







## ଆଜି କ'ଣ କେଉଁଠି

- ଓଡ଼ିଆ ସାହିତ୍ୟ ଏକାଦେଶୀ ୩  
ଗୋଧୂଳି ସାହିତ୍ୟ ସାହିତ୍ୟ ପରିଷର  
ଆଲୋଚନାକ୍ଷତିତ୍ରେ ସାହିତ୍ୟରେ  
ରାଯ୍ ମନୀନ ପଚନାକଙ୍କଳ ବାରଷତ  
ଅବଦାନ, ପ୍ଲାନ: ବୃଦ୍ଧମଦିର ସାରାମୁହ,  
ସମୟ: ପୂର୍ବାହ୍ନ ୧୯ ଚା।
- ପ୍ଲାନ କ୍ରୁଷ୍ଣ ପକ୍ଷର ବନ୍ଦରେ ବେଳେ ଆଜିଶା'  
କାର୍ଯ୍ୟକ୍ରମ, ପ୍ଲାନ: ସୂଚନା ଭବନ, ସମୟ:  
ପୂର୍ବାହ୍ନ ୧୯ ଚା।
- ପଞ୍ଚମ ପ୍ରକାଶନ ପକ୍ଷର ପେଣିଶାର୍କ  
ହେବ ସୂଚନା ଲୋକାର୍ପଣ, ପ୍ଲାନ: ହୋଲେ  
ଆମ୍ବନ ପାଲେସ, ସମୟ: ସାପ୍ତାହୀ ପାଇଁ।
- ବି.କେ ପଞ୍ଚମ ପକ୍ଷର ପ୍ଲାନେଟିକ  
ପକ୍ଷର ପାଠକାର୍ତ୍ତ ସାରାମୁହ, ପ୍ଲାନ:  
ଗାତରୋବ ସବନ, ସମୟ: ସାପ୍ତାହୀ ଗ  
୨୧।

### କଣ୍ଠପାଳ

- ଜିଲ୍ଲାପାଳକ ପୂର୍ବ ଜନ ଅଭିଯୋଗ ଶୁଣାଣି,  
ପ୍ଲାନ: କେରଳ କୁଳ କାର୍ଯ୍ୟକ୍ରମ, ସମୟ:  
ପୂର୍ବାହ୍ନ ୧୦ ଚା।

### ଗନ୍ଧପତି

- ମାରଣା ସାଥୀ ଶିରି, ପ୍ଲାନ: କାଶାନଗର  
କୁଳ ଶାଖାବାଗ୍ରମ, ସମୟ: ସାପ୍ତାହୀ ୯ଚା।

### ଭେଜାନାଳ

- ମିଳିତ ଜନ ଅଭିଯୋଗ ଶୁଣାଣି ଶିରି,  
ପ୍ଲାନ: ଭୁବନ କୁଳ କାର୍ଯ୍ୟକ୍ରମ, ସମୟ:  
ପୂର୍ବାହ୍ନ ୧୦ ଚା।
- ଚାହୁଣ୍ଡାମା ପକ୍ଷର ମେନା ଭବନର  
ଶିରି, ପ୍ଲାନ: ବୃଦ୍ଧମଦିର ଶାଖା,  
ଜନାଥାରୋତ, ଭେଜାନାଳ, ସମୟ:  
ସାପ୍ତାହୀ ୯ଚା।

### ଜଗତ୍ସିଂହପୁର

- ପାଶାକ ନିର୍ବିକାର ଏନ୍‌ସିଏ ଲ୍ୟୁଗନାରଙ୍କ  
ପାଇଁ ବିଦ୍ୟାଯ କାଳାନ ସାର୍ଵଜନି,  
କାର୍ଯ୍ୟକ୍ରମ, ପ୍ଲାନ: କାଳାନ ସାର୍ଵଜନି  
ପକ୍ଷର ସାର୍ଵଜନି, ସମୟ: ପୂର୍ବାହ୍ନ ୧୦ ଚା।
- କେନ୍ଦ୍ରୀପତ୍ର
- ପ୍ରଶାସନିକ ମିଳିତ ବନଶୁଣାଣି ଶିରି,  
ପ୍ଲାନ: ପଞ୍ଚାଯତ ବୁଝିବାଗ୍ରମ, ସମୟ:  
ସାପ୍ତାହୀ ୧୦ ଚା।
- ମା' ପାଇଁ ଗନ୍ଧପତି କାର୍ଯ୍ୟକ୍ରମ, ପ୍ଲାନ:  
କାଳାନ ସାର୍ଵଜନି, ସମୟ: ପୂର୍ବାହ୍ନ ୧୦ ଚା।

### ଯାଜପୁର

- କ୍ରାନ୍ତିକାରୀ ଅଳି ଭରଣୀଙ୍କ ମୁଢିରେ  
ଭବନାନ ଶିରି, ପ୍ଲାନ: ଧର୍ମଶାଲ  
ଧୂତିମନ ପରିଷର, ସମୟ: ପୂର୍ବାହ୍ନ ୧୦ ଚା।
- ମା' ପାଇଁ ଗନ୍ଧପତି କାର୍ଯ୍ୟକ୍ରମ, ପ୍ଲାନ:  
କାଳାନ ସାର୍ଵଜନି, ସମୟ: ପୂର୍ବାହ୍ନ ୧୦ ଚା।

### ନରତାପୁର

- ପ୍ରଶାସନିକ ମିଳିତ ବନଶୁଣାଣି ଶିରି,  
ପ୍ଲାନ: ପଞ୍ଚାଯତ ସମ୍ପର୍କ ବୁଝିବାଗ୍ରମ, ସମୟ:  
ସାପ୍ତାହୀ ୧୦ ଚା।
- ମା' ପାଇଁ ଗନ୍ଧପତି କାର୍ଯ୍ୟକ୍ରମ, ପ୍ଲାନ:  
କାଳାନ ସାର୍ଵଜନି, ସମୟ: ପୂର୍ବାହ୍ନ ୧୦ ଚା।

### କୋରାପୁର

- କ୍ରାନ୍ତିକାରୀ ଅଳି ଭରଣୀଙ୍କ ମୁଢିରେ  
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ଧୂତିମନ ପରିଷର, ସମୟ: ପୂର୍ବାହ୍ନ ୧୦ ଚା।
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କାଳାନ ସାର୍ଵଜନି, ସମୟ: ପୂର୍ବାହ୍ନ ୧୦ ଚା।

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ଧୂତିମନ ପରିଷର, ସମୟ: ପୂର୍ବାହ୍ନ ୧୦ ଚା।

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- କ୍ରାନ୍ତିକାରୀ ଅଳି ଭରଣୀଙ୍କ ମୁଢିରେ  
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ଧୂତିମନ ପରିଷର, ସମୟ: ପୂର୍ବାହ୍ନ ୧୦ ଚା।

### କୋରାପୁର

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ଶତବିର୍ଷ ଜୟତି

File No.: 529528/32-MINB1/03-2025

No. CAD-



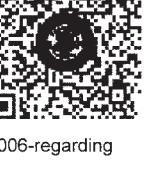
GOVERNMENT OF INDIA

# MINISTRY OF ENVIRONMENT FOREST AND CLIMATE CHANGE

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

Dated: 22.08.2025

To,  
 Sri. Debendra Kumar Nanda, CVO & Land Officer  
 M/s. Odisha Mining Corporation Ltd.  
 OMC House, Post Box No. 34, Bhubaneswar,  
 Adjacent to Odisha Legislative Assembly,  
 Dist- Khordha, PIN-751001  
 parivesh@odishamining.in



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, Odisha vide proposal number SIA/OR/MIN/529528/2025 dated 20/03/2025 for grant of prior Environmental Clearance (EC) to the project Enhancement in Production capacity of Iron Ore from 0.328 million TPA to 0.995 million TPA from Tiringpahar Iron Ore Mine (ML Area – 79.30 Ha.) along with two proposed integrated mobile crushing and screening plant of 200 TPH & 250 TPH in addition to one existing integrated mobile crushing and screening plant of 200 TPH capacity located in Village - Kundrupani, Tahasil-Barbil, District- Keonjhar 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. EC25B0000OR5895696N
- (ii) File No. 529528/32-MINB1/03-2025
- (iii) Clearance Type Fresh EC
- (iv) Category B1
- (v) Project/Activity Included Schedule No. 1(a) Mining of minerals

Expansion of Iron Ore Production capacity from 0.328 million TPA to 0.995 million TPA of Tiringpahar Iron Ore Mine (ML Area – 79.30 Ha) of M/s. Odisha Mining Corporation Limited along with two proposed integrated mobile crushing and screening plant of 200 TPH & 250 TPH in addition to one existing integrated mobile crushing and screening plant of 200 TPH capacity at Village - Kundrupani, Tehsil: Barbil, District: Keonjhar, Odisha.

(vi) Name of Project Village- Kundrupani, Tahasil- Barbil, District- Keonjhar

(vii) Location of Project (District, State) SEIAA, Odisha

(viii) Issuing Authority No

(ix) Applicability of General Conditions

3. In view of the particulars given in the Para 1 above, the project proposal inter alia including Form-1(Part A, B and C)/ EIA & EMP Report, Application for EC were submitted to the SEIAA, Odisha for an appraisal by the State Level Expert Appraisal Committee (SEAC) under the provision of EIA notification 2006 and its subsequent amendments thereto.

4. The above-mentioned proposal has been considered for EC by SEAC in its meeting held on 17.06.2025. The minutes of the meeting and all the project documents as submitted by project proponent are available on Parivesh portal which can be accessed from the Parivesh portal by scanning the QR Code above.

5. The details of the project along with the salient features of the project as submitted by the project proponent in Form-1(Part A, B and C)/ EIA & EMP Report and as presented before SEAC are annexed to this EC as Annexure- 2.

6. The SEAC, after detailed deliberations made by the Project Proponent and the EIA Consultant, in its meeting held on 17.06.2025 under the provisions of EIA Notification 2006 and its subsequent amendments, recommended for grant of Environmental Clearance , stipulating various conditions.

7. The matter was again examined in the State Environment Impact Assessment Authority (SEIAA), Odisha in its 228th meeting held on 12.08.2025, recommendation of SEAC, clarification submitted by PP and in accordance with the EIA Notification, 2006 and further amendments thereto. After detailed deliberations in the matter, the Authority decided to grant Environmental Clearance (EC) with standard and specific condition as recommended by SEAC for an enhanced production capacity of Iron Ore from 0.328 MTPA to 0.995 MTPA valid upto the lease period of 23.08.2034.

8. Environmental Clearance (EC) is granted to the project valid upto the lease period of 23.08.2034 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 Enhancement in Production capacity of Iron Ore from 0.328 million TPA to 0.995 million TPA from Tiringpahar Iron Ore Mine (ML Area – 79.30 Ha.) along with two proposed integrated mobile crushing and screening plant of 200 TPH & 250 TPH in addition to one existing integrated mobile crushing and screening plant of 200 TPH capacity located in Village-Kundrupani, Tahasil-Barbil, District-Keonjhar M/s. Odisha Mining Corporation Ltd." with the following stipulations, environmental conditions and safeguards as given in Annexure- 1.

9. The Validity of EC shall be upto the lease period i.e. 23.08.2034.

10. The SEIAA, Odisha reserves the right to alter /modify the above conditions or stipulate any further condition in the interest of environment protection.

11. 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.

12. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.

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

Copy To:

1. Joint Secretary (IA Division), Ministry of Environment, Forests and Climate Change Govt. of India, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi-110003 for information.

2. Additional Chief Secretary, Forests & Environment Dept., Government of Odisha for information.

3. Additional Secretary to Govt. Steel & Mines Department, Government of Odisha for Information and necessary action.

4. Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for Information and necessary action.

5. Regional Officer, Integrated Regional Office (IRO), Ministry of Environment & Forests, A/3, Chandrasekharpur, Bhubaneswar for Information and necessary action.

6. Regional Director, CGWA, South Eastern Region, Bhujal Bhawan, Khandagiri, Bhubaneswar, PIN-751030 for Information and necessary action.

7. The Director of Mines, Odisha, Bhubaneswar for information and necessary action.

8. Collector & DM, Keonjhar, District-Keonjhar/DDM Joda for Information and necessary action.

9. Guard file for record/Website/Parivesh Portal.

## Annexure 1

## Specific EC Conditions for (Mining Of Minerals)

## 1. Specific Condition

S. No.	EC Conditions
1.1	a) The proponent shall utilize different grades of iron ore (ROM) and waste generated according to IBM guidelines. b) PP shall carryout vetting of Traffic Study through working professors of any reputed institutions. The traffic study report shall be submitted to RO of Ministry as a part of six-monthly compliance report. c) The proponent shall carryout compensatory afforestation for the project site. d) The proponent shall adopt additional measures for dust suppression. e) To reduce the dependency on ground water and Kundra nala, the PP shall construct drainage and rainwater harvesting structures of appropriate dimensions within the lease at appropriate locations, based on a scientific study, and utilize the same to meet the water demand of the mine during non- monsoon season. f) The lessee shall take adequate safeguard measures to ensure the free flow of the nearby tributaries/nallahs if any. g) The EC is limited to secondary crushing and screening operations (dry process) as per approved mining plan. Under no circumstances, the lessee shall carry out any beneficiation activity (wet process) of low grade ore. h) All the ores (45-55) and +55 grades shall be used and ores & rejects shall be transported as per approved mining plan for their use. Only temporary stacks shall be operated. The mine shall avoid segregation & generation of fines and flow of silt during rainy session. i) Green processes like Controlled drilling, Environment friendly blasting, safe transportation and conveying, silt-management shall be followed as per guidelines. j) The PP shall install a wheel washing system at the exit point of the mine.
1.2	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 ( <a href="http://www.parivesh.nic.in">www.parivesh.nic.in</a> ). A copy of the advertisement may be forwarded to the concerned Regional Office of MoEFCC, Gol for compliance and record.
1.3	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.
1.4	The Project Proponent shall carry out plantation/afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting thematic 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.
1.5	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.

## Standard EC Conditions for (Mining of minerals)

## 1. Statutory Compliance

S. No.	EC Conditions
1.1	This Environmental Clearance (EC) is subject to orders/judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
1.2	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations, if applicable to the project.
1.3	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.4	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.
1.5	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
1.6	The Project Proponent shall follow the mitigation measures provided MoEFCC's Office Memorandum No. Z-11013/57/2014-IA-II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitats-Issues related to the mining Projects wherein Habitats and villages are the part of mine lease areas or Habitats and villages are surrounded by the mine lease area".
1.7	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.
1.8	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, whom suggestion / representation has been received while processing the proposal. 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.
1.9	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 ( <a href="http://www.parivesh.nic.in">www.parivesh.nic.in</a> ). A copy of the advertisement may be forwarded to the concerned Regional Office of MoEFCC, Gol for compliance and record.
1.10	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
3.1	The Project Proponent shall install a minimum of 1 (one) online Ambient Air Quality Monitoring Stations in downwind direction to monitor critical parameters, relevant for mining operations. Monitoring of 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. B29016/20/90/PCI/1, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone shall be done periodically as per CPCB guidelines. 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.
3.2	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metallized 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.
3.3	The project proponent use leak proof trucks/dumpers carrying ore and other raw materials and cover them with tarpaulin.
3.4	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed fugitive emission standards.

3.5	The project proponent shall monitor fugitive emissions in the ML area at least once in every quarter through labs recognised under Environment (Protection) Act, 1986. The project proponent shall carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the ML area atleast at four locations (one within and three outside the plant area at angle of 120 each). covering upwind and downwind directions.
<b>4. Water Quality Monitoring And Preservation</b>	
S. No.	<b>EC Conditions</b>
4.1	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 leasefor 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 obstructionand/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 SEIAA,SPCB and the Regional Office of MoEF & CC, 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.
4.2	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.
4.3	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.
4.4	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 ConsenttoOperate(CTO) issuedbyconcernedStatePollutionControlBoard (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
4.5	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.
4.6	Incase, 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 SEIAA is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydrogeological study of the area.
4.7	Project Proponent shall regularly monitor and maintain

13.5 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. The copy of the board resolution in this regard shall be submitted to the RO,MoEF&CC as a part of six-monthly report.

13.6 Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the RO, Bhubaneswar, MoEF&CC, OSPCB & SEIAA, Odisha.

#### 14. Miscellaneous

S. No.	EC Conditions
14.1	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.
14.2	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the SEIAA & the concerned Regional Office, MoEF & CC, Central Pollution Control Board and State Pollution Control Board. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Odisha State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective to the concerned Regional Office (RO), Bhubaneswar of MoEF&CC, GoI, Central Pollution Control Board and State Pollution Control Board.
14.3	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.
14.4	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. The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Govt. of India, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
14.5	It shall be mandatory for the project management to submit six (06) monthly compliance reports on post environmental monitoring in respect of the stipulated terms and conditions in this Environmental Clearance to the State Environment Impact Assessment Authority (SEIAA), Odisha, SPCB & Integrated Regional Office of the Ministry of Environment & Forest, Odisha, the respective Zonal Office of CPCB and the SPCB in soft copies on 1st June and 1st December of each calendar year. No hard copy of six (06) monthly compliance reports shall be accepted by SEIAA. The proponent shall upload the compliance report including results of monitored data, as applicable in the Parivesh website of the Ministry for monitoring of EC Conditions, failing which EC is liable to be revoked. 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.
14.6	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.
14.7	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.
14.8	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.
14.9	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.
14.10	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.

#### Annexure-2

1. **Proposal in Brief:**  
The highlights of the proposal as ascertained from the application submitted by the PP and observations of SEIAA are given as under:
- This is a proposal of M/s Odisha Mining Corporation Ltd. for Environmental Clearance for Enhancement in Production capacity of Iron Ore from 0.328 million TPA to 0.995 million TPA from Tiringpahar Iron Ore Mine (ML Area – 79.30 Ha.) along with two proposed integrated mobile crushing and screening plant of 200 TPH & 250 TPH in addition to one existing integrated mobile crushing and screening plant of 200 TPH capacity located in Village - Kundrapuni, Tahasil- Barbil, District- Keonjhar filed by Sri. Debendra Kumar Nanda, CVO & Land Officer.
  - Category: As per EIA Notification, 14th September 2006 followed by subsequent amendments, the proposed project falls under Category B1 – schedule 1 (a) – Mining of Minerals.
  - Details of TOR, if issued earlier: Terms of Reference (ToR), was issued by SEIAA, Odisha vide letter no. 469341/11-MIN/04-2024 dated 30.05.2024.
  - Public hearing details: Public Hearing for the Tiringpahar Iron Ore mine was held on 07.01.2025 at 11:00 am at Mouza-Baitarani Reserved Forest area (2 kms from village Kundrapuni, 01 km from village Kahndbandh and about 20 m from Delphajar Basti) in accordance with the Ministry of Environment, Forest & Climate Change, Govt of India, EIA Notification No. S.O. -1533 (E) dated 14.09.2006. Major issues raised during hearing were employment, health facilities and socio - economic development. A budget of Rs. 4.73 Crore has been earmarked under EMP to address the issues & suggestions raised during public hearing.
  - They have applied for expansion in Iron Ore Production capacity from 0.328 million TPA to 0.995 million TPA. The Iron ore mined out after the proposed expansion in Tiringpahar Iron Ore Mine will be directly sent to Steel Plants and Sponge Iron Plants and sold to prospective buyers.
  - Location and connectivity: The proposed project is located at Village- Kundrapuni, Tehsil: Barbil, District: Keonjhar, Odisha. The Mine site is located between latitude: 21°57'47.9152" to 21°58'09.1204" N and longitude 85°22'22.0279" to 85°23'14.45259"E. Core and buffer zone of the project is falls under the Survey of India Topo sheet No. F45N5 (73G/5), F45H8 (73F/8). Total mining lease is Forest Land. The mine is connected by SH-28 (~4.1 km in East Direction) and NH-520 (Earlier known as NH 215) (~6.0 km in NW direction). The nearest railway station is Jharoni Railway Station (~ 3.6 km in ESE Direction) and nearest airport is Veer Surendra Sai Airport, Jharsuguda (~135 km in West direction). Baitarani Reserved Forest falls within the Lease area. Nearest water body from mine site is Suna Nadi which is adjacent in West direction. Nearest Habitation present in the study area is Khandabandha which is 1.08 km in SE direction from the mine site. There is no WLS /National Park / Biosphere Reserve / Elephant Corridor / Tiger Reserve / Eco-Sensitive area within 10 km radius area of the proposed site.
  - Mining lease: Mining lease granted for Iron ore in favour of M/s. OMC Ltd. over an area of 85.469 ha. in Village Tiringpahar of Keonjhar District. Subsequently, the lease area was revised to 135.466 ha. and communicated to the Collector, Keonjhar. The lease deed was executed on 24.08.1964 for 30 years. The Lease was expired on 24.08.1994. First Renewal of mining lease was filled on 11.08.1993 over the reduced area of 79.30 ha. and granted for twenty years w.e.f. 24.08.1994 to 23.08.2014. Second renewal of mining lease filled over 79.30 ha. on 23.07.2013 within stipulated time and the same was pending as on date of commencement of MMDR Amendment Act, 2015 i.e. 12.01.2015. In terms of Rule 3 of Mineral (Mining by Govt. Company) Rules 2015, the period of original lease is deemed to be granted for 50 years i.e. from 24.08.1964 to 23.08.2014 over the reduced area of 79.30 ha. and in terms of Rule-3 (2) the period of said mining lease is further extended from 24.08.2014 to 23.08.2034. Period of validity of the said lease over 79.30ha. is extended and deemed to have been extended on 27.07.2019 up to 23.08.2034 subject to all terms and conditions of the said lease. Supplementary lease deed executed on 27.07.2019 and registered on 30.07.2019 and the lease is valid up to 23.08.2034
  - List of Statutory Clearances obtained earlier –

#### S. No. Particular Letter No & Date

Forest Clearance (FC)		Letter No & Date
1.	Diversion of 79.30 hectares of Reserved Forest Land in Tiringpahar Mining lease area in favour of Orissa Mining Corporation Ltd.	Stage I: 8-54/2010-FC dated 27 Sept., 2017 Stage II: 8-54/2010-FC dated 18 April, 2019
2.	The process for settlement of rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 has been completed for the entire forest area over 79.30 ha. situated in Baitarani R.F. within Tiringpahar Iron Ore Mines of OMC Ltd. and Certificate for the same was issued by Collector, Keonjhar.	19.04.2010 & 22.02.2017

#### Existing Environmental Clearances (EC)

1.	Environmental Clearance for 0.328 million TPA Iron Ore Production in favour of M/s. Orissa Mining Corporation Limited.	J-11015/1082/2007-I.A. II (M) dated 12.06.2008
2.	Certification of six-monthly EC Compliance by IRO, MoEF & CC (IRO visit on 12.02.2025)	101-434/25//EPE/188 dated 20.02.2025 101-434/25//EPE/183 dated 20.02.2025
3.	Action taken report for partial complied condition submitted to IRO, MoEF & CC	428/OMC/TIOM/2025 dated 11.03.2025

#### Existing Consent for Establish (CTE)

1.	CTE for 0.328 million TPA Iron Ore Production Capacity under section 25 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 in favour of M/s. Orissa Mining Corporation Limited.	8948/IND-II-CTE-6334 dated 29.08.2019
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#### Existing Consent for Operation (CTO)

1.	CTO for 0.328 million TPA Iron Ore Production Capacity under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 in favour of M/s. Orissa Mining Corporation Limited.	110248/IND-I-CON-6333 dated 16.11.2020 Valid Up to 31.03.2025
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#### Past Production Details

1.	Past Production Details authenticated by Deputy Director of Mines, Joda Circle, Dist- Keonjhar.	Memo No. 1384 Mines, dated 20.04.2024
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#### Others NOZCs/Permissions

1.	NOC regarding 125 KLD Surface water abstraction from Kundra Nala has been obtained from Water Resource Department, Odisha.	Letter No. 17569/WR dated 24.07.2017
2.	The NOC for 55 KLD ground water withdrawal has been obtained from Central Ground Water Authority (CGWA).	Letter no. CGWA/NOC/MIN/REN/1/2023/ 7591 dated 11.04.2023 which will be Valid up to 17.02.2025
3.	NOC for deep hole Blasting under Regulation 106(2)(b) of the Metalliferous Mine Regulations, 1961	Letter No. 330899  SEZ Chabasa Region Perm 2020 4260 dated 19.03.2020.
4.	Hazardous Waste Authorization in favour of Tiringpahar Iron Ore Mine of M/s. Odisha Mining Corporation Ltd.	IND-IV-HW-1366/12171 dt. 16.08.2021 and valid upto 31.03.2025.
5.	Authentication of flora & fauna for core zone and buffer zone.	List of Flora Fauna has been authenticated by DFO, Keonjhar Division Odisha.
6.	Authentication of Location Map showing RF, PF National Park, Wildlife sanctuaries, wildlife corridors, Tiger reserves within 10 km radius study area.	Location Map showing RF, PF National Park, Wildlife sanctuaries, wildlife corridors, Tiger reserves within 10 km radius study area have been authenticated by DFO, Keonjhar-Division.
7.	Approval of site-specific wildlife conservation plan for schedule I Species	IND-IV-HW-1366/12171 dt. 16.08.2021 and valid upto 31.03.2025.
8.	Request letter submitted to Forest Department for any additional interventions required as per standard TOR granted	Memorandum dated 05.05.2011
9.	Approval of Review of Mining Plan with Progressive Mine Closure Plan	4218/OMC/F&E/2024 dated 11.03.2024

#### ix) Summary of the products generated by the project:

Units'	Products and by Products	Existing	Additional	After expansion
Ironore	Product	0.328 MTPA	0.667 MTPA	0.995 MTPA

#### x) Mining Plan Details:

- Method of Mining: The existing mining operations are being done by Semi Mechanized- Opencast mining method with shovel dumper combination. After Expansion the mining operations will be done by Fully Mechanized Opencast mining method for mining IronOre. All operations of mining are/will be done by deployment of Heavy Earth Moving Machineries for deep hole drilling and blasting, excavation, loading & transport. Various mining activities such as drilling, blasting, loading, hauling and transportation is being/will be so conducted as to ensure maximum mineral conservation and minimum environmental degradation.
- Mining Machineries:

#### S. No. Equipment (Type) Equipment (Make) Capacity Equipment (in Nos.)

#### Transportation and Hauling Equipment

1.	Hauling Equipment	Volvo/Bharat/Benz/Eicher/Tata/Prima	19 m <sup>3</sup>	09
2.	Hauling Equipment	Volvo/Bharat/Benz/Eicher/Tata/Prima	14 m <sup>3</sup>	15

#### Excavator and Loading Equipment

1.	Excavator	Tata Hitachi/Volvo/Kobelco/Sany	3.5 m <sup>3</sup>	04
2.	Excavator	Tata Hitachi/Volvo/Kobelco/Sany	2.5 m <sup>3</sup>	05

#### S. No. Equipment (Type) Equipment (Make) Capacity Equipment (in Nos.)









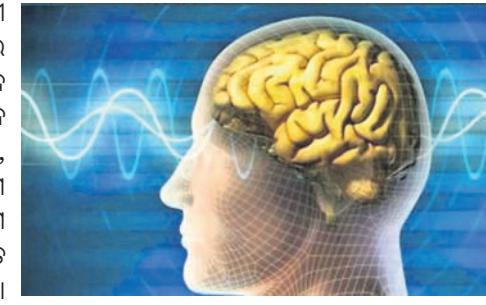


## ମାନସିକତା ସକାରାଯୁଦ୍ଧ ରହିଲେ...

ଯଦି ଆପଣଙ୍କର ମାନସିକତା ଅଧିକାଂଶ ସମୟ ସକାରାମୁକ  
ରହିଲା ତେବେ ତାହାର ଏକ ଉପକାରୀ ଗୁଣ ଶରୀରକୁ  
ମିଳିଥାଏ । ଏହାହାରା ହୃଦୟିଣ୍ଡ ପୂର୍ବାପୋକ୍ଷା  
ଆସୁର ସ୍ଵର୍ଗ ରହିଥାଏ । ତେବେ ହାର୍ଟ କିପରି ସ୍ଵର୍ଗ  
ରହିବ ସେ ବିଷୟରେ ଆମେ ସତେଚନ  
ହେବା ନିଷ୍ଠାତି ଜରୁରୀ । ‘ସକାରାମୁକ  
ମାନସିକତା ଏବଂ ହୃଦୟିଣ୍ଡ’  
ବିଷୟରେ ଲକ୍ଷ୍ମନ ବିଶ୍ୱବିଦ୍ୟାଳୟର  
ବିଶେଷଜ୍ଞମାନେ ଏକ ସର୍ତ୍ତେ କରି  
ଏକଥା ଜାଣିପାରିଛନ୍ତି । ସେମାନଙ୍କ  
ପକ୍ଷରୁ ପ୍ରକାଶିତ ସର୍ତ୍ତେ ରିପୋର୍ଟରେ  
ଉଲ୍ଲେଖ କରାଯାଇଛି ଯେ ଯଦି ଜଣେ  
ବ୍ୟକ୍ତି ନିଜର ମାନସିକତାକୁ ଅଧିକାଂଶ ସମୟ  
ସକାରାମୁକ ରଖନ୍ତି, ତେବେ ତାଙ୍କର ହାର୍ଟ ଆସୁର ସନ୍ତ୍ରିଷ୍ଟ ଭାବେ କାର୍ଯ୍ୟ କରିବ । ଏହାର  
ଅନ୍ତର୍ଭୂତ ବ୍ୟକ୍ତିମାନଙ୍କର ମାନସିକତାକୁ ଉର୍ଜମା କରାଯାଇଥିଲା । ଏଥରୁ ଜଣାପଡ଼ିଥିଲା ଯେ,  
ସେମାନଙ୍କର ମାନସିକତା ଅଧିକାଂଶ ସମୟ ସକାରାମୁକ ରହୁଛି, ସେମାନଙ୍କର ହାର୍ଟ  
ଅଧିକ ସନ୍ତ୍ରିଷ୍ଟ ଭାବରେ କାମ କରୁଛି । ତେଣୁ ଜଣେ ବ୍ୟକ୍ତି ଯେତେ ସମ୍ବନ୍ଧ ନିଜକୁ ଚାପିମୁହଁ  
ରଖୁବା ସହ ନିଜର ମାନସିକତାକୁ ସକାରାମୁକ ରଖୁବା ପାଇଁ ସେମାନେ ପରାମର୍ଶ ଦେଇଛନ୍ତି ।



# ଓଡ଼ିଆ ମିଠା ଖାଇବା ସ୍କରଣଶକ୍ତିକୁ ପ୍ରଭାବିତ କରିପାରେ



## ଖାଲି ପେଟରେ ତା-କପ୍ଟ ପିଉଥୁଳେ...

ତା' ଓ କପି ଅମ୍ବାୟ ଅଂଶ ରହିଛି । ତେଣୁ  
ଖାଲିପେଟରେ ଏହାକୁ ପିଇଲେ ଶରାଗରେ  
ଅମ୍ବ ଓ ଶାରର ସନ୍ତୁଳନ ବିପର୍ଯ୍ୟୁ  
ହୋଇପଡ଼େ । ସକାଳେ ପାକଷୁଳୀ ଭିତରେ  
କୌଣସି ଖାଦ୍ୟ ନ ଥାଏ । ଫଳରେ  
ପାକଷୁଳୀ ନରମ ଥାଏ । ସକାଳୁ ଖାଲି  
ପେଟରେ ତା' ପିଇଲେ ଟିଲୀ ଉପରେ  
ପ୍ରତିକ୍ରିୟା ପ୍ରଭାବ ପତେ ଏବଂ ଦୀଘକାଳିକ  
ପାକଷୁଳୀ ପ୍ରଦାହ ବା କ୍ରୁନ୍ତିକ ଗାସ୍ତୁଳିଟିସ୍ ସମାସ୍ୟା ସୃଷ୍ଟି ହୋଇଥାଏ । ଏହି କାରଣରୁ ଅରୁଚି  
ହୋଇ ତେଜି ମରିଯାଇପାରେ । ବିଶେଷଭାବରେ ଖାଲି ପେଟରେ କଢ଼ା ତା' ପିଇଲେ  
ପାକଷୁଳୀରୁ ଅମ୍ବକରଣ ବଢ଼ିଯାଏ । ଏତେବ୍ୟତାତ ସକାଳେ ବିଛଣା ଛାଡ଼ିବା ପରେ ପରେ ତା'  
କିମ୍ବା କପି ପିଇଲେ ପାଟିରେ ଥିବା ଜୀବାଶ୍ୱରୁଡ଼ିକ ଧୋଇହୋଇ ଅନୁମଳୀ ଭିତରକୁ ପ୍ରବେଶ  
କରିଥାଏନ୍ତି । ତା'ରେ ରହିଥାଏ ସାମାନ୍ୟ ପରିମାଣର ନିକୋଟିନ, ଯାହା ଆସଙ୍କ୍ରିୟା ସୃଷ୍ଟିର  
କାରଣ ହୋଇପାରେ । ତେଣୁ ସକାଳେ ଖାଲିପେଟରେ ତା' ହେଉ କି କପି ପିଇବା ଆଦୋଦ  
ନିରାପଦ ନୁହେଁ । ବରଂ ସକାଳୁ ଉଠି ଗିଲାସେ ପାଣି ପିଇ ସାରି ଫଳଟିଏ ଖାଇନେବା ପରେ  
୧୪ ରୁ ୨୦ ମିନିଟ୍ ପରେ ତା' ପିଇହେବା । ତା' ସହ ବିଶୁର୍ଗ କି ସାମାନ୍ୟ ଜଳଖୁଆ ଖାଇଲେ  
ତାହା ଅପେକ୍ଷାକୃତ ନିରାପଦ । ସକାଳେ କିଛି ଖାଇ ସାରିବା ପରେ ହେବା ତା' ପିଆୟାଇପାରେ ।  
ହେଲେ ଖାଲିପେଟରେ ତା' କି କପି ପିଇବା ସାମ୍ବୁଦ୍ଧ ପାଇଁ ଆଦୋ ହିତକର ନୁହେଁ ।



# ସ୍ନେହଗତରେ ଆକ୍ରମାଷ୍ଟିକ ଅତିଥି



ତୁରାଜଗତ ଦାହ୍ୟ ଏହା ଉଚ୍ଛବ୍ୟ ଦିନ ପାଇଁ ପୂର୍ଣ୍ଣ ଧାରା  
ଯାଇଥୁବା ପ୍ରଥମ ଜଣା ଗ୍ରହାଶୂନ୍ୟ ନାମ ହେଉଛି ଓ ଉମ୍ମାମୁଖୀଆ  
ଏହାକୁ ପୁରୁତ୍ରାକ୍ଷ୍ମୀ ଆମେରିକାର ହାତ୍ମାଜଠାରେ ଥୁବା ପାନସ୍ତ୍ରୀଏ  
ଦୂରବୀକ୍ଷଣ ଯନ୍ତ୍ର ଦ୍ଵାରା ୨୦୧୭ ମସିହା ଅକ୍ଟୋବର ୧୯ ତାରିଖରେ  
ଆବିଷ୍କାର କରାଯାଇଥିଲା । ଏହି ପର୍ଯ୍ୟବେକ୍ଷଣ ‘ନାସା’ର ପୃଥିବୀର  
ସମୀପବର୍ତ୍ତୀ ବିଶ୍ୱଗୁଡ଼ିକ କାର୍ଯ୍ୟକ୍ରମର ଅନ୍ତର୍ଭୁକ୍ତ ଥିଲା । ସ୍ଵର୍ଗୀୟଠାରୁ  
ଏହାର ନିକଟତମ ବିଦ୍ୟୁତ୍ ପ୍ରାୟ ୪୦ ଦିନ ଗତି କରିବା ପରେ ଏହାକୁ  
ଆବିଷ୍କାର କରାଗଲା ଏବଂ ଏହା ସେତେବେଳକୁ ପୃଥିବୀଠାରୁ ପ୍ରାୟ  
୩୩ ନିଯୁତ କିମି ଦୂରରେ ଥିଲା । ଏହାର ଆବିଷ୍କାରକ ହେଉଛନ୍ତି  
କାନାଡାର ଜ୍ୟାତିବିଦ୍ ରବର୍ ଉଲରିକ୍ । ଏହାର ଆକାର ହେଉଛି  
୨୩୦ ମିଟର x ୩୫ମିଟର x ୩୫ ମିଟର ।”

ଦେବ ରଜଗତରେ ସମସ୍ତ ଗ୍ରସ,  
ଶୁଣାଣୁ ବାମନ ଗ୍ରସ,  
ଧୂମକେତୁ ଆଦି ସୂର୍ଯ୍ୟଙ୍କ ପରିକ୍ରମା  
କରିଥାଆନ୍ତି । ଏହିସବୁ ବୟସିଣୀ  
ଉପରେ ସୂର୍ଯ୍ୟର ମାଥାକର୍ଷଣ ପ୍ରଭାବ  
ରହିଛି । ଯୌରଜଗତର ଶେଷ ଗ୍ରହ  
ନେପରୁନ ପରେ ଅନେକ ଦୂର ପର୍ଯ୍ୟନ୍ତ  
କୁଳପର ବଳୟ ରହିଛି, ଯେଉଁଥିରେ  
ଅନେକ ଗ୍ରହାଣୁ ରହିଛନ୍ତି । କୁଳପର  
ବଳୟ ପରେ ଯୌରଜଗତ ଶେଷ  
ହୋଇଛି । ଯୌରଜଗତ ସୀମା  
-ପରେ ଏକ ଅନ୍ଧାରୁଆ ଅଞ୍ଚଳ ରହିଛି,  
ଯାହା ନାମ ହେଉଛି ଉର୍ଚ୍ଚ ବାଦଳ ।

ଏହାକୁ ଯୁଦ୍ଧରାଷ୍ଟ୍ର ଆମେରିକାର  
ହାତୋଳଠାରେ ଥିବା ପାନସ୍ତ୍ରାସ  
ଦୂରବାଣଶ ଯନ୍ତ୍ର ଦ୍ୱାରା ୨୦୧୭ ମସିହା  
ଆଜ୍ଞୋଦର ୧୯ ତାରିଖରେ ଆବିଷ୍କାର  
କରାଯାଇଥିଲା । ଏହି ପର୍ଯ୍ୟବେକ୍ଷଣ  
'ନୀଯା'ର ପୃଥ୍ବୀର ସମୀପବର୍ତ୍ତା  
ବହୁମୁଖୀ କାର୍ଯ୍ୟକ୍ରମର ଅନ୍ତର୍ଭକ୍ତ ଥିଲା ।  
ସୁଧ୍ୟଠାରୁ ଏହାର ନିକଟତମ ବିଶ୍ୱାସ  
ପ୍ରାୟ ୪୦ ଦିନ ଗତି କରିବା ପରେ  
ଏହାକୁ ଆବିଷ୍କାର କରାଗଲା ଏବଂ  
ଏହା ସେତେବେଳକୁ ପୃଥ୍ବୀଠାରୁ ପ୍ରାୟ  
୩୩ ନିୟୁତ କିମି ଦୂରରେ ଥିଲା । ଏହାର  
ଆବିଷ୍କାରକ ହେଉଛନ୍ତି କାନାଡାର  
ଜ୍ୟୋତିର୍ବଦ୍ଧ ରବର୍ଟ ଉଲରିକୁ । ଏହାର  
ଆକାର ହେଉଛି ୨୫୦ ମିଟର x  
୩୫ ମିଟର x ୩୫ ମିଟର । ଏହାର  
ଅସାଧାରଣ ଆକାର ଓ ଅନ୍ୟାନ୍ୟ ଉତ୍ସର୍ଗ

ଆସିଥିବା ମନେକଲେ । ଏହାର ବେଗ  
ଘଣ୍ଠା ପ୍ରତି ୩୦,୦୦୦ କିମି ଥିଲା ଏବଂ  
ଏହାର ଚିତିଥୟ ଜଣାଗଲା ଯେ ଏହା  
ଆମ ସୌରଜଗତର ବୟୁପିଣ୍ଡ ନୁହେଁ ।  
୨୦୧୯ ମସିହା ଜୁଲାଇ ମାସ ଦୁଇତାହାରେ  
ଜ୍ୟୋତିର୍ବଦ୍ଧମାନେ ସିନ୍ଧାନରେ ପହଞ୍ଚିଲେ  
ଯେ ଏହା ହେଉଛି ଗୋଟିଏ ପ୍ରାକୃତିକ  
ବୟୁପିଣ୍ଡ ଏବଂ ଏହା ସୌରଜଗତ ବହାରୁ  
ଆସିଛି । ଏହା ପୃଥ୍ବୀର ନୂମାତ୍ର ଏକ ସପ୍ତାହ  
ଦେଖା ଯାଇଥିଲା । ଏଣୁ ଏହା ସମ୍ବନ୍ଧରେ  
ବିଶେଷ ଅଧ୍ୟୟନ କରାଯାଇପାରିଲା ନାହିଁ ।

### ବୋରିଯୋଭ

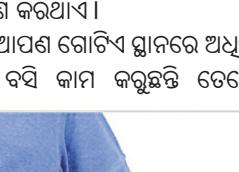
ଏହାକୁ କ୍ରମିଯାର ଜ୍ୟୋତିର୍ବଦ୍ଧ ଗୋମାତି  
ବୋରିଯୋଭ ୨୦୧୯ ମସିହା ଅଗଷ୍ଟ  
୨୯ ତାରିଖରେ କ୍ରମିଯାର ନୌତନିକଙ୍ଗପ୍ରତି  
ମାର୍ଗେ ପର୍ଯ୍ୟବେକ୍ଷଣାବାରୁ ଆବିଷ୍କାର  
କରିଥିଲେ । ଏହା ହେଉଛି ଗୋଟିଏ

ଅନେକ ବ୍ୟକ୍ତି ଏହା ବାହାର ଗ୍ରହରୁ ଧୂମକେତ୍ରୀ ଏହାର ଉତ୍କ୍ଳେଷ୍ଟତା ୩.୩୭

# ସ୍ଵୀଚ୍ଛା ପରାମର୍ଶ

ରଖିବାକୁ ଚେଷ୍ଟା କରନ୍ତୁ । କାରଣ ଏହା  
ପରୋକ୍ଷରେ ଆଉ କେତେକ ରୋଗକୁ  
ଆମାନ୍ଦୁଶ କରିଥାଏ ।

► ଯଦି ଆପଣ ଗୋଟିଏ ସ୍ଲାନ୍ରେ ଅଧିକ  
ସମୟ ବସି କାମ କରୁଛନ୍ତି ତେବେ



ତୋମରୁ କାହାକୁ ଏହାକୁଠାର କରିବାକୁ  
ସମସ୍ୟା ଦେଖାଯିବାର ଆଶଙ୍କା  
କେତେକାଂଶରେ କମ ଥାଏ ।

► ଦୃଷ୍ଟିକୁଳିଜିନିତ ସମସ୍ୟା ଦେଖାଦେଲେ  
ତାହାକୁ ଅବହେଲା କରନ୍ତୁ ନାହିଁ । ବିଳମ୍ବ  
ନ କରି ଅଭିଜ୍ଞ ଚମ୍ପ ବିଶେଷଜ୍ଞଙ୍କ ସହ  
ପରାମର୍ଶ କରନ୍ତୁ ।

► ପ୍ରତିଦିନ କିଛି ପରିମାଣର ସାଲାଭ  
ଖାଆନ୍ତୁ । ବିଶେଷଭାବରେ ଏହାକୁ  
ସକାଳ ଜଳଖୁଆ ବା ବ୍ରେକପାଷ୍ଟରେ  
ସାହିଲ କଲେ ସେଥିରୁ ଆହୁରି ଉପକାର  
ମିଳିଥାଏ ।

► ରାତିରେ ଶୋଇବାକୁ ଯିବା ପୂର୍ବରୁ  
ଭଲ ଭାବରେ ଗୋଡ଼ାହାତ ଆଉ  
ମୁହଁ ଧୂଅନ୍ତୁ । ଏହାଦ୍ୱାରା ଭଲ ନିଦ

ଧୂମକେତୁର ନାମକରଣ କରାଯାଇଛି।  
ବୌରଜଗତକୁ ଆସିଥିବା ଅବୁଲ ଆନ୍ଦନାକ୍ଷତ୍ରିକ ବୟସପିଣ୍ଡଠା  
ଏହା ହେଉଛି ବତ ଓ ଉଚ୍ଚଳ। ଏହା  
କଷର ଉତ୍କେନ୍ଦ୍ରତା ହେଉଛି ୧.  
ସୂଚନାଯୋଗ୍ୟ ଯେ ଯେଉଁ ବୟସପିଣ୍ଡଠା  
କଷର ଉତ୍କେନ୍ଦ୍ରତା ଏକବୁ ଅଧି  
ହୋଇଥାଏ, ତାହା ସୂର୍ଯ୍ୟ ଗରିପାର  
ପିକ୍ରମଶ କରି ନ ଥିଲା । ଏହା ୨୦୧୯  
ମସିହା ଅକ୍ଷେତ୍ର ମାସ ଶେଷ ଆତକୁ  
ବୌରଜଗତରେ ପ୍ରବେଶ କରିଥିଲା । ଏବଂ  
ସେହି ବର୍ଷ ଡିସେମ୍ବର ୮ ତାରିଖରେ  
ସୂର୍ଯ୍ୟଠାରୁ ଏହାର ନିକଟତମ ଦୂରତା  
ଦୂର ମହାକାଶଟିକ ଏକକ ଥିଲା । ଏହା  
ସେହି ବର୍ଷ ଡିସେମ୍ବର ୨୮ ତାରିଖରେ  
ପୃଥ୍ବୀ ନିକଟର ଥିଲା । ଏହାର  
ଲାଞ୍ଚର ଦେର୍ଘ ପୃଥ୍ବୀ ଆକାରର ୧୪  
ମୂଳି ଥିଲା । ଏହାର କୋମା ଏବଂ ଧୂଲି  
ଓ ଗ୍ୟାସର ବାକଳ ଥିଲା । ଏହା ପୃଥ୍ବୀ  
ଠାରୁ ୩୦୦ ମିଲ୍ଲି କିମିରୁ ଅଧିକ ଦୂର  
ଦେଇ ଯାଇଥିବାରୁ ଏହାର ଠିକ୍ ଆକାର  
ଓ ଆକୃତି ନିର୍ମିତରଣ କରାଯାଇ ପାରି ନ  
ଥିଲା । ଏହାର ନାମିକ ବ୍ୟାସ ୧.୪ରୁ ୧୭  
କିମି ମଧ୍ୟରେ ଆକଳନ କରାଯାଇଛି ।

ଆଟଳାସ ମୋ : ୯୪୩୮୭୫୩୭୬

# ଶ୍ଵରପାତ୍ର

- ଆପଣ ମେଦବହୁଳତା ସମସ୍ୟା ସହ ଜିତିତ କି ? ତେଣୁ ସବୁବେଳେ ନିଜର ଓଜନ ସନ୍ତୁଳିତ ରଖନ୍ତୁ। ଖାଦ୍ୟପେଯ ସହ ପରାମର୍ଶ କରିବାକୁ ଭୁଲନ୍ତୁ ନାହିଁ।
- ନିଜକୁ ସବୁବେଳେ ଚିତ୍ରାଠାରୁ ଦୂରେଇ ରଖିବାକୁ ଚେଷ୍ଟା କରନ୍ତୁ। କାରଣ ଏହା କିଛି ସମୟ ବ୍ୟବଧାନରେ ଟିକେ ଉଠି ଚାଲବାକୁ କରନ୍ତୁ। ଏହାମାରା ଅଣ୍ଟାଜନିତ ସମସ୍ୟା ଦେଖାଯିବାର ଆଶଙ୍କା

ପ୍ରତି ସତକିଟା ଅବଲମ୍ବନ କରିବା ସହ ପଗୋକ୍ଷରେ ଆଉ କେତେକ ରୋଗକୁ କେତେକାଂଶରେ କମ ଥାଏ ।  
ବିମନିକ ବ୍ୟାପାର ବନ୍ଦ । ଆମକଣ ବିଥାଏ । କଷିଣିଶିଖିତିରିତ ମଧ୍ୟରେ ଦେଖାନ୍ତେ

▶ ଦାୟିକାଳନ ରୋଗ ସହ ଜଡ଼ିତ ଥିଲେ ମିର୍ଦ୍ଧ ସମୟ ବ୍ୟବଧାନରେ ଡାକ୍ତରଙ୍କ ଯାହାକୁ ଆପଣ ଗୋଟିଏ ଖ୍ଵାନରେ ଅଧିକ ସମୟ ବସି କାମ କରୁଛନ୍ତି ତେବେ

▶ ଯଦି ଆପଣ ଗୋଟିଏ ଖ୍ଵାନରେ ଅଧିକ ସମୟ ବସି କାମ କରୁଛନ୍ତି ତେବେ

▶ ପ୍ରତିଦିନ କିନ୍ତୁ ପରିମାଣର ସାଲାଭ

A photograph showing a person from the chest down to their waist. They are wearing a blue short-sleeved t-shirt. A yellow tape measure is wrapped around their midsection, held by their hands, likely to measure their waist circumference.

# ଏକିଳେସ୍ୱର କାରଣ

ପ୍ରାୟ ୫୦ ପ୍ରତିଶତ  
ଏପିଲେପସି ଗୋଗାଙ୍କ  
କ୍ଷେତ୍ରରେ ଗୋଗର କୌଣସି  
କାରଣ ଜଣାପଡ଼ି ନ ଥାଏ । ମୁଣ୍ଡରେ  
ଜୋରରେ ମାତ୍ର ବାଜିଲେ, ଶିଶୁ ଜାଣି  
ସମୟରେ ତା'ପାଇଁ ଅମ୍ବଳାନର  
ଅଭାବ ହେଲେ, ମହିଷରେ ପ୍ରଦାନ  
ହେଲେ କି ମହିଷରେ ଅର୍ଦ୍ଧ ବା  
ଦ୍ୟୁମର ହୋଇଥିଲେ ଏପିଲେପସିର  
ଲକ୍ଷଣମାନ ପ୍ରକାଶ ପାଇଥାଏ ।  
ଏପିଲେପସିର ମଧ୍ୟ ବଂଶଗତ  
ପ୍ରଭାବ ରହିଛି । ଏପିଲେପସିର  
ଏକାଧିକ ପ୍ରକାର । ପ୍ରକାରୁ ତାହିଁ  
ଲକ୍ଷଣ ଭିନ୍ନ ଭିନ୍ନ ହେବା ସାଭାକିନ  
କିନ୍ତୁ ବାତ ମାରିବା ଲକ୍ଷଣଟିହେଁ ପ୍ରଧାନ



ও এহা আনেক গোগাঙ্ক ক্ষেত্ৰে  
পঞ্জিক্ষণি হোৱাথাব। বাত মাৰিব  
আৰম্ভ হৈবা পূৰ্বৰু যোৱাই স্বৰূ সূচনা  
প্ৰকাশ পাইপাৰে, তাকু তাঙ্গৰ  
ভাষারে ‘অৰা’ বোলি কৃষ্ণতা। গো  
ছাত্তিবাৰ কিছি কুআড়ি সুচনা ন থাই  
হোতাৰ গো বাৰিবাৰ অনুভব হৈবা  
কৌশলি ঘোৱশন ন থাই হোতাৰ  
শিশু শুণিবাৰ অনুভব হৈবা, পাৰ্শ্ব  
ভিতৰে কিছি ন থাই আকস্মীক ভাৰতে  
স্বাদ অনুভব কৰিবা, কৌশলি অস্বীকৃত  
ন থাই পেটৰে হোতাৰ অস্বীকৃত  
অনুভব কৰিবা, আঞ্চ সাম্প্ৰদায়ে  
হোতাৰ আলুয় কচমাক কৰিবা জৈৱা  
হৈছিলি অৱাৰ কেতোটি উদাহৰণ

