are no mining activities outside the mine lease area.
- 3) The project proponent needs to submit the letter from the concerned authority mentioning the actual distance of the Periyar National Park from the mine lease boundary.

Day 2: 8th March, 2022 (Tuesday)

2.1 Proposal for Environmental Clearance for Hiwardara Limestone & Dolomite Mine with the production capacity of 0.2 MTPA in the mine lease area of 171.09 ha located at Village: Hiwardara, Tehsil: Wani, District: Yavatmal, State: Maharashtra by M/s. Shree Bajrang Sales Pvt. Limited [File No. 23-172/2018-IA.III (V); Proposal No. IA/MH/MIN/66799/2017; Consultant: M/s. SrushtiSeva Private Limited] - Environmental Clearance

EAC Meeting Details:

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

2. Project details:

Name of the Proposal	Hiwardara Limestone & Dolomite Mine with the production capacity of 0.2 MTPA	
Location	Village	Hiwardara
	Tehsil/Taluka	Wani
	District	Yavatmal
	State / UT	Maharashtra
	Latitudes	19°50'07.08" N to 19°51'13.30" N
	Longitudes	78°53'31.53"E to 78°54'19.82" E
	SoI Topo sheet No.	56 I/13.
Company's Name	M/s. Shree Bajrang Sales Pvt. Ltd.	
Accredited Consultant and certificate no.	SrushtiSeva Private Limited NABET/EIA/1821/SA0107 Valid till 05/12/2021	
KML file	Submitted	
Seismic zone	Zone-II	

3. Category details:

Category of the project	Category "A", Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	As per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendment
Mining lease Area	171.09 ha
Violation	The proposal falls under violation under Notification S.O.804(E) dated 14.03.2017 as the project proponent started the work onsite without prior EC under EIA notification,2006.

4. ToR details:

ToR Proposal No.	IA/MH/MIN/66799/2017
Online application date for Form-I	21.07.2017
EAC meeting dates for ToR	July 29-30, 2015 (Non-Coal Mining Committee), 11-12 th July 2018 (Violation Committee), 8 th -9 th March 2021.
ToR Letter No.	23-172/2018-IA.III (V)
ToR grant Date	28.06.2021
Production capacity	Limestone: 0.2 MTPA ROM: Plan period: 2,60,000; Conceptual period: 8,00,000; Total: 10,60,000
Mineral reject	Plan Period: 13,000 Conceptual Period: 40,000 Total: 53,000
Murrumic Soil/ Murrum	Plan Period: 17,800 Conceptual Period: 70050 Total: 87850
EIA/EMP uploaded on	27.11.2021

5. Earlier EAC Meeting: The proposal for Environmental Clearance was considered in the 43rd EAC meeting held during 14th to 16th December, 2021 wherein the proposal was deferred. The project proponent replied on 15.02.2022 which is as follows:

ADS Point 1: The project proponent needs to include 3% of the EMP budget in the cost of damage assessment. The damage assessment must indicate the revised project cost.

Reply: The revised EMP cost is Rs. 76.19 lakhs. As per the above directives 3% of EMP cost i.e. Rs. 2.28 lakhs /year. Accordingly, 3% of EMP cost for two years of violation period amounting to Rs. 4.6 lakhs is added in CRAP. The revised project cost is Rs. 994.59 lakhs inclusive of land as per current market rate, equipment's and structures. Accordingly, Chapter 13 (Damage Assessment, Remediation Plan and Natural & Community Resource Augmentation Plan (NCRAP) of EIA/EMP has been revised and is submitted with the ADS reply.

ADS Point 2: A total budget provision of Rs. 16.50 Lakhs has been made to conduct activities to address the issues raised by the public during public hearing conducted on 02.05.2015 for the instant proposal. The project proponent needs to submit that how will the budget of Rs. 16.50 Lakhs be utilized in two years.

Reply: Revised Action plan with time frame & budget provision for addressing issues raised during Public Hearing is submitted with the ADS reply.

ADS Point 3: The project proponent needs to submit the revised total damage assessment cost (Air as per EEA norms, Water as per CGWA notification dated 24th Sept 2020 and 3% of the net profit accrued for the production during violation period to be added in CRAP).

Reply: The Damage Assessment cost is estimated as follows:

Particulars	Amount(Rs.)
Air Environment Damage Cost	5,09,325
ECRGW with deterrent factor for Ground water	1,00,000
Ground water withdrawal charges	4,560
Total	6,13,885

The detailed total damage assessment cost is submitted with the ADS reply.

ADS Point 4: The project proponent needs to calculate and submit the cost of construction of 9 m road and include in the EMP budget. Also, PP needs to submit the post project monitoring cost.

Reply: Revised Budget for Environmental Management Plan in detail is submitted with the ADS reply.

ADS Point 5: The project proponent needs to revise and submit the plantation/Green belt plan of 3 years including the completion of peripheral plantation in 2 years.

Reply: Based on the present reserve estimation, proposed production rate and the lease validity period, mine planning has been done only upto 14 years i.e., year 2034. Based on the conceptual plan provided in the Mining Plan approved by IBM, Nagpur, the mining and associated activities will disturb only 21.94 Ha area out of the total 171.09 Ha mining lease area. It is proposed to carry out plantation in 12.65 Ha undisturbed area left for safety barrier zone and balance 136.50 Ha area will remain undisturbed. Proposed plantation program upto the conceptual stage and Conceptual plan showing proposed plantation program is submitted with the ADS reply.

ADS Point 6: In Form-2, it is mentioned as no violation. The project proponent needs to correct the information and mention the details of violation for further appraisal.

Reply: As per the directives, Form-2 has been revised.

6. Lease Details:

Grant of Mine lease by Govt. of Maharashtra	Order no.	MMN-1120/48/IND-9
	Date	03.01.2003
Execution mine lease	The Mining Lease was executed for a period of 30 years i.e., from 25.04.2005 to 24.04.2035.	
Validity of mine lease	Till 24.04.2035	

7. Mining plan details:

Mining Plan(approved by Indian Bureau of Mines/DMG)	Letter No.	YTL/LST/MPLN-826/NGP-2021
	Date	22.07.2021
	Approval period	2020-21 to 2024-25
Mining Parameters	Quantitative Description	
Bench Height	5 m	
Bench Width	6 m	
Method of Mining	Opencast Mechanized Mining	
Individual bench slope	<85°	
Overall pit slope	45°	
Drilling/Blasting	Drilling will be carried out by using wagon drill machine having 100 mm diameter and blasting will be performed with 83 mm diameter explosive.	
Transportation details	ROM produced from the mine will be manually sorted at the mining site. Mineral rejects will be transported to the designated mineral reject dump located in northern part of the mine lease area. Limestone & Dolomite will be transported to the mineral stack yard and from there to the user industry by tippers of 20 tonne capacity. The Hiwardara Limestone & Dolomite Mining Project is connected to the PWD road through 1.2 km kutcha road followed by 1.1 km Private tar road. The PWD road further connects to the MukutbanWani MDR 234 at 3.1 km distance. Project proponent submitted that they will strengthen & blacktop the 1.2 km kutcha road after obtaining necessary permission from District Administration.	
Life of mine	About 62 years	
Traffic assessment	The Project envisaged production of 0.2 MTPA ROM from the Mine. Out of the 0.2 MTPA, 0.19 MTPA graded limestone & Dolomite shall be directly dispatched to the Cement Plants/ Steel plants. About 5% of the ROM shall be generated as Mineral rejects. Material transport per day: 633 TPD Mode of transport: 20 Tonne capacity tippers	

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	No. of tippers required per day: 32 No.s Additional traffic (Office vehicles, water tankers, etc): 8 No.s Total additional traffic: 40 trips per day
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8. Land Area Breakup:

Private land	116.02 Ha
Government land	55.07 Ha
Total Mining lease area	171.09 ha

9. Nearest village / town/ highway/railway station / water bodies

Particulars	Particular's Name	Distance & Directions
Nearest Village	Nerad village	1.0 km N of the Lease Boundary.
Nearest Town	Wani	25 km North
Nearest Roadway	Nagpur Hyderabad NH-7 MukutbanWani MDR 234	35 km W 0.25 km W
Nearest Railway station	Central Railway WaniChanak Branch Railway line:	35 km, W
Water Bodies	LaliyaNala Vaidarbha River Penganga river Mukutban Lake Kosara village pond Paunar village pond	0.1 km N 0.56 km NE 6.7 km E 5.1 km SW 3.8 km W 10 km W

10. Water requirement:

Total water requirement	20 KLD	Dust Suppression on haul roads, working face, dump area, wet drilling etc.	16 KLD
		Plantation	2 KLD
		Domestic and Drinking Requirement	2 KLD
Source	Water will be obtained from mine pit (accumulated rain water, when available) and by authorised tanker supply water		

11. Presence of Environmentally Sensitive areas in the study area:

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details
Forest Land	Yes	Chilai RF (Adjacent, S) Babapur RF (1.8 km NE) Junoni RF (2.5 km E)

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		Kayar RF (3.3 km N) Pimpri RF (5.7 km NE) Ruikot RF (2.6 km W) RF near Hirapur (7.1 km SW) Akapur RF (5.8 km SE) Protected Forest (6.7 km S)
National Park	No	
Wildlife Sanctuary	No	
Additional information	No schedule I species were found in the study area	

12. The status of Forest Clearance/Wildlife Clearance/CRZ/CGWA: Not applicable.

13. Green belt/plantation details:

Proposed area for green belt/plantation	15.85 Ha
Budget for green plant & plantation till the end of life of mine.	Rs. 19.20 Lakh
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	6.00 Ha
50 m safety zone of nallah, roads, electric lines	7.65 Ha

14. Baseline details:

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	March – May 2021
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Summer Season.
Mitigation measures to prevent Environmental Pollution.	Air Pollution Control Measures, Water Pollution Control Measures, Noise & Vibration Control Measures, Plantation program, Solid waste management, etc. submitted in the EIA/EMP report.

15. Public Hearing Details: The Public hearing for this project with same production capacity of 0.2 MTPA was already conducted on 02.05.2015. A total budget provision of Rs. 16.50 Lakh has been made to conduct activities to address the issues raised by the public during public hearing for the project. Revised Action plan with time frame & budget provision for addressing issues raised during Public Hearing conducted on 02.05.2015 was submitted with the ADS reply.

17. Court case details:

Court Case	No court case is pending against the project
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18. Affidavit/Undertaking details:

Affidavit	The project proponent submitted the Affidavit dated 09.07.2018 in accordance with the statutory requirement & judgment of
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	Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ores is submitted to MoEF&CC.
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19. District Survey Report: The project proponent submitted the District Survey Report for Yavatmal District as per the Ministry's Notification S.O. 3611 (E) dated 25.07.2018.

20. Details of the EMP:

Sr.No.	Activity/Item	Units	Rs. In Lakhs	
			Capital Cost	Recurring expenses/year
1	Air Pollution Control		61.50	6.50
	A Water sprinkling on Haulroads & Mine working area	LS	0.50	2.00
	B Pump & Pipeline for water sprinkling from mine pit water	LS	1.00	0.5
	C Strengthening of Access Road to Mine	1.2Km	60.00	6.00
2	Water Pollution Control		7.10	0.81
	A Garland Drain	3.0Km	4.50	0.50
	B Settling tanks	5 No.s	0.50	0.10
	C Retention Walls	0.9Km	1.80	0.36
	D Septic Tank & Soak Pit	2 No.s	0.30	0.10
3	Noise & Vibration Control		1.00	0.50
	A Adoption of controlled blasting	LS	*	*
	B Periodic maintenance of Mine machinery	LS	1.00	0.50
4	Solid waste management		--	0.50
	A Reclamation of waste/reject dump	LS	--	0.50
5	Pollution Monitoring		--	3.70
	A Periodic environmental monitoring through NABL/MoEF Accredited Laboratory	LS	--	3.70
6	Conservation of Natural Resources		3.50	0.90
	A Solar Lighting Arrangement	10	2.00	0.40
	B Rainwater Harvesting	LS	1.50	0.50
7	Plantation		19.85	1.50
	A Development of green belt & plantation	LS	19.85	1.50
8	Occupational Health		2.39	1.26

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9	Miscellaneous		1.50	1.00
	Total		96.84	18.92

21. Details of project cost and employment:

Particulars	(Rs. In Crore)
Budget for addressing the Public Hearing issues	Rs. 16.50 Lakh
Total Cost for EMP	Rs. 96.84 Lakhs
Recurring Cost for EMP	Rs. 18.92 Lakhs/Annum
Project Cost	Rs. 994.59 Lakh
Employment	52 persons

22. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance under the Ministry's Notification S.O.804(E) dated 14.03.2017 was considered in the 47th EAC Meeting (Non-Coal Mining) held during 7th to 9th March 2022. After detailed presentation by the Project proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance for Hiwardara Limestone & Dolomite Mine with the production capacity of 0.2 MTPA in the mine lease area of 171.09 ha located at Village: Hiwardara, Tehsil: Wani, District: Yavatmal, Maharashtra by M/s. Shree Bajrang Sales Pvt. Limited subject to the compliance of following Specific conditions in addition to all Standard conditions applicable for non-coal mining projects:

- (i) EAC recommended for an amount of Rs. 29.00/- Lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provisions are mentioned below:

Table 1: Remediation Plan

Activity/Causes of pollution	Environmental Measures Already taken	Damage Assessment	Proposed Remediation plan	Budget(Rs.)
Land Environment				
<ul style="list-style-type: none"> Removal of topsoil Excavation Disposal/ Stacking of OB/solid waste 	<ul style="list-style-type: none"> Periodic water sprinkling to control fugitive emissions. No soil cover in excavated area. Excavation is carried out in Govt. waste land 	<ul style="list-style-type: none"> Only three nos. of small quarries with a total area of 0.26 Ha & Maximum depth of 3.0 m has been made. Thus, the land degradation accounts to only 0.15% of the total lease area. Grasses & bushes over 0.26 Ha area has been distributed 	<ul style="list-style-type: none"> Mining to be continued from the existing pits. OB/Mineral rejects generated during mining shall 	Development of Grazing land in ML area: Rs.0.50Lakh Plantation on OB/ Waste rock dump & on safety barrier zone

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	<p>having no fertile soil.</p> <ul style="list-style-type: none"> • Since the mining was carried out in Govt. wasteland and located away from agriculture land, there is no impact on agriculture produce and there by state exchequer as well as loss of income to any farmer or farm labors. 	<p>urbed.</p> <ul style="list-style-type: none"> • However, the mining has been carried out as per the mining plan approved by IBM & within the lease area. No damage has been done outside the mining lease. • No stream or drainage has been affected due to the Mining carried out. 	<p>be separately stacked at designate dplace.</p> <ul style="list-style-type: none"> • Top soil, wherever observed in small quantities, shall be separately scraped and shall be simultaneously used for plantation. • Construction of garland drains around OB dump & mine pit. • Development of grazing land within lease area using fast growing variety of grasses. (This area may be developed for mining in future) 	<p>=included in EMP</p> <p>Total Cost:Rs.0.50Lakh</p>
<p>Ambient Air Quality</p>				

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<ul style="list-style-type: none"> • Clearance of site • Dust emissions due to mining (drilling, blasting, loading/unloading), internal movement of machinery etc. • Dust emissions due to mineral transport 	<ul style="list-style-type: none"> • Periodic water sprinkling on working area and kutcha road connecting lease area. • Transport of mineral through trucks covered with tarpaulin • Periodic maintenance of mining machinery. • Dust Mask for the workers 	<ul style="list-style-type: none"> • Temporary increase of particulate matter in ambient air of the area May be occurred. • Since the production achieved from the mine was in small quantity, no significant impact on worker's health is observed. 	<ul style="list-style-type: none"> • Continuing practice of periodic water sprinkling on working area and kutcha road connecting lease area. • Development of thick green belt around mine lease boundary • Strengthening of the Kutcha road connecting lease area • Occupational health test of all workers of the mine • Ambient air quality monitoring of nearby villages 	<p>Cost of Green belt development & Plantation: already included in EMP</p> <p>Cost of Medical test of mine workers: Included in EMP Budget</p> <p>Cost of Air Monitoring= Included in EMP Budget</p> <p>Periodic health checkup camps in nearby villages: Rs. 1.00Lakh</p> <p>Total Cost =Rs. 1.00Lakh</p>
Ambient Noise Levels & Ground vibrations				
<ul style="list-style-type: none"> • Use of HEMM for mining • Blasting • Transport of mineral 	<ul style="list-style-type: none"> • Small scale mining activities were carried out using few excavators and tippers. • Drilling and blasting conducted occasionally. • Controlled blasting was adopted to control ground vibrations. • Mining was carried out during day time only. 	<p>Since, there is no habitation within or in close vicinity of the mining area, no significant impact was observed due to mining in the area.</p>	<ul style="list-style-type: none"> • Adoption of controlled blasting • Development of green belt around lease boundary • Provision of ear plugs to all workers in the mine • Periodic 	<p>Cost of PPE: Included in EMP Budget</p> <p>Maintenance of mining machinery: Included in EMP Budget</p>

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			maintenanc e of mine machinery	
Surface water quality				
<ul style="list-style-type: none"> • Silt run-off from mining area • Reduction in run-off flow • Water requirement during mining 	Water required for dust suppression, plantation and domestic use was supplied from purchased water tankers	<ul style="list-style-type: none"> • About 423KL/annum reduction in run-off flow to nearby streams due to creation of mine pits. However, this is compensated by improving ground water recharge. 	<ul style="list-style-type: none"> • Construction of garland drains • Construction of retention walls around surface dumps • Development of green belt along lease boundary. • Collection of surface run-off in settling tanks/mine pits and use it for dust suppression and plantation. 	<p>Construction of check dam/gully plugs at strategic locations: Rs. 1.50Lakh</p> <p>Construction of Garland drains, retention walls & settling tanks: already included in EMP budget</p> <p>Total cost: Rs. 1.50Lakh</p>
Ground water quality & depth				
<ul style="list-style-type: none"> • Depletion in ground water table • Contamination of ground water resources 	<ul style="list-style-type: none"> • Max. depth of existing pit is 3m which is much above the ground water table. • All the repairs of machines are conducted at authorized workshops or on concrete lined floors. Accidental spillages of oils are immediately handled and controlled. 	<ul style="list-style-type: none"> • Improvement in groundwater recharge to the tune of about 620KL/annum from the excavated mine pit. • No impact on ground water table as mining is conducted above GWT. 	<ul style="list-style-type: none"> • Mine pit will act as rainwater harvesting reservoir thereby improving groundwater recharge. • Additional Roof top rainwater harvesting structures will be constructed in nearby villages. • Storage of oils & grease will be done 	<p>Construction of Roof top rainwater harvesting structures in nearby villages: Included in EMP Action plan</p> <p>RWH in ML area: Included in EMP budget</p>

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			<p>in store with concrete floor.</p> <ul style="list-style-type: none"> • Machinery maintenance will be carried out in authorized workshop outside lease area. 	
Biological Environment				
<ul style="list-style-type: none"> • Removal of vegetation from mining area • Damage to agricultural crops • Disturbance to native wildlife 	<ul style="list-style-type: none"> • Only small bushes & grasses were cleared for mining. There are no trees in area proposed for mining. • Mining was conducted away from agriculture land. • Mining was conducted during day time only. 	<ul style="list-style-type: none"> • Clearance of bushes and grasses over 0.26 Ha area reduced area available for grazing to local cattle. • The forest area in the vicinity of mine are mostly barren and surrounded by villages & other industries. As such, no major wildlife is observed in the area. 	<ul style="list-style-type: none"> • Development of grazing land over 6.00 Ha within lease area by planting variety of grasses. • Mining to be conducted during day time only. 	<p>Development of grazing land in Hiwardara & Nerad villages: included in PH action plan</p> <p>Development of Plantation in Mine lease area: already included in Land environment above</p>
Socio-economic Environment				
<ul style="list-style-type: none"> • Occupational Health & Safety • Employment generation 	<ul style="list-style-type: none"> • Periodic water sprinkling and covered transport of mineral to control air pollution • Local people given preference in employment 	<ul style="list-style-type: none"> • No significant impact observed on health of local people • Local people benefitted through direct and secondary employment 	<ul style="list-style-type: none"> • Conducting medical camps in nearby villages • Provision of PPEs to all workers in the mine • Adoption of necessary pollution control measures • Preference in employment to Local people 	<p>Employment to about 40 local persons</p> <p>Medical health check up camps in nearby villages: included in Air Quality above</p>
Grand Total				Rs.3.00Lakh

Table 2: Time bound Natural Resource Augmentation Plan

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Sr. No.	Activities	Location	Year&Budget(Rs. Lakh)		Total(Rs.Lakh)
			1 st Year	2 nd Year	
1	Construction of Rooftop RWH & Ground water recharge Structures	Gram Panchayat Buildings of Kundra & Nerad villages(Total rooftop area: approx.1000 Sq. Ft. each)	2.00	2.00	4.00
2.	Development of grazing land/plantation of saplings in village wastelands	Hiwardara,&Puradvillages(5.0 Ha each)	0.75	0.75	1.50
Total			2.75	2.75	5.50

Table 2: Time bound Community Resource Augmentation Plan

Sr. No.	Activities	Location	Year & Budget(Rs. Lakh)			Total(Rs.Lakh)
			1 st Year	2 nd Year	3 rd Year	
1	Development & maintenance of drinking Water facilities	Kundra,&Nerad villages	1.0	1.0	1.0	3.00
2	Provision of solar street lights	Kundra,&Nerad villages	1.00	1.00	0.50	2.50
3	Repair/maintenance of Community hall, temples, playgrounds, community toilets	Kundra,&Nerad villages	1.00	1.00	--	2.00
4	Conducting annual health check-up camps	One camp at common location for Nerad, Kundra, Khadki& Ganeshpur villages	1.00	1.00	1.00	3.00
5	Provision of furniture, books, computer, Sportskits to village school	Kundra,&Nerad villages	1.00	1.00	1.00	3.00
6	Contribution to the Group Vocational Training Institute(GVTC) for skill development training to interested youth	Group Vocational Training Institute, Gaurala Village, District Yavatmal.	2.00	2.00	1.50	5.50
7	Camps for creating awareness for planting trees, ODF, Swachh	All villages with in 5 km radius	0.50	0.50	0.50	1.50

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a	Bharat Abhiyan, Alcohol & tobacco de-addiction.					
Total		7.50	7.50	5.50	20.50	

Table 4: Summary of Remediation Plan, NRAP and CRAP

S. No.	Particulars	Proposed Budget
1	Remediation Plan	Rs.3.00 Lakh
2	Natural Resource Augmentation Plan (NRAP)	Rs.5.50 Lakh
3	Community Resource Augmentation Plan (CRAP)	Rs.20.50 Lakh
Total		Rs. 29.00 Lakh

- (ii) Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs 29.00/- Lakhs. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs29.00/- Lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.
- (iii) Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.
- (iv) The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental/mining personnel.
- (v) Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, if applicable. State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.
- (vi) The Environmental Clearance will not be operational till such time the Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
- (vii) State Government concerned shall ensure that mining operation shall not commence till the entire compensation levied, if any, for illegal mining paid by the

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Project Proponent through their respective Department of Mining & Geology in strict compliance of judgment of Hon^{ble} Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.

- (viii) Effective dust suppression system shall be adopted at the transportation site and in the other parts of the mining lease to arrest the fugitive dust emission.
- (ix) Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.
- (x) The mining lease holder shall, after ceasing mining operations, under take regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to condition which is fit for growth of fodder, flora and fauna etc.
- (xi) The Project Proponent shall undertake the adequate plantation in peripheral zone as well as gap plantation with the seedling of 6-8 ft height with at least 90% survival rate to control the dust at source and should be completed within 3 years from the date of commencement of mining operations. Casualties of the previous year should be replaced other than the saplings proposed to be planted every year.
- (xii) The Project Proponent shall prepare an year-wise plan for achieving targets planned under EMP for public concerns and shall submit progress report on compliance annually to the Integrated Regional Office of the Ministry.
- (xiii) The Project Proponent shall submit the progress report of NRAP and CRAP as well Remediation plan implementation annually to the Integrated Regional Office of the Ministry.

2.2 Proposal for Environmental Clearance for Mining of River Bed Sand (Minor Mineral) with production capacity of 0.42 MTPA (ROM) in the mine lease area of 360.97 ha located at Revenue Village(s) of Tehsil: Baran, District: Baran, Rajasthan by ShriMukesh Sharma – [File No. J11015/408/2015-IA.II(M); Proposal No. IA/RJ/MIN/32677/2015] - Environmental Clearance

EAC Meeting Details:

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

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The proposal of Shri Mukesh Sharma is for mining of Bajri with production capacity 0.42 million TPA (ROM) in the MLA of 360.97 ha. The mine lease is located at village (s)- KaglaBamori, Mehrawata, Rani Badod of Tehsil – Kishanganj and villages – Ulthi, Majrawta, Kalyanpurghata, Ghisri, Hanotiya, Koyla & Shahgarh in teshil – Baran, District – Baran, Rajasthan. River area spreads in 10 Villages of Tehsil – Baran&Kishanganj. Lease area extends from Village Kamtha on south side to Mehtabpura on the north side. Aerial distance is around 24.0 km between the starting and end point of the lease area. Total length of the lease area is 19.20 km. The mining lease area falls between the Latitudes of 25°15'13.07" N to 25°03'47.68" N and Longitude 76°35'22.26" E to 76°37'58.58" E on the Survey of India Toposheet No. 54C/11, 54 C/12 & 54D/9.

2. The proposal for Environmental Clearance was submitted online on 27.10.2017 vide proposal no. IA/RJ/MIN/32677/2015. The Terms of Reference was issued by MoEF&CC, vide letter no. J-11015/ 408/ 2015-IA.II (M) dated 08.01.2016. Earlier the proposal was considered in the 29th EAC Meeting (Non-Coal mining) held during March 22-23, 2018. The relevant extract is given below:

“The Committee made detailed deliberations and observed that the river sand mining proposals for the State of Rajasthan cannot be governed by annual river replenishment studies alone and there is a need for caution in sand/ bajri mining of these paleo deposits. The Committee also observed that the Consultant has not presented the data in the Scientific Replenishment Study report as the same was accepted to be rough estimate and non-representative of the actual replenishment status. Considering the irregular nature of the rainfall and resultant non-uniformity in arriving at the sand replenishment status, the following was noted:

(i). The DMG, Govt. of Rajasthan is required to demarcate the stretch of land (lease) in consultation with State Irrigation Department on which it wants to permit river/ sand mining as the current practice of granting whole Tehsil as a lease is not viable from environmental point of view as it could impact the agricultural and groundwater profile over a large area;

(ii). Based on such area identification, DMG, PP and Consultant are required to identify the cross section on which the replenishment study shall be undertaken for calculation of replenishment amount/ rate, as the case may be;

(iii). The areas for ‘carrying out mining’ and cross-sections for ‘monitoring replenishment’ are required to be demarcated through latitudes and longitudes along with the Original Ground Level (OGL) of the cross-section and shall be duly authenticated by DMG, Govt. of Rajasthan and State Irrigation Department respectively. The future replenishment

assessment may be undertaken based on OGL duly authenticated by State Irrigation Department. No mining shall be carried outside the demarcated area;

(iv) The maximum depth of mining shall be restricted to 1.0 meter from the OGL;

(v). PP shall use only Scrapers for mining to ensure that the mining depth be maintained as 1.0 meter. No other heavy machinery like bucket excavators, JCB machines etc. shall not be used for excavation/digging which may adversely impact the aquatic biota. The PP shall have to ensure that during the course of mining, a levelled cross section is made (to the extent possible) so that replenishment studies in future are carried out with ease and transparency and depth of deposited material is measured. The DMG, Rajasthan shall ensure that levelled cross section is made by PPs before the onset of next rainfall season and the same be communicated to MoEFCC.

The Committee made detailed deliberations on the issues mentioned in preceding paragraphs and noted that there is a requirement of identification of active mining area within leased river stretches and subsequent identification and preparation of cross-section for assessing replenishment of sand in coming years. Hence, mining permission is technically required to be granted so as to conduct replenishment studies in future and demonstrate the same to State Govt. to regulate mining of paleo deposits in future. Accordingly, EAC recommended mining of river sand/ bajri up to 25% capacity of the annual proposed production capacity subject to submission of valid LOI alongwith the following information and undertaking as below:

(i). DMG, State Government to submit demarcated river stretch through latitudes and longitudes (out of the total lease) where river sand/bajri mining can be permitted based on available reserves and Original Ground Level (OGL) at each cross section in consultation with State Irrigation Department;

(ii). PP and Consultant to submit latitudes and longitudes of the identified cross section, duly authenticated by State Government, which shall be used for replenishment study in future for calculation of replenishment amount/ rate;

(iii). PP to give undertaking that only Scrapers shall be used for mining to ensure that the mining depth be maintained as 1.0 meters (max.) from Original Ground Level and No other heavy machinery like bucket excavators, JCB machines etc. shall be used which may adversely impact the aquatic biota;

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(iv). State Government of Rajasthan shall regulate the mining operations made by PP and submit report to MoEFCC on quarterly basis. It shall also be ensured that levelled cross section is made before the onset of next rainfall season; and

(v). State Department of Mines & Geology and PP are required to submit District Survey Report (DSR) in line with provisions made in Ministry's notification dated 15.01.2016.”

Accordingly, Ministry sent a letter to the project proponent and the State Government of Rajasthan on dated 18th April 2018 to submit the information/documents. The relevant reply and the valid LOI as on date is awaited.

3. The Letter of Intent was issued from Government of Rajasthan, Kota vide letter no. P.9 (10) Khan/ Gr. – 2/ 2013 dated 03.12.2014 in favor of Mukesh Sharma. Extension in validity of LOI was granted vide letter no. P.9(10)Khan/ Group-2/2013 dated 13.03.2018 and which was valid till 31.03.2018. The project proponent submitted the letter dated 21.12.2021 wherein it was mentioned that the Hon'ble Supreme Court in SLP 10587/2019 gave judgement on 11.11.2021 and directed State government to amend Rule 5(4) as per finding of Central Empowered Committee. In compliance of the above mentioned judgement, Rajasthan Government issued a Gadget notification on 16.11.2021 and extended validity of Lol to 68 months from issuance of rule i.e. 1.3.2017. Therefore, as per notification dated 16.11.2021 Lol is valid till 31st October 2022. Mining Plan along with Progressive Mine Closure Plan has been approved by SME, Kota vide letter no. SME/ Kota/ CC - I/ MP/ 15/ 4236 dated 12.10.2015. The mining will be carried out by opencast SemiMechanized method as per approved Mining Plan. The daily water demand will be 13.42 KLD, out of which 3.42 KLD will be used for domestic purpose and 10.0 KLD for dust suppression and plantation. Application is made to CGWA for ground water abstraction.

4. PP reported that there is no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, and Ramsar site, Tiger/ Elephant Reserves (existing) within 10 km radius from the mine site. The same has been authenticated from the Office of District Forest Office, Baran vide letter no. F/ Tech./DFO/2016-17/8395 dated 20.06.2017. Authenticated list of flora and fauna has been obtained from the Office of District Forest Office, Baran vide letter no. F/ Tech./DFO/2016-17/8396 dated 20.06.2017. A certificate has been obtained from the Office of Assistant Mining Engineer, Baran vide no. AME/Baran/CC/ML No.1/2013/2016/5050 dated 08.09.2016 stating that the lease does not fall in Aravalli as per Hon'ble Supreme Court Order. The baseline environmental monitoring was carried out during Winter Season i.e. (December'2015 to February'2016). The Committee deliberated the baseline data.

5. The Public Hearing was conducted on dated 30.11.2016 at 3.00 PM at Office of Sub-Divisional Officer, Kishanganj. Public Hearing Panel chaired by ADM, Shahbad – Sh. Ashok Puraswani (Representative of District Collector, Baran). The representative of SPCB was present. A total of 36 members attended the public hearing. The issues raised during the Public Hearing were considered and discussed during the meeting, which inter-alia, included blasting, employment, plantation etc., effective implementation of measures will be adopted. Project Proponent has made the action plan with budgetary provisions. The Committee deliberated the Action Plan on the issues raised during the Public Hearing. The cost of the project is Rs. 75.00 Lakhs. The Project Proponent has earmarked Rs. 12.00 Lacs towards Environmental Protection Measures per annum as recurring expenses. Proponent informed that Rs. 1.50 Lacs as Capital Cost and Rs. 25,000/- as Recurring Cost have been earmarked towards CSR activities. Scientific Replenishment Study Project Proponent has submitted Scientific Replenishment Study Report prepared by the Hydro Geo Solutions, Jodhpur. The Consultant, Hydro Geo Solutions, Jodhpur, on behalf of PP submitted that it has carried out study to estimate the replenishment of sand in the State of Rajasthan. Therefore, the methodology adopted for the study is an integrated approach involving:

- (i) Field data collection comprising of 12 cross sections, three in each block, along the lease reach of the river showing river bed material (RBM) with present elevations which when balanced with the next deposition can be quantified as the actual deposition/replenishment for 2018. Twenty one sand samples for sieve analysis (Appendix-I) i.e. d₁₀, d₃₀, d₅₀ and d₆₀, uniformity coefficient (Cu) and coefficient of curvature (Cc) was also determined as an input for estimation of bajri/sand replenishment of river reach under study. Four pits of 3 x3x1.5 m were also excavated for monitoring of the future/monsoon flow sedimentation.
- (ii) Remote sensing was used for identification of watershed area relevant to the mine lease. The data was used is from the latest satellite imagery of CARTOSAT – 1 of ISRO having a grid of 30 metres and SRTM, NASA at grid of 80 metres and computer aided drainage analysis system.
- (iii) Estimation of catchment yield and bed load transport: The catchment yield has been computed using the Strange's runoff method (Strange's Monsoon runoff curves) for the runoff coefficient. The iso-pluvial maps of IMD have been used for estimation of catchment yield and peak flood discharge for the study area by various methods like Dickens, Jarvis, and Rational formula at 25, 50 and 100 years return period. The estimation of bed load transport comprises of use of analytical models namely the Meyer Peter and Ackers & White's equation for calculation of bed load transport.

- (iv) The sediment transport analysis was performed using “Sediment Equations, version 4.0” software developed by Department of Natural Resources, Ohio University, USA.
- (v) The annual Bajri/ sand replenishment in mine lease area has been calculated using the Ackers and White equation. It is found that the annual replenishment rate 0.80 million m³ for the studied reach of river Parbati river. It may be mentioned that occurrence of rain in the state of Rajasthan is erratic, unpredictable and comparatively of shorter period.

6. The Consultant M/s HydroGeo Solutions has made certain conclusions and recommendations that the hydrology and sediment transport of semiarid region ephemeral channels cannot be reliably predicted by extrapolation of humid region hydrology. The estimation of sand replenishment is based on empirical and analytical approaches to the problem as discussed and thus mining quantum can be approved for less than 0.80 MCM. The authentic replenishment can only be established in the post-monsoon period of 2018 after actual verification of the ‘replenishment pits’ and river ‘cross sections’ (difference in elevation) already established in the field.

7 The Committee observed that unregulated and unscientific river sand/ bajri/ gravel mining causes degradation of rivers, bank erosion, depletion of sand in the streambed, enlargement of river mouths & coastal inlets, threat to infrastructures like bridges, dams, guide banks etc. It adversely affects the fertility of adjoining agricultural land, groundwater profile & recharging, alters soil & moisture conditions, biodiversity, minimize sub-surface flow and causes channel instability. As these sand deposits are surrounded by agricultural fields, agricultural activity would be adversely affected. The Member Secretary informed that the Ministry had published Sustainable Sand Mining Guidelines in 2016 with an objective of sustainable sand extraction and its overall management including transportation. The guidelines had also emphasized on promotion of manufactured sand, artificial sand and alternative technologies in construction materials and processes through development of slag sand, sand from stone chips and its certification under BIS, so as to reduce the dependence on naturally occurring sand and gravel.

8. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 47thEAC Meeting (Non-Coal Mining) held during 7thto 9thMarch 2022. After detailed deliberations, the Committee observed that earlier the proposal was considered in the 29th EAC Meeting (Non-Coal mining) held during March 22-23, 2018 wherein the Committee recommended the mining of river sand/ bajri up to 25% capacity of the annual proposed production capacity subject to submission of valid LOI. The project proponent then submitted

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that initially, the Letter of Intent was issued from Government of Rajasthan, Kota vide letter no. P.9 (10) Khan/ Gr. – 2/ 2013 dated 03.12.2014 in favour of Mukesh Sharma. The project proponent also submitted the letter dated 21.12.2021, wherein it was mentioned that the Hon'ble Supreme Court in SLP 10587/2019 gave judgement on 11.11.2021 and directed State government to amend Rule 5(4) as per finding of Central Empowered Committee. In compliance of the above mentioned judgement, Rajasthan Government issued a Gazette notification on 16.11.2021 and extended validity of Lol to 68 months from issuance of rule i.e. 1.3.2017. Therefore, as per notification dated 16.11.2021 Lol is valid till 31st October 2022. The same was confirmed by representative of DMG, Rajasthan during the presentation. The Committee also observed that the project proponent has not submitted the authenticated District Survey Report as per Ministry's Notification S.O. 3611(E) dated 25.07. 2018. As per 2018 Notification "The District Survey Report shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects". Therefore, the Committee **deferred** the proposal. The project proponent needs to submit the (i) DSR as per 2018 notification and (ii) Undertaking that only Scrapers shall be used for mining to ensure that the mining depth be maintained as 1.0 meters (max.) from Original Ground Level and No other heavy machinery like bucket excavators, JCB machines etc. shall be used which may adversely impact the aquatic biota on Parivesh Portal for further consideration by EAC.

2.3 The proposal for validity extension of Environmental Clearance for Granite Building Stone Quarry over an area of 9.6118 ha located at Kangazha Village & Panchayath, Chenganassery Taluk, Kottayam District, Kerala by M/s Karimala Granites and Aggregates Pvt. Ltd. – [File No. IA-J-11015/99/2021-IA.II(NCM); Proposal No. IA/KL/MIN/237424/2021; Consultant: SBA Enviro Systems Private Limited] - Validity extension of Environmental Clearance

EAC Meeting Details:

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

The proposal of M/s Karimala Granites and Aggregates Pvt. Ltd. is for grant of validity extension of Environmental Clearance for the Granite Building Stone quarry project in the mine lease area of 9.61.18 Ha located at Kangazha Village, Changanassery Taluk, Kottayam District, Kerala. The mine lease area is located between Latitude 9°30'31.5" N to 9°30'45.91" N and Longitude 76°41'8.1" E to 76°41'18.2" E. The mine lease area falls under the Survey of India Toposheet No. 58C/10 and falls in Seismic Zone III. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. SEIAA, Kerala has been constituted on 3rd March 2022,

however, as per the Ministry's O.M. dated 23rd October 2017, "In cases, the proposal is appraised by the EAC due to non-existence of SEIAA/SEIAC, then irrespective of whether recommended, deferred or additional information sought, it will continue to be appraised and decided at the central level, even if the SEIAA/SEIAC is constituted later on."

2. The project proponent submitted that earlier Environmental Clearance for mine lease area of 9.6118 Ha was obtained from SEIAA, Kerala vide order no. 222/SEIAA/KL/349/2014 dated 29-11-2014 for production of 1500 TPD, with a life of mine 12 years. The validity of EC was 5 years i.e. 28.11.2019. The project proponent had applied for validity extension of Environmental Clearance vide proposal no. IA/KL/MIN/236995/2021 on 03.11.2021. The project proponent submitted that on the basis of Hon'ble High court of Kerala W.P (C) NO. 6649/2020 dated 05/03/2020, EC period for the project is extended for 2 years, i.e, validity till 28/11/2021. Also, on the basis of Hon'ble High court of Kerala W.P (C) NO. 17533/2020 dated 02/11/2020, the life of mine should be considered as the EC validity period.

3. Earlier, the proposal for validity extension of Environmental Clearance was considered in the 42nd EAC meeting held during 30th November to 3rd December, 2021 wherein the proposal was returned in the present form as the project proponent requested for withdrawal of the application as PP applied in form 2 instead of form 6 for validity extension of EC. The project proponent had applied in form 6 and had submitted the EC letter dated 29.11.2014, CTO with validity upto 30.06.2023, certified compliance report duly authenticated by IRO, Bangalore dated 20.09.2021, approved mining plan dated 30.07.2021 and EIA/EMP report for the appraisal of the proposal. The project proponent also submitted the Hon'ble High Court, Kerala order vide WP(C) NO. 3709 OF 2022 dated 14/02/2022. The relevant extract is produced below:

"this writ petition is also disposed of, directing the appropriate authority under the 1st respondent to consider and pass orders on the application submitted by the petitioner for revalidation of Exhibit P1 Environmental Clearance which is referred to in Exhibit P2, on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, which has been certified to confirm with Notification No.S.O.3611(E) dated 25.07.2018. Appropriate steps shall be taken within a period of one month from the date of receipt of a copy of this judgment."

4. The project proponent submitted that the lease order was granted to M/s Karimala Granites and Aggregates Pvt. Ltd. vide letter no. 810/ 2015-16/ 10839/ M3/ 2015 with validity period from 29.03.2016 to 28.03.2026. The PP also submitted that the life of mine as per the previous mining plan is 12 years and 5-year production was taken from the area. Hence 7 Years of life is remaining. However, the life of mine may increase in case of not achieving the targeted mineable production. The project area is accessible by

making use of a 4.0m quarry approach road which connects with changanassery-vazhoor road. The nearest human habitation is 106m from the project site.

5. The project proponent submitted that the total cost of the project is estimated at Rs. 7.96 crores. Manpower required for the project is 42 persons. The working hours at the quarry will be 8 hours/day for 300 days/year. The total water requirement for the proposed mining activity is 16.5 KLD in which 1.5 KLD is for domestic uses, 15 KLD for dust suppression and plantation purposes and will be sourced from tanker water supply on contract basis. The total power requirement will be 75 kW for compressors which will be operated by Diesel Engine. The source of electricity for domestic consumption within the quarry site is from the supply of Kerala State Electricity Board (KSEB).

6. The project proponent submitted that method of mining is opencast semi mechanized mode with a bench system is adopted to work the deposit. The operation is done using excavators, jack hammer drills and tippers etc. It is proposed jack hammer drills for drilling and it is not possible to drill 5 m depth, hence initially it is proposed sub level bench method keeping a sub bench height of 2.5m and at the final stage the sub benches will be merged and final bench will be maintained height of 5 m. The maximum bench height is kept 5.00 m and width 5.00 m at ultimate stage by maintaining 45degree. Since the bench height needs to be maintained 5.0 m, blast hole will be by jack hammer where the diameter is normally 32 mm and the depth of the hole is 2.5 to 2.6 m. Blasting pattern is generally square or staggered with burden ranging from 0.75 to 1.00 meters and spacing of 1.0 to 1.2 meters. Usually single / double row of holes is blasted along free face to achieve optimum powder factor, best fragmentation and minimized adverse impacts on account of blasting. Maximum holes blasted per day are 40 to 50 with normal delay detonators to mitigate adverse impacts such as air blast, throw and the ground vibration. Holes are electrically detonated using electric detonators. Nitrate mixture (Class-2) types of explosives are used for blasting with 20 to 25 percent, proportion of primer/ booster cartridges and rest as column charge. About 2 to 3 kg of explosives are loaded in 32 mm diameter holes. And powder factor ranging between 7 to 8 tons per kg of explosives is achieved. Loading of the building stone blocks will be done mechanically to tippers of 10 tons capacity and transported from the quarry to the stockyard and mineral rejection/waste will also be handled mechanically. In the quarry the road will be maintained with 1 in 16 gradients. Sufficient number of bunds and parapet walls will be made all along the quarry haulage roads wherever necessary in order to maintain safe working conditions by using the waste generated during the course of quarry operations.

7. The project proponent submitted that no forest area within the 10km radius of the project area. No wildlife area or National Park within the 10km radius of the project area. No schedule -I species within or around the lease area.

8. Observation and Recommendation of the Committee:

The proposal for Validity Extension of Environmental Clearance was considered in the 47th EAC Meeting (Non-Coal Mining) held during 7th to 9th March 2022. After the detailed deliberations, the Committee observed that earlier the project proponent had obtained the Environmental Clearance for mine lease area of 9.6118 Ha from SEIAA, Kerala vide order no. 222/SEIAA/KL/349/2014 dated 29.11.2014. The Committee also noted the discrepancies in the mine lease area as the project proponent submitted the scheme of mining plan approval letter dated 30.17.2021 and the EIA/EMP report for 5.2309 Ha. Also, the Member Secretary informed the Committee that the Ministry requested the Administrator, SEIAA, Kerala to send the file of the instant case vide e-mail dated 24.02.2022 for the appraisal of the proposal, however, the file is awaited. The Committee also noted that as per the certified compliance report dated 20.09.2021 by IRO, Bangalore, the mining operation at the site was suspended since November, 2019, however, as per the submission of the project proponent in its ADS reply dated 22.12.2021, the mine has been stopped its operation on 02.11.2020. In view of the above, the Committee **returned the proposal in the present form.**

2.4 The proposal for extension of validity of Environmental Clearance for Granite Building Stone Quarry over an area of 15.3829 ha located at Village: Vallikode-Kottayam, Tehsil: Ranni, District: Pathanamthitta, Kerala by Shri K Sadanandan – [File No. IA-J-11015/100/2021-IA.II(NCM); Proposal No. IA/KL/MIN/237389/2021] - Validity extension of environmental clearance

EAC Meeting Details:

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

The proposal of Mr K Sadanandan is for grant of Environmental Clearance for the quarry project over an area of 15.3829 Ha located at VallicodeKottayam (VKottayam), Konni Taluk, Pathanamthitta, District, Kerala. The mine lease area is located between Latitude 9°12'25.669"N to 9°12'40.546"N and Longitude (E): 76°48'11.079"E to 76°48'33.907"E. The mine lease area falls in Seismic Zone III. The EIA consultant is SBA Enviro Systems Private Limited and accreditation no. of the consultant is NABET/EIA/1720/SA094. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. SEIAA, Kerala has been constituted on 3rd March 2022, however, as per the Ministry's O.M. dated 23rd October 2017, "In cases, the proposal is appraised by the EAC due to non-existence of SEIAA/SEIAC, then irrespective of whether recommended, deferred or additional information sought, it will

continue to be appraised and decided at the central level, even if the SEIAA/SEIAC is constituted later on.”

2. The project proponent submitted that the Environmental Clearance was obtained from SEIAA, Kerala vide order no. 200/SEIAA/EC4/86/2014 dated 10-08-2015 which was valid till 09.08.2020. PP also submitted that on the basis of Hon'ble High court of Kerala W.P (C) NO. 12420 OF 2020, the validity of EC is extended up to 09-08-2022. The application for extension of EC validity till the life of mine is submitted to MoEF&CC vide proposal no. IA/KL/MIN/235031/2021 on 01.11.2021 for targeted annual production of 5,00,000 MTPA. The proposal for validity extension of Environmental Clearance was considered in the 42nd EAC meeting held during 30th November to 3rd December 2021 wherein the proposal was returned in the present form as the project proponent requested for withdrawal of the application as PP applied in form 2 instead of form 6 for validity extension of EC. The project proponent also submitted the Hon'ble High Court, Kerala order vide WP(C) NO. 2856 OF 2022 dated 14/02/2022. The relevant extract is produced below:

“this writ petition is also disposed of, directing the appropriate authority under the 1st respondent to consider and pass orders on the application submitted by the petitioner for revalidation of Exhibit P1 Environmental Clearance which is referred to in Exhibit P2, on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, which has been certified to confirm with Notification No.S.O.3611(E) dated 25.07.2018. Appropriate steps shall be taken within a period of one month from the date of receipt of a copy of this judgment.”

3. The project proponent has submitted that as per the revised mining plan, the life of mine is 20 years (Total 25 years life of mine in which five year executed) and the remaining mineable reserve is 9584590 MT. Since the area of the quarry remains same, the remaining capacity of the mine is 5,00,000 MTA for remaining life of mine from the remaining reserve. PP also submitted that out of 15.3829 Ha, Govt. land is 11.1004 Ha and Private land is 4.2825 Ha. The PP submitted the CTO vide Consent No: ICO/PTA/CR/56/2018, valid up to 30.06.2023, certified compliance report duly certified by IRO, Bangalore vide letter dated 20.10.2021 and the Mining Plan was approved by Dept. of Mines and Geology, Govt. of Kerala vide letter no. 1019/DOPTA/M/2021 dated 05/07/2021.

4. The project proponent submitted that seven quarrying leases and one quarrying permit have been issued from the Department of Mining and Geology w.e.f. 04-08-2003 to 10-02-2021 for the different Sy No's which is included in the area 15.3829Ha. Manpower required for the project is 41 persons. The working hours at the quarry will be

8 hours/day for 300 days/year. The project proponent submitted that project cost is Rs. 500 Lakhs. Total water requirement for the proposed mining activity is 35.3 KLD in which 1.8 KLD is for domestic uses, 32 KLD for dust suppression and 1.5 KLD for plantation purposes. The total power requirement will be 75 kW for compressors which will be operated by Diesel Engine. The source of electricity for domestic consumption within the quarry site is from the supply of Kerala State Electricity Board (KSEB).

5. The project proponent submitted that method of mining is opencast semi mechanized mode with a bench system is adopted to work the deposit. The quarrying is being done by using excavators, jack hammer drills and tippers etc. It is proposed jack hammer drills for drilling and it is not possible to drill 5 m depth, hence initially it is proposed sub level bench method keeping a sub bench height of 2.5 m and at the final stage the sub benches will be merged and final bench will be maintained height of 5 m. The maximum bench height is kept 5.00 m and width 5.00 m at ultimate stage by maintaining 45 degree. Since the bench height needs to be maintained 5.0 m, blast hole will be by jack hammer where the diameter is normally 32 mm and the depth of the hole is 2.5 to 2.6 m. Blasting pattern is generally square or staggered with burden ranging from 0.75 to 1.00 meters and spacing of 1.0 to 1.2 meters. Usually single / double row of holes is blasted along free face to achieve optimum powder factor, best fragmentation and minimized adverse impacts on account of blasting. Maximum holes blasted per day are 40 to 50 with normal delay detonators to mitigate adverse impacts such as air blast, throw and the ground vibration. Holes are electrically detonated using electric detonators. Nitrate mixture (Class-2) types of explosives are used for blasting with 20 to 25 percent, proportion of primer/ booster cartridges and rest as column charge. About 2 to 3 kg of explosives are loaded in 32 mm diameter holes. And powder factor ranging between 7 to 8 tons per kg of explosives is achieved. Loading of the building stone blocks will be done mechanically to tippers of 10 tons capacity and transported from the quarry to the stockyard and mineral rejection/waste will also be handled mechanically. In the quarry the road will be maintained with 1 in 16 gradients. Sufficient number of bunds and parapet walls will be made all along the quarry haulage roads wherever necessary in order to maintain safe working conditions by using the waste generated during the course of quarry operations.

6. Observation and Recommendation of the Committee:

The proposal for Validity Extension of Environmental Clearance was considered in the 47th EAC Meeting (Non-Coal Mining) held during 7th to 9th March 2022. After the detailed deliberations, the Committee observed that earlier the project proponent had obtained the Environmental Clearance from SEIAA, Kerala vide order no. 200/SEIAA/EC4/86/2014 dated 10.08.2015 which is valid upto 09-08-2022. The Committee also noted that Letter of Intent (LOI) vide letter no. 3/2021-22/2766/DOPTO/M/2020 dated 03-04-2021 was valid

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up to 11-02-2022 i.e. LOI is not valid as on date. Also, the Member Secretary informed the Committee that the Ministry has requested the Administrator, SEIAA, Kerala to send the file of the instant case vide e-mail dated 24.02.2022 for the appraisal of the proposal, however, the file is awaited. Therefore, the Committee **returned the proposal in the present form.**

2.5 Proposal for Environmental Clearance for Mudhvay Limestone Mine with the production capacity of 12.18 MTPA (ROM) [4.38 MTPA limestone production, 8.14 MTPA over-burden & 0.36 MTPA inter-burden excluding top-soil] and installation of 1200 TPH Crusher in the mine lease area of 233.5 ha located at Village Mudhvay, Taluka Lakhpat, District Kachchh, Gujarat by M/s Shree Cement limited –[File No. IA-J-11015/23/2018-IA-II(M); Proposal No. IA/GJ/MIN/73109/2018] - Environmental Clearance

EAC Meeting Details:

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

2. Project details:

Name of the Proposal	Proposed Mudhvay Sub-Block 'B' Limestone Mine by Shree Cement Limited with Limestone production capacity of 4.38 Million TPA, Over-burden 8.14 Million TPA, Inter-burden 0.36 Million TPA & Top soil 0.44 Million TPA[Total Excavation-12.88 Million TPA excluding Top soil/ Total Excavation- 13.32 Million TPA including Top soil] and installation of 1200 TPH capacity Crusher within a Mining Lease Area of 233.5 ha	
Location	Village	Mudhvay
	Tehsil/Taluka	Lakhpat
	District	Kachchh
	State / UT	Gujarat
	Latitudes	23° 42' 43.6432" N to 23° 43' 59.9313" N
	Longitudes	68° 41' 11.9388" E to 68° 41' 53.2506" E
	SoI Toposheet No.	F42C9 (41 A/9), F42C10 (41 A/10), F42C13 (41A/13), F42C14 (41 A/14)
Company's Name	Shree Cement Limited	
Accredited Consultant and certificate no.	Vimta Labs Ltd. Certificate No. NABET/EIA/1720/SA 088 Validity: 8 th February, 2022	
KML file	Submitted	
Seismic zone	V	

3. Category details:

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Category of the project	Category “A”, Project or Activity 1(a) – 3 for Mining of Mineral
Provisions	EIA Notification dated 14 th September 2006
Mining lease Area	233.50 ha
Additional information	Narayan Sarovar Wildlife Sanctuary is 3.3 km in South direction and Eco-Sensitive Zone is 2.4 km in South direction from ML area

4. ToR/EC Details:

ToR Proposal No.	IA/GJ/MIN/73109/2018
Online application date for Form-I	20 th February, 2018
ToR Letter No.	J-11015/23/2018-IA.II(M)
ToR grant Date	12 th April, 2018
Production capacity	Production Capacity of 4.38Million TPA
Soil	Topsoil: 0.44Million TPA
Waste	OB: 8.14 Million TPA, IB: 0.36 Million TPA
Total Excavation	Total excavation is 12.88Million TPA excluding Topsoil of 0.44 Million TPA/ Total excavation is 13.32 Million TPA including Topsoil of 0.44 Million TPA
Crusher	1200 TPH
EIA/EMP uploaded on	17 th November, 2021
Previous EAC Meeting	43 rd EAC Meeting held during 14 th to 16 th Dec. 2021

Additional Detail Sought:

The proposal for Environmental Clearance was considered in the 43rd EAC meeting held during 14th to 16th December, 2021. The ADS was generated on 24.12.2021. The project proponent submitted the reply on 11.02.2022 which is as follows:

ADS Point 1: The project proponent needs to submit the revised data for air quality modeling, noise and vibration indicating clearly the sources and the receptors within the mine boundary and the predictive concentration at the mine boundary particularly towards the Narayan Sarovar Wildlife Sanctuary.

Reply: The revised air quality modeling for Mudhvay Limestone mine of Shree Cement Ltd. were carried out with incorporation of additional discrete receptors within the ML area and towards Narayan Sarovar Wildlife Sanctuary for clearly predicting the dispersion of incremental concentration due to the mining activity of proposed mine. Separate scenario has been considered to predict the incremental concentration due to the activity of mines using surface mining technology. The noise modeling has been revised considering all noise generating activity of mines, and the impact on nearby habitations and Narayan Sarovar Wildlife Sanctuary has been predicted. The reference document of Air dispersion

modeling study and Noise dispersion modeling study is submitted with the ADS reply. The Mudhvay mine is a virgin mine with no mining operations. The vibration modeling will be carried out immediately after commencement of mining operations.

ADS Point 2: The project proponent needs to submit the noise and vibration monitoring data due to crusher as well as quarrying including the transportation within the mine lease boundary in the direction of Narayan Sarovar Wildlife Sanctuary.

Reply: SCL Mudhvay mine planned to excavate the over burden by use of surface miner, hydraulic excavator and dumpers. If compact and hard overburden is encountered, controlled blasting will be carried out otherwise overburden will be excavated without use of drilling & blasting and will send to crusher. The noise dispersion model has been carried out due to the activity of various sources like blasting, drilling, haul road movement, shovel, dumpers, dozers, surface miners and crushers. It is observed that the predicted resultant noise levels due to the proposed mining activity at the villages located nearby mine lease area ranges from 51.96 db(A) [including baseline level {48.8 dB(A)} & incremental level {3.16 dB(A)}] at Mudhvay village located at 1.2 km towards SW direction from the core activity zone to 47.85 db(A) [including baseline level {46.4 dB(A)} & incremental level {1.45 dB(A)}] at Malda village located at 2.6 Km towards NE direction from the core zone. Thick patch of greenbelt will be developed for 200m along the southern periphery of the mine lease boundary (as suggested by honourable EAC), which will act as a barrier resulting in low dispersion of noise outside the mine lease area.

The majority of the quarrying operations will carry out in northern side of the ML area. The proposed crusher will be located in the northern corner of the ML area, which is adjacent to the proposed integrated cement plant. Whereas, Narayan Sarovar Wildlife Sanctuary is located further south to ML area. The mined out limestone will be transferred through conveyor belt to the cement plant. There is also consideration of surface miner in place of crusher which further reduces the impact of Noise to a greater extent on nearby villages and the Narayan Sarovar wild life sanctuary when compared with the conventional method of mining technologies that includes Crushing, Screening, Blasting and Drilling. The detailed modeling report is submitted with the ADS reply.

Since, this is proposed greenfield limestone mining project, thus, the monitoring of Vibration due to Blasting & operation of crusher and HEMM's would not be carried out, same will be done while mine will be in operation. However, details of Broad Blasting Parameter are submitted with the ADS reply.

ADS Point 3: The project proponent needs to submit a table containing 3 year breakup for EMP for public hearing concerns indicating the controlled measures suggested with its efficacy for reduction in air and noise emissions. The project

proponent- should also indicate what measures are suggested along with design and cost.

Reply: Environmental Management Plan (EMP) proposed for public hearing concerns indicating the controlled measures suggested for 3 Years along with the budgetary breakup of cost are prepared for reduction of air and noise emissions & impactis submitted with the ADS reply.

ADS Point 4: The project proponent needs to incorporate a study on nocturnal animals in the approved Wildlife Conservation Plan and submit accordingly.

Reply: The study on nocturnal animals has been carried out by the Gujarat Institute of Desert Ecology (GUIDE) and supplementary budgetary provisions for conservation of nocturnal animal (fauna) has been approved by Chief Wildlife Warden, Gujarat vide Letter No.WLP/T.32/C/873-74 dated 28.01.2022.

About Rs. 17.52 Lacs additional budget was estimated for implementation of the nocturnal conservation plan, other than Rs. 109 Lacs Wildlife Conservation Plan budget approved by PCCF vide Letter no.WLP/32/C/298-99/2021-22 dated 16.09.2021 for 4 years.

Copy of the approval letter along with budgetary provisions is submitted with the ADS reply.

5. Lease Details:

Letter of Intent	Letter of Intent was granted vide Letter. No. MCR-102016-2146-CHH dated 21 st June 2017 and further extended the validity of LOI up to 20 th June 2022 vide letter no MCR-102016-2146-CHH dated 18 th June 2020.
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6. Mining plan details:

Mining Plan (approved by Indian Bureau of Mines/DMG)	Mining Plan Approval obtained from Indian Bureau of Mines, Gandhinagar vide letter 684(4)(1)/MP-109/2018-GNR dated 21 st March 2018
Mining Parameters	Quantitative Description
Bench Height	10 m
Bench Width	30 m
Method of Mining	Fully mechanized opencast
Overall pit slope	45°
Drilling/Blasting	The production of mineral involves surface miner, excavation, crushing, loading & transportation activities. No drilling will be conducted for limestone mining. Over burden will also be excavated by Hydraulic excavator without use of drilling & blasting. However, if required, drilling & blasting will be done, if compact & hard over

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	burden is encountered which cannot be excavated without blasting.
RoM output size	-90 mm
Life of mine	64 years
Transportation details	It is proposed to load limestone by wheel loader into the dumper and dumper will transport it to impact crusher of 1200 TPH. Crushed limestone will be sent to the proposed adjacent cement plant by covered conveyor belt. The material will be dispatched to the stock piles located within proposed cement plant premises, through the covered belt conveyor.
Dumpers capacity	55 tonner

7. Land Area Breakup:

Private land	90.50 ha is private agriculture land (Santhani land).
Government land	143 ha
Total Mining lease area (MLA)	233.50 ha

8. Nearest village / town/ highway/railway station / water bodies

Particulars	Particular's Name	Distance & Directions
Nearest village	Mudhvay village	0.5 km, SSW
Nearest town	SK Verma Nagar	3.6 km, SSE
Nearest highway	GJ SH-6 (Lakhpat - Tithal) GJ SH-42 (Lakhpat - Bhachau) NH-8A (Naliya-Narayan Sarovar Road)	2.3 km, W 11.3 km, E 14.3 km, SW
Nearest railway station	Naliya railway station	54 km, S
Water bodies	1. Koriyani dam 2. MudhvayNala 3. Kali Nadi 4. KapurasiNadi 5. Godhatad Dam 6. Kori Creek 7. Arabian sea	1.2 km, SW 2.0 km, SW 4.1 km, NE 4.3 km, W 5.0 km, SSW 4.7 km, NW 28.0 km, SW

9. Water requirement

Total water requirement	150 KLD @ TDS of 300 ppm
Source	Ground water and mine pit including dewatering within the ML area
Permission	CGWA application is submitted vide Letter No. 21-4/7457/GJ/MIN/2021 Dtd. 31 st May 2021

10. Presence of Environmentally Sensitive areas in the study area

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter/Remarks
Forest Land	Mudhvay RF is 0.1 km, S	Not applicable
National Park	Nil within 10 km radius	
Wildlife Sanctuary	Core zone of Narayan Sarovar Wildlife Sanctuary is 3.3 km in South direction and Eco-Sensitive Zone is 2.4 km in South direction from ML area	

Schedule-1 species	Yes/No	Details of Certificate/letter/Remarks
Schedule-I species	Yes	One Mammal i.e. Chinkara (<i>Gazellabennettii</i>), one Reptile i.e. Monitor Lizard (<i>Varanus bengalensis</i>) and two bird i.e. Indian Peafowl (<i>Pavocristatus</i>) and Eurasian spoonbill (<i>Platalealeucorodia</i>)
Wildlife Conservation Plan		A detailed environment management and conservation plan is approved by Principal Chief Conservator of Forests (PCCF) vide Letter no.WLP/32/C/298-99/2021-22 dated: 18th September 2021 and about Rs.109 Lakhs of budget is allocated for 4 years. A supplementary plan for Wildlife Conservation activities for nocturnal animal is approved by Principal Chief Conservator of Forests (PCCF) vide Letter no. WLP/T.32/C/873-74/2021-22 dated 28.01.2022 and about Rs. 17.52 Lakhs of budget is allocated for 3 years

11. Greenbelt&plantationdetails:

Proposed area for greenbelt &plantation	173.8 ha
Budget for green plant& plantation till the end of life of mine.	Capital Rs. 117.32 Lakhs and recurring Rs. 11 Lakhs per annum
Budget for nursery	
Particulars for Greenbelt&plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	Total greenbelt will be 18.80 ha including 14.00 ha will be developed as 200 safety zone plantation in southern part of mine lease
50 m safety zone of nallah, roads, electric lines	
500 m safety zones of nearest habitation villages	

	towards Narayan Sarovar Wildlife Sanctuary
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12. Baseline details

Baseline Data (Air / Water / Noise / Soil / Ground water table/ others)	
Period of baseline data collection	Winter Season (1 st December 2019 to 29 th February 2020)
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter Season

Ambient Air Quality Results

a.	No. of Ambient Air Quality (AAQ) Monitoring Locations	12				
b.	Details of AAQ Monitoring					
	Criteria Pollutants	Unit	Minimum Value	Maximum Value	98th Percentile Value	Prescribed Standard
	PM ₁₀	µg/m ³	34.5	57.7	57.1	100
	PM _{2.5}	µg/m ³	14.9	29.5	29.5	60
	SO ₂	µg/m ³	12.5	20.7	20.6	80
	NO ₂	µg/m ³	16.5	30.2	29.4	80
	CO	µg/m ³	146	344	327	2000
	O ₃	µg/m ³	5.0	16.8	15.8	100
	NH ₃	µg/m ³	<20.0		<20.0	400
	Pb	µg/m ³	<0.1		<0.1	1.0
	BaP	ng/m ³	<0.1		<0.1	1.0
	As	ng/m ³	<1.0		<1.0	6.0
	Ni	ng/m ³	<1.0		<1.0	20
	C ₆ H ₆	µg/m ³	<1.0		<1.0	5
	- Criteria Pollutants: - (PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , other parameters specific to sector) - Unit:-(Micro Gram per Meter Cube, Nano Gram per Meter Cube, Mili Gram per Meter Cube, NA)					

Water Quality Analysis Results

a.	No. of Ground Water Monitoring Locations	3 Locations				
b.	Details of Ground Water Monitoring					
	Criteria Pollutants: - (pH, TSS, TDS, Total Hardness, Chlorides, Fluoride, Heavy Metals, other parameters specific to the sector)					
	Criteria Pollutants	Unit	Maximum Value	Minimum Value	98 Percentile Value	Prescribed Standard
	pH	-	7.67	7.31	-	6.5 – 8.5 (NR)
	TDS	mg/l	1760	598	-	500 (2000)
	Total Hardness	mg/l	598.8	293.6	-	200 (600)
	Chlorides	mg/l	648.6	167.5	-	250 (1000)

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Fluoride	mg/l	0.7	1.0	-	1.0 (1.5)
- Unit: - (mg/l, NA)					

a.	No. of Surface Water Monitoring Locations	6 Locations			
b.	Details of Surface Water Monitoring				
- Parameter: - (pH, DO, BOD, COD, other parameters specific to the sector)					
- Unit: - (mg/l, NA)					
Criteria Pollutants	Unit	Maximum Value	Minimum Value	Classification of inland water body (ISO10500)	
pH	-	7.81	7.08	B	
DO	mg/l	5.9	5.1	B	
BOD	mg/l	<3	<3	B	
COD	mg/l	90	10		
EC	µg/S	70201	1095		

Ground Water Table	
i	Range of Water Table Pre-Monsoon Season (Meters Below Ground Level (m bgl)):
	From 12 mbgl
	To 14 mbgl
ii	Range of Water Table Post-Monsoon Season (Meters Below Ground Level (m bgl)):
	From 10 mbgl
	To 12 mbgl
iii	Whether Ground Water Intersection will be there (Yes / No)?
	Yes. Application of CGWA permission for groundwater withdrawal was submitted on 31 st May 2021 vide application no. 21-4/7457/GJ/MIN/2021 and same is under process.

Noise Monitoring Observations

a.	No. of Ambient Noise Monitoring Locations	12 Locations		
b.	Details of Noise Monitoring (<i>Multiple Entries Allowed</i>)			
Parameter	Unit	Maximum Value	Minimum Value	Prescribed Standard
L _{day}	dB(A)	52.8	41.9	55
L _{night}	dB(A)	48.5	38.3	45
- Parameter: - (Leq(Day), Leq(Night))				
- Unit :- (A-weighted decibels (dB(A)))				

Soil Characteristics

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a.	No. of Soil Monitoring Locations (<i>Multiple Entries Allowed</i>)		8 Locations	
	Parameter	Unit	Maximum Value	Minimum Value
	pH	-	8.3	7.3
	Nitrogen	kg/ha	127.6	40.7
	Phosphorus	kg/ha	290.8	46.4
	Potassium	kg/ha	162.8	42.1
	Electric Conductivity	μS/cm	534	110
- Parameter :- pH, N(Nitrogen), P(Phosphorus), K(Potassium)				

13. Public Hearing Details:

Advertisement for PH with date	25.07.2021
Date of PH	01.09.2021
Venue	MotiMudhvay, common plot, besides primary school, Mudhvay village, Koriyani Post, Lakhpat Tehsil, Kachchh, Gujarat
Chaired by	Additional District Magistrate
Main issues raised during PH	Major issues raised in the PH are for provision for Agriculture & Compensation of land losers, Animal husbandry, employment, Skill development, health, education, Community Welfare & Infrastructure Development, drinking water and plantation etc.
Budget proposed for addressing issues raised during PH	Out of the total capital cost (Rs. 247.5 Crores) of the project, Rs. 495.00 Lakhs has been earmarked towards activities as per the Compliance of issues raised during public hearing as environmental, socio-economic management plan for three years based on local needs.

14. Court case details:

Court Case	No court case is pending against the project
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15. Details of the EMP:

Mudhvay Sub block- "B" Limestone Mine (ML Area: 233.5 ha.)			
A	Air Quality Monitoring and Management		
	Mitigative Measures	Capital (Rs. Lakhs)	Annual Recurring Cost (Rs. Lakhs)
1	Water tanker for water sprinkling on haul roads and mining areas/activities.	40	5

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2	Operation & Maintenance of Motor Grader & Soil Compactor for haul road maintenance	15	3
3	Pollution Control Device (Bag filter at Crusher) Equipment and its installation Cost, Operation & Maintenance	50	2.5
	Sub Total	105	10.5
Monitoring			
1	CAAQM Stations (2 online each 35 Lakhs)	70	7
2	2 Ambient Air Quality Monitoring Stations at Mine Site and Mine Crusher Site (2 Nos. RDS & FPS @ Rs. 2.0 Lacs each)	4	1
3	Fugitive dust emission monitoring (2 Nos. HVS @ Rs. 1.0 Lacs)	1	0.6
	Sub Total	75	8.6
B	Water Quality Monitoring and Management (Rain Water Harvesting in ML Area)		
Mitigative Measures			
1	Garland Drain around waste dump (L*W*D = 800 m x 1 m x 1 m & 250 m x 1 m x 1 m and 450 m x 1 m x 1 m)	4.84	0.24
2	Retaining Wall around waste dump (L*W*D = 800 m x 1 m x 1 m & 100 m x 1 m x 1 m and 200 m x 1 m x 1 m)	32.28	0.32
3	Construction of Protective Bunds along the water reservoir	5	0.1
	Sub Total	42.12	0.6648
Monitoring			
1	Installation of 2 Piezometers along the periphery in the premises	2	0.2
2	Ground water quality analysis (1 locations * 4 times in a year)	-	0.2
3	Workshop Waste Water Quality Analysis (monthly) as well as maintenance of oil-water separators	1	0.65
	Sub Total	3	1.05
C	Noise and Vibration Monitoring and Management		
Mitigative Measures			
1	Procurement of one Blast Vibration Measuring Instrument	5	-
	Sub Total	5	-
Monitoring			
1	Peak Particle Velocity Monitoring for nearest habitation i.e. Mudhvay, Koriyani&Maldo Villages	-	1
2	Ambient Noise Monitoring (4 locations * monthly frequency)	0.5	0.2
3	Work Place Noise Level Monitoring (4 Locations * quarterly frequency)	-	0.1

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5	Providing Ear muffs/plus to workers working in high noise area	0.5	0.05
Sub Total		1	1.35
E	Occupational Health Camps for Employee and Mine Worker	10	1
Sub Total		10	1
F	Skill Development & Vocation Training for Employee & mine worker	10	0.5
Sub Total		10	0.5
G	Greenbelt and Plantation Development		
1	Plantation on backfilled area of 155 ha with total 2,32,500 saplings from 6 th year onwards upto the life of mine @ 1500 plants per ha	104.63	10.0
2	7.5 meter Greenbelt along the mine lease periphery (4.8 ha.) and 200 meter safety zone (14.0 ha.) covering total area of 18.8 ha from 1 st to 5 th year @ 1500 plants per ha with total saplings of 28,200	12.69	1
Sub Total		117.32	11
Grand Total (A+B+C+D+E+F+G)		368.44	34.66

16. Details of project cost and employment:

Particulars	Budget (Rs. In Crore)
Capital Cost for Environment Protection	3.684
Budget for addressing the Public Hearing issues	4.95
Total Cost for EMP	8.634
Recurring Cost for EMP	0.3466
Project Cost	247.5
Employment	46 nos.

17. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 47thEAC Meeting (Non-Coal Mining) held during 7thto 9thMarch 2022. After detailed presentation by the Project proponent and the Consultant, the Committee **recommended** the proposal for grant of Environmental Clearance forMudhvay Limestone Mine with the production capacity of 12.18 MTPA (ROM) [4.38 MTPA limestone production, 8.14 MTPA over-burden & 0.36 MTPA inter- burden excluding top-soil] and installation of 1200 TPH Crusher in the mine lease area of 233.5 ha located at Village Mudhvay, Taluka Lakhpat, District Kachchh, Gujarat of M/s Shree Cement limitedsubject to the compliance of following Specific conditions in addition to all Standard conditions applicable for non-coal mining projects:

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- (i) The Environmental Clearance (EC) will be functional only after the execution of mine lease deed.
- (ii) The project proponent had already agreed that 200 m from the southern boundary towards North which is nearest to the Eco Sensitive Zone of Narayan Sarovar Wildlife Sanctuary will be treated as non-mining zone and will cover the area/boundary with greenbelt using diverse species for eco value addition. The project proponent shall ensure the compliance of the mentioned condition.
- (iii) The project proponent shall install sensors for vibration and noise on the south and south east boundaries of the mine lease area to record noise and vibration during blasting, drilling and operations of crushers, surface miners, loaders and dumpers. It should be ensured that noise levels and levels of vibration must not exceed the prescribed standards.
- (iv) The EMP budget for addressing public hearing concerns should be reviewed annually and a report on targets achieved and expenditure completed shall be submitted to the Ministry annually. The EMP budget also should include plantation in nearby villages, 200 m plantation on the safety zone, and creation of RWH structures as well as air and water pollution control measures.
- (v) The project proponent shall ensure the mining operations for only two shifts due to the presence of Narayan Sarovar Wildlife Sanctuary in the vicinity of the mine lease area.
- (vi) The Project Proponent shall carry out the plantation with the survival rate of not less than 90% by planting 10 ft seedlings. Casualties should be replaced with new saplings every year and be counted separately other than the total proposed saplings. PP shall complete the peripheral plantation within 6 months from the start of mining operations. The data for such saplings should be furnished during six monthly compliance report along with the progressive plantation.
- (vii) The Project Proponent should explore the possibility of using CNG/electric vehicles instead of Diesel for cleaner production options to reduce the emission.
- (viii) The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on Silicosis shall be carried through regular occupational health check-up every year for mine workers.

- (ix) The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly.
- (x) The Project Proponent shall strictly follow the mitigation measures provided in MoEF&CC Office Memorandum No. Z-11013/57/2014-IA.II(M), dated 29th October, 2014.
- (xi) The Project Proponent should install the continuous ambient air quality monitoring stations in such numbers as per the scientific study and in consultation with CPCB.

2.6 The proposal for Environmental Clearance for the Building Stone Minor Mineral Mining (Quarry) project over an area of 4.811 ha of M/s Delta Rock Products located at survey no. 82, 76 & 1 at Kottur Village, Koyilandi Taluk, Kozhikode District, Kerala – [File No. IA-J-11015/97/2021-IA.II(NCM); Proposal No. IA/KL/MIN/236915/2021] - Environmental Clearance

EAC Meeting Details:

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

The proposal of M/s Delta Rock Products is for grant of Environmental Clearance for proposed Building Stone Minor Mineral Mining (Quarry) project over an area of 4.811 ha located at survey no. 82, 76 & 1 at Kottur Village, Koyilandi Taluk, Kozhikode District, Kerala. The mine lease area is located between Latitude 11°30'25.539" to 11°30'15.501"N and Longitude 75°48'27.131" to 75°48'05.525"E. The mine lease area falls under the Survey of India Toposheet No. C43D14 and falls in Seismic Zone III. The project proponent submitted that application has been submitted by the project proponent independently. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. SEIAA, Kerala has been constituted on 3rd March 2022, however, as per the Ministry's O.M. dated 23rd October 2017, "In cases, the proposal is appraised by the EAC due to non-existence of SEIAA/SEIAC, then irrespective of whether recommended, deferred or additional information sought, it will

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continue to be appraised and decided at the central level, even if the SEIAA/SEIAC is constituted later on.”

2. The project proponent submitted the application for obtaining Environmental Clearance vide proposal no. IA/KL/MIN/236915/2021 on 02.11.2021. The project proponent had submitted form 1, form 2, PFR, EMP, Approved Mining Plan and DSR as per 2016 Notification for the appraisal of the proposal. Earlier, the proposal for Environmental Clearance was considered in the 42nd EAC meeting held during 30th November to 3rd December, 2021. After detailed deliberations, the committee noted that the project proponent did not submit the authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018. As per 2018 Notification "The District Survey Report shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects". Therefore, the Committee deferred the proposal. The project proponent submitted the reply on 15.02.2022 along with the Hon'ble High Court, Kerala order vide WP(C) NO. 4878 OF 2022 dated 14/02/2022. The relevant extract is produced below:

“this writ petition is also disposed of, directing the 2nd respondent to consider and pass orders on the application submitted by the petitioner for Environmental Clearance which is referred to in Exhibit P2, on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, which has been certified to confirm with Notification No.S.O.3611(E) dated 25.07.2018. Appropriate steps shall be taken within a period of one month from the date of receipt of a copy of this judgment.”

3. The Ministry has received a letter dated 20.06.2019 from District Collector, Kozhikode regarding the objection against the instant project since the agitating people had a lot of apprehensions about the adverse impacts on the ecologically fragile area. Similarly, complaints have been received by centre for water resources vide letter dated 16.07.2018 and an objection application has been filed vide letter dated 22.02.2022 by a nearby resident.

4. The project proponent submitted that total excavation will be 28,63,565 MT (Mineable Reserve), annual production will be 2,88,847MT and total top soil production will be 39,104 MT. The project proponent submitted that the Letter of Intent (LOI) vide letter no. 7922/M3/2017 dated 20.09.2017 for the project was issued by Mining & Geology Department, Govt. of Kerala. The Mining Plan was prepared by approved Recognized Qualified Person (RQP) and is approved vide letter no. DOZ/M-1808/17 dated 26.09.2021 by Mining & Geology Department, Govt. of Kerala. This Mining plan is based on the requirements under the Kerala Minor Mineral Concession Rules, 2015. As per the approved mining plan, the maximum targeted annual production of proposed mine will be

2, 88,847 MT. The method of mining will be opencast with 5 m bench height and 5 m bench width. Individual bench slope will be 72° and overall pit slope will be 45°. Multiple blast holes of 1.5 to 2.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity. About 12 years is the life of mine. About 64 trips of 15 T capacity tipper / dump will be utilized for transporting the mineral on daily basis. The total water requirement is about 25 KLD, out of which 4 KLD will be for domestic purpose, 12 KLD for dust suppression and 8 KLD for plantation purpose. The source for water consumption will be open well & stored rain water in pond.

5. The project proponent submitted that Malabar Wildlife Sanctuary is present 8.0 km away from the mine site in East direction. The proposed area for green belt/plantation is 0.840ha. The year wise programme of eco-restoration for the life of mine, about 4000 trees will be planted in an area of 3.9711ha.

6. The project proponent submitted that total Cost for EMP is Rs. 1.23Crore and recurring cost for EMP is Rs. 0.43 Crore. The estimated project cost is Rs. 2.2 Crores. The proposed project is in Private owned land. The employment generation will be 45 persons.

7. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 47th EAC meeting held during 7th to 9th March 2022. After detailed deliberations, the Committee noted that the Ministry had received a letter dated 20.06.2019 from District Collector, Khozikode regarding the objection against the instant project since the agitating people had a lot of apprehensions about the adverse impacts on the ecologically fragile area. Similarly, complaints were received by the Centre for Water Resources Development and Management, Khozikode vide letter dated 16.07.2018 and an application was filed vide letter dated 22.02.2022 by a nearby resident imposing the strong objection against the instant project. The Committee also noted that a site visit was conducted by seven member joint committee of experts of SEAC conducted on 23rd July, 2021, wherein the site visit report was not satisfactory. The project proponent submitted that the instant case is a Greenfield project in the application of Environmental Clearance; however, as per the objection letter dated 22.02.2022 shows that the mine is in operation. Also, the Member Secretary informed the Committee that the Ministry requested the Administrator, SEIAA, Kerala to send the file of the instant case vide e-mail dated 24.02.2022 for the appraisal of the proposal, however, the file is awaited. In view of the above, the Committee **returned the proposal in the present form.**

DAY 3: 9th March 2022 (Wednesday)

3.1 Proposal for Validity Extension of Environmental Clearance for Granite Building Stone Quarry of Shri HabeebuRahiman for an area of 2.9110 ha situated at Survey no. 78/2A pt of Kumaranellur Village, Kozhikode Taluk, Kozhikode District, Kerala – [File No. IA-J-11015/88/2021-IA-II(NCM); Proposal No. IA/KL/MIN/232752/2021] - Validity Extension of EC

EAC Meeting Details:

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

The proposal of Shri HabeebuRahimanis for grant of Validity Extension of Environmental Clearance for Granite Building Stone Quarry for an area of 2.9110 ha situated at Survey no. 78/2A pt of Kumaranellur Village, Kozhikode Taluk, Kozhikode District, Kerala. The mine lease area is located between Latitude 11°18'27.64"N to 11°18'34.38"N and Longitude 76°1'33.08"E to 76°1'43.05"E. The mine lease area falls in Seismic Zone III. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. SEIAA, Kerala has been constituted on 3rd March 2022, however, as per the Ministry's O.M. dated 23rd October 2017, "In cases, the proposal is appraised by the EAC due to non-existence of SEIAA/SEIAC, then irrespective of whether recommended, deferred or additional information sought, it will continue to be appraised and decided at the central level, even if the SEIAA/SEIAC is constituted later on."

2. The project proponent had made an online application vide proposal no: IA/KL/MIN/232752/2021 dated 04.12.2021 for validity extension of EC vide letter no. 646/EC4/4942/2014/SEIAA dated 03/02/2016 which was obtained for 2.9563 Ha and was valid till 02/02/2021 (as per letter uploaded on PARIVESH portal). The proposal was earlier considered in 41st EAC held during 15th– 16th November and 18th November, 2021. The extract of the minutes of 41st EAC meeting is as follows: 'After detailed deliberations, the Committee observed the mining activities outside the mine lease area through KML file. The Committee also noted that the Environmental Clearance vide letter no. 646/EC4/4942/2014/SEIAA dated 03/02/2016 was valid till 02/02/2021. The project proponent submitted that the validity of EC is now till 02/02/2022 as per Ministry's Notification S.O. 221(E) dated 18th January, 2021. The relevant extract of the notification is as follows: "Notwithstanding anything contained in this notification, the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus(COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as

valid". The Committee also observed that plantation was unsatisfactory. Therefore, the Committee deferred the proposal due to want of following information: (a) the project proponent needs to submit the letter from DMG that there are no mining activities outside the mine lease area. (b) The project proponent needs to submit an action plan showing how to comply with the plantation requirement. (c) The project proponent needs to submit the past production details financial year wise duly certified by the concerned authority.' The proposal for Validity Extension of Environmental Clearance was again considered in the 44th EAC meeting held during 28th– 29th December, 2021. The Committee observed that the ADS reply was not available/ accessible on the Parivesh portal. The Committee was of the view that the project proponent shall upload the ADS reply as well as all the relevant documents for validity extension of Environmental Clearance on Parivesh portal for further appraisal. The Committee advised the Ministry to get the complete file of the instant proposal from State Authority for detailed examination. Therefore, the Committee deferred the proposal. The project proponent uploaded the ADS reply letter dated 03.12.2021 on Parivesh portal on 08.01.2022.

3. The project proponent submitted that the total excavation is 398960 MT (building stone: 56994.3 MTA, soil: 8488.9 cum and waste 3638.1cum. The LOI was granted vide letter no. 131/2016-17 dated 21/03/2016 and is valid till 20/03/2028. The PP submitted the approved mining plan dated 27/02/2020 which will be valid till 01/07/2024. The mine lease area of 2.9110 ha is a private land.

4. The method of mining will be opencast semi-mechanized with 5 m bench height and 5 m bench width. Individual bench slope will be 45^o and overall pit slope will be 45^o. About 12 years is the life of mine. 15 T capacity tipper / dump will be utilized for transporting the mineral on daily basis. The total water requirement is about 16 KLD. The proposed area for green belt/plantation is 0.6394 Ha. Budget for green plant & plantation till the end of life of mine is Rs. 3, 50,000. The project proponent submitted the certified compliance report vide letter no. EP/12.1/2015-16/18/SEIAA/KER/1144 dated 29/01/2021 and certified past production details of 165591.288 MT vide letter no. DOZ/M-1405/2021 dated 23.07.2021.

5. The project proponent submitted that the recurring cost for EMP is Rs. 5, 50,000. The project cost is 150 Lakhs and 15 persons are employed.

6. Observation and Recommendation of the Committee:

The proposal for Validity Extension of Environmental Clearance was considered in the 47th EAC meeting held during 7th to 9th March 2022. After detailed deliberations, the Committee noted that the project proponent submitted the application for extension

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validity of Environmental Clearance for 2.9110 Ha of mine lease area, however, the EC letter dated 03.02.2016 was obtained by SEIAA, Kerala for 2.9563 Ha. Also, the Member Secretary informed the Committee that the Ministry requested the Administrator, SEIAA, Kerala to send the file of the instant case vide e-mail dated 24.02.2022 for the appraisal of the proposal, however, the file is awaited. The Committee was of the view that the amendment of Environmental Clearance dated 03.02.2016 is required for the correction of the mine lease area. Therefore, the Committee **returned the proposal in the present form.**

3.2 Proposal for Environmental Clearance of Building Stone Minor Mineral (Quarry) project of M/s Mattathil Mines and Developers (P) Ltd. for an area of 3.9149 hectares with production capacity of 1,35,000 MTA located at Re-Survey Nos. 898, 899/1, 899/2, 896/1, 896/2, 897/1 at Kodassery Village, Chalakudy Taluk, Thrissur District, Kerala – [File No. IA-J-11015/83/2021-IA-II(NCM); Proposal No. IA/KL/MIN/232046/2019] - Environmental Clearance

EAC Meeting Details:

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

The proposal of M/s Mattathil Mines and Developers (P) Ltd. is for grant of Environmental Clearance for Building Stone Minor Mineral (Quarry) project for an area of 3.9149 hectares located at Re-Survey Nos. 898, 899/1, 899/2, 896/1, 896/2, 897/1 at Kodassery Village, Chalakudy Taluk, Thrissur District, Kerala. The mine lease area is located between Latitude 10°20'56.63" to 10°21'1.93" N and Longitude 76°23'21.20" to 76°23'28.45" E. The mine lease area falls in C43K07 (Old No. 58B/7) toposheet and Seismic Zone III. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. SEIAA, Kerala has been constituted on 3rd March 2022, however, as per the Ministry's O.M. dated 23rd October 2017, "In cases, the proposal is appraised by the EAC due to non-existence of SEIAA/SEIAC, then irrespective of whether recommended, deferred or additional information sought, it will continue to be appraised and decided at the central level, even if the SEIAA/SEIAC is constituted later on."

2. Tenure of SEIAA/SEAC, Kerala got completed on 18.09.2021 due to which the project proponent made an online application vide proposal no: IA/KL/MIN/232046/2019 dated 30.09.2021 for Environmental Clearance. The PP submitted the Form 1, PFR, EMP, Approved Mining Plan and DSR (November, 2016) for the appraisal of the proposal. Earlier, the proposal for Environmental Clearance was considered in the 41st EAC meeting held during 15th – 16th November and 18th November, 2021. After detailed

deliberations, the Committee noted that the project proponent has not submitted the authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018. As per 2018 Notification "The District Survey Report shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects". Therefore, the Committee deferred the proposal. The project proponent submitted the reply on 15.02.2022. The project proponent submitted the Hon'ble High Court, Kerala order vide WP(C) NO. 4867 OF 2022 dated 14/02/2022. The relevant extract is produced below:

"this writ petition is also disposed of, directing the 2nd respondent to consider and pass orders on the application submitted by the petitioner for Environmental Clearance which is referred to in Exhibit P2, on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, which has been certified to confirm with Notification No.S.O.3611(E) dated 25.07.2018. Appropriate steps shall be taken within a period of one month from the date of receipt of a copy of this judgment."

3. The project proponent submitted that the total excavation will be 11,79,890 MT wherein maximum production capacity of building stone will be 1,35,000 MTA, top soil production will be 25,055 cu.m and O.B. will be 15,660 cu.m. The PP submitted the EIA/EMP report on 30.09.2021. The project proponent submitted that LOI was obtained vide letter no. 4491/M3/2019 dated 22.05.2019 and extension of LOI vide letter dated 07.02.2022. The mining plan was approved vide letter no. 1758/C2/TDO/2019 dated 15-07-2019 for a period of 10 years.

4. The project proponent submitted that the method of mining will be opencast with Multiple blast holes of 1.5 to 2.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity. The controlled blasting through "NONEL" blasting technique using Nitrate Mixture as explosive is proposed by adopting all the safety measures. Bench height will be 5 m and bench width will be 5 m. Individual bench slope will be 72^o and overall pit slope will be 45^o. About 10 years is the life of mine. Vehicles will be engaged for transfer of mined out material and about 4-5 trips of 15 T capacity tipper / dump will be utilized for transporting the mineral on per hour basis. The mine lease area of 3.9149 Ha is the private land.

5. The project proponent submitted that Anapantham Forest is present 4 Km away in NE direction. Water requirement is 20 KLD out of which 4 KLD is for domestic purposes, 10 KLD for dust suppression in mine and 6 KLD for plantation purposes. Source of water requirement is open well & stored rain water in pond.

6. The project proponent submitted that the proposed mine lease area is 3.9149 ha and there is no working quarry located within 500m radius from the mine lease boundary currently and hence the total mine lease area is 3.9149 ha, which is less than 5 ha. Since the total mine lease area which is less than 5 ha and therefore as per the Office Memorandum vide No. L-11011/175/2018-IA-II(M) dated 12/12/2018 by Ministry of Environment Forest & Climate Change (MoEF&CC) for mine lease area of less than 5 hectares, EIA/EMP and public consultation is not required.

7. Details of EMP:

Sr. No.	Description	Item	Capital Cost	Recurring Cost	Remarks
			(Rs. In Lakhs)		
1.	Air Pollution	Personnel Protective Equipments (PPE) to mine workers	12	4	Safety shoe twice in a year, helmets once in three years and hand gloves (daily), ear plugs, safety goggles
		Uniform for mine workers	0.8	0.4	Issued six monthly
		Blast mats	1.6	0.8	As and when needed (L/S)
		Wetting of roads (paved and unpaved) and sprinkler system	2.0	1.0	Water tanker cost @one tanker per day for 300 days.
		Plantation on road side-3m interval and buffer zone – 3m interval plus maintenance	2.0	1.0	Re-plant the non-surviving plants, watering and protection from animals.
		Regular cleaning of paved roads,	2.0	2.0	Two workers daily
		Construction of speed controllers	0.60	0.20	Construction cost of speed breakers
		Asphalting of roads and its maintenance	20.0	2.0	-
Sub-Total			41.00	11.40	
2	Noise & vibration Pollution	Maintenance of machinery suitably	2.0	1.0	Included in maintenance cost

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		PPE's like Ear muffs	4.0	2.0	Once in six months
		Acoustic enclosure for DG set	6.0	1.0	-
		Blasting siren and notice boards	2.0	0.2	-
Sub-Total			14.00	4.20	
3	Water Pollution	Construction of garland drains with intermittent siltation traps (storm water management)	6.0	1.5	Once only for the lease period /life of mine.
		De-silting operations	1.8	0.6	Yearly and manual operation
		Construction of ponds (rain water harvesting)	3.0	1.5	Once in year, cost incurred is to buy sand bags and filling sand and de-siltation
		Construction of retaining wall for waste dump in slope side	3.0	1.2	Cost of construction of wall around the dip side of the dump.
Sub Total			13.80	4.80	
4	Occupational Safety and Health	First aid kits – 4 nos. Fire extinguishers-4 nos.	2.0	1.0	Once in year, replace by conducting periodically check-up
		Training and awareness programs on risk factors during emergencies by the experts.	4.0	6.0	Once in six months and create sign boards about the risk and safety precaution regularly.
		Periodical medical check-up and supply of medicines	8.0	8.0	Once in a year and supply of medicines for every three months.
Sub Total			14.0	15.0	

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5	Ecological Environment	<u>PART-1</u> <ul style="list-style-type: none"> • Green Area development in buffer of mine lease area. • Saplings of trees in mine lease area will be transplanted to land outside mine lease area owned by PP. • Development of medicinal garden own land outside mine lease area owned by PP. 	20.0	5.0	Rs. 1,100 x 1,700 trees = Rs. 18.70 lakhs (1000 trees as compensatory trees + proposed 700 trees)
		<u>PART-2</u> <ul style="list-style-type: none"> • Eco-restoration through planting of trees, shrubs, herbs in mine lease area during mine closure. 	-	-	
Sub Total			20.00	5.00	
6	Environmental monitoring	Ambient Air Quality study	-	0.48	Will be done through MoEF&CC / NABL recognized laboratories (ambient air, noise, soil & water) & by approved experts of Accredited environmental consultancy organization (Hydrogeology, Ecological & Socio-economic assessment).
		Noise and vibration studies	-	0.942	
		Soil studies	-	0.10	
		Water quality studies	-	0.32	
		Hydrogeology	-	0.10	
		Ecology assessment	-	0.25	
		Socio-economic assessment	-	0.20	
Sub Total			-	2.392	
GRAND TOTAL			102.80 Say 103	42.792 Say 43	

8. The project proponent submitted that the total cost of EMP is Rs1.03 Crore and recurring cost of EMP is Rs. 0.43 Crore. The total project cost is Rs. 4.30 Crores and manpower requirement is 28 persons.

9. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 47th EAC meeting held during 7th to 9th March 2022. After the detailed deliberations, the Committee **recommended** the proposal for Environmental Clearance of Building Stone Minor Mineral (Quarry) project of M/s Mattathil Mines and Developers (P) Ltd. for an area of 3.9149 hectares with production capacity of 1,35,000 MTA located at Re-Survey Nos. 898, 899/1, 899/2, 896/1, 896/2, 897/1 at Kodassery Village, Chalakudy Taluk, Thrissur District, Kerala subject to the compliance of following Specific conditions in addition to all Standard conditions applicable for non-coal mining projects:

- (i) The project proponent shall continue to monitor the air quality, noise quality at the edge of the mine in all the directions besides specific station in the direction of village and submit the 6 monthly report to the IRO.
- (ii) The project proponent shall ensure the compliance of necessary measures to be taken for the transportation of the mineral to crusher which is outside the lease area such as plantation along the road and suppression of the dust.
- (iii) The restoration plan submitted has to be augmentation by using scientific methods as suggested by the expert members.
- (iv) The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations.

3.3 Proposal for Environmental Clearance for Building Stone Mine (Minor Mineral) Quarry Project of M/S Sera Granites India Private Limited over an area of 10.3274 Hectares with total production capacity of 92,48,683 MT (ROM) [Building stone: 88,82,293 MT, overburden: 1,29,830 MT and top soil: 59,012 MT] situated at Re-survey nos. - 25/1A (25/2308), 25/1A (25/2310) & others in Village-Nediyenga, Sreekandapuram Municipality, Taluk Taliparamba, District- Kannur, State- Kerala – [File No. IA-J-11015/86/2021-IA-II(NCM); Proposal No. IA/KL/MIN/230373/2020] - Environmental Clearance

EAC Meeting Details:

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EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

The proposal of M/s Sera Granites India Pvt. Ltd is for grant of Environmental Clearance Building Stone Mine (Minor Mineral) Quarry Project with total production capacity of 92,48,683 MT (ROM) [Building stone: 88,82,293 MT, overburden: 1,29,830 MT and top soil: 59,012 MT] situated at Re-survey nos. - 25/1A (25/2308), 25/1A (25/2310) & others in village-Nediyenga, Sreekandapuram Municipality, Taluk Taliparamba, District- Kannur, State- Kerala for an area of 10.3274 Hectares. The mine lease area is located between Latitude 12°05'09.88" to 12°05'28.12" N and Longitude 75°31'14.19" to 75°31'25.67" E. The mine lease area falls in 48P/12 toposheet and Seismic Zone III. The EIA consultant is M/s Environmental Engineers & Consultants Pvt. Ltd. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. SEIAA, Kerala has been constituted on 3rd March 2022, however, as per the Ministry's O.M. dated 23rd October 2017, "In cases, the proposal is appraised by the EAC due to non-existence of SEIAA/SEIAC, then irrespective of whether recommended, deferred or additional information sought, it will continue to be appraised and decided at the central level, even if the SEIAA/SEIAC is constituted later on."

2. Tenure of SEIAA/SEAC, Kerala got completed on 18.09.2021 due to which the project proponent made an online application vide proposal no: IA/KL/MIN/230373/2020 dated 21-09-2021 for Environmental Clearance. The proposed quarry project for obtaining Environmental Clearance is for mine lease area of 10.3274 hectares with targeted annual production capacity of 9,00,000 MT with life of mine as 10 years. Earlier the proposal for Environmental Clearance was considered in the 41st EAC meeting held during 15th – 16th November and 18th November, 2021. After detailed deliberations, the Committee noted that the project proponent has not submitted the authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018. As per 2018 Notification "The District Survey Report shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects". Therefore, the Committee deferred the proposal. The project proponent needs to submit the above information on Parivesh Portal. The project proponent submitted the reply on 15.02.2022. The project proponent submitted the Hon'ble High Court, Kerala order vide WP(C) NO. 4875 OF 2022 dated 14/02/2022. The relevant extract is produced below:

"this writ petition is also disposed of, directing the 2nd respondent to consider and pass orders on the application submitted by the petitioner for Environmental Clearance which is referred to in Exhibit P2, on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, which has been certified to confirm with

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Notification No.S.O.3611(E) dated 25.07.2018. Appropriate steps shall be taken within a period of one month from the date of receipt of a copy of this judgment.”

3. The project proponent submitted that ToR was approved by SEAC, Kerala in its 112th Meeting held on 12-14th August, 2020. Based on the ToR, EIA study was conducted by accredited consultancy organization (ACO), accredited under QCI/NABET Scheme (ACO: M/s Environmental Engineers & Consultants Pvt. Ltd., New Delhi) in the month of March (2020), April (2020), May (2020) and March (2021) & April (2021) and the draft EIA report was prepared. The draft EIA report was submitted at Kerala Pollution Control Board (KSPCB) for conduction of public hearing. It was conducted on 10.03.2021 under the Chairmanship of the Additional District Magistrate, Kannur at Collectorate Auditorium, Kannur by as procedure stated in the EIA Notification, 2006. PP submitted the Pre-feasibility report. The Mining plan was approved by the District Geologist, Mining & Geology Department, Govt. of Kerala vide letter dated 09 Dec 2019.

4. The project proponent submitted that the total excavation will be 88,82,293 MT (Mineable Reserve) wherein production capacity of building stone will be 9,00,000 MTA, total top soil production will be 59,012 MT and total waste will be 1,29,830 MT. The PP submitted the EIA/EMP report on 21.09.2021. The project proponent submitted that LOI was obtained vide letter no. 7016/M3/2019 dated 29.10.2019. The mining plan was approved vide letter no. DOC/M-1302/2019 dated 09-12-2019 for a period of 10 years.

5. The project proponent submitted that the Letter of Intent was granted vide letter no. 7016/M3/2019 dated 29.10.2019. The project proponent submitted the LOI extension letter dated 09.01.2022. PP submitted that the mining plan was approved vide letter no. DOC/M-1302/2019 dated 09.12.2019 for about 10 years.

6. The project proponent submitted that the method of mining will be opencast with Multiple blast holes of 1.5 to 2.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity. The controlled blasting through “NONEL” blasting technique using Nitrate Mixture as explosive is proposed by adopting all the safety measures. Bench height will be 5 m and bench width will be 5 m. Individual bench slope will be 72^o and overall pit slope will be 45^o. About 10 years is the life of mine. Vehicles will be engaged for transfer of mined out material and about 25 trips of 15 T capacity tipper / dump will be utilized for transporting the mineral on per hour basis. The mine lease area of 10.3274Ha is the private land.

7. The project proponent submitted that the daily water demand will be about 22 KL wherein 7 KLD for domestic purposes, 10 KLD for dust suppression in mine and 5 KLD for plantation purposes. Source of water will be open well & stored rain water in pond.

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Proposed area for green belt/plantation will be 1.0 ha. The budget for plantation of 8,300 trees is Rs. 91.30 Lakhs.

8. Details of EMP:

Sr. No.	Description	Item	Capital Cost	Recurring Cost	Remarks
			(Rs. In Lakhs)		
1.	Air Pollution	Personnel Protective Equipments (PPE) to mine workers	6	2	Safety shoe twice in a year, helmets once in three years and hand gloves (daily). ear plugs, safety goggles
		Uniform for mine workers	0.4	0.2	Issued six monthly
		Blast mats	0.8	0.4	As and when needed (L/S)
		Wetting of roads (paved and unpaved) and sprinkler system	8.0	5.0	Water tanker cost @one tanker per day for 300 days.
		Plantation on road side-3m interval and buffer zone – 3m interval plus maintenance	5.0	1.0	Re-plant the non-surviving plants, watering and protection from animals.
		Regular cleaning of paved roads,	0.1	3.0	Two workers daily
		Construction of speed controllers	0.5	0.1	Construction cost of speed breakers
		Asphalting of roads and its maintenance	25.0	2.0	-
Sub-Total			45.8	13.7	
2	Noise & vibration Pollution	Maintenance of machinery suitably	8	4	Included in maintenance cost
		PPE's like Ear muffs	2	1	Once in six months
		Acoustic enclosure for DG set	3	0.5	-
		Blasting siren and notice boards	2	0.2	-
Sub-Total			15	5.7	
3	Water Pollution	Construction of garland drains with intermittant siltation traps (storm water management)	10	4	Once only for the lease period /life of mine.
		De-silting operations	5	2	Yearly and manual operation
		Construction of ponds (rain water harvesting)	10	2	Once in year, cost incurred is to buy

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					sand bags and filling sand. and de-siltation
		Construction of retaining wall for waste dump in slope side	4	2	Cost of construction of wall around the dip side of the dump.
Sub Total			29	10	
4	Occupational Safety and Health	First aid kits – 2 nos. Fire extinguishers-2 nos.	2	1	Once in year, replace by conducting periodically check-up
		Training and awareness programs on risk factors during emergencies by the experts.	2	3	Once in six months and create sign boards about the risk and safety precaution regularly.
		Periodical medical check-up and supply of medicines	4	4	Once in a year and supply of medicines for every three months.
Sub Total			8	8	
5	Ecological Environment	<ul style="list-style-type: none"> • Green Area development in buffer of mine lease area. • Saplings of trees in mine lease area will be transplanted to land outside mine lease area owned by PP. • Development of medicinal garden own land outside mine lease area owned by PP. 	85.0	3	8,300 tree plantation @ Rs. 1100/-
Sub Total			85.0	3	
6	Environmental monitoring	Ambient Air Quality study	-	0.48	Will be done through MoEF&CC / NABL recognized laboratories (ambient air, noise, soil & water) & by approved experts of Accredited environmental consultancy
		Noise and vibration studies	-	0.942	
		Soil studies	-	0.1	
		Water quality studies	-	0.32	
		Hydrogeology	-	0.1	
		Ecology assessment	-	0.25	
		Socio-economic assessment	-	0.2	

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					organization (Hydrogeology, Ecological & Socio- economic assessment).
Sub Total			-	2.392	
GRAND TOTAL			182.8 say 183	40.4 say 41	

9. The project proponent submitted that total Cost for EMP is 1.83 crore and recurring cost is 0.40 crore. The project cost is Rs. 11.95 crores and manpower requirement is 50 persons.

10. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 47th EAC meeting held during 7th to 9th March 2022. After the detailed deliberations, the Committee **recommended** the proposal for Environmental Clearance of Building Stone Mine (Minor Mineral) Quarry Project of M/s Sera Granites India Private Limited over an area of 10.3274 Hectares with total production capacity of 92,48,683 MT (ROM) [Building stone: 88,82,293 MT, overburden: 1,29,830 MT and top soil: 59,012 MT] situated at Re-survey nos. - 25/1A (25/2308), 25/1A (25/2310) & others in Village-Nediyenga, Sreekandapuram Municipality, Taluk Taliparamba, District- Kannur, State- Kerala subject to the compliance of following Specific conditions in addition to all Standard conditions applicable for non-coal mining projects:

- (i) Since the habitation is shown at 103 m from the lease boundary, blasting should be controlled and single low blasting to avoid noise vibration impacts.
- (ii) Monitoring of noise vibration and air quality at the lease boundary particularly in the direction of the habitation must be regularly done. To check the efficacy of the proposed EMP shall be implemented.
- (iii) The EMP budget which is proposed to one year in capital should also be extended to addressing concerns of people within one year of the start of mine.
- (iv) Strictly abide by the mining plan and shall not intersect ground water.
- (v) The project proponent shall continue to monitor the air quality, noise quality at the edge of the mine in all the directions besides specific station in the direction of village and submit the 6 monthly report to the IRO.

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- (vi) The restoration plan submitted has to be augmentation by using scientific methods as suggested by the expert members.
- (vii) The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations.

3.4 Proposal for Environmental Clearance for existing Building Stone Mine (Minor Mineral) project of M/s Kilinakod Rock Products Pvt. Ltd. with expansion in annual production from 2, 00,000 MT to 4, 35,000 MT and mine area from 4.7072 Ha to 10.0696 Ha situated at Re-Survey Nos. 24/3 pt., 25/2, 27/1, 28/2, 28/3 of Oorakam Village, Thirurangadi Taluk, Malappuram District, Kerala – [File No. IA-J-11015/85/2021-IA-II(NCM); Proposal No. IA/KL/MIN/231582/2014] - Environmental Clearance

EAC Meeting Details:

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

The proposal of M/s Kilinakod Rock Products Pvt. Ltd. is for grant of Environmental Clearance for the existing Building Stone Mine (Minor Mineral) project for an area of 10.0696 hectares situated at Re-Survey Nos. 24/3 pt., 25/2, 27/1, 28/2, 28/3 of Oorakam Village, Thirurangadi Taluk, Malappuram District, Kerala. The mine lease area is located between Latitude 11004'43.84" to 11004'57.64" N and Longitude 76⁰⁰'33.25" to 75⁰⁰'45.86" E. The mine lease area falls in C43E04 toposheet and Seismic Zone III. The EIA consultant is M/s Environmental Engineers & Consultants Pvt. Ltd. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. SEIAA, Kerala has been constituted on 3rd March 2022, however, as per the Ministry's O.M. dated 23rd October 2017, "In cases, the proposal is appraised by the EAC due to non-existence of SEIAA/SEIAC, then irrespective of whether recommended, deferred or additional information sought, it will continue to be appraised and decided at the central level, even if the SEIAA/SEIAC is constituted later on."

2. Tenure of SEIAA/SEAC, Kerala got completed on 18.09.2021 due to which the project proponent made an online application vide proposal no: IA/KL/MIN/231582/2014 dated 28-09-2021 for Environmental Clearance at MoEF&CC. The project proponent submitted the Form 1, PFR, EMP, Approved Mining Plan, Cluster Certificate, EIA Report, and Public Hearing Proceedings. PP submitted that EC was granted for 4.7072 ha obtained from MoEF&CC vide order no. J-11015/462/2014-IA.II (M) dated 12- 03-2015.

Now the PP expands the existing area upto 10.0696 ha. (additional area of 5.3624 ha) Earlier the proposal for Environmental Clearance was considered in the 41st EAC meeting held during 15th – 16th November and 18th November, 2021. After detailed deliberations, the Committee noted that the project proponent has not submitted the authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018. As per 2018 Notification "The District Survey Report shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects". Therefore, the Committee deferred the proposal. The project proponent needs to submit the above information on Parivesh Portal. The project proponent submitted the reply on 15.02.2022. The project proponent submitted the Hon'ble High Court, Kerala order vide WP(C) NO. 4866 OF 2022 dated 14/02/2022. The relevant extract is produced below:

"this writ petition is also disposed of, directing the 2nd respondent to consider and pass orders on the application submitted by the petitioner for Environmental Clearance which is referred to in Exhibit P2, on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, which has been certified to confirm with Notification No.S.O.3611(E) dated 25.07.2018. Appropriate steps shall be taken within a period of one month from the date of receipt of a copy of this judgment."

3. The project proponent submitted that the existing quarry had obtained Environmental Clearance (EC) for an area of 4.7072 hectares from Ministry of Environment, Forests & Climate Change (MoEF &CC), Govt. of India vide Order no. J-11015/462/2014-IA.II (M) dated 12-03-2015 for the production capacity of 2,00,000 TPA with a life of mine 11 years. Currently mining is in progress in the existing lease area of 3.5412 ha. with mine lease accorded by Department of Mining & Geology, Govt. of Kerala which is part of the Environmental Clearance obtained area of 4.7072 hectares. The proposed quarry project for obtaining Environmental Clearance is for mine lease area of 10.0696 hectares with targeted annual production capacity of 4,35,000 MT with life of mine as 15 years. The proposed mine lease area of M/s Kilinakod Rock Products Pvt. Ltd. is more than 5 hectares and also the cluster area is also more than 5 hectares, therefore EIA Study and public hearing is a mandatory requirement for obtaining Environmental Clearance under the provisions of the EIA Notification, 2006. Based on the ToR, EIA study was conducted by accredited consultancy organization (ACO), accredited under QCI/NABET Scheme (ACO: M/s Environmental Engineers & Consultants Pvt. Ltd., New Delhi) in the month of March (2019), April (2019) & May (2019) and the draft EIA report was prepared.

4. The project proponent submitted that the ToR was granted by SEIAA, Kerala vide Letter No. 1378/EC2/2019/SEIAA dated 06-08-2019. The peak annual production is 4,35,000 MTA, top soil is 35,776 MT and waste is 33,025 MT. The PP submitted that the

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LOI was granted vide letter no. 4183/M3/2018 dated 15-12-2018 and LOI extension letter dated 26.02.2022.

5. The project proponent submitted that the public hearing was conducted on 20.01.2020 under the Chairmanship of the District Collector, Malappuram at the Collectorate Conference Hall by as procedure stated in the EIA Notification, 2006. The copy of the complete proceedings of Public hearing received from Kerala State Pollution Control Board was submitted. The project proponent had obtained certified compliance report from the Regional Office of MoEF & CC, Bangalore dated 27.11.2019. The PP submitted the Pre-feasibility report (PFR) of the project prepared as per the guidelines of MoEF vide O.M. dt. 30-12-2010. The Mining plan was approved by the District Geologist, Mining & Geology Department, Govt. of Kerala vide letter no. DOM/M-1281/2019 dated 27 March 2019.

6. PP submitted that the method of mining will be opencast with Multiple blast holes of 1.5 to 2.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity. The controlled blasting through “NONEL” blasting technique using Nitrate Mixture as explosive is proposed by adopting all the safety measures. Bench height will be 5 m and bench width will be 5 m. Individual bench slope will be 72^o and overall pit slope will be 45^o. About 15 years is the life of mine. Vehicles will be engaged for transfer of mined out material and about 12-13 trip of 15 T capacity tipper / dump will be utilized for transporting the mineral on per hourbasis. The mine lease area of 10.0696 Ha is the private land.

7. The project proponent submitted that the daily water demand will be about 32 KL wherein 7 KLD for domestic purposes, 10 KLD for dust suppression in mine and 15 KLD for plantation purposes. Source of water will be open well & stored rain water in pond. Proposed area for green belt/plantation will be 7.4180 ha. The budget for plantation of 2,250 trees is Rs. 24.75 Lakhs.

8. Details of EMP:

Sr. No.	Description	Item	Capital Cost	Recurring Cost	Remarks
			(Rs. In Lakhs)		
1.	Air Pollution	Personnel Protective Equipments (PPE) to mine workers	6	2	Safety shoe twice in a year, helmets once in three years and hand gloves (daily). ear plugs, safety goggles
		Uniform for mine workers	0.4	0.2	Issued six monthly

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		Blast mats	0.8	0.4	As and when needed (L/S)
		Wetting of roads (paved and unpaved) and sprinkler system	8.0	5.0	Water tanker cost @one tanker per day for 300 days.
		Plantation on road side-3m interval and buffer zone – 3m interval plus maintenance	5.0	1.0	Re-plant the non-surviving plants, watering and protection from animals.
		Regular cleaning of paved roads,	0.1	3.0	Two workers daily
		Construction of speed controllers	0.5	0.1	Construction cost of speed breakers
		Asphalting of roads and its maintenance	25.0	2.0	-
Sub-Total			45.8	13.7	
2	Noise & vibration Pollution	Maintenance of machinery suitably	8	4	Included in maintenance cost
		PPE's like Ear muffs	2	1	Once in six months
		Acoustic enclosure for DG set	3	0.5	-
		Blasting siren and notice boards	2	0.2	-
Sub-Total			15	5.7	
3	Water Pollution	Construction of garland drains with intermittant siltation traps (storm water management)	10	4	Once only for the lease period /life of mine.
		De-silting operations	5	2	Yearly and manual operation
		Construction of ponds (rain water harvesting)	10	2	Once in year, cost incurred is to buy sand bags and filling sand. and de-siltation
		Construction of retaining wall for waste dump in slope side	4	2	Cost of construction of wall around the dip side of the dump.
Sub Total			29	10	
4	Occupational Safety and Health	First aid kits – 2 nos. Fire extinguishers-2 nos.	2	1	Once in year, replace by conducting periodically check-up
		Training and awareness programs on risk factors during	2	3	Once in six months and create sign boards about the

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		emergencies by the experts.			risk and safety precaution regularly.
		Periodical medical check-up and supply of medicines	4	4	Once in a year and supply of medicines for every three months.
Sub Total			8	8	
5	Ecological Environment	<u>PART-1</u> <ul style="list-style-type: none"> • Green Area development in buffer of mine lease area. • Saplings of trees in mine lease area will be transplanted to land outside mine lease area owned by PP. • Development of medicinal garden own land outside mine lease area owned by PP. 	19	6	Rs. 1,100 x 2250 trees = Rs. 24.75 lakhs say Rs. 25 lakhs
		<u>PART-2</u> <ul style="list-style-type: none"> • Eco-restoration through planting of trees, shrubs, herbs in mine lease area during mine closure. 	82	20	-
Sub Total			101	26	
6	Environmental monitoring	Ambient Air Quality study	-	0.48	Will be done through MoEF&CC / NABL recognized laboratories (ambient air, noise, soil & water) & by approved experts of Accredited environmental consultancy organization (Hydrogeology, Ecological & Socio-economic assessment).
		Noise and vibration studies	-	0.942	
		Soil studies	-	0.1	
		Water quality studies	-	0.32	
		Hydrogeology	-	0.1	
		Ecology assessment	-	0.25	
		Socio-economic assessment	-	0.2	
Sub Total			-	2.392	
GRAND TOTAL			198.8 say 199	65.972 say 66	

9. The project proponent submitted that total Cost for EMP is 1.99 crore and recurring cost is 0.66 crore. The project cost is Rs. 11.30 crores and manpower requirement is 50 persons.

10. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 47th EAC meeting held during 7th to 9th March 2022. After the detailed deliberations, the Committee **recommended** the proposal for Environmental Clearance of existing Building Stone Mine (Minor Mineral) project of M/s Kilinakod Rock Products Pvt. Ltd. with expansion in annual production from 2, 00,000 MT to 4, 35,000 MT and mine area from 4.7072 Ha to 10.0696 Ha situated at Re-Survey Nos. 24/3 pt., 25/2, 27/1, 28/2, 28/3 of Oorakam Village, Thirurangadi Taluk, Malappuram District, Kerala subject to the compliance of following Specific conditions in addition to all Standard conditions applicable for non-coal mining projects:

- (i) The restoration plan submitted has to be augmentation by using scientific methods as suggested by the expert members.
- (ii) The project proponent shall continue to monitor the air quality, noise quality at the edge of the mine in all the directions besides specific station in the direction of village and submit the 6 monthly report to the IRO.
- (iii) The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations.
- (iv) Monitoring of noise vibration and air quality at the lease boundary particularly in the direction of the habitation must be regularly done. To check the efficacy of the proposed EMP shall be implemented.
- (v) Strictly abide by the mining plan and shall not intersect ground water.

3.5 The proposal for Environmental Clearance for the existing building stone mine (Quarry, Minor Mineral) project for expansion of mine lease area from 3.6745 ha to 4.9273 ha with proposed production of 1,14,000 MTPA located at Tharuyur and Keezhariyur Villages, Koyilandy Taluk, Kozhikode District, Kerala by M/s Payyoli Granites Pvt. Ltd. –[File No. IA-J-11015/93/2021-IA.II(NCM); Proposal No. IA/KL/MIN/238589/2013] - Environmental Clearance

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EAC Meeting Details:

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

The proposal of M/s Payyoli Granites Pvt. Ltd. is for grant of Environmental Clearance for the existing building stone mine (Quarry, Minor Mineral) project for expansion of mine lease area from 3.6745 ha to 4.9273 ha with proposed production of 1,14,000 MTPA located at Tharuyur and Keezhariyur Villages, Koyilandy Taluk, Kozhikode District, Kerala. The mine lease area is located between Latitude 11°30'49.09"N to 11°31'00.01" N and Longitude 75°40'55.06"E to 75°41'06.09"E. The mine lease area falls in 49M/10 (C43D10)toposheet and Seismic Zone III. The EIA consultant is M/s Environmental Engineers & Consultants Pvt. Ltd. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14thSeptember 2006 and subsequent amendments. SEIAA, Kerala has been constituted on 3rd March 2022, however, as per the Ministry's O.M. dated 23rd October 2017, "In cases, the proposal is appraised by the EAC due to non-existence of SEIAA/SEIAC, then irrespective of whether recommended, deferred or additional information sought, it will continue to be appraised and decided at the central level, even if the SEIAA/SEIAC is constituted later on."

2. The project proponent had made an online application vide proposal no: IA/KL/MIN/238589/2013 dated 13.11.2021 for Environmental Clearance. The project proponent submitted the Form 1, PFR, EMP, Approved Mining Plan, Cluster Certificate and CCR. The project proponent submitted that earlier Environmental Clearance for mine lease area of 3.6475 ha was obtained from SEIAA, Kerala vide Order No. 100/SEIAA/KL/1537/2013 dt. 22/11/2013 for an annual production of 2,20,000 MT, with a life of mine 6.25 years. Now, the project proponent has applied for EC for expansion in mine lease area from 3.6745 ha to 4.9273 ha vide proposal no. IA/KL/MIN/238589/2013 on 13.11.2021. The proposal for Environmental Clearance was considered in the 42nd EAC meeting held during 30th November to 3rd December, 2021. After detailed deliberations, the Committee noted that the project proponent did not submit the authenticated District Survey Report as per Ministry's Notification S.O. 3611(E) dated 25.07.2018. As per 2018 Notification "The District Survey Report shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects". Therefore, the Committee deferred the proposal. The project proponent needs to submit the above information on Parivesh Portal. The project proponent submitted the reply on 11.02.2022. The project proponent submitted the Hon'ble High Court, Kerala order vide WP(C) NO. 1801 OF 2022 dated 8/02/2022. The relevant extract is produced below:

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“this writ petition is disposed of, directing the respondents 1 and 5 to consider and pass orders on the application submitted by the petitioner for Environmental Clearance on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, which has been certified to confirm with the requirements of Ext. P8 Notification No.S.O.3611(E) dated 25.07.2018 within a period of one month from the date of receipt of a copy of this judgment.

The certificate issued by the Geologist, Department of Mining and Geology, District Office, Pathanamthitta on 14.12.2021, confirming that the DSR 2016 is being applied in the State of Kerala, and it conforms with the requirement of Ext P8 notification shall be considered by respondents 1 and 5 while finalizing their orders. The petitioner may upload the certificate issued by the Geologist in the concerned portal along with the DSR 2016, if not already uploaded.”

3. The project proponent submitted that the total excavation is 13,70,771 MT (Mineable Reserve). The PP submitted that the LOI was granted vide letter no. 3397/M3/2019 dated 31.03.2021. PP submitted that mining plan was approved vide letter no. DOZ/M-616/19 dated 06.09.2019. PP also submitted that the method of mining will be opencast with Multiple blast holes of 1.5 to 2.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity. The controlled blasting through “NONEL” blasting technique using Nitrate Mixture as explosive is proposed by adopting all the safety measures. Bench height will be 5 m and bench width will be 5 m. Individual bench slope will be 72⁰ and overall pit slope will be 45⁰. About 12 years is the life of mine. Vehicles will be engaged for transfer of mined out material and about 26 trips of 15 T capacity tipper / dump will be utilized for transporting the mineral on per hour basis. The mine lease area of 4.9237 Ha is the private land.

4. The project proponent submitted that the daily water demand will be about 21 KL wherein 6 KLD for domestic purposes, 10 KLD for dust suppression in mine and 5 KLD for plantation purposes. Source of water will be open well & stored rain water in pond. Proposed area for green belt/plantation will be 0.8425 ha. The budget for plantation of 3,400 trees is Rs. 37.40 Lakhs.

5. The project proponent submitted that total Cost for EMP is 1.21 crore and recurring cost is 0.46 crore. The project cost is Rs. 4.22 crores and manpower requirement is 45 persons.

6. Observation and Recommendation of the Committee:

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The proposal for Environmental Clearance was considered in the 47th EAC meeting held during 7th to 9th March 2022. The project proponent made a presentation for total mine lease area 4.9237 Ha for which the letter of intent is available for the proposed production capacity of 1,14,000 MTPA. The Committee after detailed deliberations observed that the project proponent has not even reached to the peak production in the area confining to 3.6745 Ha and the mineral is still available in this area for planning up to the lease period. In view of this, the Committee felt that the project proponent should be restricted only to the area which is already broken. Therefore, the Committee **returned the proposal in the present form.**

3.6 Proposal for Environmental Clearance of Building Stone Minor Mineral (Quarry) Project of Shri Sachu Rajan Eapen for an area of 8.0140 Ha with production capacity of 54,27,594 (ROM) [Building stone: 52,18,884; Top soil: 67,790; Overburden: 1,40,920] situated at Block 30, Re-Survey No. 55 of Koodal Village, Kalanjoor Panchayat, Konni Taluk, Pathanamthitta District, Kerala- [File No. IA-J-11015/84/2021-IA-II(NCM); Proposal No. IA/KL/MIN/231862/2019] - Environmental Clearance

EAC Meeting Details:

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

The proposal of Shri Sachu Rajan Eapen is for grant of Environmental Clearance for the Building Stone Minor Mineral (Quarry) Project for an area of 8.0140 Hectares situated at Block 30, Re-Survey No. 55 of Koodal Village, Kalanjoor Panchayat, Konni Taluk, Pathanamthitta District, Kerala. The mine lease area is located between Latitude 09° 09'47.21" N to 09°10'00.15"N and Longitude 76°51'43.47" E to 76°51'56.20"E. The mine lease area falls in C43Q16 OLD NO. (58C/16) toposheet and Seismic Zone III. The EIA consultant is M/s Environmental Engineers & Consultants Pvt. Ltd. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September 2006 and subsequent amendments. SEIAA, Kerala has been constituted on 3rd March 2022, however, as per the Ministry's O.M. dated 23rd October 2017, "In cases, the proposal is appraised by the EAC due to non-existence of SEIAA/SEIAC, then irrespective of whether recommended, deferred or additional information sought, it will continue to be appraised and decided at the central level, even if the SEIAA/SEIAC is constituted later on."

2. Tenure of SEIAA/SEAC, Kerala got completed on 18.09.2021 due to which the project proponent made an online application vide proposal no: IA/KL/MIN/231862/2019 dated 29.09.2021 for Environmental Clearance at MoEF&CC. The project proponent

submitted the Form 1, PFR, EIA & EMP, Supplementary EIA report, Approved Mining Plan, Cluster Certificate, Public Hearing Proceedings. The project proponent submitted a certificate dated 06.11.2021 obtained from District Geologist, Department of Mining and Geology stating that no quarrying operations has been commenced in the area till now. The project proponent submitted that ToR was granted by SEIAA, Kerala vide letter no. 1436/EC1/2019/SEIAA dated 04.08.2020. The proposal for Environmental Clearance was earlier considered by MoEF&CC in the 41st EAC meeting held during 15th – 16th November and 18th November, 2021. After detailed deliberations, the Committee noted that the project proponent has not submitted the authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018. As per 2018 notification "The District Survey Report shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects". Therefore, the Committee deferred the proposal. The project proponent submitted the reply on 07.02.2022. The project proponent submitted the Hon'ble High Court order, Kerala vide WP(C) NO. 28372 OF 2021 dated 31/01/2022. The relevant extract is produced below:

"The petitioner has produced the DSR 2016 as Ext. P3 along with the writ petition. In Ext. P1, the 5th respondent has deferred consideration for want of availability of the DSR. In the above circumstances, the writ petition is disposed of directing the 5th respondent to consider and pass orders on Ext. P6 proposal for Environmental Clearance submitted by the petitioner, on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, within a period of one month from the date of receipt of a copy of this judgment.

The certificate issued by the Geologist, Department of Mining and Geology, District Office, Pathanamthitta on 14.12.2021, which is produced as Ext. P8 in the writ petition confirming that the DSR 2016 is being applied in the State of Kerala, shall also be considered by the 5th respondent while finalizing their orders. The petitioner may upload the certificate issued by the Geologist in the concerned portal along with the DSR 2016, if not already uploaded."

3. The project proponent submitted the LOI granted by Directorate of Mining and Geology, Thiruvananthapuram vide letter no. 1989/M3/2020 dated 03.06.2020 for 8.0140 Ha. The project proponent submitted that the total excavation is 52,18,884 MT (Mineable Reserve), top soil is 67,790,MT and overburden is 1,40,920 MT. The project proponent submitted that mining plan was approved vide letter no. 2473/DOPTA/M/2019 dated 12.10.2020.

4. The project proponent submitted that the proposed quarry project for obtaining Environmental Clearance is for mine lease area of 8.0140 hectares with targeted maximum annual production capacity of 6,00,000 MT with life of mine as 11 years. The

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proposed mine lease area of the proposed project is more than 5 hectares and also the cluster area is also more than 5 hectares, therefore EIA Study and public hearing is a mandatory requirement for obtaining Environmental Clearance under the provisions of the EIA Notification, 2006. Based on the ToR, EIA study was conducted by accredited consultancy organization (ACO), accredited under QCI/NABET Scheme (ACO: M/s Environmental Engineers & Consultants Pvt. Ltd., New Delhi) in the month of September (2019), October (2019), November (2019) and the draft EIA report was prepared. The draft EIA report was submitted at Kerala Pollution Control Board (KSPCB) for conduction of public hearing

5. The project proponent submitted that the public hearing was conducted on 09.03.2021 under the Chairmanship of the Additional District Magistrate, Pathanamthitta at St. Mary's Parish Hall, Vakayar by as procedure stated in the EIA Notification, 2006. Pre-feasibility report (PFR) of the project prepared as per the guidelines of MoEF vide O.M. dated 30-12-2010.

6. The project proponent submitted that the method of mining will be opencast with multiple blast holes of 1.5 to 2.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity. The controlled blasting through "NONEL" blasting technique using Nitrate Mixture as explosive is proposed by adopting all the safety measures. Bench height will be 5 m and bench width will be 5 m. Individual bench slope will be 720 and overall pit slope will be 450. About 11 years is the life of mine. Vehicles will be engaged for transfer of mined out material and about 16-17 trips of 15 T capacity tipper / dump will be utilized for transporting the mineral on per hour basis. The boulders from the mine will be transported within Pathanamthitta & other nearby districts in Kerala which are utilized in construction activities, road construction, retaining wall etc. The mine lease area of 8.0140Ha is the private land.

7. The project proponent submitted that there are no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger / Elephant Reserves are located within 10 km radius of the mine area. The project proponent submitted that the daily water demand will be about 22 KL wherein 4 KLD for domestic purposes, 11 KLD for dust suppression in mine and 7 KLD for plantation purposes. Source of water will be open well & stored rain water in pond. The project proponent also submitted that Achankovil Forest is present which is 3km away from the mine site in the East direction. Proposed area for green belt/plantation will be 1.0 ha. The budget for plantation of 5,700 trees is Rs. 62.70 Lakhs. It is proposed to construct a storm water collection pond of capacity 4 ML to store rainwater from the site and use it for sprinkling and green belt development.

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8. The project proponent submitted that the predominant wind direction is from NW to SE direction. The project proponent submitted that no court case / litigation is pending against the project proponent or the mine lease area. The total cost for EMP is 1.30 crore and recurring cost is 0.42Crore. The project cost is Rs. 7.07Crores and manpower requirement is 74 persons.

9. Details of EMP:

Sr. No.	Description	Item	Capital Cost	Recurring Cost	Remarks
			(Rs. In Lakhs)		
1.	Air Pollution	Personnel Protective Equipments (PPE) to mine workers	4	1	Safety shoe twice in a year, helmets once in three years and hand gloves (daily). ear plugs, safety goggles
		Uniform for mine workers	0.4	0.2	Issued six monthly
		Blast mats	0.8	0.4	As and when needed (L/S)
		Wetting of roads (paved and unpaved) and sprinkler system	2.0	1.0	Water tanker cost @one tanker per day for 300 days.
		Plantation on road side-3m interval and buffer zone – 3m interval plus maintenance	3.0	0.50	Re-plant the non-surviving plants, watering and protection from animals.
		Regular cleaning of paved roads,	0.1	0.20	Two workers daily
		Construction of speed controllers	0.4	0.60	Construction cost of speed breakers
		Asphalting of roads and its maintenance	15.0	1.80	-
Sub-Total			31.7	5.7	
2	Noise & vibration Pollution	Maintenance of machinery suitably	5.30	3.60	Included in maintenance cost
		PPE's like Ear muffs	1.80	0.90	Once in six months
		Acoustic enclosure for DG set	2.70	0.35	-
		Blasting siren and notice boards	2	0.2	-
Sub-Total			11.80	5.05	
3	Water Pollution	Construction of garland drains with intermittant siltation	9.0	3.00	Once only for the lease period /life of mine.

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		traps (storm water management)			
		De-silting operations	4.5	1.00	Yearly and manual operation
		Construction of ponds (rain water harvesting)	6.0	0.50	Once in year, cost incurred is to buy sand bags and filling sand. and de-siltation
		Construction of retaining wall for waste dump in slope side	2.0	1.0	Cost of construction of wall around the dip side of the dump.
Sub Total			21.5	5.5	
4	Occupational Safety and Health	First aid kits – 2 nos. Fire extinguishers-2 nos.	2	1	Once in year, replace by conducting periodically check-up
		Training and awareness programs on risk factors during emergencies by the experts.	2	3	Once in six months and create sign boards about the risk and safety precaution regularly.
		Periodical medical check-up and supply of medicines	4	4	Once in a year and supply of medicines for every three months.
Sub Total			8	8	
5	Ecological Environment	<u>PART-1</u> <ul style="list-style-type: none"> • Green Area development in buffer of mine lease area. • Saplings of trees in mine lease area will be transplanted to land outside mine lease area owned by PP. • Development of medicinal garden own land outside mine lease area owned by PP. 	7	3	
		<u>PART-2</u> <ul style="list-style-type: none"> • Eco-restoration through planting of trees, shrubs, herbs 	50.0	13	Rs. 1,100 x 5700 trees = Rs. 62.70 lakhs say Rs. 63 lakhs

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		in mine lease area during mine closure.			
Sub Total			57	16	
6	Environmental monitoring	Ambient Air Quality study	-	0.48	Will be done through MoEF&CC / NABL recognized laboratories (ambient air, noise, soil & water) & by approved experts of Accredited environmental consultancy organization (Hydrogeology, Ecological & Socio-economic assessment).
		Noise and vibration studies	-	0.35	
		Soil studies	-	0.1	
		Water quality studies	-	0.32	
		Hydrogeology	-	0.1	
		Ecology assessment	-	0.25	
		Socio-economic assessment	-	0.2	
Sub Total			-	1.8	
GRAND TOTAL			130	42	

6. Observation and Recommendation of the Committee:

The proposal for Environmental Clearance was considered in the 47th EAC meeting held during 7th to 9th March 2022. After the detailed deliberations, the Committee **recommended** the proposal for Environmental Clearance of Building Stone Minor Mineral (Quarry) Project of Shri Sachu Rajan Eapen for an area of 8.0140 Hawith production capacity of 54,27,594(ROM) [Building stone: 52,18,884; Top soil: 67,790; Overburden: 1,40,920]situated at Block 30, Re-Survey No. 55 of Koodal Village, Kalanjoor Panchayat, Konni Taluk, Pathanamthitta District, Kerala subject to the compliance of following Specific conditions in addition to all Standard conditions applicable for non-coal mining projects:

- (i) The restoration plan submitted has to be augmentation by using scientific methods as suggested by the expert members.
- (ii) The project proponent shall continue to monitor the air quality, noise quality at the edge of the mine in all the directions besides specific station in the direction of village and submit the 6 monthly report to the IRO.
- (iii) The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations.

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- (iv) Monitoring of noise vibration and air quality at the lease boundary particularly in the direction of the habitation must be regularly done. To check the efficacy of the proposed EMP shall be implemented.
- (v) Strictly abide by the mining plan and shall not intersect ground water.
- (vi) Nearby canal should be protected from the blasting vibrations. Monitoring should be done regularly between the mine lease area and the canal which is 125 m away.

List of members of Expert Appraisal Committee participated through VC

S.No.	Member Name	Member Address	Designation	7 th March 2022	8 th March 2022	9 th March 2022
1	Dr. S.R. Wate	Add. 148/149, Nagar Vikas Society, Narendra Nagar, Nagpur-440015, Maharashtra	Chairman	Yes	Yes	Yes
2	Dr. Ajay Deshpande	Building A-26, Flat-403, Happy Valley Homes, Manpada, Ghodbunder Road, Thane (West) - 400610, Maharashtra	Member	No	Yes	No
3	Shri B Ramesh Kumar	H-No. 6-1-134/6, Balram Compound, Padmarao Nagar, Secundrabad-500025, Andhra Pradesh	Member	Yes	Yes	Yes
4	Prof. S. Ramakrishna Rao	50-120-9/1, Tulasi Mani Regency North Extension, Seethammadhara, Visakhapatnam - 530013 Andhra Pradesh.	Member	Yes	Yes	Yes

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5	Shri Santosh Gupta	Flat No. 405, Block –B, Gaur Green Vista, NyayKhand -1, Indrapuram, Ghaziabad- 201014	Member	Yes	No	Yes
6	Dr. Asha Rajvanshi	B-104/106, Rockvalley Apartments, General Mahadev Singh Road, Sewla Chowk, Majra, Dehradun – 248001.	Member	Yes	Yes	Yes
7	Shri G.P. Kundargi	Plot No. 32, MOIL Vatika, Chicholi Road, Fetri, Nagpur 441501, Maharashtra	Member	Yes	Yes	Yes
8	Dr. A.K.Malhotra	House no. 33, Sector – 11, Dwarka. (Near Gate No. – 1 of sector 11 metro Station), New Delhi – 110075.	Member	Yes	Yes	Yes
9	Dr. Gurdeep Singh	Centre of Mining Environment, Department of Environmental Science & Engg. Indian Institute of Technology (Indian School of Mines), Dhanbad-826004	Member	Yes	Yes	No
10	Dr. Parimal Chandra Bhattacharjee	A/3 Asiyana Housing Complex Maligaon, Guwahati-781011, Assam	Member	No	No	No
11	Prof. MukeshKhare	Department of Civil Engineering, IIT, Delhi	Member	Yes	Yes	No
12	Shri V. K. Soni	Government of India, Ministry of Earth Sciences, India Meteorological Department, MausamBhawan, Lodi Road, New Delhi – 110003	Member	No	No	No
13	Shri Pankaj Kulakshethra	Regional Controller of Mines, IBM Block D, Second Floor, Indira Bhavan, Civil Lines, Nagpur - 440001	Member	No	No	No

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14	Shri Ram Avatar	Representative of DGMS	Member	No	No	No
16	Shri Pankaj Verma	2 nd Floor, Prithvi Block, Indira ParyawaranBhawan, MoEF&CC, Jorbhag, New Delhi- 110003	Member Secretary	Yes	Yes	Yes
17	Shri Gowrappan	No. 6, Ganesh Avenue, II Street, Shakti Nagar, Porur, Chennai, Tamil Nadu- 600116	Special invitee	No	Yes	No
18	Shri B. S. Sodha	ADM Jaipur, KhanijBhawan, Department of Mines & Geology Jaipur.	Special invitee	No	Yes	No
