

No. J-11015/949/2007-IA.II (M)
Government of India
Ministry of Environment, Forests & Climate Change
IA-II (Coal Mining) Division

Indira Paryavaran Bhawan,
Jorbagh Road,
New Delhi-110003

Dated: 19th February, 2015

To,
The General Manager
M/s ACB (India) Limited
(Formerly known as Aryan Coal Beneficiation Pvt. Ltd.)
7th Floor, Corporate Tower,
Ambience Mall, N.H.-8
Gurgaon -122002

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Sub.: Expansion of Paunderpauni Coal Washery (from 1.6 MTPA to 2.6 MTPA in a project area of 6.86 Ha; Latitude 19°45'13.8" to 19°45'26.3" N and Longitude 79°16'40.04" to 79°16'54.5" E) of M/s ACB (India) Limited in Paunderpauni, Tehsil Rajura, Dist. Chandrapur, Maharashtra – Environmental Clearance - reg.

Sir,

This is with reference to letter no. Nil dated 23.07.2007 along with the application for Terms of Reference (TOR) and this Ministry's letter dated 23.03.2011 granting TOR. Reference is also invited to the letter no ACBIL/PPW/EC/09-2012/1 dated 05.11.2012 and subsequent letter nos. dated 12.07.2014; 10.09.2014; 16.12.2014 and 19.12.2014 for Environmental Clearance on the above-mentioned subject.

2. The Ministry of Environment, Forests & Climate Change has considered the application. It is noted that the proposal is for grant of Environmental Clearance for **Expansion of Paunderpauni Coal Washery (from 1.6 MTPA to 2.6 MTPA in a project area of 6.86 Ha; Latitude 19°45'13.8" to 19°45'26.3" N and Longitude 79°16'40.04" to 79°16'54.5" E) of M/s ACB (India) Limited in Paunderpauni, Tehsil Rajura, Dist. Chandrapur, Maharashtra**. The proposal was considered in the 27th EAC meeting held on 18th - 19th December, 2014. The proponent has informed that:

- i. Paunderpauni Washery is a pre-2006 washery which was not covered within the ambit of EIA Notification dated 14th Sep, 2006. It was established after obtaining Consent to Establish (CTE) from Maharashtra State Pollution Control Board. The NOC from MPCB was sought by before the grant of TOR.
- ii. The project was accorded TOR vide letter no. J-11015/949/2007-IA.II(M) dated 23.03.2011.
- iii. **Chronology of TOR:** Application for TOR 10.09.2007; Presentation for TOR 28/29.11.2007; Re-consideration of TOR 21/22.07.2009; NTCA clearance 10.11.2010; Re-consideration of TOR 21/22.02.2011; Issue of TOR 23.03.2011; Public hearing 07.12.2011; Submission of final EIA report to MOEF 06.11.2012.
- iv. The latitude and longitude - 19°45'26" of the "project N" and - 79°16'54.5" E respectively.
- v. Joint Venture: No Joint venture.
- vi. Coal Linkage: No coal linkage.
- vii. Total land requirement is 6.86 Ha.
- viii. Capacity enhancement within the beneficiation unit:

Sl. No.	Units	Present*	Proposed**
1	Beneficiated Coal (BC) in TPM	108000	174000
2	Reject Coal (RC)/ High Ash Coal in TPM	25850	41900
3	Coal Dust/Fines (CD/F) in TPM	1450	2675
4	Total, TPM	135300	218575
5	Total, MTPA	1623600	2622900
6	Total, TPD	5412	7285.8
7	Days of Operation (DOP)	300	360
8	Average Working Hours (AWH) (excluding maintenance)	13.33	17.77
	Total, TPH	405.9	409.8

- ix. It is envisaged to enhancement the operation of the washery from 13 h/day to 18 h/day so as to enhance the washing capacity.*
- x. The project shall be for zero discharge.
- xi. The expansion is in terms of working hours only.
- xii. It is a two product washery.
- xiii. The KPCL and Mahagenco had earlier refused to give the coal. There were no orders for washing of coal and therefore the washing capacity could not be increased.
- xiv. The Road is maintained by WCL.
- xv. Technology used: Heavy Media Density Separation (Bath) & Natural Media (Barrel Washer) Separation.
- xvi. The total estimated water requirement is 300 m3/day.
- xvii. **Wastewater treatment:** The media water after being used for washery operations is screened through a five stage clarification process and all the suspended particulate matter is squeezed and the clear water is recycled back.
- xviii. **Solid waste generation:** Coal rejects (20% approx.) will be used in a power plant which is proposed in Pandarpauni, Dist. Chandrapur, adjacent to the washery (for which EC & CTE have been obtained) and will be used as a fuel or returned to the customer depending upon the agreement.
- xix. There is no **R & R** involved. There are no PAFs.
- xx. **Cost:** Total cost after expansion will be Rs. 28.70 crores.
- xxi. **Transportation:** Raw coal coming from various mines of Ballarpur area are being transported by 10 T Tippers covered by tarpaulins at the time of TOR, through captive coal roads built under CCDA Grant. Thereafter, the transportation was shifted to 30 T trucks (of 20 T payload capacity). After beneficiation of the raw coal, washed coal is loaded directly into the wagons placed on the railway siding located inside the washery premises. The reject is transported through road/ rail to various major and small scale industries, Thermal Power Plant and is used as fuel & in brick kilns located near the washery. For current capacity: 30-T trucks (for 5400 TPD) - 540 trips/ day. For expansion capacity: 30-T trucks (for 7200 TPD) - 720 trips/day. There will be increase of about 180 trips/day
- xxii. **Approvals:** NOC compliance was certified by MPCB vide letter no. BO/RO(P&P)/ TB/B-4022 dated 19.06.2009.
- xxiii. **Wildlife issues:** There are no national Parks, wildlife sanctuary, biosphere reserves found in the 10 km buffer zone.
- xxiv. **Forestry issues:** No forest area is involved.
- xxv. Total **afforestation** plan shall be implemented covering 33% of the total area.
- xxvi. There are no **court cases/violation** pending with the project proponent.

xxvii. **Public Hearing** was held on 07.12.2011 at Village Pandarpauni, Tal. Rajura, Dist. Chandrapur. The issues raised in the PH includes depletion of ground water; dust pollution; crop damage; damage compensation; silk production; widening of road; parking of trucks ; local employment etc., The proponent has made commitments and made action plans to implement the issues raised during the Public Hearing:

- a. The PP should commission a study for determining impact of washery activity on surrounding crops and make periodic programs to enhance crop production by inviting experts to interact with farmers.
- b. Compensation to farmers shall be provided, if the study reveals that the productivity loss is due to the washery.
- c. Mechanical road cleaner be used.
- d. Water sprinkling be made to prevent fugitive dust.
- e. PP shall make provisions for education, medical facilities and digging of tube wells for the local people.
- f. Roads in the nearby villages shall be maintained.
- g. Additional measures as may be directed by CPCB/ MSPCB, as and when required will be implemented.

xxviii. The NTCA vide Office Memorandum dated 10th November 2010 stated that the location of the washery is at distance of 40 kms from the Tadoba-Andheri Tiger Reserve and it does not fall in the corridor area as well. Due to this clarifications, which was sought for, the issuance of TOR was delayed and was finally issued on the 23rd March, 2011.

xxix. Supply of washed coal having ash less than or equal to 34% to the consumers in accordance with the MoEF stipulations shall be adhered to.

xxx. The transportation for raw coal to the washery is done by road by 20/30 tonnes trucks from various mines in the Ballarpur area of WCL. The washed coal is dispatched either by road or rail depending on the quantity with end users having their own rail siding.

xxxi. Written to WCL for obtaining written permission for using their roads for transportation of raw-coal. For Ballarpur Area, their road is the only route for evacuation of coal produced in the mines like Gauri I & II OCPs, Sasti OCP, Pauni OCP etc. WCL has allowed the use of said road for all consumers of e-auction coal and/or authorized transporters of consumers having coal allocation from these mines.

xxxii. The rejects are at present either being returned to the customers of washed coal or sold to end users. As a part of the orders/agreements, MOU has been entered into with Mahavir Coal Resources (Pvt.) Ltd. (dated 02-04-2009); Bagdi Enterprise (dated 25-12-2009); Aadinath Global (dated 24-12-2009).

3. The proposal was considered in the Expert Appraisal Committee (EAC) (Thermal & Coal Mining) and recommended in 27th EAC meeting held on 18th - 19th December, 2014 for granting Environmental Clearance. The Ministry of Environment, Forests and Climate Change hereby accords environmental clearance for the above-mentioned **Expansion of Paunderpauni Coal Washery (1.6 MTPA to 2.6 MTPA in a project area of 6.86 Ha; Latitude 19°45'13.8" to 19°45'26.3" N and Longitude 79°16'40.04" to 79°16'54.5" E) of M/s ACB (India) Limited in Paunderpauni, Tehsil Rajura, Dist. Chandrapur, Maharashtra** under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the terms and conditions mentioned below:

A. Specific Conditions:

i. The rejects to be either returned to the customers of washed coal or sold to end users viz. M/s Mahavir

Coal Resources (Pvt.) Ltd; M/s Bagdi Enterprise; M/s Aadinath Global.

- ii. The rejects shall be used in the FBC boiler installed for use of rejects.
- iii. To supply washed coal having ash less than or equal to 34% to the consumers in accordance with the MoEF stipulations to be adhered to.
- iv. Details on the equipments and technology to be adopted with justification for the enhancement of capacity of the Washery be submitted to the MoEFCC.
- v. The transportation for raw coal to the washery shall be by road by mechanically covered trucks by deploying 30 Tons trucks from various mines in the Ballarpur area of WCL. Similarly, the washed coal shall also be dispatched either by road by mechanically covered trucks or rail depending on the quantity; with end users having their own rail siding.
- vi. Rain water harvesting measures shall be undertaken for ground water recharge.
- vii. Automatic sprinklers should be used till the washery is in operation. The PP should commission a study for determining impact of Washery activity, if any, on surrounding crops and make periodic programs to enhance crop production by inviting experts to interact with farmers.
- viii. Suitable compensation to farmers shall be provided, if the study reveals that the productivity loss was due to the setting up of washery.
- ix. Mechanical road cleaners be deployed as far as possible.
- x. PP shall make budgetary provisions for education, medical facilities and digging of tube wells for the local people towards CSR activities
- xi. Roads in the nearby villages shall also suitably be maintained.
- xii. Additional measures as may be directed by CPCB/MSPCB, as and when required, will also be implemented.
- xiii. All the conditions stipulated by the State Pollution Control Board in the Consent to operate shall be adhered to.
- xiv. Coal transportation shall be by mechanically covered trucks for loading and unloading.
- xv. Green belt in and around the coal washery should be further intensified.
- xvi. Automatic sprinkler system at the railway siding should be installed.
- xvii. No extension for the work of railway siding will be sought by the proponent.
- xviii. Waste Water shall be effectively treated and recycled completely either for washery or maintenance of green belt around the plant.
- xix. In the proposed expansion, technology used for the washing of coal is wet process. Closed circuit water system shall be adopted in the proposed expansion project.
- xx. The assurances given during the Public Hearing and as per the Action Plan developed by the proponent should be implemented
- xxi. Three-tier green belt should be developed along the washery boundary and along transfer and loading points and, in the proposed railway siding to mitigate/check dust pollution and the entire coal dispatch from the group of mines should be dove-tailed with the Coal evacuation system. A 3-tier avenue plantation should also be developed along vacant areas, near washery, storage yards, loading points and transfer points and along internal roads and main approach roads and on the 2-km road upto the railway siding and at the siding.
- xxii. The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site(s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored minerals do not catch fire.
- xxiii. Hoppers of the coal crushing unit and washery unit shall be fitted with high efficiency bag filters and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads.
- xxiv. All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned with 8 mechanical sweepers.
- xxv. Covered Trucks shall be engaged for mineral transportation outside the washery upto the railway siding covering a distance which shall be optimally loaded, with no spillage enroute. The trucks shall be

- properly maintained and emissions shall be below notified limits. Facilities for parking of trucks- carrying raw coal from the linked coalmines shall be created within the Unit.
- xxvi. Records of quantum and ash content of raw coal being washed, and clean coal and coal rejects produced from every batch of washing shall be maintained and details thereof uploaded on the company website.
- xxvii. The time limit should be provided to the Contractual vendors /contractors for providing mechanically covered trucks for coal transportation.
- xxviii. No additional groundwater shall be used for the Plant Operations. Any additional water requirement envisaged shall be obtained by recycle/reuse to the maximum extent and from rainwater harvesting measures.
- xxix. Socio-economic and welfare measures for the local communities for the adjoining villages shall be implemented under CSR. Activities under CSR activities to be undertaken for the adjoining villages shall be identified in consultation with the local authorities, the details of status of implementation of CSR and expenditure thereon which should be annually updated on the company website.
- xxx. Heavy metal content in raw coal, and washed coal shall be analysed once in a year and records maintained thereof.
- xxxi. The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the Washery.
- xxxii. The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.
- xxxiii. Corporate Environment Responsibility:

- a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
- b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
- c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
- d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

B. General Conditions

- i. No change in washery technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate Change.
- ii. No change in the calendar plan of production for quantum of mineral coal shall be made.
- iii. Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ and NO_x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.
- iv. Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.



- v. Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.
- vi. Industrial wastewater (workshop and wastewater from the washery) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.
- vii. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.
- viii. Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EPA Rules, 1986.
- ix. Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.
- x. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.
- xi. A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.
- xii. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
- xiii. The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the Ministry of Environment, Forests & Climate Change at <http://envfor.nic.in>.
- xiv. A copy of the environmental clearance letter shall be marked to concern Panchayat/Zila Parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.
- xv. A copy of the environmental clearance letter shall be shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.
- xvi. The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and washery office and in corporate office and on company's website.
- xvii. The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office s of CPCB and the SPCB.
- xviii. The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.



- xix. The Environmental statement for each financial year ending 31 March in For –V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail.
4. The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.
5. The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent
6. The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
7. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
8. The Proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.
9. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
10. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.
11. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


(Dr. Manoranjan Hota)
Director


Copy to:

1. Secretary, Ministry of Coal, New Delhi.
2. Secretary, Department of Environment, Government of Maharashtra, 15th Floor, New Admn. Bldg., Madam Cama Road, MUMBAI – 400032.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arera Colony, Bhopal – 462016.
4. Member Secretary, Maharashtra State Pollution Control Board, Kalapataru Point, 3rd & 4th Floors, Sion, Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai

- 400002.

Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar,
New Delhi -110032.

5. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road
Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
6. District Collector, Chandrapur, Government of Maharashtra.
7. Monitoring File 8. Guard File 9. Record File 10. Notice Board.


(Dr. Manoranjan Hota)
Director