



**OFFICE OF THE REGIONAL OFFICER**  
**STATE POLLUTION CONTROL BOARD, ODISHA**  
 (DEPARTMENT OF FOREST & ENVIRONMENT, GOVT. OF ODISHA)  
 Plot No. S-3/3, Industrial Estate, Hakimpada, Angul-759143

“By Registered Post”

**CONSENT ORDER**

No. **802**/MINES/ROSPCB/AGL/20/2013-14

Date: **30.03.2020**

**CONSENT ORDER NO. 526/19-20/RO-SPCB/Angul (APC & WPC)**

**Sub: Consent for discharge of sewage and trade effluent under section 25/26 of Water (PCP) Act, 1974 and for existing/new operation of the plant under section 21 of Air (PCP) Act, 1981.**

Ref: Your Consent to Operate online Application No. **2818754**, dtd.01.01.2020 received in complete form on 10.01.2020.

Consent to operate is hereby granted under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed thereunder to:

Name of the Mine: **Mandapal Sand Mine of M/s. Mahanadi Coalfields Ltd.**

Name of the Occupier & Designation: **Sri D. Sahoo, Project Officer (T & H), Talcher Colliery**

Address: **Plot No.497 (P) & 498 (P), Khata No.646, Plot no.100/342 (P) & 100/344(P), Khata No.83(Kisam-Nadi) Total Area- 44.0 acres or 17.805ha, Mouza: Nizigarhjami and Gopinathpur, PS/Tehsil: Talcher, Dist: Angul**

This consent order is valid for the period from **01.04.2020 to 31.03.2023**.

This consent order is valid for the product quantity, specified outlets, discharge quantity and quality, specified chimney/stack, emission quantity and quality of emissions as specified below. This consent is granted subject to the general and special conditions stipulated therein.

**A. Details of products manufactured:**

Sl. No.	Product	Production Capacity (as per Approved Mining Plan & Environmental Clearance)
1.	Sand	2,50,000 Cubic Meter/Annum



**B. Discharge permitted through the following outlet subject to the standard**

Outlet No.	Description of outlet	Point of discharge	Quantity of discharge KLD or KL/hr.	Prescribed standard			
				pH	TSS (mg/l)	BOD (mg/l)	Oil & Grease (mg/l)
1.	Domestic waste water	To soak pit via septic tank	---	---			

**C. Emission permitted through the following stack subject to the prescribed standard.**

Chimney Stack No.	Description of stack	Stack height (m)	Quantity of emission	Prescribed standard

**D. Disposal of solid waste permitted in the following manner**

Sl. No.	Type of Solid waste	Quantity generated (TPD)	Quantity to be reused on site (TPD)	Quantity to be reused off site (TPD)	Quantity disposed off (TPD)	Description of disposal site.

**E. GENERAL CONDITIONS FOR ALL UNITS**

- The consent is given by the Board in consideration of the particulars given in the application. Any change of alternation or deviation made in actual practice from the particulars furnished in the application will also be the ground liable for review/variation/revocation of the consent order under section 27 f the Act of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 and to make such variations deemed fit for the purpose of the Acts.
- The industry would immediately submit revised application or consent to operate to the Board in the event of any change in the quantity and quality of raw material/and products/manufacturing process or quantity / quality of the effluent rate of emission/air pollution control equipment/system etc.
- The applicant shall not change or alter either the quality or quantity of the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.
- The application shall comply with and carry out the directives/orders issued by the Board in this consent order and at all subsequent times without any negligence on his part. In case of non-compliance of any order/directives issued at any time and/or violation of the terms and conditions of this consent order, the applicant shall be liable for legal action as per the provisions of the Law/Act.
- The applicant shall make an application for grant of fresh consent at least 90 days before the date of expiry of this consent order.
- The issuance of this consent does not convey any property right in either real or personal property or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State laws or regulation.
- This consent does not authorize or approve the construction of any physical structure or facilities or the undertaking of any work in any natural water course.
- The applicant shall display this consent granted to him in a prominent place for perusal of the public and inspecting officers of this Board.
- An inspection book shall be opened and made available to Board's Officers during the visit to the factory.
- The applicant shall furnish to the visiting officer of the Board any information regarding the construction, installation or operation of the plant or of effluent treatment system/air pollution control system/stack monitoring system any other particulars as may be pertinent to preventing and controlling pollution of Water/Air.
- Meters must be affixed at the entrance of the water supply connection so that such meters are easily accessible for inspection and maintenance and for other purposes of the Act provided that the place where it is affixed shall in no case be at a point before which water has been taped by the consumer for utilization for any purposes whatsoever.
- Separate meters with necessary pipe-line for assessing the quantity of water used for each of the purposes mentioned below:
  - Industrial cooling, spraying in mine pits or boiler feed.
  - Domestic purpose
  - Process
- The applicant shall display suitable caution board at the lace where the effluent is entering into any water-body or any other place to be indicated by the Board, indicating therein that the area into which the effluents are being discharged is not fit for the domestic use/ bathing.
- Storm water shall not be allowed to mix with the trade and/or domestic effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.



15. The applicant shall maintain good house-keeping both within the factory and the premises. All pipes, valves, sewers and drains shall be leak-proof. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
  16. The applicant shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems install or used by him to achieve with the term(s) and conditions of the consent.
  17. Care should be taken to keep the anaerobic lagoons, if any, biologically active and not utilized as mere stagnation ponds. The anaerobic lagoons should be fed with the required nutrients for effective digestion. Lagoons should be constructed with sides and bottom made impervious.
  18. The utilization of treated effluent on factory's own land, if any, should be completed and there should be no possibility of the effluent gaining access into any drainage channel or other water courses either directly or by overflow.
  19. The effluent disposal on land, if any, should be done without creating any nuisance to the surroundings or inundation of the lands at any time.
  20. If at any time the disposal of treated effluent on land becomes incomplete or unsatisfactory or create any problem or becomes a matter of dispute, the industry must adopt alternate satisfactory treatment and disposal measures.
  21. The sludge from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank.
  22. The effluent treatment units and disposal measures shall become operative at the time of commencement of production.
  23. The applicant shall provide port holes for sampling the emissions and access platform for carrying out stack sampling and provide electrical outlet points and other arrangements for chimneys/stacks and other sources of emissions so as to collect samples of emission by the Board or the applicant at any time in accordance with the provision of the Act or Rules made therein.
  24. The applicant shall provide all facilities and render required assistance to the Board staff for collection of samples/stack monitoring/inspection.
  25. The applicant shall not change or alter either the quality or quantity or rate of emission or install, replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in any change in quality and/or quantity of emissions, without the previous written permission of the Board.
  26. No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected except with the previous approval of the Board.
  27. The satisfaction the liquid effluent arising out of the operation of the air pollution control equipment shall treated in the manner and to ion of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 (as amended).
  28. The stack monitoring system employed by the applicant shall be opened for inspection to this Board at any time.
  29. There shall not be any fugitive or episodal discharge from the premises.
  30. In case of such episodal discharge/emissions the industry shall take immediate action to bring down the emission within the limits prescribed by the Board in conditions/stop the operation of the plant. Report of such accidental discharge/emission shall be brought to the notice of the Board within 24 hours of occurrence.
  31. The applicant shall keep the premises of the industrial plant and air pollution control equipments clean and make all hoods, pipes, valves, stacks/chimneys leak proof. The air pollution control equipments, location, inspection chambers, sampling port holes shall be made easily accessible at all times.
  32. Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent discharge/emission of air pollutants and/or result in violation of the standards mentioned above shall be reported to the Headquarters and Regional Office of the Board by fax/speed post within 24 hours of its occurrence.
  33. The industry has to ensure that minimum three varieties of trees are planted at the density of not less than 1000 trees per acre. The trees may be planted along boundaries of the industries of industrial premises. This plantation is stipulated over and above the bulk plantation of trees in that area.
  34. The solid waste such as sweeping, wastage packages, empty containers residues, sludge including that from air pollution control equipments collected within the premises of the industrial plants shall be disposed off scientifically to the satisfaction of the Board, so as no to cause fugitive emission, dust problems through leaching etc, of any kind.
  35. All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board by:
    - i. Land fill in case of inert material, care being taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off.
    - ii. Controlled incineration, wherever possible in case of combustible organic material.
    - iii. Composting, in case of bio-degradable material.
  36. Any toxic material shall be detoxicated if possible, otherwise be sealed in steel drums and buried in protected areas after obtaining approval of this Board in writing. The detoxication or sealing and burying shall be carried out in the presence of Board's authorized persons only. Latter of authorization shall be obtained for handling and disposal of hazardous waste.
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37. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard, vary all or any of such condition and thereupon the applicant shall be bound to comply with the conditions so varied.
38. The applicant, his/heirs/legal representatives or assignees shall have no claim whatsoever to the condition or renewal of this consent after the expiry period of this consent.
39. The Board reserves the right to review, impose additional conditions or condition, revoke change or alter the terms and conditions of this consent.
40. Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves to it the right and power under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Act by the Board.
41. The conditions imposed as above shall continue to be in force until revoked under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981.
42. In case the consent fee is revised upward during this period, the industry shall pay the differential fees to the Board (for the remaining years) to keep the consent order in force. If they fail to pay the amount within the period stipulated by the Board the consent order will be revoked without prior notice.
43. The Board reserves the right to revoke/refuse consent to operate at any time during period for which consent is granted in case any violation is observed and to modify/stipulate additional conditions as deemed appropriate.

**F. SPECIAL CONDITIONS:**

01. **This Consent to Operate is granted subject to submission of valid mining lease document for the year 2020-21 to 2022-23 within three months from the date of issue of this order. If mining lease is not submitted within one month due to any reason, this consent to operate order shall stand cancelled automatically. No mining activities shall be carried out till submission of mining lease document.**
02. The project proponent shall take statutory clearance / approval / permission from the concerned authorities in respect of this project as and when required, before carrying out any operation.
03. The mining activities shall be carried out as per the approved mining plan and any change in mining activities/technique/scope shall not be made without approval of concerned authorities.
04. Any change in the calendar plan including excavation, quantum of mineral and waste shall not be made without prior approval of the concerned authorities.
05. Replenishment report certified by an authorized agency shall be submitted annually. In case the replenishment is lower than the approved rate of production, then the mining activity / production levels shall be decreased / stopped accordingly till the replenishment is completed.
06. The mining of sand shall be done on mechanized mode as per approved mining plan and it shall be ensured that mining activities should not disturb the flow pattern of the Brahmani river.
07. No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations.
08. Sand quarrying shall not be carried out near the banks of streams within a strip of 1/5 of the width of the stream bed.
09. To maintain safety and stability of Riverbanks i.e. 3 meter or 10% of the width of the River whichever is more will be left intact as no mining zone.
10. Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2 m above the ground to observe its stability.
11. The sand mining shall not be carried out within 200m. of any existing structure such as bridges, dams, weirs, intake structure (s) either for irrigation or for drinking purposes, or any other cross drainage structure.



12. Sand mining operations shall not affect the existing sources for irrigation or drinking water or industrial purpose.
  13. Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier. Mining shall be done in layers of 1 meter depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.
  14. Permission from the Competent Authority shall be obtained for drawl of ground water, if any, required for the project.
  15. The natural sand dunes, if any shall not be disturbed.
  16. No mining shall be carried out in the vicinity of natural / manmade archeological sites.
  17. Overloading of the trucks shall be avoided under all circumstances. While transporting in truck it should be properly covered with tarpaulin and adequate care shall be taken so that spillage while transportation shall not occur.
  18. Approach road of the mine on the river bed shall be different from the used path ways of the villagers and mining activities shall not cause any sort of problem to the villagers for their use of the river stream.
  19. Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.
  20. The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre.
  21. Washing of all transport vehicle should be done inside the mining lease.
  22. The nearby river bank of the mine area shall be stone pitched with plantations on the top of the bank for necessary protection of the river side.
  23. The mine shall maintain Ambient air quality as per the Board's prescribed standards.
  24. Conservation measures shall be taken for protection of flora and fauna.
  25. Avenue plantation shall be done along approach and village roads and in any other vacant area so as to provide protection against particulates and noise to ameliorate the environment. The trees planted every year and survived till March end shall be submitted to the Board and also to the DFO concerned.
  26. The area from which the sand has been extracted be leveled and free of any foreign debris or materials.
  27. The surface of stockpile and sand processing areas outside the river bed to be scarified to a depth of 50 cm, graded evenly and the top soil previously stored, returned to its original depth over the area.
  28. A river bed rehabilitation plan should be submitted.
  29. The proponent shall take necessary measures to ensure no adverse impacts due to mining operations on the Human Habitation existing nearby
  30. Personnel working in the project shall be provided with requisite safety devices such as masks, gloves etc.
  31. Domestic effluent shall be discharged to soak pit via septic tank constructed as per BIS Specification.
  32. Noise arising out of mining and processing shall be abated and controlled at source to keep within permissible limit. Restricted working hours. Sand mining operation has to be carried out between 6 am to 7 pm.
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33. Mine shall abide by the provisions of Environment (Protection) Act, 1986 and rules framed there under.
34. The environmental statement report for the financial year ending 31<sup>st</sup> March shall be submitted to the Board in **form-V** on or before 30<sup>th</sup> September every year.
35. The annual production and point wise compliances to the consent conditions shall be submitted to the Board latest by **30<sup>th</sup> April** every year.
36. In case the consent fee is revised upwards during this period of consent, the unit shall pay the differential amount to the Board to keep the consent order in force. If the industry fails to pay the amount within the period stipulated by the Board the consent order will be revoked without giving prior notice.
37. The Board reserves the right to revoke/refuse consent at any time during this period incase any violation is observed and to modify / stipulate additional conditions as deemed appropriate.
38. If any information furnished by the applicant is found to be incorrect or suppressed and detected on later stage, the consent to operate shall be revoked including initiation of appropriate legal action as deemed fit as per the provisions of Air (Prevention and Control of Pollution) Act, 1981 as amended thereof and rules framed thereunder.
39. In case the proprietor/partner sells/transfers the unit to any other person, he shall intimate the same in advance and submit the audited balance sheet showing capital cost of investment including land & building, plant & machinery without depreciated cost.

The occupier must comply with the conditions stipulated in section A,B,C,D,E& F to keep this consent order valid.

To,

Sri D. Sahoo, Project Officer (T & H), Talcher Colliery  
**Mandapal Sand Mine of M/s. Mahanadi Coalfields Ltd.,**  
At/PO - Deulbera Colliery, Talcher  
Dist. - Angul - 759102

  
30-03-2020  
REGIONAL OFFICER

Memo No. **803 (7)**, Dt. **30.03.2020**

Copy forwarded to:

- i) **The Member Secretary**, S.P.C. Board, Odisha, Bhubaneswar
- ii) **The Addl. Chief Secretary, Steel & Mines Deptt.**, Bhubaneswar
- iii) **The Collector and Dist. Magistrate**, Angul
- iv) **The Deputy Director of Mines, Talcher**, Angul
- v) **The Tahasildar**, Talcher, Angul
- vi) **The D.F.O.**, Angul
- vii) **Guard file**, Regional Office, SPC Board, Angul, Odisha,

  
30-03-2020  
REGIONAL OFFICER