



सत्यमेव जयते

File No.: OL/EC/MIN/KANKER/3126
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), CHHATTISGARH)



Dated 28/09/2024



To,

PHOOLKUNWAR SIWANA
 PHOOLKUNWAR SIWANA
 Sarpanch,village Machandur Panchayat Bharritola ,tahsil Charama,district Kanker Chhattisgarh,
 Machandur, KANKER, CHHATTISGARH, 497337
 phoolkuwarsiwana@gmail.com

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

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/CG/MIN/463020/2024 dated 15/02/2024 for grant of prior Environmental Clearance (EC) to the project for mining sand of capacity (60 percent of the total mine lease area) - 44,910 cubic meter per year upto depth of one and half meter Kharsa No. 1017, area - 4.99 Ha, Village – Machandur, Tehsil – Charama, District - Uttar - Bastar - Kanker, 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.	EC24C0107CG5832840N
(ii) File No.	OL/EC/MIN/KANKER/3126
(iii) Clearance Type	Mining EC Under 5 Ha
(iv) Category	B2
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	Machandur-1 Sand Quarry
(ix) Location of Project (District, State)	KANKER, CHHATTISGARH
(x) Issuing Authority	SEIAA
(xii) Applicability of General Conditions	No

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-2(Part A, B and C)/ EIA & EMP Reports were submitted to the SEIAA for an appraisal by the SEIAA under the provision of EIA notification 2006 and its subsequent amendments.

4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 23/07/2024. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above. Brief description of the project is as under:
5. Details of the minerals to be mined along with production capacity and the brief on the salient features of the project as submitted by the project proponent in Form 1 (Part A and B) in the reports and as presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on 23/07/2024, based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of Specific and Standard EC conditions as detailed in the point below.
7. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the SEIAA hereby accords Environment Clearance for the instant proposal to M/s. PHOOLKUNWAR SIWANA under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (2)
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
11. General Instructions:
 1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of SEIAA website where it is displayed.
 2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
 3. The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
 4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
 5. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 6. The Regional Office of this SEIAA shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
 7. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30

days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

12. This issue with an approval of the Competent Authority.

Copy To

S.No.	Address
1	Director, Ministry of Environment, Forest and Climate Change, Prithvi Wing, 2nd Floor, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi - 100003
2	Integrated Regional Office RAIPUR, MoEF&CC , Govt. of India , Ground Floor, Aranya Bhawan, North Block, Sector- 19,Naya Raipur, Atal Nagar, Chhattisgarh – 492002
3	Director, Directorate of Geology and Mining, Chhattisgarh, Indravati Bhavan, Block-4, Second Floor, Nawa Raipur Atal Nagar, Chhattisgarh India
4	Member Secretary, Chhattisgarh Environment Protection Board, Paryavas Bhawan, Sector-19, Nava Raipur Atal Nagar, District-Raipur (Chhattisgarh)
5	Member Secretary, Central Ground Water Board, West Block-2, Wing-3, Ground Floor, Sector-1, R.K. Puram, New Delhi - 110066
6	Collector, Office of the Collector, KANKER, District-KANKER(C.G.) for information and necessary action.
7	Forwarded to Regional Officer, Regional Office, Chhattisgarh Environment Protection Board, Jagdalpur for information and necessary action.

Annexure 1

Specific EC Conditions for (Mining Of Minerals)

1. Additional Conditions

S. No	EC Conditions
1.1	1. No River sand mining be allowed in rainy season. 2. Ultimate working depth shall be up to 1.5 m from Riverbed level and not less than one meter from the water level of the River channel whichever is reached earlier. 3. To maintain safety and stability of Riverbanks i.e. 7.5 meter or 10% of the width of the River whichever is more will be left intact as "No Mining Zone" (NMZ). 4. There should be regular monitoring of the mining activities in the State to ensure effective compliance of stipulated EC conditions and the provisions under the Minor Mineral Concessions Rules framed by the State Government. 5. Manual mining method shall be done, and no heavy machinery (like JCB, Bulldozer, Pokland, chain mounted machine, Hywa, etc) shall be deployed in the river bed. Light machinery like tractor, trolley will be deployed in the river bed for sand filling. 6. Mining shall be done in 60 percent of the total lease area. 7. Mining shall not be done during monsoon period. 8. Sand mining operation shall be carried out between sunrise to sunset. 9. The pollution load due to transportation on the environment shall be effectively controlled and water sprinkling shall also be done regularly.

S. No	EC Conditions																									
	10. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. 11. Protection of turtle, bird and other water animals habitats shall be ensured. 12. Project proponent shall ensure to follow all the guidelines given in Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining, 2020. 13. Replenishment study needs to be carried out from the authorized institute to keep a balance between deposition and extraction. 14. R.L. survey (25x25 grid) shall be done in every pre-monsoon and post-monsoon season and shall be certified by the mining department. RL survey report of pre-monsoon and post-monsoon season shall be submitted regularly to SEIAA/SEAC, C.G.. The depth of the sand mining shall be decided on the basis of R.L. survey report in subsequent year. 15. Project proponent shall submit Completion certificate of proposed plantation under CER activities, river bank plantation along with Geotag photographs in six monthly compliance report. Corporate Environmental Responsibility 1. CER Details : <table><tr><th>Capital Investment (in Lakh Rupees)</th><th>Percentage of Capital Investment to be Spent</th><th>Amount Required for CER Activities (in Lakh Rupees)</th><th colspan="2">Amount Proposed & Details for CER Activities (in Lakh Rupees)</th></tr><tr><td>11.36</td><td>2%</td><td>0.22</td><td>Particulars</td><td>CER Fund Allocation (in Lakh Rupees)</td></tr><tr><td></td><td></td><td></td><td colspan="2">Following activities Nearby, at Village- Machandur</td></tr><tr><td></td><td></td><td></td><td>Plantation at Pond</td><td>0.44</td></tr><tr><td></td><td></td><td></td><td>Total</td><td>0.44</td></tr></table> Plantation shall be done under the provisions of Corporate Environment Responsibility. Plantation shall be developed around the pond at Village - Machandur in which a total of 50 nos trees (Mango, Jamun, Kathal, etc.) will be planted incurring an amount of Rs 44,340. The total amount of expenses in the first year will be Rs. 27,500 (Plantation cost - Rs. 3,000, fencing cost - Rs. 20,000, fertilizer cost - Rs. 500, maintenance Rs. 4,000). The remaining amount of Rs. 16,840 will be spent in the next 4 years. After the consent of Gram Panchayat Bharritola, information regarding the suitable location (Khasra number 460, area 0.42 hectare) has been presented by the project proponent. 2. Project Proponent shall inform a tripartite committee (mine owner, Representative of District administration/CECB Member of Gram Panchayat) which will be monitor the compliance of green belt within the premises, river bank plantation and Corporate Environmental Responsibility activities.	Capital Investment (in Lakh Rupees)	Percentage of Capital Investment to be Spent	Amount Required for CER Activities (in Lakh Rupees)	Amount Proposed & Details for CER Activities (in Lakh Rupees)		11.36	2%	0.22	Particulars	CER Fund Allocation (in Lakh Rupees)				Following activities Nearby, at Village- Machandur					Plantation at Pond	0.44				Total	0.44
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			Plantation at Pond	0.44																						
			Total	0.44																						

Standard EC Conditions for (Mining of minerals)

1. Statutory Compliance

S. No	EC Conditions
1.1	The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project
1.2	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
1.3	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.4	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden (if required). The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).
1.5	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
1.6	The project proponent shall obtain the necessary permission from the Central Ground Water Authority or competent authority for usage of water.
1.7	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
1.8	Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
1.9	The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
1.10	The validity of Environmental Clearance is 5 years from the date of execution of lease deed.

2. Air Quality Monitoring And Mitigation Measure

S. No	EC Conditions
2.1	Ambient air quality monitoring shall be conducted once in a year in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO ₂ and NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors. The report shall be submitted to the SEIAA, C.G./ SEAC, C.G.
2.2	The Ambient Air Quality monitoring in the core zone shall be carried out. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.

S. No	EC Conditions
2.3	Transportation of sand, to the extent if permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water sprinkling shall be carried out. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
2.4	Major approach roads shall be properly maintained.
2.5	PP to install solar lights along the road used for transportation to avoid the accidents at night and also seek its maintenance.
2.6	The transportation of sand shall be carried out as per the provisions and route proposed in the approved mining plan. Road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed that the impact of sound, dust and accidents could be appropriately mitigated.
2.7	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
2.8	Water sprinkling arrangement shall be provided to reduce the impact of air pollution.
2.9	Post environmental closure third party monitoring by reputed institution in air quality, water, land & soil etc shall be carried out and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to IRO, MoEF&CC for compliance.

3. Water Quality Monitoring And Mitigation Measures

S. No	EC Conditions
3.1	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
3.2	Monitoring of water quality upstream and downstream of river including ponds, lakes, tanks shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.
3.3	The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
3.4	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.

S. No	EC Conditions
3.5	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
3.6	Domestic water shall be providing to the residents/villages which are coming under the zone of influence of the project due to ground water extraction by installing a RO plant.

4. Noise And Vibration Monitoring And Prevention

S. No	EC Conditions
4.1	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.

5. Mining Plan

S. No	EC Conditions
5.1	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
5.2	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) and the relevant circulars issued by Directorate General Mines Safety (DGMS).
5.3	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.
5.4	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

6. Land Recalvation

S. No	EC Conditions
6.1	A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
6.2	Native tree species shall be selected and planted over areas affected by subsidence.

7. Public Hearing And Human Health Issues

S. No	EC Conditions
7.1	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.
7.2	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
7.3	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
7.4	Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
7.5	Project proponent shall conduct health checkup facilities twice in a year for the villagers.
7.6	PP must ensure an emergency action plan during pandemic in order to provide assistance to the nearby villages.

8. Corporate Environment Responsibility

S. No	EC Conditions
8.1	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.
8.2	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
8.3	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
8.4	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out

9. Miscellaneous

S. No	EC Conditions
9.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
9.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
9.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
9.4	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
9.5	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
9.6	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
9.7	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
9.8	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
9.9	No further expansion or modifications shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
9.10	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
9.11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
9.12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
9.13	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
9.14	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention

S. No	EC Conditions
	& Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
9.15	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.
9.16	Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
9.17	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

Annexure 2

Details of the Project

S. No.	Particulars	Details
a.	Details of the Project	Machandur-1 Sand Quarry
b.	Latitude and Longitude of the project site	20.53152313569272,81.38511269026513 20.53532617954025,81.38759896680862
c.	Land Requirement (in Ha) of the project or activity	Nature of Land involved
		Area in Ha
		Non-Forest Land (A)
		Forest Land (B)
		Total Land (A+B)
d.	Date of Public Consultation	Public consultation for the project was held on
e.	Rehabilitation and Resettlement (R&R) involvement	NO
f.	Project Cost (in lacs)	13

S. No.	Particulars	Details
g.	EMP Cost (in lacs)	
h.	Employment Details	

