



सत्यमेव जयते

File No.: 458577/08-MIN/01-2024

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority (SEIAA),
ODISHA)



Dated 12/03/2024



To,

Satyajit Das
M/s Excellent Granites, D No-7-17-17/1, Flat No-302, Vrundavan Apartment, Vishakhapatnam, Flat
No-302 Vrundavan Apartment Vishakhapatnam, VISAKHAPATANAM, ANDHRA PRADESH,
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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/458577/2024 dated 15/01/2024 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.	EC24B0000OR5470551N
(ii) File No.	458577/08-MIN/01-2024
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals Gada Govindapur Decorative Stone mine over an area of 30.05 Acres or 12.161 Ha in village Gada Govindapur of Digapahandi Tahasil in Ganjam District, Odisha
(vii) Name of Project	
(ix) Location of Project (District, State)	Ganjam, Odisha
(x) Issuing Authority	SEIAA
(xii) Applicability of General Conditions	No

Annexure 1

1. Specific Conditions

S. No	EC Conditions
1.1	<p style="text-align: right;"><u>ANNEXURE -D</u></p> <p style="text-align: center;">CONDITIONS TO BE STIPULATED IN ENVIRONMENTAL CLEARANCE FOR Decorative stone Mines & Stone quarry</p> <p><u>A. Specific conditions</u></p> <ol style="list-style-type: none">1. The Project Proponent shall obtain consent from the State Pollution Control Board, Odisha and effectively implement all the conditions stipulated therein.2. Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities.3. Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages. The Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.4. Project Proponent shall ensure the safeguard and wellbeing of villagers and school, regular health monitoring of all residents in the area and the compliance Report shall be submitted to the Regional office of the Ministry and SEIAA, Odisha. <p><u>B. Standard conditions</u></p> <ol style="list-style-type: none">1. A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the SEIAA, Odisha 5 years in advance of final mine closure for approval.2. No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.3. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Odisha.4. No change in the calendar plan including excavation, quantum of mineral and waste should be made.5. The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) for the project.6. Mining shall be carried out as per the provisions outlined in the approved mining plan as well as by abiding to the guidelines of Directorate General Mines Safety (DGMS).7. Protection of vegetation in the surrounding areas, and proper storage of solid waste, subgrade ore and their use have to be given priority during mining operation.8. Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment, Forest and Climate Change its Regional Office and SEIAA, Odisha.9. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.10. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The project proponent shall ensure that no natural water course and/or water

S. No	EC Conditions
	<p>resources shall be obstructed due to any mining operations. The monitoring shall be carried out four times in a year pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board.</p> <p>11. Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.</p> <p>12. 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 light/night hours.</p> <p>13. Sufficient number of Gullies to be provided for better management of water. Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.</p> <p>14. There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.</p> <p>15. The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of dozer/compactors.</p> <p>16. The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adopted to that micro climate.</p> <p>17. The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.</p> <p>18. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall</p>

S. No	EC Conditions
	<p>be constructed at the corners of the garland drains and desilted at regular intervals.</p> <p>19. Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department and as per CPCB Guidelines. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.</p> <p>20. The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.</p> <p>21. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.</p> <p>22. As per the Company Act, the CSR cost should be 2 % of average net profit of last three years. Hence CSR expenses should be as per the Company Act/Rule for the Socio Economic Development of the neighborhood Habitats which could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.</p> <p>23. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p> <p>24. Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.</p> <p>25. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.</p> <p>26. 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.</p> <p>27. The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Central Pollution Control Board and State Pollution Control Board.</p> <p>28. A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.</p> <p>29. State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.</p> <p>30. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest and Climate Change at www.environmentclearance.nic.in and a copy of the same should be forwarded to the Regional Office.</p> <p>31. The SEIAA, Odisha may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.</p> <p>32. Any appeal against this 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.</p> <p>33. The above mentioned stipulated conditions shall be complied in a time-bound manner. Failure to</p>

S. No	EC Conditions
	comply with any of the conditions mentioned above may result in cancellation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

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 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 web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.
1.8	The Project Proponent shall inform the 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.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	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.
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 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/ 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, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC 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 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 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

S. No	EC Conditions
	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 MoEFCC annually.
3.6	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.
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.

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 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 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 Ministry irrespective of the stipulation made in approved mine plan.

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

S. No	EC Conditions
	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.

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.

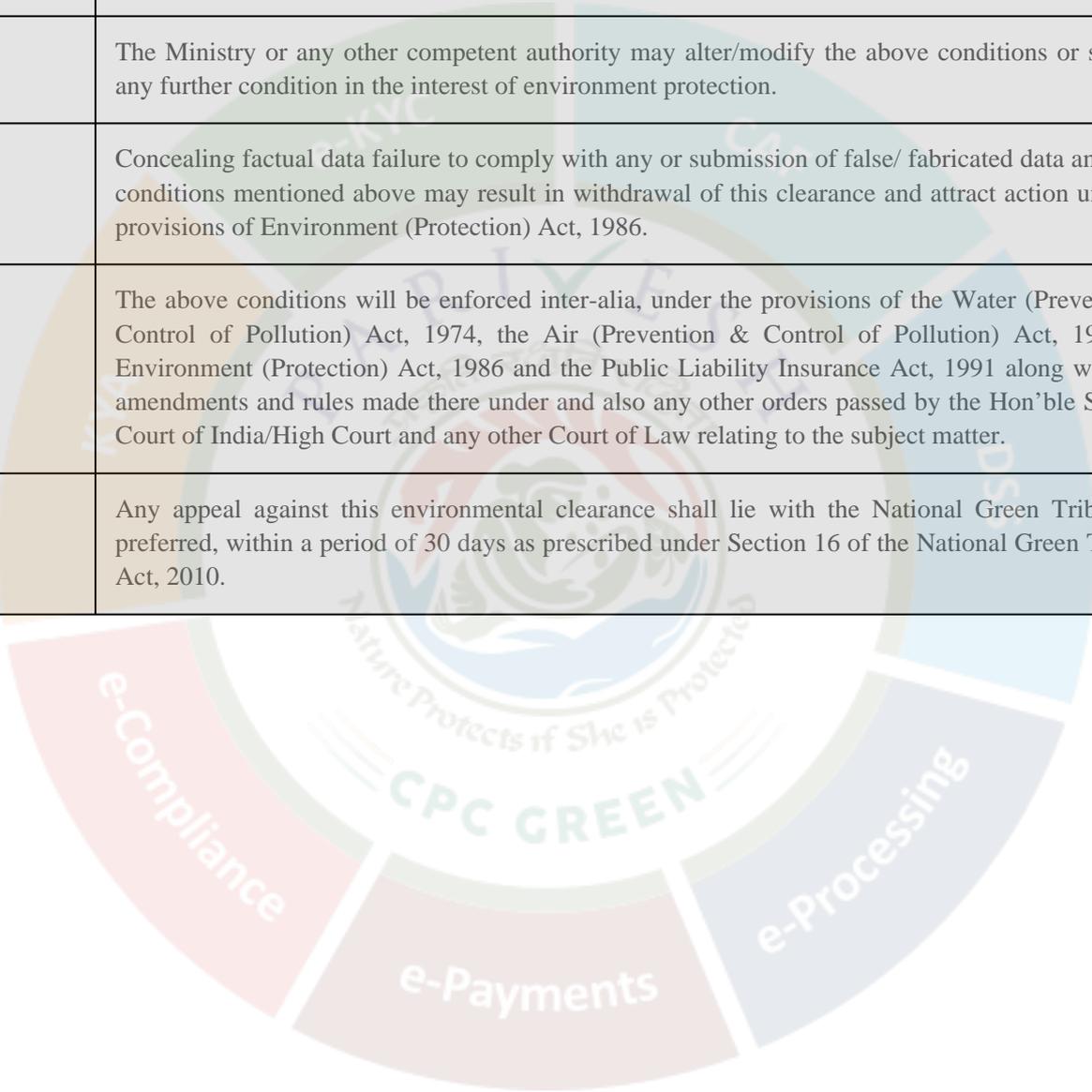
11. Corporate Environment Responsibility (Cer)

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 EAC, 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.

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.
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 MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.
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.

S. No	EC Conditions
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 MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.
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 Ministry or any other competent authority may 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 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	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.





SEIAA File No. 458577/08-MIN/01-2024

Subject: Application of M/s Excellent Granites for EC for mining of Decorative Stone from Gada Govindapur Decorative Stone Deposit over a ML area of 30.05Acres or 12.161Ha located in Village- Gada Govindapur, Tahasil-Digapahandi, District- Ganjam -Environmental Clearance reg.

This has reference to your online proposal No. SIA/OR/MIN/458577/2024 dated 15.01.2024, submitted to SEIAA, Odisha for grant of Environmental Clearance (EC) for mining of Decorative Stone from Gada Govindapur Decorative Stone Deposit over a ML area of 30.05Acres or 12.161Ha located in Village- Gada Govindapur, Tahasil-Digapahandi, District- Ganjam of M/s Excellent Granites filed by Sri. Satyajit Das, Power of Attorney Holder in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act,1986 and subsequent amendments thereto.

2.Proposal in Brief:-

Proposal No.	SIA/OR/MIN/458577/2024
Date of application	15.01.2024
File no.	458577/08-MIN/01-2024
Project Type	New EC proposal
Category	B1
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for EC of Gada Govindapur Decorative Stone mine over an area of 30.05 Acres or 12.161 Ha in village Gada Govindapur of Digapahandi Tahasil in Ganjam District, Odisha.
Name of the company/Organization	Applicant: M/s Excellent Granites; Sri Satyajit Das, Power of attorney Holder
Location of Project	Village- Gada Govindapur, Tahasil-Digapahandi, District-Ganjam
ToR Date	17.01.2023

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3. Project Details: The highlights of the proposal as ascertained from the application as submitted by PP and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

- (i) This is a proposal of M/s Excellent Granites for EC for Mining of Decorative Stone from Gada Govindapur Decorative Stone Deposit over a ML area of 30.05 Acres or 12.161 Ha located in Village- Gada Govindapur, Tahasil- Digapahandi, District- Ganjam filed by Sri. Satyajit Das, Power of Attorney Holder.
- (ii) The PP has submitted that the applied Mining lease area over 12.161 Hectares was granted by Department of Steel & Mines, Govt. of Odisha vide Letter No. 5767/(IV (DS) SM-35/2010)/ Bhubaneswar, on dated 27.06.2015 M/s Excellent Granites for a period of 30 years.
- (iii) The Mining Plan along was approved by The Directorate of Mines, Odisha, Bhubaneswar vide letter no.MXXII-(a)-10/2016/7687 on dated 21.08.2017 for a period of five years.
- (iv) In the approved DSR, the said project is reflected on page no. 37 or Sl. No. 8. and there is no other mine located in the 500meters radius of the said mining project.
- (v) TOR Details: Terms of Reference (TORs) was issued by SEIAA, Odisha Vide File No: SIA/OR/MIN/402549/2022 dated 17th January 2023; 4223/SEIAA for undertaking detailed EIA studies.
- (vi) Public hearing details: The Public Hearing meeting held on 03.11.2023 at 11.00 am in front of Thakurani temple of Gada Govindapur village over plot nos. 609, 610 & 611, khata no. 61 under Digapahandi tahasil of Ganjam district Odisha. Issues raised during public hearing were on local development, local employment, development of School, Protection of temple, Protection to natural environment and green belt development, the lessee undertake mining by diamond wire saw cutting and not by blasting, issues of blasting such as cracks in houses and temples, protection of domestic animals, Maintenance and repairing of existing roads. Total amount for compliance of issues of public hearing is 17 lakhs.
- (vii) Location and connectivity: The proposed project is for mining of decorative stone located in Village Gada Govindapur under Tahasil Digapahandi, District Ganjam, Odisha, over an area of 12.161 Ha. or 30.05 Acre in favour of M/s Excellent Granites, Vrundavan Apartment, Kirlampudi layout, Vishakhapatnam-530023, Andhra Pradesh. The mining lease area is in the Survey of India Toposheet no. E45A12, with the co-ordinates of Latitude 19°13'17.1" N to 19°13'32.4" N & Longitude 84°32'01.4" E to 84°32'14.8"E. The land use pattern of the mining lease

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area comes under the non forest waste land (Abada Ajogya Anabadi), bearing Khata no.1011, Plot no. 559, 560, 561, 562, 563 & 564. Kissam: Parbata. The total area granted for mining lease is coming within the non forest waste land. Nearest railway stations is Berhampur Railway Station located at a distance of 28.60 Km. The lease area can be approached from NH 16 & SH 29 at a distance of 19.40Km & 2.20 Km. Bahuda River at a distance of 1.06 Km. Nearest Airport is Biju patnaik International Airport which is situated at a distance of 176 Km. Lakhari Valley Wildlife Sanctuary is situated 12km distance from the lease area.

- (viii) The PP has submitted that there are no National parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors; Tiger/Elephant reserves (existing as well as proposed) present within 10 km of the applied mine lease area.
- (ix) Total Reserves and proposed production: As estimated, the total geological resource is 49,02,810 Cum and Mineable Reserve is 37,19,650 Cum. Volume of maximum Decorative Stone to be produced is 11,550 cum/annum. Maximum excavation of rocks is 21,000 Cu.m/ Annum.

Year	Total volume of Rock Mass (m ³)	volume of Blocks (m ³)	Volume of Rock as Khanda (m ³)	Total quantity of Decorative Stone (m ³)	Volume of Presently Non Saleable (m ³)	Volume of Waste (m ³)
1 st Year	15240.00	6096.00	2286.00	8382.00	3048.00	3810.00
2 nd Year	17275.00	6910.00	2591.00	9501.00	3455.00	4319.00
3 rd Year	20450.00	8180.00	3067.00	11247.00	4090.00	5112.00
4 th Year	20300.00	8120.00	3045.00	11165.00	4060.00	5075.00
5 th Year	21000.00	8400.00	3150.00	11550.00	4200.00	5250.00
Total	94265.00	37706.00	14139.00	51845.00	18853.00	23567.00

- (x) Mining method: The mine will be worked by semi mechanized means by deploying standards mining equipment suitable for decorative stone mine working. Volume of maximum Decorative Stone to be produced 11,550 (c.u.m)/annum and Maximum

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excavation of rocks 21,000 Cu.m/ Annum. The ultimate depth of the quarry will be 50 mRL. The equipment utilized for transportation of material, water sprinkling and stone cutter. Equipment like Hydraulic Excavator, Compressor, Jack hammer, LD 4 Machine, Drill Rods and Hammers, Truck and Tipper, Chiesel and Hammers, DG Set, Water tanker, Jeep, Ambulance and Safety equipment.

- (xi) Waste generation: During the course of mining plan period, the total rock mass of 23567 m³ of waste will be generated. During the conceptual plan period 8,83,822 m³ waste will be generated. However about 70% of the generated waste will be utilized for maintenance and construction of the haul road, approach and existing roads in the surrounding areas periodically. Therefore, a total of 16497 m³ of waste will be utilized for construction and maintenance of roads and remaining 7070 m³ of waste will be stacked within 5 benches over 0.900 Ha. area with an average height of 10 m.
- (xii) Baseline details: Base line data has been generated during December'2022 to Febuary'2023. All the parameters w.r.t to air quality, water quality and soil quality are within the prescribed limits as per the provision of CPCB guidelines.
- (xiii) Water requirement: Total water requirement for the project will be 7.5 KLD out of which 3.5KLD will be required for drinking and domestic purpose and 2.0 KLD for plantation and 2.0 KLD for dust suppression purpose.
- (xiv) Power/Fuel requirement: The requirement of fuel/power is mainly for mineral transport, office lighting etc. Fuel (Diesel) would be used for operating equipment and heavy machinery.
- (xv) Greenbelt: An amount of Rs.4,00,000 has been allocated for development of greenbelt as capital cost and annual expenses for green belt maintenance will be Rs. 1,00,000.00 as recurring cost.

Year	Area to be planted (m ²)	No. of Saplings	Type of species to be Planted	Location
1 st Year	10160	2600	Amla, Neem, Mango, Gamhari, Kasi, Bahada, Jamun, and Bamboo	Along the Safety Zone
Conceptual period	70000	8000	Jamun, Chakunda, Bamboo, Agave	Reclaimed quarry area
	9000	1400	Jamun, Chakunda, Bamboo, Agave	Reclaimed dump area

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3 rd Year Plan Period	1000	200	Jamun, Krushnachuda	Chakunda,	Road plantation	Side
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- (xvi) Manpower requirement: The mining activity will generate employment for 100 numbers which includes skilled worker, unskilled worker & office staffs.
- (xvii) Project cost: The project cost is estimated to be Rs 80.00 lakhs and there is a budgetary provision of Rs 12.50 lakhs as capital cost & Rs 6.00 lakhs as annual recurring cost towards environmental protection measures.
- (xviii) The proponent along with the Environment consultant M/s Kalyani Laboratories Private Limited, Bhubaneswar made a detailed presentation on the EIA/EMP before the SEAC on 01.02.2024.
4. 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 specified minor mineral extraction project falls under Category B1 as the mining lease area is more than 5ha.
5. The SEAC have appraised the proposal for consideration of EC in its meeting dated 01.02.2024 and recommended for grant of Environmental Clearance for the project valid upto the lease period stipulating various conditions.
6. The matter was further examined in the State Environment Impact Assessment Authority (SEIAA), Odisha in its 157th meeting held on 22.02.2024, recommendation of SEAC for grant of environmental Clearance in accordance with the EIA Notification, 2006 and further amendments thereto. After detailed deliberation in the matter, the Authority decided to grant EC with usual stipulated conditions as applicable for decorative stone quarry along with additional specific conditions.
7. **Environmental Clearance (EC) is granted to the project 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 Decorative Stone from Gada Govindapur Decorative Stone Deposit over a ML area of 30.05 Acres or 12.161Ha located in Village- Gada Govindapur, Tahasil- Digapahandi, District- Ganjam by M/s Excellent Granites" with the following stipulations (specific and standard), environmental conditions and safeguards.**

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Stipulations:

A. Specific Condition:

- (i) Maximum quantity of extraction shall be limited to 21000 cum/annum (rocks) and 18750 cum/annum (decorative stone).
- (ii) This EC is valid till the validity of DSR or validity of lease period as granted by Competent Authority, whichever is earlier.
- (iii) The Grant of EC for further period will be considered after submission of approved DSR by SEIAA as per the MoEF& CC, Govt. of India Notification S.O. 3611(E) dated 25.07.2018, Sustainable sand mining guidelines-2016 and Enforcement & Monitoring Guideline for sand mining-2020 and also as per the Hon'ble Supreme Court order vide its order dated 10.11.2021 in Civil Appeal Nos. 3661-3662 of 2020 (State of Bihar Vrs. Pawan Kumar and Others).
- (iv) Haulage road shall be developed and maintained perennially and perpetually by the proponent in consultation with the concerned authority of the Govt.
- (v) 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.
- (vi) The project proponent shall undertake re-grassing of the area or any other area which may have been disturbed due to their mining activities.
- (vii) The site has no approach road from the mine site till the revenue road Thus, required permission for approach road need to acquire and due procedure to construct the road be followed before commencement of mining.
- (viii) Measures shall be taken to maintain the slopes in stable condition.
- (ix) Provisions shall be made to store the surface runoff within the mining lease. Garland drains and settling ponds of adequate capacity shall be constructed. No water shall be discharged outside the mining lease without proper treatment.
- (x) Adequate measures to be followed for dust suppression, noise control and solid waste management during the mining activities.

B: ENVIRONMENTAL CONDITIONS AND SAFEGUARDS WHICH NEED TO BE COMPLIED WITH BY THE LESSEE BEFORE QUARRY OPERATAION:

- 7.1 **Boundary Demarcation:** - The boundary of the lease area shall be demarcated on ground at the project cost, by erecting 1.20 meter (4 feet approx.) high reinforced

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concrete pillars above ground, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates by any empanelled agency of ORSAC.

- 7.2 **Digital Map:-** A digital map (in KML format as well as PDF version) showing GPS coordinates of all boundary pillars duly countersigned by the concerned mining officer shall be submitted to SEIAA, Odisha through email at info.seiaaodisha@gmail.com.
- 7.3 **Intimation of EC:** - The copies of the EC shall be sent to the Sarpanch(s) of the concerned Gram Panchayat(s), Urban Local Bodies and relevant other Offices of the Government with a request to display the same for 30 days from the date of receipt.
- 7.4 **Tree Plantation:** - Compensatory Tree Planting (CTP) shall be carried out with minimum @100 trees per Ha. of lease area as per the approved cost norm for avenue plantations of the State Forest Department. The Project Proponent (lease holder) shall deposit Rs.6,00,000/- with the respective DFO/District Environment Society for raising 1200 plants of native species within 2 years.
- 7.5 The copies of the EC shall be sent to the Sarpanch(s) of the concerned Gram Panchayat(s), Urban Local Bodies and relevant other Offices of the Government with a request to display the same for 30 days from the date of receipt.
- 7.6 The Project Proponent shall obtain consent from the State Pollution Control Board, Odisha and effectively implement all the conditions stipulated therein.
- 7.7 The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest and Climate Change at www.environmentclearance.nic.in and a copy of the same should be forwarded to the Regional Office.
- 7.8 State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.
- 7.9 Necessary Permission should be taken from the concerned authority for use the panchayat/village road for transportation before operation of mine.
- 7.10 The EMP budget of Rs. 12.50 Lakh as capital cost & Rs. 6.00 lakhs as annual recurring cost towards environmental protection measures will be expend for dust

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suppression, maintenance of transportation road, monitoring, etc. The PP shall expend Rs. 17.0 Lakh towards CER Cost for compliance of public hearing issues and Rs. 4.0 Lakh to be spent for green belt as proposed.

C. SPECIFIC ENVIRONMENTAL CONDITIONS AND SAFEGUARDS WHICH NEED TO BE COMPLIED ON FIELD DURING OPERATION.

Air quality monitoring and preservation

- 7.11 Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5} such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. Establishment of ambient air quality monitoring locations shall be done as per CPCB guidelines in this regard.
- 7.12 Data on ambient air quality (PM_{2.5}, PM₁₀, SO₂, NO_x) shall be regularly submitted to the Integrated Regional office of Ministry, Bhubaneswar and the State Pollution Control Board, Odisha as a part of six monthly compliance report.

Water quality monitoring and preservation

- 7.13 No extraction of ground water and no drawl of any surface water for operation of mine shall be allowed at any case except drinking purpose with due permission from CGWA. The PP shall use the water from rainwater harvesting pit and pondage of surface water for mining activity and sprinkling of waste for dust suppression.
- 7.14 Sufficient number of Gullies to be provided for better management of water. Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to the Integrated Regional Office of Ministry & SPCB, Odisha on six monthly basis each year.
- 7.15 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

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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.

- 7.16 All mine discharge waste water should have treatment and after treatment shall be used in sprinkler to control fugitive dust emission.
- 7.17 The project proponent shall take adequate measure for Zero-discharge of water outside the mining area. All rainwater falling in the mining area shall be conserved within the mine area.
- 7.18 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 submitted.

Mining Plan

- 7.19 The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.
- 7.20 The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Integrated Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
- 7.21 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-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved

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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 concerned Integrated Regional Office of Ministry & SPCB, Odisha .

Land reclamation

- 7.22 The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adopted to that micro climate.
- 7.23 The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of dozer/compactors.
- 7.24 The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geotextiles shall be undertaken for stabilization of the dump, if applicable. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to Integrated Regional Office of Ministry & SPCB, Odisha as a part of six monthly compliance report.
- 7.25 Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and topsoil / OB / waste dumps to prevent runoff 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. Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Integrated Regional

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- Office of Ministry & SPCB, Odisha as a part of six monthly compliance report.
- 7.26 The Over burden (O.B.) of reject/waste 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 dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The top soil shall be used for land reclamation and plantation.
- 7.27 The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.
- 7.28 The mining lease holders shall, after ceasing mining operations, undertake re-grassing 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.

Transportation

- 7.29 Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.
- 7.30 Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/dumpers carrying the mineral should not be allowed to pass through the villages. The Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.

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- 7.31 Project Proponent shall ensure the safeguard and wellbeing of villagers and school, regular health monitoring of all residents in the area and the compliance Report shall be submitted to the Integrated Regional office of the Ministry.
- 7.32 The Main haulage road within the mine lease should be provided with a permanent water 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 equipment 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.

Green Belt

- 7.33 Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department and as per CPCB Guidelines. Greenbelt shall be developed all along the mine lease area within first two years.
- 7.34 The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department, if applicable. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.
- 7.35 If the Project proponent expanding the fresh area involving cleaning of vegetation, all standing sapling of 14cm girth near base should be extracted carefully and replanted at suitable location in the un-worked area.
- 7.36 Un-established sapling within the operational area shall be replanted in the un-worked area within the lease.
- 7.37 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

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- selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered.
- 7.38 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.
- 7.39 The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area (around 10Km radius from project site). Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.

Human Health issues & Public Hearing

- 7.40 The budget of Rs 17.00 lakhs shall be spent addressing the issues raised during the Public Hearing and this shall be completed as per the budgetary provisions as mentioned in the action plan and within a stipulated time frame as submitted in the Final EIA/EMP Report. The Status Report on implementation of action plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration. The project proponent shall comply in true spirit all the issues raised and recorded in proceedings of public hearing w.r.t. environment / pollution / CER shall be complied by the Mining Authority as per OM F. No. 22-65/2017-IA.III, dated 30.09.2020 of MoEF&CC, Govt. of India.
- 7.41 Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old

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- age people of the surrounding villages maybe provided medical facilities.
- 7.42 The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- 7.43 Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
- 7.44 Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- 7.45 Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- 7.46 The PP shall expend for drinking water facility, shelter & sanitation, Health facility and first aid kit and for fuel for cooking for workers who are going to be engaged in the mining activity.

Miscellaneous

- 7.47 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 Integrated Regional Office of the MoEF&CC,GoI.
- 7.48 A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the SEIAA, Odisha 5 years in advance of final mine closure for approval.
- 7.49 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.
- 7.50 **Concomitant Monitoring:** - The conditions stipulated in the environmental clearance will be closely monitored on the ground by the lease granting authority, i.e. the Mining Officer, who shall ensure compliance of the stipulated conditions and take corrective measures promptly in case of any non- compliance and also ensure that the project proponent submits six monthly compliance reports to IRO, MoEF & CC,GoI, OSPCB, SEIAA, Odisha.
- 7.51 **Independent Monitoring:** -The concerned Integrated Regional Office(IRO) of the MoEF & CC/ SPCB, Odisha shall periodically monitor compliance of the

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stipulated conditions as applicable for this project. The project authorities should extend full cooperation to the MoEF & CC officer(s)/SPCB officer(s) by furnishing the requisite data / information / monitoring reports.

- 7.52 **Half-yearly Compliance Report:** - It shall be mandatory for the project management to submit half yearly compliance reports on the status of implementation of the above stipulated environmental safeguards to Integrated Regional Office of the MoEF& CC,GoI Bhubaneswar in soft copies on 1st day of June and December of each calendar year. No hard copy of Six-Monthly Compliance report shall be submitted to SEIAA. The proponent shall upload the six- monthly compliance report including results of monitored data, as applicable in the website of the Ministry(www.parivesh.nic.in) for monitoring of EC Conditions, failing which EC is liable to be revoked.
- 7.53 **Revocation of EC:** -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.
- 8 Any appeal against this 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.
- 9 The above-mentioned stipulated conditions shall be complied in a time-bound manner. Failure to comply with any of the conditions mentioned above may result in cancellation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

Yours Faithfully,


Member Secretary

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. **Member Secretary**, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.

DH



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA

5RF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3510075, Email: seiaaodisha@gmail.com

statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment (Protection) Act, 1986)

4. **Additional Principal Conservator of Forests**, Integrated Regional Office (IRO), Ministry of Environment & Forests, A/3, Chandrasekharpur, Bhubaneswar for information.
5. **Regional Director**, CGWA, South Eastern Region, Bhujal Bhawan, Khandagiri, Bhubaneswar, Pin-751030.
6. **The Director of Mines**, Odisha, Bhubaneswar/**Mining Officer**, Ganjam for information and necessary action
7. **Collector & DM**, Ganjam/ **DFO**, Berhampur for Information and necessary action.
8. Guard file for record/Website/Parivesh Portal.

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Member Secretary

