

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai-400 022.

RED/LSI

Consent No. BO/JD(APC)/EIC No. CH-1657-14/R/CC -1097 Date 30/04/2014.

Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary) Rules 2008. [To be referred as Water Act, Air Act and HW (M, H & T) Rules respectively].

CONSENT is hereby granted to

**M/s Aryan Energy (P) Ltd.,
S.No.463/1,2,3,Goury Washery,
Village-Gouri, Tal Rajura, Dist-Chandrapur.**

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(MH&TM) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. The Consent to Operate is granted for a period up to: - 31.01.2015.

2. The Consent is valid for the manufacture of -

<u>Sr.No.</u>	<u>Product</u>	<u>Maximum Quantity</u>
1.	Clean Coal	2400 MT/day.
2.	Rejected Coal	570 MT/day
3.	Fine coal with sub-soil	30 MT/day

3. CONDITIONS UNDER WATER (Prevention and Control of Pollution) ACT, 1974:

(i) The quantity of trade effluent from the factory shall not exceed 24.0 m³/day.

(ii) The quantity of sewage effluent from the factory shall not exceed 2.4 m³/day.

(iii) **Trade Effluent:**

A] The coal washeries shall maintain the close circuit operation with zero effluent discharge.

B] If in case due to some genuine problems like periodic cleaning of the system, heavy rainfall etc. it become necessary to discharge the effluent of sewer/ land/ stream then the effluent shall conform to the following standards at the final outlet of the coal washery, for that the applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards :

1)	pH	Between	5.5 to 9
2)	Suspended Solids	Not to exceed	100 mg/l.
3)	BOD 3days 27 Deg. C.	Not to exceed	30 mg/l.
4)	Oil & Grease	Not to exceed	10 mg/l.
5)	Total Dissolved Solids	Not to exceed	2100 mg/l.
6)	Chlorides	Not to exceed	600 mg/l.
7)	Sulphate	Not to exceed	1000 mg/l.
8)	Phenolics	Not to exceed	1.0 mg/l

(iv) **Trade Effluent Disposal:** The treated effluent shall be recycled in the process completely to achieve zero discharge of effluent. There should not be any discharge out side the factory premises.

(v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

(1)	Suspended Solids	Not to exceed	200	mg/l.
(2)	BOD 3 days 27° C.	Not to exceed	100	mg/l.

(vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be recycle/reused in the process to the maximum extent and remaining shall be used on land for gardening / irrigation purpose only.

(vii) **Non-Hazardous Solid Wastes :**

<u>Type of waste</u>	<u>Quantity</u>	<u>Treatment</u>	<u>Disposal</u>
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(viii) **Other conditions:**

1. The coal washery shall maintain the close circuit operation with zero effluent discharge.
2. Industry shall monitor effluent quality regularly.

4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and Amended Rules, 2003 there under:

The daily water consumption for the following categories is as under:

(i)	Domestic	...	3.0	CMD
(ii)	Industrial Processing	...	24.0	CMD
(iii)	Spraying / Boiler	CMD
(iii)	Agriculture/Gardening /Fire fighting	...	2.0	CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act which is also available on MPCB website at <http://mpcb.mah.nic.in/images/cessform1.pdf>

5. **CONDITIONS UNDER AIR (Prevention and Control of Pollution) ACT, 1981:**

l) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

A] Control Equipment:

- i) Coal handling plant shall be provided with Dust Collector, complete dust extraction arrangement and Automatic Water Sprinkler with fog nozzles shall be provided where necessary for dust- suppression. Dust generation points / machinery shall be covered by hoods.
- ii) Bag filters of sufficient capacity shall be provided to coal crusher, pulverizes & all sources of dust emission and operate it properly.
- iii) Spraying of water through mist sprays and water curtains on all working area, dump area, stock piles.
- iv) Coal shall be properly covered during transportation.
- v) The applicant shall carry out tree plantation along road side.
- vi) All internal roads shall be paved and well maintained to prevent dust emissions.
- vii) Overloading of dumpers shall be avoided to prevent spillages.
- viii) Water or Water mixed chemical shall be sprayed at all strategic coal transfer points such as conveyors, loading unloading points etc. As far as practically possible conveyors, transfer points etc. shall be provided with enclosures.
- ix) The crushers/ pulverisers of the coal washeries shall be provided with enclosures, fitted with suitable air pollution control measures and finally emitted through a stack of minimum height of 30 m., conforming particulate emission standard of 150 mg/Nm³ or provided with adequate water sprinkling arrangement.
- x) Water sprinkling by using fine atomizer nozzles arrangement shall be provided on the coal heaps and on land around the crushers/ pulverisers.
- xi) Area, in and around the coal washery shall be pucca either asphalted or concreted.
- xii) Green belt shall be developed along the road side, coal handling plants residential complex, office building an all around the boundary line of the coal washery.
- xiii) Storage bunkers, hoppers, rubber decks, in chutes and centrifugal chutes shall be provided with proper rubber linings.
- xiv) Vehicles movement in the coal washery area shall be regulated effectively to avoid traffic congestion. High pressure horn shall be prohibited. Smoke emission form heavy duty vehicle

operating in the coal washeries should confirm the standards prescribed under Motor Vehicle Rules 1989.

- xv) The coal transportation shall be done by conveyor system wherever possible or mechanically covered vehicles shall be provided for transportation of coal.

B] Conditions for D. G. Set:-

- i) Noise from the D. G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- ii) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB(A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB(A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 metres from acoustic enclosure/room and then average.
- iii) The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p. m and night time is reckoned between 10 p. m to 6 a.m.
- iv) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
- v) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- vi) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
- vii) D. G. Set shall be operated only in case of power failure.
- viii) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

C] Fugitive emission standards:

The difference in the value of suspended particulate matter, delta (D), and measured between 25 and 30 meter from the enclosure of coal crushing plant in the downward and leeward wind direction shall not exceed 150 microgram per cubic meter.

D] Standards for Stack Emissions:-

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|----------------------|---------------|------------------------|
| (i) TPM | Not to exceed | 150 mg/Nm ³ |
| (ii) SO ₂ | Not to exceed | 3.8 Kg/Day. |

E] Standards for Ambient Air Pollutants:

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|---|---------------|-------------------------|
| (i) Suspended Particulate Matter [SPM] | Not to exceed | 150 ug/m ³ |
| (ii) Respirable Particulate Matter [RSPM]
[Size less than 10 micrometer] | Not to exceed | 100 ug/m ³ |
| (iii) Sulphur Dioxide (SO ₂) | Not to exceed | 120 ug/m ³ |
| (iv) Oxides of Nitrogen (NOx) | Not to exceed | 120 ug/m ³ . |

F] Noise level standard:

- Operation/ Working zone-not to exceed 85 dB(A) Leq for 8 hours exposure.
- The ambient air quality standards in respect of noise as notified under Environmental (Protection) Rules, 1986 shall be followed at the boundary line of the coal washery.

II) The applicant shall observe the following fuel pattern:-

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1.	Diesel	7.0 Ltrs /hrs.

III) The applicant shall erect the chimney(s) of the following specifications:-

<u>Sr.No.</u>	<u>Chimney attached to</u>	<u>Height in Mtrs.</u>
1.	De dusting Unit	30.0
2.	D. G. Set (380 KVA)	05.0*

(* = above height of building where D. G. Set is installed)

- IV) The applicant shall take adequate measures for control of noise levels from its own sources as follows:

Sr. No.	Location	Permissible Norms [in dB(A)]	Desired minimum thickness of Green Belt
1	Along road	65 (Commercial Area)	20
2	Near CHPs	75	30

- V) **Other Conditions: --**
- (i) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- (ii) Coal Washeries shall follow the conditions of the Ministry of Environment & Forests, Government of India's Notification No.Q.15017/13/95-CPW, dated 27th January, 1999 strictly.
6. **CONDITIONS UNDER HW (M, H & T) RULES, 2008:**
The industry shall not generate any hazardous waste.
7. The applicant shall comply with the conditions of Environmental Clearance granted by MoEF, GOI.
8. **General conditions:**
- (i) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, no. of trees surviving as on 31st March of the year and no. of trees planted by September end.
- (ii) The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the applicant and operate the same in case of power failure to maintain compliance with the terms and conditions of the consent. In the absence of same, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- (iii) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent. The applicant shall not change or alter quantity, quality, the rate of discharge, temperature or the mode of the effluent/ emissions or hazardous wastes or control equipments provided for without previous written permission of the Board.
- (iv) The firm shall submit MPCB, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 before 30th September every year.
- (v) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained. The applicant shall also submit a comparative statement of designed power and chemical consumptions vis-a vis actual power and chemical consumption along with Environmental statement.
- (vi) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- (vii) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.

- (viii) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
9. The Industry shall maintain a daily record of raw material received, finished product sent and material stored in premises, which shall be made available to MPCB officials.
10. The material transportation shall not cause any nuisance.
11. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
12. The applicant shall implement mechanical close type transportation system for coal transporting trucks.
13. The applicant shall commission the CAAQMS and micro meteorological station on or before 30.06.2014.
14. The applicant shall extend the existing bank guarantee of Rs.5.0/- Lakhs for the period up to 31.07.2015 towards installation of CAAQMS & micro meteorological station and the same shall submit to RO MPCB Chandrapur within 15 days.
15. The applicant shall submit the irrevocable Bank Guarantee of Rs. 5.0/- Lakhs drawn in favour of RO, MPCB, Chandrapur, within 15 days, valid for one year period, towards O & M of pollution control system so as to achieve the consented standards.
16. The Capital Investment of the industry is Rs 11.54/- Crores.

For and On Behalf of the
Maharashtra Pollution Control Board,


(V.M.Motghare)
Joint Director (Air Pollution Control)

To,
M/s Aryan Energy (P) Ltd.,
S.No.463/1,2,3,Goury Washery,
Tal Rajura, Dist-Chandrapur.

Copy to:

- 1) Regional Officer, MPCB, Chandrapur 2) Sub-Regional Officer, MPCB, Chandrapur.
They are directed to obtain bank guarantee as per consent condition no. 14 & 15 & submit the performance report along with the monitoring results.
- 3) Chief Accounts Officer, MPCB, Mumbai

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	50000	974789	19.03.2014	Punjab National Bank

- 4) Cess Branch, MPC Board, Mumbai. 5) Master file.