

Minutes of the 207<sup>th</sup> Meeting of the Goa State Expert Appraisal Committee (Goa-SEAC) held on the 14<sup>th</sup> June 2024 at 03.00 p.m. in the Conference hall of the Department of Environment & Climate Change 4<sup>th</sup> Floor, Dempo Towers, Patto - Panaji, Goa.

The 207<sup>th</sup> meeting of the Goa-SEAC was held on 14<sup>th</sup> June 2024 in the Conference hall of the Department of Environment & Climate Change 4<sup>th</sup> floor of the Dempo Towers, Patto-Panaji at 03.00 p.m. under the Chairmanship of Er. Pascoal Barbosa Noronha.

The list of members who attended the meeting is at "Annexure - I".

The Chairman welcomed the members and requested to proceed as per the agenda items

1. To decide on application received from Bhumipurusha Minerals Private Limited for Naquerim Bauxite Ore and Aluminous laterite mine bearing mining Lease No. 1/NSD/BAUXITE/85 over an extent of 40.92Ha located at Naquerim village, Quepem taluka, South Goa for prior Environmental Clearance.

The Director of Bhumipurusha Minerals Private Limited Mr. Sandeep Agarwal along with his consultant appeared before the Committee and explained the details of the project.

**Decision:** After scrutinizing the documents submitted by the Project Proponent and after perusing the Office Memorandum dated 08/01/2024, the Committee noted that the Hon'ble Supreme Court has imposed stay with reference to the S.O. P. Dated 07/07/2021 and O.M. dated 28/01/2022. Since the said project has obtained the ToR under violation category and the production was carried out from 1999 to 2008 without obtaining prior Environmental Clearance, the Committee decided to keep the matter in abeyance until the further order from the Hon'ble Supreme Court.

2. To decide on application received from Rajaram Bandekar Mines Private Limited for Block III - Monte De Sirigao Mineral Block bearing Survey No. 47, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64, 69, 70, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 94, 95, 79 & road at Bicholim Goa for prior Environmental Clearance.

The representative of Rajaram Bandekar Mines Private Limited Shri Vasu Nair and Shri Sujay C Parrikar along with his EIA consultant Mr. M.S. Raju (Mineral Engineering Services, QCI-NABET ORG000756) appeared before the Committee and explained the details of the project.

**Decision:** After Scrutinizing the documents submitted by the Project Proponent the Committee decided to recommend the Authority for grant of Environmental Clearance under following General and specific conditions.

- a) The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is



under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

- b) The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
- c) The Project Proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC website where it is displayed.
- d) The copies of the environmental clearance shall be submitted by the Project Proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
- e) The Project Proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms /conditions.
- f) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the Project Proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Authority/Ministry/Regional Office along with the Six-Monthly Compliance Report.
- g) Concealing factual data or submission of false/fabricated data may result in revocation of this Environmental Clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- h) The Authority/Regional Office of this MoEF&CC shall monitor compliance of the stipulated conditions. The project Authorities should extend full cooperation to the Officer (s) by furnishing the requisite data /information/monitoring reports.
- i) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- j) This issue with an approval of the Competent Authority.

#### Specific Conditions

- a) The instant Environmental Clearance (EC) is subject to the outcome of the WP 592 of 2022 (MSPL v. State of Goa & Ors.) regarding challenging the constitutionality of the tender documents of Phase I auction of Goa mines and PIL WP 2029/2023 (F) (Suresh Govind Gaonkar & Ors v. Directorate of Mines and Geology & Ors) regarding challenging the state's decision to go ahead with the auction of the mining block.
- b) The Project Proponent shall monitor the air quality, noise level, water quality, water level and ground vibration during drilling and blasting at the edge of the mine, near

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the village, crusher and at other sensitive receptors and such collected data shall be submitted quarterly to this Authority/Ministry's Regional Office.

- c) The PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes. The Project Proponent shall ensure that the activities proposed under the Public Hearing is different from the CSR activities.
- d) The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report.
- e) The Project Proponent should adopt the proper mitigation measures as proposed under EMP. 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 personnel. The implementation status of the same shall be submitted to this Authority/Ministry's Regional Office.
- f) The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned Authority.
- g) The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- h) A cumulative impact assessment of mines has been factored in the EIA report submitted by them, the findings of the same shall be complied and implemented strictly.
- i) NoC from the Concerned Local Authority, shall be obtained before drawing the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the Project Proponent shall obtain such permission.
- j) 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. The preference shall be given to the local people for the purpose of employment as committed before the SEAC.
- k) 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 occupational health shall be carried out every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.

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- k) The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to this Authority/ Ministry's Regional Office.
- l) The Hon'ble Supreme Court has imposed a capping on mining of iron ore to 20 MTPA for the entire State of Goa. Accordingly, the Project Proponent shall first obtain the necessary permission from the Competent Authority with regard to the amount of mineral they can mine per year, before starting its mining operation.
- m) The Project Proponent needs to obtain prior permission from the SEIAA for mining in common boundary as and when required.
- n) The Project Proponent needs to explore the feasibility for installing conveyor belt system for transportation.
- o) The mined out pits will be converted into water reservoirs, pond with other ecotourism facilities like water sports, boating, fishing etc., Pisciculture in mine pits will be developed and also the local community will be involved for cage fishing to make it a commercially viable venture.
- p) The ecology restoration or mine reclamation activities shall be carried out concurrently with mining operations. The Project Proponent shall ensure that the restoration models shall be developed in association with research institutes like NEERI, Goa University etc.
- q) Regular monitoring and analysis of discharge water and at upstream and downstream of Bicholim and Asnora river needs to be carried out quarterly through NABL/MoEF&CC accredited laboratory.
- r) Extensive native fruit bearing plantation shall be carried out in all safety zones with density of 2500 trees/ha.
- s) The Project Proponent needs to complete the entire peripheral plantation under green belt, safetybarrier plantation and gap plantation within three years from the start of mining operations. The Project Proponent should plant quality sapling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. Plantation shall be undertaken in consultation with the State Forest Department. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to this Authority/ Ministry's Regional Office.
- t) The waste dump slopes shall be covered with laterite material and then with biodegradable geotextile mats to prevent the soil erosion of the dump slopes so as to facilitate the growth of native species.
- u) The Project Proponent needs to install the permanent water sprinklers along 3.40 km haul road within the ML area and 2.80 km length outside the ML area on either side of the road.

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- v) The Project Proponent shall explore the possibility of replacing the existing trucks of 10.5 Tonnes with higher capacity trucks of 25 Tonnes in phased manner to reduce traffic load and emissions per tonne/km.
- w) Fugitive dust monitoring during transportation shall be monitored regularly at all the sensitive receptors and report shall be submitted quarterly to this Authority/ Regional Office. Regular sprinkling shall be done on roads to suppress the dust at the source.
- x) The Project Proponent shall adhere to the pollution control measures suggested by the State/Central Pollution Control Board in the environmental guidelines for crushing/screening activity.
- y) The wheel washing facility for the ore transport vehicles shall be provided at the exit point of the mine.
- z) The Project Proponent needs to strengthen the settling pond with proper stone pitching in line with the design of settling pond considering the annual rainfall, flow rate, catchment area and its discharge.
- aa) The catch drains and siltation ponds needs to be regularly maintained to arrest silt and sediments flow from dumps.
- bb) The Project Proponent needs to develop a nursery/Community plantation adjacent to the mineral block in consultation with State Forest Department. PP shall develop theme-based gardens like medicinal gardens, horticulture gardens, spice gardens etc.
- cc) The Project Proponent needs to use modern equipment's such as Camera Traps for ensuring presence and movement of wild animals in the vicinity of the mine lease area as well as in study area in consultation with Wildlife Wing of Forest Department. Appropriate interventions shall be taken to minimize stress conditions for wild animals and to avoid Man-Animal conflict.
- dd) The Project Proponent needs to explore the possibility of using advanced/ latest mining technologies available so as to minimize the ecological impacts.
- ee) The Project Proponent should follow-up the status of implementation on Wildlife Conservation Plan from the Forest Officials and the same shall be submitted to this Authority/Ministry's Regional Office in the six monthly compliance report.
- ff) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- gg) The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- hh) The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.








- ii) The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- jj) The State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- kk) The Project Proponent should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change ([www.parivesh.nic.in](http://www.parivesh.nic.in)). A copy of the advertisement may be forwarded to the concerned Authority/MoEFCC Regional Office for compliance and record.
- ll) The Project Proponent shall inform this Authority/ MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred, PP needs to apply for transfer of EC as per provisions of the para II of EIA Notification, 2006 as amended from time to time.
- mm) The continuous Ambient Air Quality Monitoring Stations (CAAQMS) shall be installed and commissioned in consultation with GSPCB. The real time data so generated should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of GSPCB and Mines & Geology Department to control transportation on the road. The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of  $120^\circ$  is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub>, CO and SO<sub>2</sub> etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/1, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
- nn) Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM<sub>10</sub> and PM<sub>2.5</sub> are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ State Pollution Control Board.
- oo) In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal

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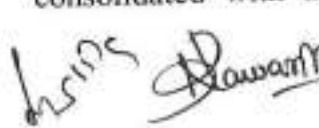

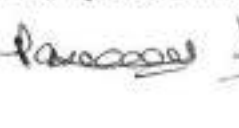




clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC/SEIAA is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.

- pp) The Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- qq) The Project Proponent shall undertake regular monitoring of natural water course/ water resources/springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per SPCB/CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of SEIAA/MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to this Authority/Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. clearly showing the trend analysis on six-monthly.
- rr) Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The Circular No. J- 20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
- ss) The Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to this Authority/ Regional Office MoEFCC annually.
- tt) Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.

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- uu) The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to this Authority/ Regional Office of the MoEF&CC and the State Pollution Control Board/Committee.
- vv) The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- ww) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
- xx) The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.
- yy) The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B& dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).
- zz) The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to this Authority/MoEFCC and its concerned Regional Office.
- aaa) The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.
- bbb) The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/



leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.

- ccc) Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.
- ddd) Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
- eee) As presented by the PP before SEAC transportation of mineral will pass through the dedicated mine and internal road, further will cross Mapusa-Bicholim State Highway (SH-1). The truck would then pass from mine to Sirsaim jetty through public road i.e. MDR 02 and SH-1. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
- fff) The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.
- ggg) The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by this Authority irrespective of the stipulation made in approved mine plan.
- hhh) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.

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- iii) The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
- jjj) The Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
- kkk) The Project Proponent shall submit the time- bound action plan to this Authority within 6 months from the date of issuance of Environmental Clearance for undertaking the activities committed during public consultation by the Project Proponent in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.
- lll) The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to this Authority/ Concerned Regional Office of the MoEF&CC.
- mmm) The Project Proponent should inform to this Authority/Regional Office regarding date of financial closures and final approval of the project by the Concerned Authorities and the date of start of land development work.
- nnn) The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to this Authority & its Concerned Regional Office, and the State Pollution Control Board.
- ooo) A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to this Authority.
- ppp) This Authority shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to this Authority/ Officer(s) by furnishing the requisite data / information / monitoring reports.
- qqq) In pursuant to Ministry's O.M No. 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

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- rrr) This Authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- sss) Concealing factual data failure to comply with any or submission of false/ fabricated data and of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- ttt) The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter.
- uuu) Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- vvv) The project proponent must ensure that the socio-cultural including the religious sentiments of the surrounding villagers does not hamper due to unwanted restrictions.
- www) The Project Proponent must ensure that the silt and mine water does not flow into the agricultural lands which have been revived and are being cultivated by the locals. Adequate measure must be in place to prevent any such incidences. Efforts must be made to support agriculture practices wherever possible on a proactive basis.
- xxx) Wildlife conservation is of utmost importance. The location of mines and surrounding areas support variety of wildlife species. Project proponent must prepare wildlife management plan, validate it through the wildlife experts/department of forest and adhere to all the recommendations made and implement in letter and spirit. If the exercise is given to the forest department, the proponent must monitor the preparation and implementation. The same must be reported the compliance reports.
- yyy) To promote academic, scientific and industry collaboration to improve the mining operations, and to take corrective measures, the project proponent may identify local academic/research institutions as potential collaborators to undertake research activities of mines, ecological and social relevance
- zzz) To protect and enhance biodiversity of the mine and surrounding areas, the project proponent may collaborate with local Biodiversity Management Committees (BMC) in developing biodiversity parks, nurseries etc.
- aaaa) Efforts need to be made to identify wildlife movement corridors based on the historical data within the mine site and take corrective measures, if any.
- bbbb) Support the locals in alternative livelihoods development by promoting eco-tourism related capacity building etc.
- cccc) Implement all the recommendations made by NEERI with regards to the agricultural revival wherever applicable.
- dddd) Dust suppression plan must be in place, covering both within and outside along the roads passing through the villages. Drivers must be trained both on traffic and environmental safeguards. Speed governors must be fitted to the trucks. Speed must not exceed 40 kms per hour as most of the roads leading to the jetties are passing through the villages.

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- eeee) Online sensor based Air Monitoring Stations be installed along the transportation routes in consultation with GSPCB and integrated with server of GSPCB and software of DMG.
- ffff) A mandatory 100 meter buffer shall be maintained around the human settlement, Archaeological sites and religious structures.
- gggg) The Project Proponent shall abide by all the Circulars, Office Memorandum, Orders issued by the Directorate of Mines and Geology on transportation of Ore and Minerals.

**3. To decide on application received from Fomento Resources Private Limited for Block V-Advalpale-Thivim Mineral Block bearing Survey No. 22(P), 28(P), 29(P), 109(P), 110(P), 111(P), 112(P), 116(P), 117(P), 118(P), 119(P), 120, 121, 122(P), 123(P), 124(P), 125(9P) & 126(P), Adwalpale village, Bicholim taluka and Survey No. 86, Thivim village, Bardez taluka Goa for prior Environmental Clearance.**

The Director of Fomento Resources Private Limited Mr. Rajiv Kumar along with his EIA consultant Mr. M.S. Raju (Mineral Engineering Services, QCI-NABET ORG000756) appeared before the Committee and explained the details of the project.

**Decision:** After Scrutinizing the documents submitted by the Project Proponent the Committee decided to recommend the Authority for grant of Environmental Clearance under following General and specific conditions.

- a) The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
- b) The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
- c) The Project Proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC website where it is displayed.
- d) The copies of the environmental clearance shall be submitted by the Project Proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
- e) The Project Proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms /conditions.

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- f) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the Project Proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Authority/Ministry/Regional Office along with the Six-Monthly Compliance Report.
- g) Concealing factual data or submission of false/fabricated data may result in revocation of this Environmental Clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- h) The Authority/Regional Office of this MoEF&CC shall monitor compliance of the stipulated conditions. The project Authorities should extend full cooperation to the Officer (s) by furnishing the requisite data /information/monitoring reports.
- i) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- j) This issue with an approval of the Competent Authority.

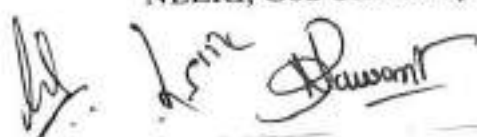
#### Specific Conditions

- a) The instant Environmental Clearance (EC) is subject to the outcome of the WP 592 of 2022 (MSPL v. State of Goa & Ors.) regarding challenging the constitutionality of the tender documents of Phase I auction of Goa mines and PIL WP 2029/2023 (F) (Suresh Govind Gaonkar & Ors v. Directorate of Mines and Geology & Ors) regarding challenging the state's decision to go ahead with the auction of the mining block.
- b) The Project Proponent shall monitor the air quality, noise level, water quality, water level and ground vibration during drilling and blasting at the edge of the mine, near the village, crusher and at other sensitive receptors and such collected data shall be submitted quarterly to this Authority/Ministry's Regional Office.
- c) The PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes. The Project Proponent shall ensure that the activities proposed under the Public Hearing is different from the CSR activities.
- d) The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report.
- e) The Project Proponent should adopt the proper mitigation measures as proposed under EMP. 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 personnel. The implementation status of the same shall be submitted to this Authority/Ministry's Regional Office.
- f) The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and

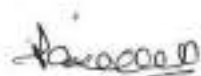
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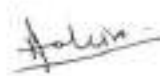
water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned Authority.

- g) The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- h) NoC from the Concerned Local Authority, shall be obtained before drawing the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the Project Proponent shall obtain such permission.
- i) 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. The preference shall be given to the local people for the purpose of employment as committed before the SEAC.
- j) 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 occupational health shall be carried out every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.
- k) The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to this Authority/ Ministry's Regional Office.
- l) The Hon'ble Supreme Court has imposed a capping on mining of iron ore to 20 MTPA for the entire State of Goa. Accordingly, the Project Proponent shall first obtain the necessary permission from the Competent Authority with regard to the amount of mineral they can mine per year, before starting its mining operation.
- m) The Project Proponent needs to obtain prior permission from the SEIAA for mining in common boundary as and when required.
- n) The Project Proponent needs to explore the feasibility for installing conveyor belt system for transportation.
- o) The mined out pits will be converted into water reservoirs, pond with other ecotourism facilities like water sports, boating, fishing etc., Pisciculture in mine pits will be developed and also the local community will be involved for cage fishing to make it a commercially viable venture.
- p) The ecology restoration or mine reclamation activities shall be carried out concurrently with mining operations. The Project Proponent shall ensure that the restoration models shall be developed in association with research institutes like NEERI, Goa University etc.

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- q) Regular monitoring and analysis of discharge water and at upstream and downstream of Bicholim and Asnora river needs to be carried out quarterly through NABL/MoEF&CC accredited laboratory.
- r) Extensive native fruit bearing plantation shall be carried out in all safety zones with density of 2500 trees/ha.
- s) The Project Proponent needs to complete the entire peripheral plantation under green belt, safetybarrier plantation and gap plantation within three years from the start of mining operations. The Project Proponent should plant quality sapling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. Plantation shall be undertaken in consultation with the State Forest Department. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to this Authority/ Ministry's Regional Office.
- t) The waste dump slopes shall be covered with laterite material and then with biodegradable geotextile mats to prevent the soil erosion of the dump slopes so as to facilitate the growth of native species.
- u) The Project Proponent needs to install the permanent water sprinklers along 3.40 km haul road within the ML area and 2.80 km length outside the ML area on either side of the road.
- v) The Project Proponent shall explore the possibility of replacing the existing trucks of 10.5 Tonnes with higher capacity trucks of 25 Tonnes in phased manner to reduce traffic load and emissions per tonne/km.
- w) Fugitive dust monitoring during transportation shall be monitored regularly at all the sensitive receptors and report shall be submitted quarterly to this Authority/ Regional Office. Regular sprinkling shall be done on roads to suppress the dust at the source.
- x) The Project Proponent shall adhere to the pollution control measures suggested by the State/Central Pollution Control Board in the environmental guidelines for crushing/screening activity.
- y) The wheel washing facility for the ore transport vehicles shall be provided at the exit point of the mine.
- z) The Project Proponent needs to strengthen the settling pond with proper stone pitching in line with the design of settling pond considering the annual rainfall, flow rate, catchment area and its discharge.
- aa) The catch drains and siltation ponds needs to be regularly maintained to arrest silt and sediments flow from dumps.
- bb) The Project Proponent needs to develop a nursery/Community plantation adjacent to the mineral block in consultation with State Forest Department. PP shall develop theme-based gardens like medicinal gardens, horticulture gardens, spice gardens etc.
- cc) The Project Proponent needs to use modern equipment's such as Camera Traps for ensuring presence and movement of wild animals in the vicinity of the mine lease area as well as in study area in consultation with Wildlife Wing of Forest Department. Appropriate interventions shall be taken to minimize stress conditions for wild animals and to avoid Man-Animal conflict.
- dd) The Project Proponent needs to explore the possibility of using advanced/ latest mining technologies available so as to minimize the ecological impacts.

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- ec) The Project Proponent should follow-up the status of implementation on Wildlife Conservation Plan from the Forest Officials and the same shall be submitted to this Authority/Ministry's Regional Office in the six monthly compliance report.
- ff) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- gg) The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- hh) The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- ii) The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- jj) The State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- kk) The Project Proponent should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change ([www.parivesh.nic.in](http://www.parivesh.nic.in)). A copy of the advertisement may be forwarded to the concerned Authority/MoEFCC Regional Office for compliance and record.
- ll) The Project Proponent shall inform this Authority/ MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred, PP needs to apply for transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.
- mm) The Continuous Ambient Air Quality Monitoring Stations (CAAQMS) shall be installed and commissioned in consultation with GSPCB. The real time data so generated should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of GSPCB and Mines & Geology Department to control transportation on the road. The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009

covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.

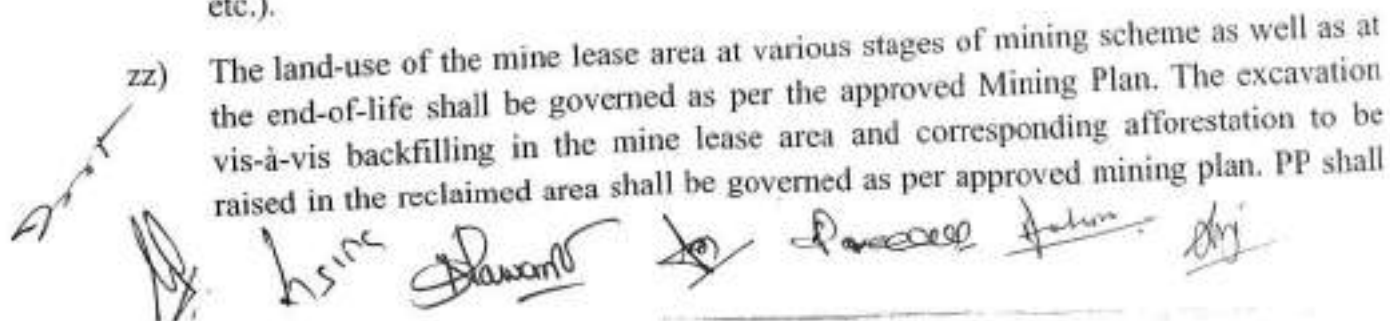
- nn) Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ State Pollution Control Board.
- oo) In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC/SEIAA is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- pp) The Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- qq) The Project Proponent shall undertake regular monitoring of natural water course/ water resources/springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per SPCB/CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of SEIAA/MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to this Authority/Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. clearly showing the trend analysis on six-monthly.
- rr) Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data

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shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The Circular No. J- 20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.

- ss) The Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to this Authority/ Regional Office MoEFCC annually.
- tt) Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
- uu) The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to this Authority/ Regional Office of the MoEF&CC and the State Pollution Control Board/Committee.
- vv) The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- ww) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
- xx) The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.
- yy) The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B& dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).
- zz) The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall

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ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to this Authority/MoEFCC and its concerned Regional Office.

- aaa) The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.
- bbb) The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
- ccc) Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.
- ddd) Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
- eee) As presented by the PP before SEAC transportation of mineral will pass through the dedicated mine and internal road, further will cross Mapusa-Bicholim State Highway (SH-1). The truck would then pass through Sircaim public road to Sircaim jetty. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
- fff) The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.



- ggg) The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by this Authority irrespective of the stipulation made in approved mine plan.
- hhh) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
- iii) The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
- iii) The Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
- kkk) The Project Proponent shall submit the time- bound action plan to this Authority within 6 months from the date of issuance of Environmental Clearance for undertaking the activities committed during public consultation by the Project Proponent in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.
- lll) The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to this Authority/ Concerned Regional Office of the MoEF&CC.
- mmm) The Project Proponent should inform to this Authority/Regional Office regarding date of financial closures and final approval of the project by the Concerned Authorities and the date of start of land development work.
- nnn) The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to this Authority & its Concerned Regional Office, and the State Pollution Control Board.

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- ooo) A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to this Authority.
- ppp) This Authority shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to this Authority/ Officer(s) by furnishing the requisite data / information / monitoring reports.
- qqq) In pursuant to Ministry's O.M No. 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
- rrr) This Authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- sss) Concealing factual data failure to comply with any or submission of false/ fabricated data and of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- ttt) The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter.
- uuu) Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- vvv) The project proponent must ensure that the socio-cultural including the religious sentiments of the surrounding villagers does not hamper due to unwanted restrictions.
- www) The Project Proponent must ensure that the silt and mine water does not flow into the agricultural lands which have been revived and are being cultivated by the locals. Adequate measure must be in place to prevent any such incidences. Efforts must be made to support agriculture practices wherever possible on a proactive basis.
- xxx) Wildlife conservation is of utmost importance. The location of mines and surrounding areas support variety of wildlife species. Project proponent must prepare wildlife management plan, validate it through the wildlife experts/department of forest and adhere to all the recommendations made and implement in letter and spirit. If the exercise is given to the forest department, the proponent must monitor the preparation and implementation. The same must be reported the compliance reports.
- yyy) To promote academic, scientific and industry collaboration to improve the mining operations, and to take corrective measures, the project proponent may identify local academic/research institutions as potential collaborators to undertake research activities of mines, ecological and social relevance









- zzz) To protect and enhance biodiversity of the mine and surrounding areas, the project proponent may collaborate with local Biodiversity Management Committees (BMC) in developing biodiversity parks, nurseries etc.
- aaaa) Efforts need to be made to identify wildlife movement corridors based on the historical data within the mine site and take corrective measures, if any.
- bbbb) Support the locals in alternative livelihoods development by promoting eco-tourism related capacity building etc.
- cccc) Implement all the recommendations made by NEERI with regards to the agricultural revival wherever applicable.
- dddd) Dust suppression plan must be in place, covering both within and outside along the roads passing through the villages. Drivers must be trained both on traffic and environmental safeguards. Speed governors must be fitted to the trucks. Speed must not exceed 40 kms per hour as most of the roads leading to the jetties are passing through the villages.
- eeee) Online sensor based Air Monitoring Stations be installed along the transportation routes in consultation with GSPCB and integrated with server of GSPCB and software of DMG.
- ffff) A mandatory 100 meter buffer shall be maintained around the human settlement, Archaeological sites and religious structures.
- gggg) The Project Proponent shall abide by all the Circulars, Office Memorandum, Orders issued by the Directorate of Mines and Geology on transportation of Ore and Minerals.

**4. Any other matter with permission of the chair.**

**i. To decide on suo moto matter of M/s. Eurostampa India Pvt.Ltd. bearing Plot No.I-26, Survey No. 93 Verna, Salcette,Goa**

The Director of M/s. Eurostampa India Pvt. Ltd. Mr. Jayesh Kadam along with his Technical consultant Mr. Shekhar Panandiker appeared before the Committee and explained the details of the project..

**Decision:** The Committee after scrutinizing the documents by the representative by the company, directed the company to submit the following details:

- a) Summary of cutting and filling involved in the project.
- b) Proper drainage pattern showing existing storm water drainage pattern and the proposed drainage pattern detailing there in the cross sections and connection to the public drains.
- c) Ecological drainage Assessment plan.

*The meeting ended with vote of thanks to the chair.*

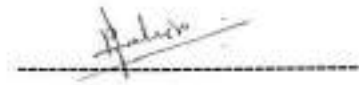
Dr. Nitin S. Sawant

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Dr. Jose Romeno Falcão



Mr. Sanjay Jahagirdar




Shri. Sujeet Kumar Mariappa Dongre



Shri. Sanjay Amonkar



Shri. Prasad Shashikant Rangnekar



**Er. Pascoal Barbosa Noronha**  
(Chairman Goa-SEAC)



**Shri. Sanjeev Joglekar**  
(Member Secretary Goa-SEAC)

Place: Patto-Panaji

Date: 14<sup>th</sup> June 2024





### Annexure – 1

The list of members who attended the meeting

Er. Pascoal Barbosa Noronha	Chairman(Goa –SEAC)
Shri. Sanjeev Joglekar	Member Secretary(Goa –SEAC)
Dr. Nitin S. Sawant	Expert Member (Goa –SEAC)
Dr. Jose Romeno Faleiro	Expert Member (Goa –SEAC)
Mr. Sanjay Jahagirdar	Expert Member (Goa –SEAC)
Shri. SujeetKumar Mariappa Dongre,	Expert Member (Goa –SEAC)
Shri. Sanjay Amonkar	Expert Member (Goa –SEAC)
Shri. Prasad Shashikant Rangnekar	Expert Member (Goa –SEAC)

**Annexure – 2**

**Agenda Items for 207<sup>th</sup> Goa State Expert Appraisal Committee (Goa – SEAC)  
meeting to be held on 14<sup>th</sup> June 2024 at 03:00 pm.**

1. To decide on application received from Bhumi Purusha Minerals Private Limited for Naquerim Bauxite Ore and Aluminous laterite mine bearing mining Lease No. 1/NSD/BAUXITE/85 over an extent of 40.92Ha located at Naquerim village, Quepem taluka, South Goa for prior Environmental Clearance.
2. To decide on application received from Rajaram Bandekar Mines Private Limited for Block III – Monte De Sirigao Mineral Block bearing Survey No. 47, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64, 69, 70, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 94, 95, 79 & road at Bicholim Goa for prior Environmental Clearance.
3. To decide on application received from Fomento Resources Private Limited for Block V-Advalpale-Thivim Mineral Block bearing Survey No. 22(P), 28(P), 29(P), 109(P), 110(P), 111(P), 112(P), 116(P), 117(P), 118(P), 119(P), 120, 121, 122(P), 123(P), 124(P), 125(9P) & 126(P), Adwalpale village, Bicholim taluka and Survey No. 86, Thivim village, Bardez taluka Goa for prior Environmental Clearance.
4. Any other matter with permission of the chair.