



E-mail: paribesh1@ospcboard.org
Website: www.ospcboard.org

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]
Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII
Bhubaneswar - 751012

No. 719 /

IND-II-CTE-6752

Date: 16.01.2024

Through online/
By speed post

CONSENT TO ESTABLISH ORDER

In consideration of the online application no **4234250** for obtaining Consent to Establish for **M/s Sardega Railway Siding of M/s Mahanadi Coalfields Ltd**, the State Pollution Control Board is pleased to convey its Consent to Establish under Section 25 of Water (Prevention & Control of Pollution) Act, 1974 and under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 for **expansion of Sardega Railway Siding for increase in Material Handling Capacity from 20 MTPA to 40 MTPA within lease hold area of Basundhara West OCP of MCL** (Plot No. and Khata no. as mentioned in the application form) **with a project cost of Rs. 526 Crores** in the district of **Sundargarh** of Odisha with the following conditions;

GENERAL CONDITIONS:

1. This Consent to Establish is valid for the raw materials, product, manufacturing process and capacity mentioned in the application form. This order is valid for **five** years. If the proponent fails to do substantial physical progress of the project within five years then a renewal of this consent to establish shall be sought by the proponent.
2. The industry shall comply to the provisions of Environment (Protection) Act, 1986 and the rules made thereunder with their amendments from time to time such as the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended from time to time, Hazardous Chemical Rules, / Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 etc. and amendments there under. The industry shall also comply to the provisions of Public Liability Insurance Act, 1991, if applicable.
3. The industry shall apply for grant of Consent to Operate under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 & under section 21 of Air (Prevention & Control of Pollution) Act, 1981 at least 3 (three) months before the commercial production and obtain Consent to Operate from this Board. No operational activity shall commence prior to installation of all pollution control measures.
4. **This Consent to Establish is granted subject to statutory and other clearances from Govt. of Odisha and/or Govt. of India, as and when applicable.**

SPECIAL CONDITIONS:

1. This Consent to Establish is granted for the capacity as mentioned above and any expansion in the capacity change or modification in the process addition, alternation any nature has to be undertaken with prior approval of the Board. For any change in the site or area, fresh Consent to Establish has to be obtained from the Board.
2. The project proponent shall carry out the operation of handling of railway rakes (inward cargo and outward cargo) at the siding as per Agreement for handling over of Jharsuguda-Barpali-Serdega railway line to SE Railway between SE Railway and **M/s Mahanadi Coalfields Ltd, Dtd. 23-12-2019.**
3. The project proponent shall comply with the "Guidelines for Mineral Stack yards and Railway sidings" issued by the Board during 2011 and "Inventorisation of Railway sidings and Guidelines for their management" issued by Central Pollution Control Board during 2015.
4. The proponent shall obtain separate Consent to Operate for Railway Siding and seek CTO for subsequent period along with the Mine having administrative Control over the siding.
5. The unit shall obtain NOC from CGWA for using of ground water for getting Consent to Operate of State Pollution Control Board, Odisha.
6. The project proponent shall obtain permission from Department of Water Resources, Govt. of Odisha for drawl of ground water and surface water.
7. Fixed sprinklers shall be installed along the transportation road, loading-unloading areas and other fugitive dust generation sources of the railway siding.
8. Dust suppression measures shall also be undertaken using fog cannons of at least 40mts throw.
9. All the internal roads shall be concreted, and automatic road sweeping arrangement shall be provided to control fugitive dust emission during operation of the railway siding.
10. The despatchable material shall be stacked at the ear marked area stacking yard with adequate pollution control measures within the premise which includes provision of garland drain, settling pit / catch pit to arrest surface run off and abate the water pollution during monsoon.
11. Use of high-pressure horns in the heavy-duty vehicles operating in the mineral stack yard / railway siding shall be avoided and the vehicle engaged in the loading activity shall be maintained properly.
12. All the vehicles operating in the Railway Siding area shall be ensured to have PUC certificate.
13. Dust suppression arrangement shall be provided on approach road, material storage area, loading points etc. by using mobile water tanker and mist gun sprayer and fog cannon arrangement.
14. 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.

15. A boundary wall of at least 3 meters height and wind barrier / vertical green barrier over it with total height of 7 to 10 meters shall be constructed along the periphery of the railway siding to prevent the dust particles from being air borne and / or getting carried away with surface run off to nearby water bodies.
16. 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.
17. All mineral storage areas containing fines or dusty materials must be either:
 - a) Covered with tarpaulins when not in use, or
 - b) Fitted with Water Sprinkling / Dry fog systems / mist gun sprayer system.
18. Green belt of adequate width (One or more rows) shall be developed immediately all around the perimeter of the siding premises. It may be explored to cover 33% of the siding area under green cover. The proponent shall ensure the maintenance of green belt throughout the year.
19. 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.
20. Adequate care shall be taken to prevent creation of ruts and potholes in the connecting roads.
21. Proper housekeeping at the material storage areas, loading & dispatch areas, service facilities, etc., shall be practiced.
22. Dust suppression arrangement shall be provided on approach road by using water sprinklers / mobile water tanker.
23. The industry shall provide mechanized wheel washing system along with effluent treatment and recycling facilities to minimize transfer of mud from unpaved approach roads to main paved and/or public roads.
24. At the material storage areas, atomized stationery mist spray of water or conditioning of material with water shall be practiced preventing dust getting air borne during loading/unloading.
25. Sprinkler systems must be maintained and be always kept in a good operable condition.
26. 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.
27. Necessary preventive measures shall be taken during construction phase so that the ambient air quality including noise shall conform to National ambient air quality standards and standards for noise in industrial area as per **Annexure-I & II**. Ambient air quality at the boundary of the plant premises shall meet the prescribed standards of the Board as per **Annexure- I**.
28. The domestic wastewater shall be treated in sewage treatment plant to meet the following standards as notified by the MoEF&CC, Govt. of India vide G.S.R. 1265 (E), dated 13.10.2017. The treated water shall be reused for plantation. Under no circumstances there shall be any discharge of treated domestic waste water to outside the premises.

Sl. No.	Parameters	Standards
1.	pH	6.5-9.0
2.	BOD (mg/l)	30
3.	TSS (mg/l)	<100
4.	Fecal Coliform (MPN/100ml)	< 1000

29. Garland drain shall be provided along the boundary wall at the appropriate places depending upon the slope of the area, inside the railway siding. 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.
30. In case the wastewater contains any substance, which is harmful to the environment, the same shall be treated to remove the substance to meet the prescribed norms.
31. Speed limit of dumpers/trucks inside the premises shall not exceed 10 kmph.
32. During transportation of material by trucks / tippers / wagons the vehicles shall be properly covered with tarpaulin sheets.
33. The unit shall abide by E(P) Act, 1986 and the relevant rules framed thereunder.
34. After operation of railway siding, the industry shall submit an annual return to concerned Regional Office in the prescribed format as per **Annexure- III** 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).
35. The Board may impose further conditions or modify the conditions stipulated in this order during installation and/or at the time of obtaining consent to operate and may revoke this clearance in case the stipulated conditions are not implemented.

Encl: Encl: Annexure-I, II & III.


MEMBER SECRETARY

To

The Project Officer,
M/s Sardega Railway Siding of M/s MCL,
AT/PO- Basundhara (West) OCP,
Tahasil/PS- Hemghir,
Dist- Sundargarh, Odisha

Memo No. 720 / Date: 16.01.2024

Copy forwarded to:

1. The Collector & District Magistrate, Sundargarh
2. The Director, Factories & Boiler, Bhubaneswar
3. The DFO, Sundargarh



4. The Regional Officer, SPC Board, Odisha, Jharsuguda
5. Consent to Operate Cell, SPC Board, Odisha, Bhubaneswar
6. HWM Cell, SPC Board, Odisha, Bhubaneswar
7. Copy to Guard file

21/11/2024

ADDL. CHIEF ENV. ENGINEER

o/c
99

NATIONAL AMBIENT AIR QUALITY STANDARDS
CENTRAL POLLUTION CONTROL BOARD
NOTIFICATION

New Delhi, the 18th November, 2009

No. B-29016/20/90/PCI-I—In exercise of the powers conferred by Sub-section (2) (h) of section 16 of the Air (Prevention and Control of Pollution) Act, 1981 (Act No.14 of 1981), and in supersession of the Notification No(s). S.O. 384(E), dated 11th April, 1994 and S.O. 935(E), dated 14th October, 1998, the Central Pollution Control Board hereby notify the National Ambient Air Quality Standards with immediate effect, namely:-

NATIONAL AMBIENT AIR QUALITY STANDARDS

S. No.	Pollutant	Time Weighted Average	Concentration in Ambient Air		
			Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement
(1)	(2)	(3)	(4)	(5)	(6)
1	Sulphur Dioxide (SO ₂), µg/m ³	Annual* 24 hours**	50 80	20 80	- Improved West and Gaeke -Ultraviolet fluorescence
2	Nitrogen Dioxide (NO ₂), µg/m ³	Annual* 24 hours**	40 80	30 80	- Modified Jacob & Hochheiser (Na-Arsenite) - Chemiluminescence
3	Particulate Matter (size less than 10µm) or PM ₁₀ µg/m ³	Annual* 24 hours**	60 100	60 100	- Gravimetric - TOEM - Beta attenuation
4	Particulate Matter (size less than 2.5µm) or PM _{2.5} µg/m ³	Annual* 24 hours**	40 60	40 60	- Gravimetric - TOEM - Beta attenuation
5	Ozone (O ₃) µg/m ³	8 hours** 1 hour**	100 180	100 180	- UV photometric - Chemiluminescence - Chemical Method
6	Lead (Pb) µg/m ³	Annual* 24 hours**	0.50 1.0	0.50 1.0	- AAS /ICP method after sampling on EPM 2000 or equivalent filter paper - ED-XRF using Teflon filter
7	Carbon Monoxide (CO) mg/m ³	8 hours** 1 hour**	02 04	02 04	- Non Dispersive Infra Red (NDIR) spectroscopy
8	Ammonia (NH ₃) µg/m ³	Annual* 24 hours**	100 400	100 400	-Chemiluminescence -Indophenol blue method

(1)	(2)	(3)	(4)	(5)	(6)
9	Benzene (C ₆ H ₆) µg/m ³	Annual*	05	05	- Gas chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis
10	Benzo(a)Pyrene (BaP) - particulate phase only, ng/m ³	Annual*	01	01	- Solvent extraction followed by HPLC/GC analysis
11	Arsenic (As), ng/m ³	Annual*	06	06	- AAS /ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni), ng/m ³	Annual*	20	20	- AAS /ICP method after sampling on EPM 2000 or equivalent filter paper

- * Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
- ** 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Note. — Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

SANT PRASAD GAUTAM, Chairman
[ADVT-III/4/184/09/Exty.]

Note: The notifications on National Ambient Air Quality Standards were published by the Central Pollution Control Board in the Gazette of India, Extraordinary vide notification No(s). S.O. 384(E), dated 11th April, 1994 and S.O. 935(E), dated 14th October, 1998.

ANNEXURE-II

SCHEDULE (see rule 3(1) and 4(1))

Ambient Air Quality Standards in respect of Noise

Area Code	Category of Area/Zone	Limits in dB(A) Leq *	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

Note

1. Day time shall mean from 06:00 A.M. to 10:00 P.M.
2. Night time shall mean from 10:00 P.M. to 06:00 A.M.
3. Silence zone is defined as an area comprising not less than 100 meters around hospitals, educational institutions and courts. The silence zones are zones which are declared as such by the competent authority.
4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A "decibel" is a unit in which noise is measured.

"A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

Leq : It is an energy mean of the noise level, over a specified period.

[F. No. Q-14012/1/96-CPA]
VIJAI SHARMA, R. Secy.

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 Occupier]