



STATE POLLUTION CONTROL BOARD, ORISSA

(Department of Forest & Environment, Govt. of Orissa)

Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII

Bhubaneswar – 751012

No. 11025 / IND-II-NOC (misc.) – 40

Dt. 06.07.11

RESOLUTION

The Board in its 100th meeting held on 23.3.10 decided to implement the modified set of guidelines for environmental management in mineral stackyards and railway sidings. Accordingly, a resolution was brought out in this regard vide letter No. 6559 dt. 19.4.2010.

1. In the above guidelines, it was stipulated that the railway sidings owned maintained and operated by Indian Railways Authorities shall implement all pollution control measures within a period of six months. They will not obtain consent from the Board, however, they will be required to ensure self-regulation for implementation of Water Act, Air Act and good house keeping practice as stipulated in above guidelines and furnish environmental management plan as well as annual return in the prescribed format to concerned Regional Office, State Pollution Control Board. The Hon'ble High Court of Orissa in W.P.(C) No. 21867/2010 have passed orders on 24.1.2011 that for establishment and operation of any railway-siding consent of the Board is mandatory even if it is owned and operated by the Railways Authorities.

In view of the above, the Board in its 102nd meeting held on 15.3.11 resolved that the guidelines prepared for environmental management in mineral stackyards and railway sidings will also be applicable for Railway authorities and they shall obtain consent from the State Pollution Control Board, Orissa to establish and operate railway sidings.

PTO

2. Clause-4(i) of the above guidelines stipulates that the boundary of the proposed site of mineral stack yards shall be at an aerial distance of atleast 100 m from the State / National Highways. But, the guidelines is silent about the distance criteria from the Express Highways and industrial transport corridors.

The Board in its 102nd meeting also decided that the express highways and industrial transport corridors will be considered at par with National / State Highway.

This resolution is in partial modification to earlier resolution No. 6559 dt. 19.4.2010 of the Board and will come into force with immediate effect.

By order of the Board.

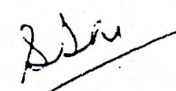

MEMBER SECRETARY

Encl : Modified guidelines as per decision taken in 102nd meeting of the Board held on 15.3.2011.

Memo No. 11026 /dt. 06.07.11

Copy alongwith guidelines forwarded to the Director (Env.) cum-Spl. Secretary to Govt., Forest & Env. Deptt., Govt. of Orissa, Bhubaneswar for information and necessary action.

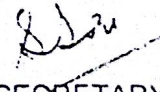
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MEMBER SECRETARY

Memo No. 11027 /dt. 06.07.11

Copy alongwith guidelines forwarded to the Director of Mines, Bhubaneswar for information and necessary action.

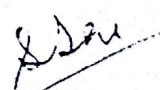
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MEMBER SECRETARY

Memo No. 11028 /dt. 06.07.11

Copy alongwith guidelines forwarded to the Chief Transportation Planning Manager, East Coast Railway Chandrasekharapur, Bhubaneswar for information and necessary action. He is requested to obtain consent from SPO Board, Orissa to establish and operate the railway sidings

Encl : As above


MEMBER SECRETARY

GUIDELINES FOR ENVIRONMENTAL MANAGEMENT IN MINERAL STACK YARDS AND RAILWAY SIDINGS

JULY, 2011



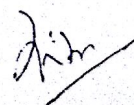
STATE POLLUTION CONTROL BOARD, ORISSA

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

GUIDELINES FOR ENVIRONMENTAL MANAGEMENT IN MINERAL STACK YARDS AND RAILWAY SIDINGS

Transportation, storage, loading and unloading of minerals at Stack-yards / Railway sidings have considerable air pollution potential. These activities have been brought under consent administration of the Board under RED category as per Board's Resolution No. 3369 dt. 16.2.08. Applications for grant of consent to these activities are to be disposed of by concerned Regional Offices as per the delegated power vide letter No. 2186 dt. 31.1.08. The Board issued guidelines to regulate stack-yards and railway siding in April 2008. The Board received certain submissions from various stakeholders indicating certain ambiguity and operational difficulties in implementing the guidelines. Thus to further streamline it and to make it implementable, a consultative meeting with all stakeholders was convened on 31.10.09 and their views were considered. Accordingly, a modified set of guidelines for environmental management in mineral stackyards and railway sidings were prepared and was approved by the Board in its meeting held on 23.3.10. A resolution was brought out in this regard vide No. 6559 dt. 19.4.10.

1. In the above guidelines, it was stipulated that the railway sidings owned, maintained and operated by Indian Railways shall implement all pollution control measures within period of six months. They however, will not be required to obtain consent from the Board but would ensure self-regulation for implementation of the guidelines and furnish environmental management plan as well as annual return in the prescribed format to the concerned Regional Office of the State Pollution Control Board. But the Hon'ble High Court of Orissa in W.P.(C) No. 21867/2010 passed an order on 24.1.2011, that for establishment and operation of any railway siding, consent of the Board is mandatory even if it is owned and operated by the Indian Railways. The Board in its 102nd meeting held on 15.3.11 decided that the guidelines prepared for "environmental management in mineral stackyards and Railway sidings" will also be applicable for Railway authorities and they shall obtain consent from State Pollution Control Board to establish and operate the railway sidings.



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Guidelines for environmental management in mineral stackyards and railway sidings

2. Clause-4(i) of the guidelines stipulates that the boundary of the proposed site of mineral stack yards shall be at an aerial distance of atleast 100 m from the State / National Highways. But the guidelines is silent about the distance criteria from the Express Highways and industrial transport corridors. The Board in its 102nd meeting also decided that the express highways and industrial transport corridors will be considered at par with National / State Highway.

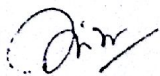
In order to facilitate timely disposal of applications and to make the procedure uniform, the following guidelines are issued as approved by the Board in its meeting held on 15.3.11 in partial modification to the guidelines issued vide Board's letter No. 6559 dt. 19.4.10.

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, load / unload and dispatch minerals from the site and requires a trading license under Orissa Mineral (Prevention of Theft, Smuggling and Illegal Mining and Regulation of Possession, Storage, Trading and Transportation) Rules 2007.
- 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. **This will applicable for railway sidings owned by the private as well as by the Indian Railways Authorities.**
- iii) **Cluster of stack-yards :** A cluster of stack-yards means a group of stack-yards having at least one common boundary, who enter into an agreement among them to remain collectively responsible to maintain the pollution control system while operating the stack-yards.

2. **APPLICABILITY :**

- i) The railway-sidings, stack-yards and clusters of stack-yards 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.


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- ii) Railway-sidings, stack-yards and clusters of 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) For cluster of stack-yards the proponent will apply separately depositing prescribed fee for each stack-yard and submit all the application in a single bunch along with original agreement and undertaking that, they will remain collectively liable for complying to the conditions stipulated by Board. Violation of any condition by any one member of the cluster of stack-yards shall be treated as a violation.
- iv) 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.
- v) The consent granted under 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.
- vi) The applicant can make application for consent to operate for a minimum period of one year; however the validity of consent shall be co-terminus with the financial year.

3. APPLICATION FORM :

The applicant shall apply for consent to establish and consent to operate (as applicable) in the prescribed form of the Board alongwith additional information in the format as per Annexure-I.

4. SITING CONSIDERATIONS (MINERAL STACK-YARD) :

Consent to Establish applications for mineral stack-yards shall be considered on the basis of the following site suitability criteria.


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- i) The boundary of proposed site shall be at an aerial distance of at least 100 meter from State/National / **Express Highway / industrial transport corridors.**
- ii) The boundary of the proposed site shall be at an aerial distance of at least **500 meter** from Schools, Colleges, Hospitals, Archeological monuments, and other sensitive areas.
- iii) It shall be ensured that run-off during rain from the proposed site, any water body, which is used by local people, remains at minimum possible level.
- 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 shall 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.
- vi) In case of new cluster the proposed site shall conform to the above stipulations for siting as a whole.

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 the activities with surrounding land use.
- iii) Need for isolating the operational areas or any additional precautionary measure to be undertaken.
- iv) Likelihood of the materials proposed to be handled to create dust nuisance.
- v) Proposed dust control measures.
- vi) Storm water management system and disposal practice.
- vii) Possibility of discharge to nearby water bodies.
- viii) Bunding of storage area and its appropriateness.
- ix) Impact on nearby residents, beyond normal working hours.


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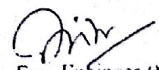
- b) : Consent to establish application for stackyard and railway sidings shall be evaluated by the Regional Office of State Pollution Control Board on the basis of environmental issues listed in 5(a) of this guideline and any other issue which in the opinion of the concerned officer is important from pollution control point of view.

c) **Standard conditions (RAILWAY SIDING AND MINERAL STACK YARDS) :**

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

House Keeping :

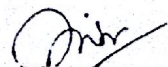
- i) All entry points, internal roads and loading/unloading areas must be adequately compacted for movement of heavy vehicles by using low permeability material and be cleaned regularly to minimize potential of dust generation and off-site impact.
- ii) A boundary wall of at least 3 meter height shall be constructed along the periphery of the mineral stack-yard to prevent the dust particles from being air borne and / or getting carried away with surface run off to nearby water bodies.
- iii) The height of material stack within storage areas must be kept below the height of the boundary wall at all times to prevent the material from being air borne.
- iv) All mineral storage areas containing fines or dusty materials must be either:
 - covered with tarpaulins when not in use, or
 - fitted with Water Sprinkling / Dry fog systems.
- v) Green belt of at least one row of trees shall be developed along the boundary of material storage yard, in case of stack-yards and railway siding which are located in close proximity to villages and residential areas, a green belt of adequate width between the habitation and the stack-yard is recommended.


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- vi) 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.
- vii) Adequate care shall be taken to prevent creation of ruts and pot holes in the connecting roads.
- viii) Proper house keeping at the material storage areas, loading & dispatch areas, service facilities, etc., shall be practiced.

Air Pollution Control :

- ix) Dust suppression arrangement shall be provided on approach road by using water sprinklers / mobile water tanker.
- x) Wheel wash facilities are to be provided to minimize transfer of mud from unpaved approach roads to main paved and/or public roads.
- xi) At the material storage areas, atomized stationery mist spray of water or conditioning of material with water shall be practiced to prevent dust getting air borne during loading/unloading.
- xii) Sprinkler systems must be maintained and be kept in a good operable condition at all times.
- xiii) Appropriate transfer chutes shall be provided at material discharge points at material storage areas, loading points etc., to minimize the discharge height and spread of air borne dust.
- xiv) Appropriate preventive measures shall be taken for control of fire hazards at the stack-yard / Railway-Siding handling coal.
- xv) 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.
- xvi) Ambient Air Quality inside the premises shall conform to the National Ambient Air Quality Standard prescribed for industrial and mixed used area under the Environment Protection Act, 1986.



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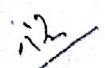
Water Pollution Control :

- xvii) Domestic effluent shall be discharged to soak pit through septic tank constructed as per BIS specifications.
- xviii) Garland drain shall be provided along the boundary wall at the appropriate places depending upon the slope of the area, inside the mineral stack-yard. Provision shall be made for collection of wash water from the garland drain and the water, so collected shall be treated in a sedimentation tank for further use inside the premises for green belt or water sprinkling etc. In case of a cluster, a common facility shall be developed, operated and maintained by the cluster operators.
- xix) In case the wastewater 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 :

- xx) Speed limit of dumpers/trucks inside the premises shall not exceed 10 kmph.
- xxi) Occupiers of the stack-yard / Railway siding shall ensure that vehicles used have valid "Pollution Under Control (PUC)" certificate.
- xxii) During transportation of material by trucks / tippers / wagons through public roads, the vehicles shall be properly covered with tarpaulin sheets.
- xxiii) Provisions of the E(P) Act, 1986 and the relevant rules framed thereunder, shall be applicable where necessary.

The concerned Regional Officer may stipulate site specific additional conditions, if he feels so, after assessing ground reality and local conditions.



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d) **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 and types of materials handled during the preceding financial year (i.e. 1st April to 31st March). Stack-yards in a cluster shall prepare individual returns and submit those in a single bunch.

6. **CLOSURE OF THE STACKYARDS :**

1. In case an operator does not desire to continue at an approved site, they have to make an application for closure of the site to the concerned Regional Officer.
2. The operator of the site shall remove all the materials stored in the stockyards before making the application for closure of the site.
3. The Regional Officer may declare the site closed after being satisfied that the site does not store any material which has a potential to contaminate the surrounding water body or land.


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