



ପୃଷ୍ଠା-୧୨୮

# ଧରିତ୍ରୀ

DHARITRI

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Bhubaneswar, Friday, May 10/2024

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ଡଃ ପ୍ରଫୁଲ୍ଲ କୁମାର ପାତ୍ର

# ସହର ସୁରକ୍ଷାରେ ଏଥାଇ

ପ୍ର

ବିନାଶକାରୀ ଜଳବାସୁନ୍ନିତ ଘଣେର ସାମ୍ବା କୁରୁଛି ଓ ଅନ୍ୟଧିକ ବିପଦରେ ରହିଛନ୍ତି । ସମ୍ଭାବନା ପରିବହନ କୁରୁଛି ଏବଂ କାର୍ତ୍ତା ଭାବେ ଉପକୁଳରେ ବୁଝାମାଣାକୁ ଉନ୍ନତ କରିବାକୁ ହେବା । ଉଦାହରଣ ସ୍ଵର୍ଗ, ବିମୁଳ ପରିମାଣର ତଥ୍ୟ ପରିଚାଳନା କରିବାର ଉପକୁଳରେ ବୁଝାମାଣାକୁ ଉନ୍ନତ କରିବାକୁ ହେବା । ଏହା ବ୍ୟତୀତ ପ୍ରତିବର୍ଷ ଦଶଶ ଏବଂ ଏବଂ କାର୍ତ୍ତା ଭାବେ ମନେଳେ କରିବା ଏବଂ ଯୋଜନାବର୍ତ୍ତ ନିର୍ମିତ ନେବାରେ ଗର୍ଭାବ୍ୟ ପ୍ରତିବାହି କରୁଛନ୍ତି । ଏହା ବାରମାର ଘଣେର ପ୍ରତିବନ୍ଦିତ କରିବାକୁ ହେବା । ଏହା ବାରମାର ଘଣେର ପ୍ରତିବନ୍ଦିତ କରିବାକୁ ହେବା ।



ଅମୁରାକ୍ଷିତ ସମ୍ବାଦକୁ ପ୍ରାଥମିକତା ଦେବା ଲାଗି ଆମକୁ ସୁଯୋଗ ଦେବା । କିନ୍ତୁ ପ୍ରମାଣ ପଦକ୍ଷେପ ହେଉଛି, ଜଳବାସୁ ସମୟରେ ସମ୍ବାଦକୁ କରିବାର କଣ୍ଠରେ ଥିବା ସହରଗୁଡ଼ିକ ପାଇଁ ଏକ କାର୍ତ୍ତା ସାଧନ ଭାବେ ଏଥାଇର ସମ୍ବାଦ ପରିବହନ କରିବାକୁ ହେବା । ଉଦାହରଣ ସ୍ଵର୍ଗ, ବୁଝାମାଣାକୁ ଉନ୍ନତ କରିବାକୁ ହେବା । ଏହା ବ୍ୟତୀତ ପ୍ରତିବର୍ଷ ଦଶଶ ଏବଂ ଏବଂ କାର୍ତ୍ତା ଭାବେ ମନେଳେ କରିବା ଏବଂ ଯୋଜନାବର୍ତ୍ତ ନିର୍ମିତ ନେବାରେ ଗର୍ଭାବ୍ୟ ପ୍ରତିବାହି କରୁଛନ୍ତି । ଏହା ବାରମାର ଘଣେର ପ୍ରତିବନ୍ଦିତ କରିବାକୁ ହେବା । ଏହା ବାରମାର ଘଣେର ପ୍ରତିବନ୍ଦିତ କରିବାକୁ ହେବା ।

ବ୍ୟତୀତ ସମ୍ବାଦକୁ ପ୍ରତିବନ୍ଦିତ କରିବାର ଏବଂ କାର୍ତ୍ତା ଭାବେ ଏଥାଇର ସମ୍ବାଦକୁ ପ୍ରତିବନ୍ଦିତ କରିବାକୁ ହେବା । ଏହା ବ୍ୟତୀତ ସମ୍ବାଦକୁ ପ୍ରତିବନ୍ଦିତ କରିବାର ଏବଂ କାର୍ତ୍ତା ଭାବେ ଏଥାଇର ସମ୍ବାଦକୁ ପ୍ରତିବନ୍ଦିତ କରିବାକୁ ହେବା । ଏହା ବ୍ୟତୀତ ସମ୍ବାଦକୁ ପ୍ରତିବନ୍ଦିତ କରିବାକୁ ହେବା ।

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ଏହା ବ୍ୟତୀତ ସମ୍ବାଦକୁ ପ୍ରତିବନ୍ଦିତ





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 prevent 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 nullahs 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 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-I.A.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 (work shop 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 MoEFCC and State Pollution Control Board/Committee.

### 4. Noise And Vibration Monitoring And Prevention

#### S. No EC Conditions

4.1 peak particle velocity at 500 m 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. Habitats have bright/darkness and minimal noise level 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, overburden, 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 statement 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 geotextiles/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 (Nullah/ 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 desilted 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 sum 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 thensitive 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.

### 10. Public Hearing And Human Health Issues

#### S. No EC Conditions

10.1 Project Proponent shall make provision for the housing for workers/laborers 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 wastewater 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-A.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.

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 regressing 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.

### Additional EC Conditions

#### N/A

	Sl. No.	Item	Financial Outlay (Rs. in Lakhs)	Activities Undertaken			
	1	90.00 ha of ANR plantation as per landuse plan	20	96.734ha of plantations created in ML area			
	2	Fire prevention – fire watchers' wages, uniforms, equipment etc.	3.5	Fire watchers engaged during Feb. to June every year			
	3	Soil & moisture conservation (SMC) works	10	Various SMC works undertaken in ML area			
	4	Rain water harvesting arrangements	10	Arrangements made in township for roof top rain water harvesting. Arrangements also made in mined out areas			
	5	Garbage disposal	0	Door to door collection of MSW in township. MSW sorted. Biodegradable MSW vermi-composted			
	6	12 Km. of Photo-Voltaic Fencing	12	Barbed wire fencing done. OMC undertakes to install photo-voltaic fences around quarries.			
	7	Monitoring & evaluation	5	Implementation status of measures suggested in SSWLCP is being monitored periodically			
	8	Awareness and Publicity	5	Being carried out from time to time			
		TOTAL	65.5	Details of plantation undertaken over 96.734 ha. Plantation in GreenBelt: 25.537ha Plantation in vacantareas & avenueplantation : 7.128ha Plantationondumps &backfill areas:34.069ha ANR Plantations :30.000ha Details of year wise plantation:			
		Year	No. of Saplings	Locations			
	2002 - 03	30000	ML Boundary, Behera Quarry, 55 Quarry, AlongNala				
	2003 - 04	32000	Safety Zone of Roads, Township, Magazine, Jilling Dump, Both Sides of PWD Road				
	2004 - 05	40000	Safety Zone of Roads, Township, Magazine, Jilling Dump, Both Sides of PWD Road, Rly. Siding				
	2005 - 06	26500	Jilling dump, Appahatu dump, Beside Magazine, Rly. Siding, ML Boundary				
	2006 - 07	27500	Jilling dump, Railway buffer end, Plot No. 187, Boundary line area, Appahatu, Boundary line near Pandiya, Plot 237. & 238 etc.				
	2007 - 08	25500	Jilling dump, Plot No.187/188 5.5, Quarry (top & bottom), Buffer zone of railway, Behera Quarry etc.				
	2008 - 09	25000	Jilling dump, Bottom area of Jilling Shelter, Backside of Geology Deptt., Buffer zone of railway, Crushing plant, Jilling, Dalko Nala side etc.				
	2009 - 10	16000	Jilling dump, Bottom area of Jilling Shelter, Backside of Geology Deptt., Jilling Mines Road, Boundary Line, Safety Zone Appahatu				
	2010 - 11	10500	Jilling dump, Back of Geology deptt., Jilling mines road, Safety zone area, Appahatu, etc.				
	2011 - 12	47000	Safety Zone (Appahatu, Jajang, Jilling & Langalotta), Rly. Siding dump, DalkoNala Site, Jilling Dump, along roads, near Water Treatment Plant, Plot No. 187, Appahatu Area near Magazine etc.				
	2012 - 13	11730					
	2013 - 14	15000					
	2014 - 15	16000					
	2015 - 16	19500	Gap plantation & casualty replacement done in green belt, avenue plantation, waste dump reclaimed area and ANR Plantation.				
	2016 - 17	20080					
	2017 - 18	9800					
	2018 - 19	13200					
	2019 - 20	36350					
				Check dams, retaining walls already constructed across the seasonal channels are as follows:			
	Sl. No.	Location	Latitude (N)	Longitude (E)	Length (m)	Width (m)	Height (m)
	1	Jilling Dump No.4	21°57'57.19	85°25'52.00	76	0.5	2.0
	2	Jilling Dump No.5	21°57'53.50	85°25'52.10	262	1.0	1.2
	3	Near OCU-2 dump	21°57'53.51	85°25'52.12			

































