



सत्यमेव जयते

File No.: 458818/09-MIN/01-2024
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), ODISHA)



Dated 30/11/2024



To,

Sri. Bajarang Lal Gupta, Lease Holder
Sri. Bajarang Lal Gupta
7-5-7/4 Sri Radha Raman Kunj, Panduranga Puram Near Panduranga Swamy Tem, Visakhapatnam, A U
Engg College, Visakhapatnam, Andhra Pradesh, Pin-530003.
guptabjarang50@gmail.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed Mining Project under the provisions of
EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number
SIA/OR/MIN/458818/2024 dated 17/01/2024 for grant of prior Environmental Clearance (EC) to the
project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24B0000OR5368992N
(ii) File No.	458818/09-MIN/01-2024
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals Paikadakulguda Semi Precious Stone Cat's Eye Mines over an area of 38.316 Ha or 94.68 acres in village- Paikadakulguda, Kandhadakulguda and Badolima, Tahasil/PS-Bissam Cuttack District- Rayagada, State-Odisha.
(vii) Name of Project	Village- Paikadakulguda, Kandhadakulguda and Badolima, Tahasil/PS-Bissam Cuttack, District- Rayagada
(ix) Location of Project (District, State)	SEIAA, Odisha
(x) Issuing Authority	No
(xii) Applicability of General Conditions	No

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-2(Part A, B and C)/ EIA & EMP Report were submitted to the SEIAA, Odisha for an appraisal by the State Level Expert Appraisal Committee(SEAC) under the provision of EIA notification 2006 and its subsequent amendments thereto.
4. The above-mentioned proposal has been considered for EC by SEAC in its meeting held on 08.08.2024. The minutes of the meeting and all the project documents as submitted by project proponent are available on Parivesh portal which can be accessed from the Parivesh portal by scanning the QR Code above.
5. Details of the project along with the salient features of the project as submitted by the project proponent in Form-2(Part A, B and C)/ EIA & EMP Report and as presented before SEAC are annexed to this EC as Annexure- 2.
6. This proposal conforms to the item no. 1(a)-'Mining of Minerals in the schedule of EIA Notification, 2006 as amended time to time, and the mineral extraction project falls under Category B1.
7. The SEAC, after detailed deliberations made by the Project Proponent and the EIA Consultant, in its meeting held on 08.08.2024 under the provisions of EIA Notification 2006 and its subsequent amendments, recommended for grant of Environmental Clearance upto the lease period with various stipulated conditions and additional conditions.
8. The matter was again examined in the State Environment Impact Assessment Authority (SEIAA), Odisha in its 177th meeting held on 28.10.2024 & 29.10.2024, recommendation of SEAC and in accordance with the EIA Notification, 2006 and further amendments thereto. After detailed deliberations, the Authority approved the grant of EC as recommended by SEAC with specific and standard condition with additional conditions as enclosed in annexure.
9. Environmental Clearance (EC) is granted to the project upto the lease period under the provisions of EIA Notification No. S.O. 1533 (E) dated the 14th September, 2006 of the Government of India in the erstwhile Ministry of Environment and Forests, as amended from time to time for proposed mining of Semi Precious Stone Cat's Eye from Paikadakulguda Semi Precious Stone Cat's Eye Mines over a lease area of 38.316 Ha or 94.68 Acres located in village- Paikadakulguda, Kandhadakulguda and Badolima, Tahasil/PS-Bissam Cuttack, District-Rayagada by Sri. Bajarang Lal Gupta, Lease Holder '' with the following stipulations, environmental conditions and safeguards as given in Annexure- 1.
10. The Validity of EC shall be coterminous with lease period as per the lease deed executed with Govt. of Odisha.
11. The SEIAA, Odisha reserves the right to alter /modify the above conditions or stipulate any further condition in the interest of environment protection.
12. 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..
13. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
14. This issue with an approval of the Competent Authority.

Copy To

1. Joint Secretary (IA Division), Ministry of Environment, Forests and Climate Change Govt. of India, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi-110003 for information.
2. Additional Chief Secretary, Forests & Environment Dept., Government of Odisha for information.
3. Additional Secretary to Govt, Steel & Mines Department, Government of Odisha for information.
4. Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.
5. Additional Principal Conservator of Forests, Regional Office (RO), Ministry of Environment & Forests, A/3, Chandrasekharapur, Bhubaneswar for information.
6. Regional Director, CGWA, South Eastern Region, Bhujal Bhawan, Khandagiri, Bhubaneswar, Pin-751030.

7. The Director of Mines, Odisha, Bhubaneswar/DDM,Rayagada/Mining Officer,Rayagada for information and necessary action.
8. Collector & DM, Rayagada, District-Rayagada for Information and necessary action.
9. Guard file for record/Website/Parivesh Portal.

Annexure 1

Specific EC Conditions for (Mining Of Minerals)

1. Specific Conditions

S. No	EC Conditions
1.1	0.202 ha. of lands are agricultural lands. Therefore, kism of land shall be converted into appropriate Kism before start of mining. The PP shall submit surface right permission issued by the District Collector in respect of the lease area before start of operation.
1.2	The modified Mining Plan with the progressive mine closure map shall be approved before start of the mining and this lease area shall be included in the revised DSR,as applicable.
1.3	Haulage road shall be developed and maintained perennially and perpetually by the proponent in consultation with the concerned authority of the Govt.
1.4	The PP will implement the EMP with a budgetary allocation of Rs. 22.50 Lakhs as capital cost and Rs.12.5 Lakhs/annum as recurring cost.CER Cost-Rs. 18.40Lakhs to be spend for compliance of public hearing issues.

Standard EC Conditions for (Mining of minerals)

1. Statutory Compliance

S. No	EC Conditions
1.1	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.
1.2	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.
1.3	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.
1.4	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

S. No	EC Conditions
	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”.
1.5	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
1.6	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.
1.7	The Project Authorities 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 website of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned Regional Office of MoEFCC for compliance and record.
1.8	The Project Proponent shall inform the SEIAA,Odisha 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.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	The Project Proponent shall monitor critical parameters, relevant for mining operations, of air pollution viz. PM ₁₀ , PM _{2.5} , NO ₂ ; CO and SO ₂ etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PC1/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
2.2	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 ₁₀ and PM _{2.5} 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/ Central Pollution Control Board.

3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	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,

S. No	EC Conditions
	mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and 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.
3.2	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.
3.3	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 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. 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 Regional Office of Ministry of Environment, Forest and Climate Change,SPCB, 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 basis.
3.4	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.
3.5	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 Regional Office of MoEFCC annually.
3.6	Industrial waste water (workshop and waste water from the mine),if applicable 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.
3.7	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.
3.8	De-silting of agricultural lands in buffer zone and beyond including nearby Nalas/rivers perennially periodically and perpetually caused due to wash up of minerals/OB/dumps shall be done as per SOP

S. No	EC Conditions
	submitted. Retaining wall shall be constructed to ensure that no silt after wash up is escaped from the core / buffer zone of the mines.

4. Noise And Vibration Monitoring And Prevention

S. No	EC Conditions
4.1	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
4.2	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.
4.3	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.

5. Mining Plan

S. No	EC Conditions
5.1	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.).
5.2	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 the MoEFCC and its concerned Regional Office.

6. Land Reclamation

S. No	EC Conditions
6.1	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

S. No	EC Conditions
	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.
6.2	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.
6.3	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.
6.4	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.

7. Transportation

S. No	EC Conditions
7.1	No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. 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. [If applicable in case of road transport].
7.2	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

S. No	EC Conditions
	transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

8. Green Belt

S. No	EC Conditions
8.1	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 the SEIAA irrespective of the stipulation made in approved mine plan.
8.2	The PP shall plant "Ek Ped Maa Ke Naam" and the plantation shall be carried out in the earmarked greenbelt area as spelt out in the EIA/EMP report as a part of tree plantation campaign and the details of the same shall be uploaded in the MeriLiFE Portal (https://merilife.nic.in).
8.3	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 the Ministry's Regional Office.
8.4	The Project Proponent needs to complete the entire peripheral plantation under green belt, safety barrier plantation and gap plantation within three years from the start of mining operations. The PP should plant quality sampling of appropriate height of native and fruit bearing species. Plantation shall be undertaken in consultation with the State Forest Dept. PP needs to undertake the adequate bench plantation and on the terrace of the waste dumps to prevent the soil erosion.

9.

S. No	EC Conditions
9.1	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.
9.2	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.

S. No	EC Conditions
9.3	The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan, if applicable, as the case may be shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt and implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.

10. Public Hearing And Human Health Issues

S. No	EC Conditions
10.1	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.

11. Corporate Environment Responsibility (Cer)

S. No	EC Conditions
11.1	The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the SEAC, 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.
11.2	The activities proposed in action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the action plan and within the stipulated time frame. The status report on implementation of action plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.
11.3	Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the RO, Bhubaneswar, MoEF&CC, OSPCCB & SEIAA, Odisha.

12. Miscellaneous

S. No	EC Conditions
12.1	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 concerned Regional Office of the MoEF&CC.

S. No	EC Conditions
12.2	The Project Authorities should inform to the 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.
12.3	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the concerned Regional Office of Ministry, Central Pollution Control Board and State Pollution Control Board. It shall be mandatory for the project management to submit six (06) monthly compliance reports on post environmental monitoring in respect of the stipulated terms and conditions in this Environmental Clearance to the State Environment Impact Assessment Authority (SEIAA), Odisha, SPCB & Integrated Regional Office of the Ministry of Environment & Forest, Odisha, the respective Zonal Office of CPCB and the SPCB in soft copies on 1st June and 1st December of each calendar year. No hard copy of six (06) monthly compliance reports shall be accepted by SEIAA. The proponent shall upload the compliance report including results of monitored data, as applicable in the Parivesh website of the Ministry for monitoring of EC Conditions, failing which EC is liable to be revoked.
12.4	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 RO, MoEF&CC.
12.5	The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the RO, MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports. Further, the environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Odisha State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective to the concerned Regional Office(RO), Bhubaneswar of MoEF&CC, GoI, Central Pollution Control Board and State Pollution Control Board.
12.6	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.
12.7	The SEIAA, Odisha may revoke or suspend the EC, if implementation of any of the above stipulated conditions is not satisfactory. The SEIAA, Odisha reserves the right to alter /modify the above conditions or stipulate any further condition in the interest of environment protection.
12.8	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.
12.9	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

S. No	EC Conditions
	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.
12.10	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.
12.11	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.

Annexure 2

Details of Minerals Products & By-products

Name of the Mineral to be mined	Classification of mineral [Major/Minor]	Production capacity in MTPA	Remarks
Crysoberyl (Cat's eye)	Major	4.0E-4	Production from the lease area will be 40 Kg/Annum

1. **Proposal in Brief:**

The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under:-

- (i) This is a proposal of EC for mining of Semi Precious Stone Cat's Eye from Paikadakulguda Semi Precious Stone Cat's Eye Mines over a lease area of 38.316 Ha or 94.68 Acres located in village- Paikadakulguda, Kandhadakulguda and Badolima, Tahasil/PS-Bissam Cuttack, District- Rayagada filed by Sri. Bajarang Lal Gupta, Lease Holder.
- (ii) Category: As per the EIA notification 2006 and its subsequent amendments, proposed project falls in category B under schedule of Item 1(a)-Mining of minerals.
- (iii) Mining lease over an area of 41.485 hectares has been granted for a period of fifty (50) years vide letter No.254/SM, Bhubaneswar dated 07.01.2017. However, extent of the M.L area over 41.485 hectares has been reduced finally to 38.316 hectares as per the letter dated 05.05.2021.
- (iv) The Mining Plan along with PMCP was approved by Directorate of Mines & Geology, Steel & Mines Department, Govt. of Odisha, Bhubaneswar vide letter no. MPM/A/07-ORI/BHU/2021-22 dated 04.08.2021.
- (v) As it is a major mineral (Cat's eye), DSR has not been prepared.
- (vi) TOR details: Terms of Reference (TOR) is issued by SEIAA, Odisha Vide letter no: 4223/SEIAA dated 15.03.2022.
- (vii) Public Hearing Details: The Public Hearing meeting held on 20.07.2023 at 11.00 a.m. in Paikadakulguda village under Bissam Cuttack Tahasil of Rayagada District, Odisha. Issues raised during public hearing are regarding provision of health facilities, peripheral development of the village including road development, drinking water facility & other developmental work. A cost of Rs. 18.40 Lakhs has been allocated for implementation of activities proposed during public hearing.
- (viii) Location and connectivity: The project site of Paikadakulguda Semi Precious Stone Cat's Eye Mines is located in village, Paikadakulguda, Kandhadakulguda and Badolima, District-Rayagada. The project site is located in Toposheet. No 65 M/10 and latitudes varies from 19°34'07.80" N to 19°34'38.71" N and longitudes varies from 83°31'59.41" E to 83°32'29.07" E as per geodetic survey. Out of total area 28.899 Ha. of land is waste land (Pahad, Dangar, Patharbani & Patita), 0.202Ha. of land is under Agricultural Field (Dhana-II) and rest 9.215 comes under Dhoda & Basti Jogya land. Mining area is accessible from Muniguda, covering a distance of 5 km. It lies on the Bhawanipatna- Bissam Cuttack road. Bhawanipatna is the nearest head quarter and Bissam Cuttack nearer Tahasil situated at a distance 54 km and 8 km respectively south of Muniguda. The Nearest railway station is at Muniguda on the Raipur- Vizianagaram South East Railway. Kotagarh Elephant Reserve is situated 25km distance from the lease area.
- (ix) Total Reserves and proposed production: As estimated, Mineable Reserve is 304 Kg; Indicated Resources is 211 Kg; Inferred Resources is 93Kg and total production is 40Kg per Annum.
- (x) Mining method: Opencast semi-mechanized method of mining will be adopted in the M.L area on single shift basis with deployment of machines like 100mm dia DTH drill, 0.9m³ capacity excavator, 10T capacity tippers etc. Overburden will be excavated & loaded by the excavator and transported through 10 t capacity truck / tippers to the dumping site. Cat's Eye bearing pegmatite will be transported to the Cat's Eye sorting & picking yard where rock mass will be broken, if necessary and a part of Cat's Eye will be picked up & sorted manually. Remaining Cat's Eye stones from the excavated materials will be picked up / hand sorted after washing. Existing pit will be laterally developed up to a depth of 3m from surface level to produce Cat's Eye @28 kg / annum to 40 kg / annum.
- (xi) Waste generation and management: As the gemstone content is only 0.001% the entire excavated material there will be generation of large quantity of waste. In the washing unit the gemstone are separated and the waste material goes to the settling tank. The settled

mineral rejects in the form of sludge dried in a drying yard and then dumped. The Cat's Eye to waste ratio will be 1: 200 (Kg/Cu.m). During the conceptual period there will be generation of 138600 cu.m and will be stored over an area of 1.231 Ha of area. The waste will be transported from the quarry area to the dumping site through tippers.

Year	OB Generation (m ³)	OB to be Dumped (m ³)	Dumping Name	Location of Dump (Coordinates)	Existing or New Dump	Top RL of the Dump	No. of terrace proposed	Individual Terrace Height (m)	Slope of the terrace / dump
I	5600	5600	Dump	213S – 265S / 286W – 351W	New	313	1	7.5	37 ⁰ / 30'
II	6400	6400	do-	213S – 269S / 265W – 286W	-do-	313	1	7.5	37 ⁰ / 30'
III	7000	7000	-do-	212S – 276S / 243W – 265W	-do-	313	1	7.5	37 ⁰ / 30'
IV	7600	7600	-do-	216S – 286S / 220W – 243W	-do-	313	1	7.5	37 ⁰ / 30'
V	8000	8000	-do-	222S – 292S / 196W – 220W	-do-	313	1	7.5	37 ⁰ / 30'
Total	34,600	34,600	-	---	-	-	---	---	-

(xii) Water requirement: The water requirement of the washing plant is 6 KLD which will be sourced by tanker. Water used for washing of the gemstone will be recirculated in the process.

(xiii) Baseline study details: Baseline Study was conducted in the period March'2022 to May '2022.

- Ambient Air Quality: Concentration of PM10 varies from 38.1 to 62.2 µg/m³ and PM_{2.5} varies from 19.2 to 34.2 µg / m³. The conc. of SO₂ varies from 4.1 to 10.3 µg / m³ and NO_x conc. varies from 10.1 to 19.6 µg / m³.
- Surface water Quality: The pH range from 7.1 to 7.9. Total Dissolved Solids ranges from 110-154 mg/l. BOD ranges from 1.2 to 2.5 mg/l. COD ranges from 6 -20 mg/l. DO range is from 5.9 to 6.7 mg/l. Hardness of the water sample ranges from 56-92 mg/l. Iron ranges from 0.09-0.17 mg/l and it is within permissible limits. Fluoride is <0.005 and chloride range is from 10-22 mg/l i.e 10 mg/l. Heavy metals like Cu, Pb, Ag, Hg, B etc has been analysed and found to be below the detection limit in all the water samples collected for testing.
- Ground water Quality: Water is colourless and odourless and found to be suitable for human consumption. The pH level of the ground water sample ranges from 7.0 to 7.7. Total hardness ranges from 64 to 108 mg/l, and total dissolved solid ranges from 84 to 136 mg/l. Fluoride is <0.05 mg/l and chloride is 8-20 mg/l. Fluoride content of the ground water sample is within the prescribed limit. Alkalinity ranges from 28 to 56 mg/l. Heavy metals like, Pb, Cr, Hg, Cd & As are not detected in the ground water sample this indicates that the water is free from any heavy metal contamination.

- Soil Quality: Soil of the area is mostly sandy loam and reddish brown in colour. pH of the soil samples are almost in neutral ranges i.e. varies from 6.3 to 7.0 i.e. slightly acidic to neutral. Available organic Nitrogen varies from 231 to 264 kg/Ha which is in considered as low nitrogen content. Available Phosphorus content in soil samples 16 to 23 kg/Ha medium content of phosphorous in the soil samples of the area. The soil samples indicate that the availability of Potassium ranges from 148 -309 kg/Ha which medium in potassium content. Organic carbon ranges from 1.2 to 1.6 % which is sufficient in the soil samples.
 - Noise Quality: Noise level ranges from 40.4 to 53.4 dB during day time and 32.6 to 43.9 dB during the night time.
- (xiv) Greenbelt development: The green belt is proposed to be developed in a width of 7.5 m in safety zone along the boundary of mine lease area covering 2.190 ha with 5475 saplings. During the conceptual period dump area of 1.221 Ha will be reclaimed with plantation of 3050 saplings and 1.616 Ha of with 4040 saplings. An amount of Rs.4,50,000 has been allocated for development of greenbelt and annual expenses for green belt maintenance will be Rs. 2,00,000.00.

Year	Location	Area Proposed (Ha.)	Spacing (m)	No. of Saplings required	Name of Saplings
1 st	Safety zone along M.L boundary	1.0	2.0	2500	Mango, Neem, Mahaneem, Chakunda, Accacia, Eucalyptus etc. as per soil condition
		1.19	2.0	2975	-do-
2 nd					
Total	---	2.19	---	5475	---
Conceptual period	Dump	1.221	2.0	3050	Mango, Neem, Mahaneem, Chakunda, Accacia, Eucalyptus etc. as per soil condition
	Reclaimed Quarry	1.616	2.0	4040	Mango, Neem, Mahaneem, Chakunda, Accacia, Eucalyptus etc. as per soil condition

- (xv) Manpower requirement: A total of 74 nos. of will be employed in the proposed mine.
 - (xvi) Project cost: Total project cost of the mining is 320 Lakhs, EMP Capital cost includes 22.50 Lakh and recurring cost is 12.5 lakh mine.
 - (xvii) Environment Consultant: The Environment consultant M/s Kalyani Laboratories Private Limited, Bhubaneswar along with the proponent made a presentation on the proposal before the Committee on 08.08.2024.
 - (xviii) Any deficiencies/omission have been noticed in the above documents- This is a new source is not entered in the DSR of Rayagada District.
2. **Whether SEAC recommended the proposal:-**Yes. The proposal was placed in SEAC meeting held on 08.08.2024 and considering the information furnished and the presentation made by the consultant, M/s Kalyani Laboratories Pvt. Ltd., Bhubaneswar along with the project proponent, the SEAC recommended for grant of Environmental Clearance upto the lease period with stipulated conditions and following additional conditions:-
- (i) 0.202 ha. of lands are agricultural lands. Therefore, kism of land shall be converted into appropriate Kism before start of mining.
 - (ii) Modified mining plan with the progressive mine closure map shall be approved before start of the mining.

- (iii) Haulage road shall be developed and maintained perennially and perpetually by the proponent in consultation with the concerned authority of the Govt.
- (iv) The project proponent shall maintain periodic health check-up records of their employees and ensure use of face mask by workers in crushing and handling sections of the decorative stone quarry for ensuring that working personnel are not affected by silicosis.
- (v) The project proponent shall undertake re-grassing of the area or any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for fodder, flora, fauna etc. after ceasing mining operation that is at the time of mine closure.
- (vi) Detail risk and hazard management procedure as per the Annexure – D shall be followed by the lessee.

3. **Decision of Authority:-**The proposal was placed in the 177th meeting of SEIAA held on 28.10.2024 & 29.10.2024 for consideration of EC. After detailed deliberations, the Authority approved the grant of EC as recommended by SEAC with specific and standard condition with the following additional conditions as below:-

- (i) The modified Mining Plan with the progressive mine closure map shall be approved before start of the mining and this lease area shall be included in the revised DSR.
 - (ii) The PP is required to submit the document for land status conversion.
 - (iii) The PP will implement the EMP with a budgetary allocation of Rs. 22.50 Lakhs as capital cost and Rs.12.5 Lakhs/annum as recurring cost.
- a) The PP replied to the ADS of SEIAA.

