

महानदी कोलफील्ड्स लिमिटेड
Mahanadi Coalfields Limited
(A subsidiary of Coal India Limited)

OFFICE OF THE SUB AREA MANAGER
ORIENT SUB AREA
PO: ORIENT COLLIERY
BRAJRAJNAGAR-768233
Email: po-mn2c.mcl@coalindia.in
sam.osa.mcl@hotmail.com



MCL

संदर्भ क्रमांक: MCL/OA/SAM/OSA/Sec4./263

दिनांक: 13.11.25

To
The Chief Conservator of Forest,
Ministry of Environment & Forest,
Regional Office (Eastern Zone),
A/3, Chandrasekharpur,
Bhubaneswar-751023, Odisha.
E-mail-mef@ori.nic.in

Sub: Submission of Half Yearly (APRIL 2025 to SEPTEMBER 2025) Compliance Report of the conditions stipulated in the Environment Clearance Letter in respect of Orient Colliery Mine No. 4, Orient Area, MCL.

Sir,
Enclosed please find herewith the hard copy of Half Yearly Compliance Report of the conditions stipulated in the Environment Clearance (EC) Letter as per condition no. XVII of General Conditions of EC in respect of Orient Colliery Mine No. 4, Orient Area, MCL for the period APR' 2025 to SEPT '2025 for your kind information.

Thanking you,

Yours faithfully,

[Signature]
13/11/25

Sub-Area Manager,
Orient Colliery Mine No.4,
Orient Sub-Area,
Orient Area, MCL.

Tapan

Copy to:-

1. Director, EIA Monitoring Cell,
Ministry of Environment & Forest,
Paryavaran Bhawan, CGO Complex,
Lodhi Road, New Delhi-110003.
2. The Member Secretary,
Orissa State Pollution Control Board,
Paribesh Bhawan, A/118,
Nilakantha Nagar, Unit-VIII,
Bhubaneswar-751012, Odisha.
3. Regional Officer,
State Pollution Control Board (Odisha),
Plot No-370/5971, Babubagicha (Cox Colony),
St. Marry Hospital Road,
Post- Industrial Estate,
Dist- Jharsuguda, Odisha.
4. GM (Envt. & Forest), MCL HQ, SBP for kind information
5. GM, Orient Area for Kind information
6. Area Environmental Officer, Orient Area
7. Office File.

मुख्य प्रबंधक (खनन) उ.क्षे.प्र
ओरिएण्ट उप-क्षेत्र (ओरिएण्ट-क्षेत्र)
Chief Manager (Mining)/S.A.M.
Orient Sub- Area (Orient Area)

**HALF YEARLY PROGRESS REPORT
OF COMPLIANCE
OF
ENVIROMENTAL CLEARANCE
CONDITIONS
(APRIL- 2025 TO SEPTEMBER- 2025)**

**ORIENT COLLIERY U/GMINE: 4, (0.50 MTPA)
ORIENT AREA.**



MAHANADI COAL FIELDS LIMITED

HALF YEARLY PROGRESS REPORT OF COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS

(HALF-YEARLY ENDING SEPTEMBER'25)

Name of the Project: Orient Colliery U/G Mine No: 4, MCL (0.50 MTPA)

No. & date of MOEF clearance: Letter No. J-11015/37/2007-IA.II (M) Dated 25th February, 2013

A. Specific Conditions

Condition No.	Conditions stipulated in the EC	Compliance
(i)	A Subsidence study shall be carried out before depillaring operations.	A Subsidence prediction study has been done by CMRI in July 2006 and Subsidence Prediction Analysis Report submitted to MOEF in 2012 along with the forest diversion proposal. Presently production has suspended from 02.07.2017.
(ii)	Regular monitoring of subsidence movement on the surface over and around the working area and Impact on natural drainage pattern, water bodies, vegetation, structure, roads, and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil/Suitable/material.	Regular monitoring of subsidence movement on the surface over and around the working area is being done. No subsidence movement and cracks have been observed. Mining activity has been discontinued since 02/07/2017.
(iii)	Mining shall be carried out as per statute at a safe distance from the river/nallah flowing within/adjacent to the lease boundary.	Mining is carried out as per statute at a safe distance from Ib-river flowing adjacent to the lease boundary. Ib-river is situated at a distance of approximately 2.5 km east from the mine boundary.
(iv)	High root density tree species shall be selected and planted over areas likely to be affected by subsidence.	Adequate numbers of high root density tree species have been planted over the areas likely to be affected by subsidence.
(v)	Coal extraction shall also be optimized in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land. No coal depillaring shall be undertaken below areas of habitation without stowing and with prior approval of DGMS.	Presently, no coal extraction is going on.
(vi)	Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the land owners shall be adequately compensated with mutual agreement with the land owners or the land shall be acquired.	Subsidence monitoring has been done and no subsidence is found excessive to permissible limit.
(vii)	Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity shall be designed keeping 50% safety margin over an above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity shall also provide adequate retention period to	Garland drains of 3350 meters have been provided around mine openings. Sumps of adequate capacity (4.02 M Gallon) have been established below ground keeping in view of maximum rainfall & adequate retention time; sufficient number of pumps of adequate capacity have been installed below ground.

	allow proper settling of silt material.	
(viii)	Water sprinkling system shall be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points, etc. Major approach roads shall be black topped and properly maintained.	Production has suspended since July 2017 and no production related activity is going on, which may create dust.
(ix)	A progressive afforestation plan shall be prepared and implemented over the mine lease area acquired and shall include areas under green belt development, areas along roads, infrastructure, along ML boundary and township etc, by planting native species in consultation with the local DFO/Agriculture Department.	Adequate plantation has been done in the mine lease area as per the advice of the forest department. Since 2005, around 2,24,015 nos. of plants have been planted including distribution in 70.846 ha in Orient Area, a copy of which is attached as Annexure A . Orient Colliery Mine No. 4 is an underground mines. Presently, no suitable non-coal bearing land for undertaking plantation activities is available within the mining lease area of the mines. However, Tahasildar, Jharsuguda has been requested with a copy to the Collector, Jharsuguda to provide suitable land for plantation outside the lease area vide our letter no MCL/HQ/ENVT/13/105, dtd.17/01/2014 and letter no. MCL/HQ/ENVT/14/116, dtd.14/02/2014.
(x)	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity shall be done four times a. year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.	The groundwater level and quality is being monitored by RI-VII, CMPDIL, Bhubaneshwar with wells and 02 numbers of piezometers at Ib Valley GM House and at Village Chauliberna, outside premises of Narsing High School. An extract of such monitoring is attached as Annexure E .
(xi)	The Company shall put up artificial groundwater recharge measures for augmentation of ground water resource, in case water table shows a declining trend. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	No incident of drying of drinking water well in the nearby village has been reported or observed. Moreover, water to nearby village (Village Junanimunda) is being supplied by the project as and when required.
(xii)	Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health Check-up for occupational diseases and hearing impairment if any, through an agency in the district/State and the results reported to this Ministry and to DGMS.	Regular checkup for occupational diseases (Periodic Medical Examination) in respect of all workers engaged in mining operations is conducted for approximately 20 % of the workforce once in every five years at the Central Hospital, Ib Valley Area. As of now, mining operations in the mines have been suspended since 02/07/2017 and the major workforce have been transferred to other mines of Orient Area.

(iii)	Activities under CSR undertaken for the neighboring villages shall be for not less than Rs 5 per tonne of coal and the progress made thereon shall be uploaded on the company annually on the company website.	Adequate fund has been allocated for activities under CSR which is being done in the neighboring villages. The progress report of CSR activities month wise and area wise are uploaded on the company website http://www.mahanadicoal.in .
(xiv)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	A Progressive Mine Closure Plan has been submitted to the Ministry of Environment & Forests. The final Mine Closure Plan along with the details of Corpus Fund shall be submitted to MoEF 5 years in advance of final mine closure for approval. The Mine Closure Plan was approved by the MCL Board on 22/06/2011 and was submitted to the Ministry of Coal, New Delhi. However, it was suggested by the MoC, New Delhi to submit a revised Mine Closure Plan, the preparation of which is under process.

B. General Conditions:

Condition No.	Conditions stipulated in the EC	Compliance
(i)	No change in technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	There has been no change in mining technology and scope of working so far. Production suspended from 02.07.2017.
(ii)	No change in the calendar plan including quantum of mineral coal and waste being produced shall be made.	There has been no change in calendar plan of extraction of quantum of coal. The coal production for the last five years is as below : 2025-26 (Up to Sept): 0 Te 2024-25: 0 Te 2023-24: 0 Te 2022-23: 0 Te 2021-22: 0 Te
(iii)	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM ₁₀ , PM _{2.5} , SO ₂ and NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in particulates shall be carried out at least once in six months.	Ambient air quality monitoring stations have been established in consultation with State Pollution Control Board for monitoring of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x which is being done fortnightly by RI-VII, CMPDI, Bhubaneswar. Monitoring of heavy metals such as Hg, As, Cd, Cr in particulates is also being done once in six months by RI-VII, CMPDI, Bhubaneswar.
(iv)	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x and heavy metals such as Hg, As, Ni, Cr, etc) and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhubaneswar and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under	Monitoring data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ , and NO _x) by RI-VII, CMPDI, Bhubaneswar is being submitted (half yearly) to MOEF, State Pollution Control Board & Central Pollution Control Board. A copy of such report is attached as Annexure B .


	the EP Rules, 1986 shall be furnished as part of the compliance report.	
(v)	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	Adequate measures have been taken to reduce noise level below 85 dBA at the working places. Workers exposed to high noise levels are provided with ear plugs. A copy of the monitoring report for noise level by RI-VII, CMPDI, Bhubaneswar is attached as Annexure C .
(vi)	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, and treated so as to conform to the standards including for heavy metals before discharge prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	Waste water from the mine is settled in the underground sumps before being pumped out to the surface, where it is again settled in the sedimentation ponds before being used for industrial, irrigation and domestic purposes. Regular monitoring is being done by RI-VII, CMPDI, Bhubaneswar and the parameters are found to be within the permissible limit; a report of such monitoring is attached as Annexure D . No waste water is discharged from the workshop.
(vii)	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of the mineral shall be covered with tarpaulins and optimally loaded.	As production has suspended no any vehicular emission and mineral transportation is going on.
(viii)	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data get analyzed through a laboratory recognized under EP Rules, 1986.	Environmental monitoring work is being done by RI-VII, CMPDI, Bhubaneswar having adequate laboratory facilities as required by the State Pollution Control Board.
(ix)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	Persons working in dusty areas are provided with dust masks and educated on health aspects through training.
(x)	Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	Periodic occupational health checkup of all workers is carried out once in every five years. Around 20 % workforce undergoes PME every year and if any person is found affected by occupational disease, alternate employment or lump sum compensation is provided to such person.
(xi)	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.	A separate environment management cell exists headed by General Manager (Environment & Forest) at Company Head Quarters who reports directly to Director Technical (P&P) of the Company. At the area level a Nodal Officer (Environment) is designated.
(xii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported	Funds earmarked for environmental protection measures are kept in a separate account head of "Environment". Year-wise expenditure is reported to MOEF and State

	to this Ministry and its Regional Office at Bhubaneswar.	Pollution Control Board, Bhubaneswar.
	The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days 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 may also be seen at the website of the ministry of Environment & Forests at http://envfor.nic.in .	Advertisement relating to the fact that the project has been accorded environmental clearance was made in the Oriya daily "DHARITRI (Sambalpur)" and English Newspaper "NEW INDIAN EXPRESS (Bhubaneswar)" on Dtd. 05.03.2013.
(xiv)	A copy of the environmental clearance letter shall be marked to the concerned Panchayat/Zila Parishad, Municipal Corporation or Urban Local Body and local NGO, if any, from whom any suggestion/ representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.	A copy of environmental clearance letter has been given to the concerned local panchayats and Municipal Corporation and is also displayed on the company's website http://www.mahanadicoal.in .
(xv)	A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office/Tahsildar's Office for 30 days.	A copy of the clearance letter has been sent to the State Pollution Control Board, Odisha, Regional Office, District Industry Centre, Collector's Office and Tahsildar's Office, Jharsuguda for display of such clearance.
(xvi)	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) and critical pollutants such as PM ₁₀ , PM _{2.5} , SO ₂ and NO _x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website.	The environmental clearance letter as well as the compliance status of the stipulated EC conditions is being uploaded and updated every six months on the company's website http://www.mahanadicoal.in . The monitoring data of environmental quality parameters is being displayed at the entrance of the project premises and mines office and on the company's website.
(xvii)	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MOEF, the respective Zonal offices of CPCB and the SPCB.	Six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) is being submitted to the respective Regional Office of the MOEF, SPCB, Odisha and Regional Office of SPCB.
(xviii)	The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.	The requisite data/ information/ monitoring reports is being furnished to the Regional Office of MOEF, Bhubaneswar.
(xix)	The environmental statement for each financial	The environmental statement for each

year ending 31st March in Form-V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF by e-mail.

financial year ending 31st March in Form-V is being submitted to the State Pollution Control Board, Odisha, Bhubaneswar.

Last environmental statement report in respect of Orient Colliery Mine 4 for the financial year 2024-25 ending 31st March 2025 has been submitted to the Board vide letter No. MCL/OA/SAM/OSA/CM/2025-26/207 dated 17/09/2025.


13/11/25

Tapar
**Sub Area Manager,
Orient Colliery Mine No.4,
Orient Sub Area, Orient Area**

M/s. M.C.L.
मुख्य प्रबंधक (खनन) उ.क्ष.प्र
ओरिएण्ट उप-क्षेत्र (ओरिएण्ट क्षेत्र)
Chief Manager (Mining)/S.A.M.
Orient Sub- Area (Orient Area)

FORM -I

**MINISTRY OF ENVIRONMENT & FOREST
REGIONAL OFFICE
MONITORING PROFORMA PART-I (DATA SHEET)**

1. Project Type: River-Valley/Mining Industry/Thermal /Nuclear/Other (Specify) : Mining Industry (COAL)
2. Name of the Project : Orient Colliery Mine No.4 (0.50MTPA)
3. Clearance Letter(s) OM no .&Date : J-11015/37/2007-IA.II(M) Dated 25/02/2013
4. Location : Jharsuguda, Odisha
- (a) District(s), State(s)
5. a) Address of concerned project Chief Engineer (with pin code and telephone/telex/Fax nos. : Office of the Colliery Manager, Orient Colliery Mine No.4, At/PO: Gandghora, Dist: Jharsuguda, Odisha, Pin: 768216, Tel. no. 06645243239
- b) Address of Executive project Engineer/Manager (with pin code and telephone/telex/Fax nos. : -do-
6. Salient Feature:
- a. of the project : Start of mine –January 1965,
Mine lease area – 519.474 ha. ,
Mineable reserve – 4.54Mt (as on Sept. 2019).
Extractable reserve-4.54Mt (as on sept. 2019).
The Grade of coal: G-9
PRESENTLY PRODUCTION SUSPENDED.
FROM JULY 2017
- b. of the Environmental Management plans : No production of coal is going on.
7. Break up of the project area
- a. Submergence area (Forest and Non-Forest) : Forest – 397.439 Ha.
Non-Forest ¹- 122.035 Ha (Govt. Plus tenancy)
- b. Others : Res .Colony – Nil
8. Break up of project affected population with enumeration of those losing house/dwelling units only, agricultural land only, both dwelling unit and agricultural land and land less laborers/ artisans.
- a. SC, ST/Adivasis : NA
- b. Others : NA
9. Financial Details:
- a) Project cost as originally planned and Subsequently estimates and the year of price reference. : P.R- Not Available, Project cost – Rs NA
F.R.-1992-93 -do- Rs.91.69 lakhs
F.R.-Nov, 2013 -do- Rs.1047.36 lakhs
- b) Allocation made for environmental management plans, with item –wise and year wise break-up. : ECO development cost- **Rs.286.02 lakhs**
Subsidence Management Cost- **Rs.208.88 lakhs**
Routine Env't. Monitoring Cost= **Rs 13,90,233.52**
(as per Work Order for FY 2025-26)

- Cost of strengthening of existing forest land on surface- **Rs.74.08 lakhs**
: **Loss of Rs. 540.13 lakhs** (April 2025- Sept 25)
- c) Benefit cost ratio/internal rate of return and the year of assessment : No
- d) Whether 9 c) includes the cost of environment management plans so far : No
- e) Actual expenditure incurred on the project (APRIL 2025- SEPT 2025) : **Rs. 540.13 lakhs**
- f) Actual expenditure incurred on the Envnt. : Miscellaneous Cost like subsidence prediction studies etc. NA Lakhs
TOTAL- NA Lakhs
10. Forest land requirements
- a) The status of approval of a diversion of forest land for non-forestry use, : Stage-I Forest Clearance for 389.180 Ha of forest land has been obtained for U/G mining.
- b) The status clear felling : NA
- c) Comments on the viability and Sustainability program in the light of actual field experience so far : NA
11. Status of construction
- a) Date of commencement (Actual and /or planned) : NA
- b) Date of completion (Actual and /or planned) : NA
12. Reason for the delay if the project is yet to start : NA
13. Date of site visit
- a) The date on which the project was monitored by the regional office, if any : -
- b) Date of visit for this monitoring report : -do-
14. Details of correspondence with project authority for obtaining action, information and status of compliance to safe guard :

Tapas
20/03/25
Sub Area Manager,
Orient Colliery Mine No.4,
Orient Sub Area, Orient Area
M/s. M.C.L.

मुख्य प्रबंधक (खनन) उ.क्षे.प्र
ओरिएण्ट उप-क्षेत्र (ओरिएण्ट क्षेत्र)
Chief Manager (Mining)/S.A.M.
Orient Sub- Area (Orient Area)

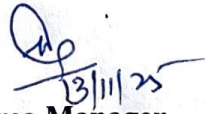
FORM-II

PROFORMA FOR PROVIDING INFORMATION ON REHABILITATION

1. No. of villages affected : Nil (Rehabilitation Plan not applicable)
2. Families affected : SC- NIL, ST- NIL, OTH- NIL, Total- NIL
3. Compensation package offered per family :

State/Centre norms	Project Package
As per state Govt. Package	NA

4. Budget estimate for rehabilitation
a) Total Outlay : NA
b) Amount paid/used. : NA
5. Employment details
a) Total employment to be provided : NA
b) Employment given so far. : NA
6. Rehabilitation & Resettlement details
a) Nos. of families rehabilitated
i. Name of the site : NA
ii. Families rehabilitated : SC- NIL, ST- NIL, OTH- NIL, Total- NIL
b) Families yet to be rehabilitated
i. Name of site : NA
ii. No. of families : SC- NIL, ST- NIL, OTH- NIL, Total- NIL
- Any other information : NA

Tapas

3/11/25
**Sub Area Manager,
Orient Colliery Mine No.4,
Orient Sub Area, Orient Area
M/s. M.C.L.**
मुख्य प्रबंधक (खनन) उ.क्षे.प्र
ओरिएण्ट उप-क्षेत्र (ओरिएण्ट क्षेत्र)
Chief Manager (Mining)/S.A.M.
Orient Sub- Area (Orient Area)

FORM-III

**FORMAT FOR PROVIDING PARTICULARS ON GREEN
BELT/PLANTATION UNDER F C ACT, 1980 AND E (P), ACT, 1986**

1. a. Name of Organization : Orient Colliery UG Mine No.4
b. Env't. Clearance order No. : EC granted by MoEFCC, New Delhi vide letter no. J-11015/37/2007-IA.II(M) Dated 25/02/2013
c. Forest Clearance order No. : Stage – I FC granted by MoEFCC, New Delhi F.No. 8-83/2012-FC, dtd.31/01/2013.
2. Location, Block/Sub Division/
Dist/State : Village- Gandghora, Block- Brajrajnagar
Sub Division- Brajrajnagar
Dist- Jharsuguda, State- Odisha.
3. Address for communication : Colliery Manager, Orient Colliery Mine No.4, MCL
P.O- Brajrajnagar, Dist: Jharsuguda (Odisha),
Pin- 768216.
4. Existing vegetation in the area/region
a. Species (Trees/shrub/Grasses/climbers) : Trees, Shrub, Grasses & Climbers
b. major prevalent species of each type : Trees
5. Land coverage by the project
a. Total area under the project : 519.474 ha. (Mining lease area)
b. Area covered for basic infrastructure
(road, building/factory etc.) : 16.80 ha.
6. Details about natural vegetation
a. Name and number of tree/species felled : Nil
b. Name and number of plants species still
Available in the area. : NA as this is an underground mine.
c. By protecting the area will indigenous
d. Extent of green belt developed. : **70.846** ha. For Orient Area
7. Plantation required to be carried out as per
a. Condition of Environment : As per stipulated condition no(iv) and (ix)
of specific conditions of EC.
(Clearance in Ha/No. of plants/Ha) : 2500 no. of plants/Ha.
b. Condition of Forest Conservation Act, :-
forest clearance in Ha/No.
c. Voluntarily in Ha./No. : 2500 no./Ha.
8. Details about plantation
a. Total area available for plantation in the year 2025-26 in each category.

i. Green belt	ii. Ext. dump	iii. B/F area	iv. Road sides	v. Block plantations
Nil	Nil	Nil	Nil	Nil

- b. Plantation details (Category wise & methodology used)

Year of Plantation	Species planted	Spacing	Height attained	Total area covered till Sept.' 2025	Proposed plantation programme in 2025-26
1992 to March 2025	Given in Annexure-A	2m X 2m	2m to 8m	70.846 ha. For Orient Area	Nil

c. Survival % of plantation (for last five years) : 82.32 % to 86.56 % after 3 years of maintenance activity for such plantation.

9. Agency carrying out plantation and maintenance: Chhatisgarh Rajya Van Vikash Nigam, Korba, (CG) & Orissa Forest Development Corporation Ltd., Jharsuguda (C -KL) Division.

10. Financial Details.(Year wise and item wise)

Sl. No.	Year	Fund allocated in Rs. for 03/05 years	Expenditure made in Rs. for 03/05 years	Average cost of each surviving plants in Rs.(plantation scheme valid for 3 years & w.e.f. the year 2011-12 valid for 5 years)
1	1992-93	Nil	Nil	Nil
2	1993-94	Nil	Nil	Nil
3	1994-95	Nil	Nil	Nil
4	1995-96	Nil	Nil	Nil
5	1996-97	Nil	Nil	Nil
6	1997-98	Nil	Nil	Nil
7	1998-99	Nil	Nil	Nil
8	1999-00	Nil	Nil	Nil
9	2000-01	Nil	Nil	Nil
10	2001-02	Nil	Nil	Nil
11	2002-03	Nil	Nil	Nil
12	2003-04	Nil	Nil	Nil
13	2004-05	Nil	Nil	Nil
14	2005-06	590572.57	466868	44.33
15	2006-07	2294746.18	2248370	59.70
16	2007-08	636000	620566	60.31
17	2008-09	1041224.5	1041224.5	46.28
18	2009-10	760592	760592	41.83
19	2010-11	957600	957600	68.40
20	2011-12	1314800	1314800	113.34
21	2012-13	Nil	Nil	Nil
22	2013-14	Nil	Nil	Nil
23	2014-15	46,500	46,500	31.00
24	2015-16	11,75,500	11,75,500	23.51
25	2016-20	Nil	Nil	Nil
29	2020-21	2,99,977	114017.07	325.76
30	2021-22	17,42,124.86	12,37,964.35	495.19
31	2022-23	204000	204000	100.00
32	2023-24	7625	7625	152.50
33	2024-25	676200	676200	67.62
34	2025-26	Nil	Nil	Nil

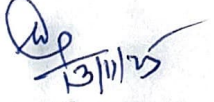
11. Inspection of plantation by fields
their comments and
follow up action.

: Inspected by Plantation Monitoring Committee of the experts and
District Environment society, Jharsuguda
accompanied by Sri N C Senapaty, N O (Envt.),
Orient Area, MCL on dtd. 31/08/2013.

12. Remarks/any other information.

: Orient Area, MCL may be assigned to take up
Plantation outside the lease area.

Date: 13/11/2025


13/11/25
**Sub Area Manager,
Orient Colliery Mine No.4,
Orient Sub Area, Orient Area
M/s. M.C.L.**


मुख्य प्रबंधक (खनन) उ.क्षे.प्र
ओरिएण्ट उप-क्षेत्र (ओरिएण्ट क्षेत्र)
**Chief Manager (Mining)/S.A.M.
Orient Sub- Area (Orient Area)**

Annexure-A
NAME OF THE SPECIES PLANTED IN AND AROUND
ORIENT COLLIERY U/G MINE NO.4

Sl. No.	Local Name of Species
1	Jack Fruit
2	Mango
3	Amla
4	Jamu
5	Neem
6	Karanja
7	Kadamba
8	Simaruba
9	Jaafra
10	Rain tree
11	Chakunda

PLANTATION WORK UNDERTAKEN IN ORIENT AREA, MCL SINCE 2005-06

Year of plantation	No. Planted		Total plantation area in Ha.
	Block Plantation	Avenue plantation	
2005-06	18,400	1,600	8.36
2006-07	50,475	Nil	22.43
2007-08	12,500	Nil	5.00
2008-09	22,500	Nil	9.0
2009-10	22,000	Nil	8.80
2010-11	14,000	Nil	5.6
2011-12	10,000	1,600	4.64
2014-15	1,500	Nil	Within School Premises of Rajpur, Loisingh, Chandinimal, Kudopali and Gourmal Gram Panchayat
2015-16	50,000	Nil	Within rural schools of Jharsuguda District
2016-17	Nil	Nil	Plantation activity could not be undertaken due to unavailability of suitable land with the mine leasehold area at present. However, we have requested the Tahsildar, Jharsuguda/Collector, Jharsuguda to provide such land outside the mine leasehold area to undertake such plantation activities.
2017-18	Nil	Nil	
2018-19	Nil	Nil	
2019-20	Nil	Nil	
2020-21	350	Nil	Area 0.14 Ha Near Officers Club Rampur Sub Area
2021-22	1000	Nil	0.4 Ha (Plantation activity carried out in premises of Mine No.-3 & Mine No.-4.)
	3500	Nil	1500 nos. of plants distributed to employees of OA and 2000 nos. of plant distributed in nearby villages.
	Nil	1500	0.9 Ha Area OMP Chowk Jharsuguda to Jharsuguda Stadium (Avenue)
2022-23	540	NIL	Planted in OC-4 mine, Orient Area in 0.216 Ha
	1500	NIL	Distributed to employees of Orient Area
2023-24	50	NIL	Planted in OC-4 mine, Orient Area
2024-25	10000	NIL	Planted by Orient Area near Hill Top Colony, SOCP in 4.56 Ha
2025-26	NIL	1000	Planted by Orient Area in front of Hirakhand Bundia Mine in 0.8 Ha
Total	2,24,015		70.846


 13/11/25
Sub Area Manager,
Orient Colliery Mine No.4
Orient Sub Area, Orient Area
M/s. MCL

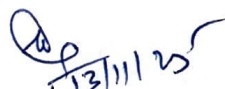
मुख्य प्रबंधक (खनन) उ.क्षे.प्र
 ओरिएण्ट उप-क्षेत्र (ओरिएण्ट क्षेत्र)
Chief Manager (Mining)/S.A.M.
 Orient Sub Area (Orient Area)

ANNEXURE B
AMBIENT AIR QUALITY REPORT (April-2025 to September-2025)
ORIENT COLLIERY U/G MINE NO.4

Date	Monitoring Station	SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x
11.04.2025	Orient Mine No. 4	140	129	55	9.07	32.75
24.04.2025	Orient Mine No. 4	208	87	43	17.13	33.78
08.05.2025	Orient Mine No. 4	196	79	37	16.79	30.28
22.05.2025	Orient Mine No. 4	183	77	36	16.82	38.83
14.06.2025	Orient Mine No. 4	168	70	32	18.68	19.45
30.06.2025	Orient Mine No. 4	181	81	37	13.48	20.34
14.07.2025	Orient Mine No. 4	205	86	42	13.89	24.59
29.07.2025	Orient Mine No. 4	176	86	40	13.22	20.03
14.08.2025	Orient Mine No. 4	183	87	39	15.30	24.46
29.08.2025	Orient Mine No. 4	180	83	38	15.96	24.10
13.09.2025	Orient Mine No. 4	218	97	44	16.08	30.68
27.09.2025	Orient Mine No. 4	206	107	45	12.55	29.76
	MAX	218	129	55	18.68	38.83
	MIN	140	70	32	9.07	20.03
	PERMISSIBLE LIMIT	500	250	--	120	120

ANNEXURE C
NOISE LEVEL REPORT (April -2025 to September 2025)
ORIENT COLLIERY U/G MINE NO.4

Date of Sampling	Station	Noise level Measurement in Leq dB(A)	
		DAY	NIGHT
03.04.2025	Orient Mine No. 4	54.4	45.6
17.04.2025	Orient Mine No. 4	54.6	44.4
13.05.2025	Orient Mine No. 4	50.4	39.9
27.05.2025	Orient Mine No. 4	49.9	38.6
02.06.2025	Orient Mine No. 4	60.7	57.3
23.06.2025	Orient Mine No. 4	63.4	58.9
11.07.2025	Orient Mine No. 4	49.8	40.6
31.07.2025	Orient Mine No. 4	52.6	42.3
04.08.2025	Orient Mine No. 4	49.3	42.9
23.08.2025	Orient Mine No. 4	52.6	41.8
05.09.2025	Orient Mine No. 4	48.6	42.5
19.09.2025	Orient Mine No. 4	49.2	40.4
	MAX	63.4	58.9
	MIN	48.6	40.4
	PERMISSIBLE LIMIT	75	70


 13/11/25
 Sub Area Manager,
 Orient Colliery Mine No.4,
 Orient Sub Area, Orient Area
 M/s. M.C.L.
 मुख्य प्रबंधक (खनन) उ.क्षे.प्र
 ओरिएण्ट उप-क्षेत्र (ओरिएण्ट क्षेत्र)
 Chief Manager (Mining)/S.A.M.
 Orient Sub-Area (Orient Area)

ANNEXURE D

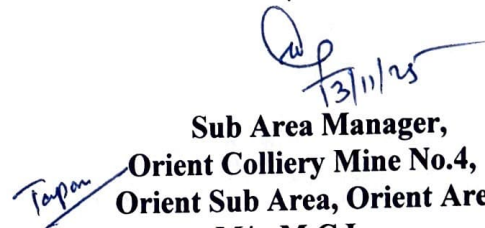
**EFFLUENT QUALITY REPORT (April-2025 to September-2025)
ORIENT COLLIERY U/G MINE NO.4
(Values are in mg/l except PH)**

Date of Sampling	Sampling Station	PH	OG	TSS	COD	BOD	NO ₃ N
09.04.2025	Mine Sump of Mine No. 4	7.72	<4.0	23	16	-	-
13.05.2025	Mine Sump of Mine No. 4	7.39	<4.0	20	12	-	-
27.05.2025	Mine Sump of Mine No. 4	7.31	<4.0	28	16	-	-
12.06.2025	Mine Sump of Mine No. 4	6.90	<4.0	28	12	-	-
15.07.2025	Mine Sump of Mine No. 4	6.91	<4.0	15	24	-	-
14.08.2025	Mine Sump of Mine No. 4	6.44	<4.0	22	32	-	-
13.09.2025	Mine Sump of Mine No. 4	6.85	<4.0	14	8	-	-
	MAX	7.72	<4.0	28	32	-	-
	MIN	6.44	<4.0	14	8	-	-
	PERMISSIBLE LIMIT	5.5-9.0	10	100	250	-	-

ANNEXURE E

**WELL WATER LEVEL MONITORING OF ORIENT COLLIERY U/ G MINE NO.4
FOR THE PERIOD OF APR'2025 TO SEPT'2025**

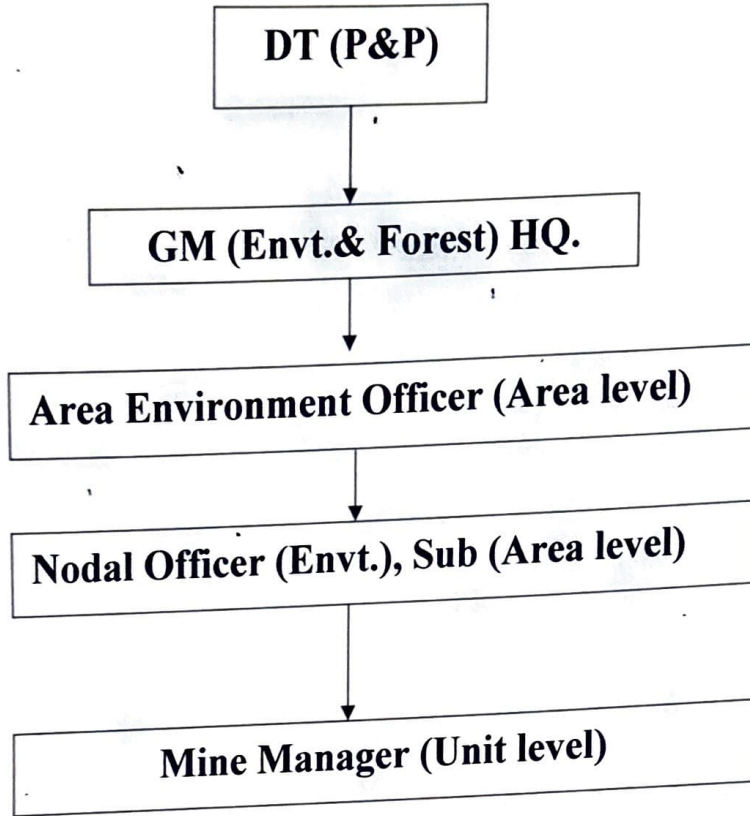
Date of sampling	Name of the station	Depth of Water Level (in m. bgl)
May 2025	BHURKHAMUNDA	7.00
May 2025	SUNAMAL	7.3
Aug 2025	BHURKHAMUNDA	1.6
Aug 2025	SUNAMAL	1.2


Sub Area Manager,
Orient Colliery Mine No.4,
Orient Sub Area, Orient Area
M/s. M.C.L.

मुख्य प्रबंधक (खनन) उ.के.प्र
ओरिएण्ट उप-क्षेत्र (ओरिएण्ट क्षेत्र)
Chief Manager (Mining)/S.A.M.
Orient Sub- Area (Orient Area)

Annexure A1

The Administrative Order of the company to deal with environmental issues:



Wp
13/11/25
**Sub Area Manager,
Orient Colliery Mine No.4
Orient Sub Area
Orient Area, MCL**

Tapan
मुख्य प्रबंधक (खनन) उ.क्षे.प्र
ओरिएण्ट उप-क्षेत्र (ओरिएण्ट क्षेत्र)
Chief Manager (Mining)/S.A.M.
Orient Sub- Area (Orient Area)