

BY REGD. POST WITH AD

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]

A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012

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CONSENT ORDER

No. 3957 /

IND-I-CON-6863

Dt 20.03.2024 /

CONSENT ORDER NO. 3038.

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 online application No. 5317104, Dated 03-01-2024.

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 Industry: SIARMAL OCP OF M/S. MCL

Name of the Occupier & Designation: SRI DINESH CHANDRA KUNDU, PROJECT OFFICER

Address: MAHALAXMI AREA, MCL, BASUNDHARANAGAR, TIKLIPARA, HEMGIRI,
DIST: SUNDERGARH, PIN-770076.

This consent order is valid for the period from 01.04.2024 to 31.03.2025.

Details of Products Manufactured:

| SI. No. | Product | Quantity |
|---------|---------|----------|
| 1. | Coal | 12 MTPA |

This consent order is valid for the 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. Discharge permitted through the following outlet subject to the stan-

| Out | outlet | Point of discharge | Quantity | Prescribed Standa | | | | |
|-----|--|--|--------------------|-------------------|---------------|---------------------------|---------------|-------|
| No. | | | discharge KL/hr | pH | TSS (mg/l) | Oil & Grease (mg/l) | BOD (mg/l) | |
| 01 | Septic tank (Domestic effluent) | Soak pit | •• | 5.5 to 9.0 | 200 | ** | 100 | |
| - | Mine Drainage water/ surface runoff/ other wastewater | On land/ inland surface water body | - | 5.5 to 9.0 | 100 | 10 | ->, | ž 250 |

B. Emission permitted through the following stack subject to the prescribed standard

| Chimney Stack No. | Description of Stack | Stack height (m) | Quantity of emission | | | |
|----------------------|----------------------|------------------------|----------------------|----------------|-----------------|-----|
| | | | | PM (mg/Nm³) | SO ₂ | NO. |
| | | | | | | |

C. Disposal of solid waste permitted in the following manner

| SI. No. | The of ooling | 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. |
|------------|-------------------------|-----------------------------------|--|---|--------------------------------------|-----------------------------------|
| 1. | Topsoil/ over burden | As per approved mining plan | - | | - | As per approved mining plan |

D. GENERAL CONDITIONS FOR ALL UNITS

- The consent is given by the Board in consideration of the particulars given in the application. Any change or alternation or deviation made in actual practice from the particulars furnished in the application will also be the ground for liable to review/variation/revocation of the consent order under section 27 of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 and to make such variations as deemed fit for the purpose of the Acts.
- The occupier would immediately submit revised application for consent to operate to this Board in the event of
 any change in the quantity and quality of raw material / 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 or the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.
- 4. The application shall comply with and carry out the directives/orders issued by the Board in this consent order without any negligence on his/her 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.
- 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.
- 10. 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.
- 11. The applicant shall display suitable caution board at the place 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.
- 13. 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.
- 14. 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.
- 15. 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 impervious.
- 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.
- 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.
- 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 occupier must adopt alternate satisfactory treatment and disposal measures.
- The sludge from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank.
- The effluent treatment units and disposal measures shall become operative at the time of commencement of production.
- 21. 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 Acts or Rules made therein.

- The applicant shall provide all facilities and render required assistance to the Board staff for collection of 22. samples / stack monitoring / inspection. 23.
- The applicant shall not change or alter either the quality or quantity or rate of emission or install, replace or after 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 24
- No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected
- The liquid effluent arising out of the operation of the air pollution control equipment shall be treated in the 25 manner so as to meet the standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 (as amended) 26
- The stack monitoring system employed by the applicant shall be opened for inspection to this Board at any
- There shall not be any fugitive or episodal discharge from the premises 27. 28
- In case of such episodal discharge/emissions the occupier shall take immediate action to bring down the emission within the limits prescribed by the Board and stop the operation of the plant if required. Report of such accidental discharge /emission shall be brought to the notice of the Board within 24 hours of occurrence.
- The applicant shall keep the premises 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.
- Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent 30. discharge/emission of air pollutants and / or result in violation of the standards mentioned shall be reported to the Headquarters and Regional Office of the Board by E-mail within 2 hours of its occurrence. 31
- The occupier 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 premises. This plantation is stipulated over and above the bulk plantation of trees in that area. 32
- 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 shall be disposed off scientifically to the
- All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the 33.
 - 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.
 - Controlled incineration, wherever possible in case of combustible organic material. iii)
 - Composting, in case of bio-degradable material
- Any toxic material shall be detoxicated if possible, otherwise be sealed in steel drums and buried in protected 34 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. Letter of authorization shall be obtained for handling
- 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
- 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. 37
- The Board reserves the right to review, impose additional conditions or condition, revoke change or alter the terms and conditions of this consent 38.
- 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 conditions imposed as above shall continue to be in force until revoked under section 27(2) of the Water 39 (Prevention & Control of Pollution) Act, 1974 and section 21 A of Air (Prevention & Control of Pollution) Act, 40
- The occupier shall comply to the conditions stipulated in CTE order issued by Odisha State Pollution Control Board and conditions stipulated in Environmental Clearances issued by MoEF&CC. Govt. of India 41.
- The occupier shall abide by E(P) Act, 1986 and Rules framed there-under

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GENERAL CONDITIONS FOR UNITS WITH INVESTMENT OF MORE THAN Rs 50 CRORES, AND 17 CATEGORIES OF HIGHLY POLLUTING INDUSTRIES (RED A).

- 1 The applicant shall analyse the emissions every month for the parameters indicated in TABLE. If & C as mentioned in this order and shall furnish the report thereof to the Board by the 10° of the succeeding month.
- The applicant shall provide and maintain at his own cost three ambient air quality monitoring stations for monitoring Suspended Particulate Matter, Sulphur Dioxide, Oxides of Nitrogen, Hydro-Carbon, Carbon-Monitoria and monitor the same once in a day/week/forthight/month. The data collected shall be maintained in a register and a monthly extract be furnished to the Board.
- 3 The applicant shall provide and maintain at his own cost a meteorological station to collect the data on wind velocity, direction, temperature, frumidity, rainfall, etc. and the daily reading shall be recorded and the extract sont to the Board once in a month.
- 4 The applicant shall forward the following information to the Member Secretary, State Poliuson Control Board, Odisha, Bhubaneswar regularly
 - a) Report of analysis of stack monitoring, amount air quality monitoring meteorological data as required every month.
 - b) Progress on planting of trees quarterly
- The applicant shall install mechanical composite sampling equipment and continuous flow measuring / recording devices on the effluent drains of trade as well as domestic effluent. A record of daily discharge shall be maintained.
- The following information shall be forwarded to the Member Secretary on or before 10" of every month.
 - a) Performance / progress of the treatment plant.
 - b) Monthly statement of daily discharge of domestic and/or trace effuent.
- Non-compliance with effluent limitations.

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- a) If for any reason the applicant does not comply with or is unable to comply with any effluent limitations specified in this consent, the applicant shall immediately notify the consent issuing authority by telephone and provide the consent issuing authority with the following information in writing within 5 days of such notification.
 - 6 Causes of non-compliance
 - ii) A description of the non-compliance discharge including its impact on the receiving waters
 - Anticipated time of continuance of non-compliance if expected to continue or if such condition has been corrected the duration or period of non-compliance.
 - iv) Steps taken by the applicant to reduce and eliminate the non-complying discharge and
 - v) Steps to be taken by the applicant too prevent the condition of non-compliance
- b) The applicant shall take all reasonable steps to minimize any adverse impact to natural waters resulting from non-compliance with any effluent limitation specified in this consent including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.
- c) Nothing in this consent shall be construed to relieve the applicant from civil or criminal penalties for non-compliance whether or not such non-compliance is due to factors beyond his control, such as break-down, electric failure, accident or natural disaster.
- 8. The applicant shall at his own cost get the effluent samples collected both before and after treatment and get them analysed at an approval laboratory every month for the parameters indicated in Part-D and shall submit in duplicate the report thereof to the Board.
- The addition of various treatment chemicals should be done only with mechanical dozers and proper equipment for regulation of correct dosages determined daily and for proper uniform feeding. Crude practices such as dumping of chemicals in drains or sumps or tricking of acids or alkalies arbitrarily and utilizing poles for strring sto, should not be resorted to.
- 10. In the disposal of treated effluent on land for irrigation, the industry shall keep in view of the need for
 - a) Rotation of crops
 - b) Change of point of application of effluent on land
 - c) A portion of land kept fallow
- The adoption of these would avoid soil becoming sick or slate, the industry may ensure this in consultation with the Agriculture Department.
- 12. It is the sole responsibility of the industry to ensure that there are no complaints at any time from the royats in the surrounding areas as a result of discharge of sewage or trade efficient if any.
- Proper housekeeping shall be maintained by a dedicated team.
- 14. The industry must constitute a team of responsible and technically qualified personnel who will ensure continuous operation of all pollution control devices round the clock (including right hours) and should be in a position to explain the status of operation of the pollution control measures to the inspecting officers of the Board at any point of time. The name of these persons with their contact telephone numbers shall be intimated to the concerned. Regional Officer and Head Office of the Board and in case of any change in the team it shall be intimated to the Board immediately.

E. SPECIAL CONDITIONS:

- Mining operation is subject to availability of all other statutory clearances required under relevant Acts/Rules.
- Excavation of coal shall be done using surface miners. The surface miner shall be operated along with dust control measures.
- 3) Drills shall either be operated with dust extractors or equipped with water injection system to minimize dust generation in the work environment. Controlled blasting shall also be done and blasting shall be carried out during day time.
- 4) Loading, unloading and coal stack yard shall have adequate dust suppression measures. The pollution control systems shall be properly maintained and operated.
- 5) All approach roads to mine and all other roads which are in regular use coal transportation roads shall be black topped/concreted. Necessary dust suppression measures shall also be taken in these roads to prevent generation of dust during movement of vehicles. Plantation of thick leaf trees on both sides of the road shall be done.
- Mobile water sprinkling shall be provided for dust suppression on the temporary quarry haul roads and sprinkling of water shall be done at desired intervals so as to prevent generation of fugitive dust.

 7) All internal coal top.
- 7) All internal coal transportation roads, temporary mine haul roads and other material transportation roads of the mine shall be maintained properly to avoid creation of ruts and potholes.
- B) Transportation shall be done by fully covered vehicles and any transportation through nearby villages shall be avoided as proposed by the project proponent. The proponent shall provide adequate air pollution control measures throughout the entire coal transportation road from the operating mine to the nearby siding.
- 9) No village road shall be used for transportation of coal and no road transport route shall be adopted, which is passing through any sensitive location such as schools, hospitals etc.
- 10) The mine shall deploy higher capacity trucks / dumper to reduce fleet size till Rapid loading system and conveyor belt system is commenced as per

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- Environmental Clearance. Dedicated truck parking area including all necessary facilities shall be developed.
- 11) The in-pit conveyor system with silo loading facility shall be installed till commissioning of railway siding as per stipulation contained under Environmental Clearance and no road transportation shall be allowed beyond this time limit as stipulated in EC order dated 05.05.2022.
- 12) Instant water shower system at the exit point of the quarry shall be provided and all heavy vehicles loaded with coal shall move through the instant shower system. Mechanized wheel washing facility for coal transport vehicles at the exit point of the quarry or at the coal stack yard as per the requirement shall be provided. The wheel washing facility shall be integrated with complete recirculation system.
- Appropriate action shall be taken to enhance rake loading facility for coal transportation through rail.
- 14) All necessary precaution shall be taken to prevent fire in coal stack yards and coal seams. Necessary precautionary measures, inter alia, maintaining a minimum stock shall be taken to avoid fire hazards in the coal stack yard.
- 15) The mine shall develop wind barrier wall of 10 meters height all round the coal stack yard to control fugitive coal dust emission.
- 16) At least 10 nos. of fog canons shall be deployed at the coal stockyard, haul road and OB dumping areas within one year for control of fugitive dust emission.
- 17) Ambient air quality measured at a distance of 500m from the dust generating sources (Loading or un-loading, haul road, coal transportation road, coal handling plant (CHP), Railway siding, Blasting, Drilling, overburden dumps or any other dust generating source like nearby roads etc.) in the down wind direction shall meet the following standards.

| Pollutant | | Concentration in (μg /m³) (24 hourly) | Concentration (μg/m³) in Annual A | |
|-----------------|---|--|-----------------------------------|-----|
| SPM | 9 | 500 | | 360 |
| RPM | - | 250 | | 180 |
| SO ₂ | | 120 | 19 | 80 |
| NO, | 8 | 120 | 59 | 80 |

- 18) In case any residential or commercial or industrial place falls within 500 metres of any generating sources, the National Ambient Air Quality Standards for industrial area notified shall be applicable.
- 19) Adequate Ambient Air Quality Monitoring Stations (at least 04 nos.) shall be established in core as well as in buffer zone and locations shall be decided in consultation with the Regional Officer, State Pollution Control Board, Monitoring of parameters shall as SPM, PM₁₀, PM₂₅, SO₂ and NO₄ shall be done.
- 20) Monitoring of Ambient Air Quality of the mine shall be done once in a fortnight (24 hourly) and data shall be submitted to the State Pollution Control Board once in a year.
- 21) Action shall be taken for installation of continuous real time ambient air quality monitoring stations at appropriate locations preferably village side keeping in view of the criteria specified for coal mines in Environment (P) Rules, 1986/Standards specified in the consent order. Number and location of continuous online monitoring stations with data transfer facility to SPCB server shall be decided in consultation with the Regional Officer, SPCB.
- 22) The topsoil and overburden shall be removed separately and stored it in separate heaps, duly covered with grass and vegetation and shall be utilized for backfilling of mined out area in future.
- 23) Action shall be taken for removal of residual coal going along with overburden so that spontaneous fire in the dump site can be eliminated. Water sprinkling arrangements shall also be provided at the coal seam faces and active dump sites to control fire.
- 24) The ground water except mine drainage water shall not be used for mining purpose. The management of mine drainage water, i.e. 2600 KLD shall be efficiently done as per the directive of the Central Ground Water Board, New Delhi.
- 25) No diversion shall be allowed for Chattanjhor and Telendra stream. Adequate protection measure on either side of stream bank shall be taken with tree plantation. It should be ensured that no mine drainage except rainwater shall join the stream. The streams shall not be disturbed and steps shall be taken to protect it. The water quality of these streams shall be regularly checked.

- 26) The detailed protective measures to be taken to protect the originality of Basundhara River, Chattanjhor Nallah and other water bodies surrounding the mine shall strictly followed as per the Basundhara River Management Plant submitted by the proponent with due approval of the State Water Resources Department. The opinion of the State Water Resource Department shall be strictly followed and the status of the adopted protective measures shall be submitted to the Board on annual basis.
- 27) Adequate safety measures like retaining wall, garland drain and settling ponds to prevent wash out during rain from the excavation area, OB dumping areas, topsoil dump, coal stockyard and other areas to these nallahs.
- 28) Adequate control measures shall be taken for prevention of contamination of nearby waterbodies due to discharge of wastewater to outside.
- 29) The surface runoff generated from the mining area during monsoon shall be diverted to adequate size of sedimentation pond for storage and use. Systems shall be in place for collection and channelizing the surface runoff to the sedimentation pond.
- 30) Strata water generated during mining operation shall be diverted to adequate size of sedimentation pond for storage and use.
- 31) Water from sedimentation pond shall be used for sprinkling purposes on haulage roads, other dust generating areas, vehicle washing and plantation activities. In case of discharge of strata water and runoff to outside, it shall conform to the prescribed standard (Part-A, Sl. No. 2).
- 32) Quantification of surface runoff and other wastewater generated in the mine shall be done. Report on runoff management practice as well as wastewater management practices along with time bound action plan for its implementation shall be furnished to the Board commencement of mining operation. The report of runoff and other wastewater management practices shall be submitted along with a map indicating the flow direction of runoff and management systems.
- 33) Oil and grease trap with sedimentation pit shall be provided for treatment of workshop effluent and treated effluent shall remain within the following prescribed standards and shall be re-used for washing of vehicles:

CONSENT ORDER

PH - 6.5 -8 5
TSS - 50 mg/l
Oil & Grease - 10 mg/l
COD - 150 mg/l

34) Domestic effluents shall be treated in a sewage treatment plant (STP) and or shall be discharged to soak pit via septic tank constructed as BIS specification. The treated wastewater quality of STP shall remain within the following standards and shall be used for plantation:

PH - 6.5 -9.0 TSS - <100 mg/l BOD - 30 mg/l Fecal Coliform - <1000 MPN/100 ml.

35) Acid mine drainage water if any, shall be treated adequately and used only for sprinkling activity.

36) Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells. The monitoring should be done four times a year in pre-monsoon (April/May), monsoon (August), post-monsoon (November) and winter (January) seasons. Data thus collected should be submitted to the Board quarterly.

 Adequate measures shall be taken for control of noise levels below the following limits.

(6.00 AM - 10.00 PM) - Leq 75 dB(A) (10.00 PM - 6.00 AM) - Leq 70 dB(A)

- 38) The following actions shall be taken for better environmental management in consultation with Regional Officer, SPCB, Jharsuguda
 - Atleast 30 nos. of rain gun type water sprinklers shall be provided at coal stackyard for dust suppression and firefighting.
 - ii) Wind barrier shall be provided at the coal stackyard and railway siding.

 The permanent coal tree coal stackyard and railway siding.
 - iii) The permanent coal transport road from coal stackyard to Serdega siding shall be concreted and provided with fixed sprinklers.
 - More water tankers or fog canons shall be provided for dust suppression at coal face, OB face and internal haul roads

- v) The wheel washing facility shall equipped with wastewater treatment an recirculation system. The length of washing ramp shall be adequately extended.
- vi) Retaining wall, check dams and settling ponds shall be provided for collection of runoff water.
- vii) The surface runoff study shall be completed and its recommendations shall be implemented.

An action plan in this regard shall be submitted by 15 04 2024 at the Regional Office as well at Head Office of SPCB, Odisha.

- 39) Ambient air quality monitoring data, noise monitoring data and wastewater quality monitoring data shall be electronically displayed at the entry point of the mine or at a suitable location of the mine for public view.
- 40) The mine shall take action to supply of drinking water in the peripheral villages.
- 41) The height of the stack connected to DG sets of capacity more than 800 KVA shall conform to the following:
 - 14Q^{0.3}, Q = Total SO₂ emission from the plant in kg/hr.
 - Minimum 6m. above the building where generator set is installed.
 - iii) 30 m.
- 42) The height of the stack connected to DG set of capacity less than and upto 800 KVA shall conform to the following:
 - i) H = h+0 2 KVA
 - ii) h= Height of the building where it is installed in meter
 - iii) KVA = Capacity of DG set
 - iv) H = Height of the stack in meter above ground level.
- 43) All DG sets installed before 1.7.2004 shall be scrapped. DG sets complying with either State-I or Stage-II emission norms shall reduce Particulate Matter Emission by 70% by installing RECD without affecting any other emission parameters as per the CPCB guidelines and Board's letter vide No 17927, dated 14.11.2023, in this regard.
- 44) Plantation of trees shall be undertaken in the colony/ township, over topsoil dumps, OB dumps, along the side of haul road and in other areas of the mines not

being utilized for mining activities. The mine shall take up avenue plantation and plantation in nearby village areas in consultation with DFO/Horticulture Department. The plantation details shall be submitted to the Board before end of April every year.

- 45) The annual coal production status shall be submitted to the Board latest by 30th April every year.
- 46) The environmental statement report for the financial year ending 31st March shall be submitted to the Board in Form-V on or before 30" September every year.

MEMBER SECRETARY STATE POLLUTION CONTROL BOARD, ODISHA

TO.

SRI DINESH CHANDRA KUNDU, PROJECT OFFICER, SIARMAL OPENCAST PROJECT OF M/S. MCL, MAHALAXMI AREA, MCL, BASUNDHARANAGAR, TIKLIPARA, HEMGIRI, DIST: SUNDERGARH, PIN-770076.

| | -10076 |
|--------|--|
| Memo I | No. |
| Copy | forwarded to : /Dt/ |
| 1) | Regional Officer State Police |
| 11) | District Collector Sundargarh |
| iii) | Director of Mines Good at Odd |
| iv) | Director, Environment cum Sanata Bhubaneswar |
| | Director, Environment-cum-Special Secretary, F & E Dept Govt of Odisha, Bhubaneswar, |
| V) | o.r.o. Sundarnarh |
| VI) | Deputy Director of Minor Parks |
| Vii) | Const Life Scientist Contact to |
| Viii) | Chief Env. Scientist, Central Lab. SPCB, Bhubaneswar Addl. Chief Env. Engineer (Hazardan) |
| ix) | Addl. Chief Env. Engineer (Hazardous Waste Management Cell) |

CHIEF ENV. ENGINEER (M) STATE POLLUTION CONTROL BOARD, ODISHA

GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS

GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART -A: EFFLUENTS

| 37 | SI. No. | Parameters | MENTAL POLLU | | Standards | | |
|-----|---------|--|---|------------|---------------------|--|--|
| | | | inland surfac | e Public | Land fo | | |
| 1- | | | (a) | (b) | | | |
| - | 1. | Colour&odour | Colourless/ Odourless as fa as practible | | See 6 of Annex-1 | See 6 of Annex-1 | |
| | 3 | Suspended Solids (mg | /1) 100 | 600 | 200 | a For process wastewater – 100 b For cooling water effluent 10% above total suspended matter | |
| _ | | Particular size of SS | Snall pass 850 | - | | of influent | |
| _ | | H value | 5 5 to 9 0 | 5.5 to 9.0 | 5 5 to 9 0 | 5 5 to 9 0 | |
| | | emperature | Shall not exceed 5°C above the receiving water temperature | 94 | ** | Shall not exceed 5°C above the receiving water temperature | |
| 7. | _ | il & Grease mg/l max. | 10 | 20 | 10 | 20 | |
| 8 | - | otal residual chlorine | 1.0 | - | | 20 | |
| 9 | 175,795 | nmonical nitrogen (as mg/i max | 50 | 50 | | 1.0 | |
| 10. | (as | tal Kajeldahl nitrogen NH ₃) mg/1 max | 100 | + | | 100 | |
| 11. | Fre | e ammonia (as NH ₃) 1 max | 5.0 | - | | 5.0 | |
| 12. | Den | chemical Oxygen nand (5 days at C) mg/1 max | 30 | 350 | 100 | 100 | |
| 13 | Che | ical Oxygen 250 nd, mg/1 max | | * | | 250 | |
| 4. | | | 0.2 | 02 | 0.2 | | |
| 5. | Merci | ury (as Hg) mg/1 | 0.01 | 0.01 | 9.6 | 0.2 | |
| 5. | - | (as pb) mg/1 max | 01 | | | 0 001 | |
| | | 24 (10)(12) | UT. | 10 | | 20 | |

CONSENT ORDER BARRAL OCF OF MIS. MCL

| SI. No. | Parameters | Standards | | | | | |
|---------|--|---|--|---|--|--|--|
| | | Inland surface | Public sewers | Land for irrigation | Marine Costal Areas | | |
| | | (a) | (b) | (c) | (d) | | |
| 17 | Cardmium (as Cd) mg/1 max | 20 | 10 | - | 20 | | |
| 18 | Hexavalent Chromium (as Cr + 6) mg/l max | 0 1 | 2.0 | 100 | 10 | | |
| 19 | Total Chromium (as Cr) mg/l max | 2.0 | 2.0 | | 20 | | |
| 20 | Copper (as Cu) mg/l max | 3.0 | 3.0 | | 3.0 | | |
| 21. | Zinc (as Zn) mg/l max. | 50 | 15 | 123 | 15 | | |
| 22. | Selenium (as Sc) mg/l max. | 0.05 | 0.05 | | 0.05 | | |
| 23 | Nickel (as Nil) mg/l max | 3.0 | 3.0 | - | 50 | | |
| 24 | Cyanide (as CN) mg/l max | 0:2 | 2.0 | 0.2 | 0.02 | | |
| 25 | Fluoride (as F) mg/l max | 2.0 | 15 | | 15 | | |
| 25 | Dissolved Phosphates (as P) mg/l max | 5.0 | - | | | | |
| 27. | Sulphide (as S) mg/l max | 2.0 | - | | 50 | | |
| 28 | Phennolic compounds as (C ₆ H ₅ OH) mg/l max | 1.0 | 50 | | 50 | | |
| 29 | Radioactive materials a. Alpha emitter micro curle/ml. b. Beta emitter micro curle/ml. | 10' 10' | 10° | 10" 10' | 10 ⁴ | | |
| 30. | Bio-assay test | 90% survival of fish after 96 hours in 100% effluent | 90% survival of fish after 96 hours in 100% effluent | 90% survival of fish after 96 hours in 100% officient | 90% survival of fish after 96 hours in 100% effluent | | |
| 31 | Manganese (as Mn) | 2 mg/l | 2 mg/l | | 2 mg/t | | |
| 32 | Iron (Fe) | 3 mg/l | 3 mg/i | | 3 mg/l | | |
| 33 | Vanadium (as V) | 0.2 mg/l | 0.2 mg/i | | 0.2 mg/l | | |
| 34. | Nitrate Nitrogen | 10 mg/i | 746 | | 20 mg/l | | |