

GUIDELINES FOR MINERAL STACK YARDS AND RAILWAY SIDINGS

APRIL, 2008



STATE POLLUTION CONTROL BOARD, ORISSA

Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,
Bhubaneswar – 751 012, INDIA

GUIDELINES FOR PROCESSING OF CONSENT APPLICATION FOR MINERAL STACK YARDS AND RAILWAY SIDING

Transportation, storage, loading and unloading of minerals at Stack yard / Railway sidings has considerable air pollution potential. These activities have been brought under consent administration of the Board as **RED category** as per **Board's Resolution No. 3369 dt. 16.2.08**. Application for grant of consent to these activities are to be disposed of by concerned Regional Offices as per the **delegation of power vide letter No. 2186 dt. 31.1.08**. In order to facilitate timely disposal of application and make the procedure uniform, the following guidelines are issued.

1. DEFINITION:

- i) **Stack yard** : Stack yard means mineral stack yard over an area, which is used to receive, store either for a short period or long period and dispatch minerals from the site and require a trading license from competent authority.
- ii) **Railway siding** : A railway siding is a place/ area which is used to receive, temporarily store and load / unload material in the rakes and dispatch materials.

2. APPLICABILITY :

- i) The railway sidings and stack yard of minerals which are already established and operating **prior to the date of Board's Resolution i.e 16.2.08** are required to only obtain consent to operate from the Board.
- ii) Railway sidings and stack yards which are established **after the date of Board's Resolution i.e 16.2.08** or to be established thereafter are required to obtain consent to establish first and then consent to operate from the Board.
- iii) Mineral stack yard or railway siding located inside the premises of industry / mines which are already covered under consent administration will not require separate consent.
- iv) The consent granted under the provision of section 25 of Water (Prevention & Control of Pollution) Act. 1974 and section 21 of Air(Prevention & Control of Pollution) Act. 1981 shall be subject to

Trade License issued under Orissa Mineral (Prevention of Theft, Smuggling and Illegal Mining and Regulation of Possession, Storage, Trading and Transportation) Rules 2007.

3. APPLICATION FORM :

The applicant shall apply for consent to establish and consent to operate (as applicable) in the prescribed form of the Board. However, they have to submit additional information in the prescribed format as per **Annexure-I**. This format is to be provided to the applicant alongwith the consent application form.

4. SITING CONSIDERATIONS :

While considering application for consent to establish, site evaluation will be based on the following :

- i) The proposed site is to be located away from habitation and State/National Highway at a safe distance.
- ii) The proposed site is to be located atleast **1 km away from** Schools, Colleges, Hospitals, Archeological monuments, market place and other sensitive areas.
- iii) Nearest water body should be at a safe distance.
- iv) Location of the stack yard should be such that there is no public inconvenience for parking or movement of vehicles.
- v) The applicant for consent to establish should obtain a NOC from Sarpanch following a gram sabha if it is proposed in a rural area or obtain NOC from the concerned ULB in case of urban area.

5. ENVIRONMENTAL ASSESSMENT :

a) Check list of Environmental Issues :

The following issues shall be taken into consideration for environmental assessment.

- i) Siting of facility and proximity of nearby dwellings
- ii) Compatibility of land use in the vicinity of the site
- iii) Need for isolating the operational areas
- iv) Likelihood that the materials stored will create dust nuisance
- v) Dust management measures

- vi) Off-site management strategies
- vii) Storm water management system
- viii) Appropriate storage of materials in bunded areas
- ix) Impact of working out of normal office hours on nearby residents.

b) **Standard conditions :**

The following conditions may be imposed for pollution control while granting consent to establish / consent to operate. These conditions are only indicative and not exhaustive.

House Keeping :

1. All entry point, internal roads and loading/unloading areas must be made road worthy for movement of heavy vehicles by using low permeability material (e.g. concrete or bitumen) and be cleaned regularly to minimise potential for dust generation and off-site impact.
2. A boundary wall of atleast **3 meter** height shall be constructed along the periphery of the mineral stackyard to prevent the fine particles from being carried away with surface run off to nearby water bodies.
3. The height of material within storage areas must be kept below the height of the boundary wall at all times to prevent the material getting air borne.
4. All mineral storage areas containing fine or dusty materials must be either:
 - covered with tarpaulins when not in use, or
 - fitted with Automatic Water Sprinkling / Dry fog systems.
5. Green belt of atleast 15 m. width shall be developed immediately all around the perimeter of material storage and loading areas which are located in close proximity to villages and residential areas.
6. Planting of trees all along the connecting road and regular grading of such road shall be carried out to prevent generation of dust due to movement of dumpers/trucks.

7. Absolute care shall be taken to prevent creation of ruts and pot holes in the haul roads.
8. Proper house keeping at the material storage areas, loading & dispatch areas, service facilities, etc., shall be practiced.

Air Pollution Control :

9. Sprinkler systems must be maintained in an operable condition at all times.
10. Dust suppression arrangement shall be provided on approach road by using water sprinklers / mobile water tanker.
11. Wheel wash facilities are to be provided to minimize mud and dust track-out from unpaved approach roads to main paved and/or public roads.
12. At the material storage areas, atomized stationery mist spray of water or conditioning of material with water shall be practiced to prevent the dust getting air borne.
13. Appropriate transfer chutes shall be provided at material discharge points at material storage area, loading points etc., to minimize the discharge height and spread of air borne dust.
- 14. Appropriate preventive measures shall be taken for control of fire hazards at the stackyard / railway siding handling coal.**
15. The operator's cabin in the dumpers and trucks shall be provided with dust proof enclosure and the persons working at high dust prone areas shall be provided with dust mask.
16. Smoke emission from heavy duty vehicle operating in the stack yard / railway siding shall conform to the standards prescribed under the Motor Vehicle Rules, 1989.
17. Use of high pressure horns in the heavy duty vehicles operating in the mineral stack yard / railway siding shall be avoided.
18. Noise level should remain within the ambient noise standard.

19. Ambient Air Quality inside the premises shall conform to the National Ambient Air Quality Standard prescribed for industrial and mixed used area under EP Act, 1986.

Water Pollution Control :

20. Domestic effluent shall be discharged to soak pit through septic tank constructed as per BIS specification.
21. A garland drain is to be provided along the boundary wall inside the mineral stack yard. Provision shall be made for collection of wash water from the garland drain and water, so collected shall be treated in a sedimentation tank for further use inside the premises for green belt or water sprinkling etc. Under no circumstances, the wash water shall be allowed to go outside the premises.
22. In case the waste water contains any substance which is harmful to the environment, the same shall be treated to remove the substance so as to meet the prescribed norms.

Good Operating Practice :

23. Speed limit of dumpers/trucks used for loading / unloading of materials shall not exceed **10 kmph**. Overloading of vehicles shall be avoided.
24. Occupiers of the stack yard / Railway siding shall ensure that vehicles used have valid **“Pollution Under Control (PUC)” certificate**.
25. During transportation of material by trucks / tippers / wagons through public roads, the vehicles shall be properly covered with tarpaulin sheets and shall ply in safe speed. The trucks/tippers shall have sufficient free board. Spillage of material on public roads shall be cleared immediately on occurrence.
26. **All the materials (more than one) at the stackyard /railway siding shall be stored within a bunded compound or area without inter mixing each other.**

27. Provisions of the E(P) Act, 1986 and the relevant rules framed thereunder, shall be applicable where necessary.

The Regional Officers may stipulate additional conditions, if they feel so, after assessing ground reality and local conditions.

c) **Annual Return :**

Every operating mineral stack yards and Railway sidings shall submit an annual return to concerned Regional Office in the prescribed format as per **Annexure – II** by **31st May every year** incorporating the quantities of material handled during the preceding financial year (**i.e. 1st April to 31st March**).

ANNEXURE – I



STATE POLLUTION CONTROL BOARD, ORISSA

Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,
Bhubaneswar – 751 012, INDIA

ADDITIONAL INFORMATION

A. Mineral Stack Yard

B. Railway Siding

1. GENERAL INFORMATION :

1.1 Name of the applicant :

1.2 Mailing Address :

e-mail :

Telephone No. :

Fax :

1.3 Does the activity relate to :

1.3.1 New	Yes	<input type="checkbox"/>	No.	<input type="checkbox"/>
1.3.2 Expansion	Yes	<input type="checkbox"/>	No.	<input type="checkbox"/>
1.3.3 Existing	Yes	<input type="checkbox"/>	No.	<input type="checkbox"/>

2. SITE DETAILS :

2.1 Area of Mineral Stack Yard /Railway Siding in _____ Sq.m/Sq.ft/Acre.

✓ Encl : Patta and/or other relevant land document if any.

2.2 Site Address	Village	Tehsil	District

✓ Enclose a site map

2.3 Name of the person/ company :
(owner of the company)

2.4 Distance from the following features (1km.)

Features	Distance	Details
Human settlement / villages		
Schools / Colleges		
Market Places		
Temples & Hospitals		
Rivers / Streams / Ponds		
Others		

✓ Indicate these feature in the site map :

2.5 Distance of approach road from nearest Highway (NH/SH) / Railway
connectivity / port :

2.6 Category of approach road to be used for transportation :

3. ACTIVITY DETAILS :

3.1 Type of material that would be handled :

Sl. No.	Type of material	Qty. per year.	Maximum storage quantity at any point of time
1.			
2.			
3.			
4.			

3.2 Mode of transport :

Incoming mode : By truck
: By rake, By tractor
: Any other means.

Outgoing mode : By truck
: By rake, By tractor
: Any other means.

3.3 Manner of loading / unloading :

3.3.1 Manual Loading :

- ✓ Maximum daily receipt of material :
- ✓ Maximum daily dispatch of material :
- ✓ Nos of people to be engaged for loading/unloading :

3.3.2 Mechanized loading / unloading :

Type of machines	Nos.	Capacity
Loader, Dumper		
Stacker reclaimer		

4. ENVIRONMENTAL MANAGEMENT PLAN :

Sl. No.	Environmental issues *	Already practiced if applicable	Proposed
01.	Air pollution (fugitive dust emission)		
02.	Water Pollution (Run off Water Management)		
03.	Noise Pollution		
04.	Plantation		
05.	Others		

[* As applicable]

CHECK LIST FOR ADDITIONAL DOCUMENTS

1.	Site map indicating all features.
2.	Patta and other relevant land documents if any in support of proof of ownership.
3.	Permission from DDM
4.	Permission from Railway authority for railway siding.

Verification : **The data and information given in this proforma are true to the best of my knowledge and belief.**

Date :

**Signature of Applicant*
With full name & address**

Place :

[* *Owner or his authorized signatory*]

**Given under the seal of organization
onbehalf of whom the applicant is signing**

ANNEXURE – II

ANNUAL RETURN

Name of the unit :

Address :

Telephone No :

E-mail :

Consent order No. :

Consent valid upto :

Annual Return for the year ending 31st March :

Months	Type of material *	Opening stock (MT)	Receipt	Dispatch	Closing stock	Remark
April						
May						
June						
July						
August						
September						
October						
November						
December						
January						
February						
March						

* Attach separate sheet for additional material.

Certified that the above return is for the period from
.....

Date :

SIGNATURE*

Place :

DESIGNATION.....

[* Owner or his authorized signatory]