

No.J-11015/554/2007-IA.II(M)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
C.G.O.Complex,
New Delhi -110510.

Dated: 10th December 2008

To
M/s Aryan Coal Beneficiation Pvt. Ltd.,
A-602, 6th Floor, Signature Tower,
South City-I,
GURGAON – 122001.

Sub: **Expansion of Binjhri Coal washery Project (0.96 MTPA to 4.8 MTPA of raw coal) of M/s Aryan Coal Beneficiation Pvt. Ltd., located in village Dipika, Tehsil Katghora, district Korba, Chhattisgarh – Environmental Clearance based on Terms of Reference (TOR) – reg.**

Sir,

This has reference to letter No. ACBPL/MoEF/07-08/1047 dated 18.06.2007 along with application for Terms of Reference (TOR) and this Ministry's grant of TOR vide letter dated 22.10.2007 and subsequent application dated 27.05.2008 for environmental clearance and letters dated 12.08.2008, 25.09.2008 and 29.10.2008 on the above-mentioned subject. The Ministry of Environment & Forests has considered the application. The proposal is for **expansion of the existing linkage-based coal washery (stand-alone) of 0.9 million tonnes per annum (MTPA) capacity of raw coal to 4.8 MTPA raw coal capacity by wet process** at the existing unit located within the leasehold of Dipka Opencast Coalmine of M/s South Eastern Coalfields Ltd. (SECL), in district Korba, in a total area of 7.35 ha. The washery would receive coal from Gevra and Dipka coalmines of M/s South Eastern Coalfields Ltd. There area no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 10 km buffer zone. A number of endangered fauna such as Leopard and Sloth Bear are found in the forestland in the study area at a distance from the washery. Of the total project area, area for CHP is 1.21 ha, crushing yard is 0.40 ha, reservoir is 0.40 ha, washery equipment is 2.42 ha, building and laboratory is 0.80 ha, conveyor system is 0.40 ha, storage yard is 0.40 ha., green belt is 1.21 ha. It is proposed to use flyash bricks for construction of the project. The unit is a wet process plant and would consist of two streams of 400 TPH (2.4 MTPA) throughput capacity assuming 18 hours of work in 330 days per year. The design of the washery plant is to ensure that the washed coal meets the overall ash content of 32% required by power plants and 28% or less required by cement and sponge iron plants. It is planned to install belt conveyors to transport raw coal from the coalmine and the washed coal from this project would be transported to Junadih-III, IV and V siding. Permission to install Belt Conveyor System is under discussion with Dipka Coal mine Project Authority of M/s SECL. The unit has a storage area for one day's stock storage of coal at plant site (15,000 – 16,000 TPD). The maximum generation of rejects would be 1 MTPA, which would be fully utilised located at Chakabura/Kasaipalli at a distance of 4 km. the transportation of coal rejects to the TPP would be by 20-T trucks making 167 trips per day. Total water req. of the plant is 540 m3/d. Peak make-up water requirement is 270 m3/d of which 265 m3/d would be met from the company's TPPs located at Chakabura/Kasaipalli and 5 m3/d for domestic consumption would be from borewells. Water used will be closed circuit for re-use (zero-discharge). Life of the project is 30 years. Public Hearing was conducted on 28.03.2008. Capital cost of the project is **Rs. 26 crores.**

2. The Ministry of Environment & forests hereby accords environmental clearance for the above-mentioned **expansion of the Binjhri Coal Washery unit from 0.96 million tonnes per annum (MTPA) to 4.8 MTPA of raw coal** under the provisions of the Environmental Impact Assessment Notification, 2006 and subsequent amendments thereto and under Para 2.1.1 of MOEF Circular dated 13.10.2006 and subject to conditions specified below:

A. Specific Conditions

- (i) The company shall prepare a Plan for transportation of raw coal/washed coal by rail integrating it with the plan of M/s South Eastern Coalfields Ltd. The internal transport of raw coal and clean coal from the washery shall be by belt conveyors. The Plan shall be in place within 3 years. Until such time, the mineral transportation by road within the leasehold of Gevra/Dipka mine shall continue.
- (ii) Coal rejects shall be used in FBC based TPP. Transport of coal rejects for use in FBC shall continue by road.
- (iii) 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.
- (iv) Hoppers of the coal crushing unit and washery unit shall be fitted with high efficiency bag filters/Dust extractors 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 belt conveyor systems which shall be closed and from transportation roads.
- (v) All internal roads shall be concretised. The roads shall be regularly cleaned with mechanical sweepers. Avenue plantation developed along the roads. Facilities for parking of trucks carrying coal waste rejects shall be created within the Unit.
- (vi) No surface water shall be used for the plant operations. Water shall be drawn from the Thermal Power Plant of the company at Chakabura. The company shall obtain prior approval of SGWB/CGWB Regional Office for use of 5 m³/d groundwater for the washery operations.
- (vii) 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 for treatment of workshop effluents.
- (viii) The Washery unit shall be a zero-discharge facility and no wastewater shall be discharged from the washery into the drains/natural watercourses. Recycled water shall be used for development and maintenance of green belt and in the Plant Operations.
- (ix) Green belt shall be developed along the areas such as the washery unit, crushing unit, and stockyard.
- (x) Socio-economic and welfare measures for the local communities around the Dipka coalmine housing the washery unit shall be implemented under CSR.

B. General Conditions

- (i) No change in technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.
- (ii) No change in the calendar plan for washing the quantum of mineral coal and waste produced 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 monitoring SPM, RSPM, SO₂, NO_x and heavy metals such as Hg, Pb, As, Cr, etc. 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.

- (iv) Fugitive dust emissions (SPM and RSPM and heavy metals such as Hg, Pb, As, Cr, etc) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points shall be provided and properly maintained.
- (v) Periodic monitoring report with data on ambient air quality (SPM, RSPM, SO₂, NO_x and heavy metals such as Hg, Pb, As, Cr, etc) shall be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months.
- (vi) 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.
- (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) Environmental quality shall be regularly monitored and got analysed through an Environmental laboratory established under the Environment (Protection) Act, 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.
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.
- (x) An 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.
- (xi) 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 Regional Office at Bhopal.
- (xii) The Regional Office of this Ministry located at Bhopal 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.
- (xiii) A copy of the clearance letter shall be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
- (xiv) State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.
- (xv) The Project authorities shall advertise in newspapers – one national and two local 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 at <http://envfor.nic.in>.

3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.

5. 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. 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.



(Dr. T. Chandini)
Director

Copy to:

1. Secretary, Ministry of Coal, New Delhi.
2. Secretary, Department of Environment & Forests, Government of Chhattisgarh, Secretariat, Raipur.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arear Colony, Bhopal – 462016.
4. Chairman, Chhattisgarh State Environment Conservation Board, 1-Tilak Nagar, Shiv Mandir Chowk, Main Road, Avanti Vihar, RAIPUR-Chhattisgarh – 492001.
5. Chairman, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi -110032.
6. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. Director (Technical), M/s South Eastern Coalfields Ltd., Bilaspur, Chhattisgarh.
8. District Collector, Korba, Government of Chhattisgarh.
9. Monitoring File 10. Guard File 11. Record File.

EI: - 29 /Korba/15
Date: - 05/10/15



CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
Commercial Complex, C.G. Housing Board Colony,
Kabir Nagar, Raipur (C.G.) 492 099

No. 3017 /TS/CECB/2015

Raipur, dated: 5/10/2015

To,

M/s A.C.B. (India) Limited,
Binjhari Coal Washery,
Village-Dipka, Tehsil-Katghora,
District-Korba (C.G.)

Subj: - Consent of the Board under Section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974.

Ref: - 1. Environmental Clearance issued by Ministry of Environment & Forests, Govt. of India vide letter no. J-11015/554/2007-IA.II(M), dated: 10/12/2008.

2. Permission to Establish issued by, Chhattisgarh Environment Conservation Board, Raipur, vide Letter No. 43/TS/CECB/2009 Raipur, dated: 04/04/2009.

3. Your application No. ACBIL/ENV/CTO/BINJ/14/001, dated: 01/04/2014 and corresponding ending dated 04/08/2015.

--: 00 :--

With reference to your above application, consent is hereby granted subject to the fulfillment of the terms and conditions annexed here for a period of one year from the first day of the month of commissioning of the plant: -

This consent is valid for following products & production capacity: -

Product	Production Capacity (After expansion)
Coal Washery	4.8 Million Tonnes per Annum (Four Point Eight Million Tonnes per Annum)

Note :- The above production capacity includes the existing production capacity of 0.96 MTPA of Coal Washery for which consent has already been granted under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

Please acknowledge the receipt of this letter.

For & on behalf of

Chhattisgarh Environment Conservation Board


Member Secretary

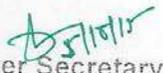
Chhattisgarh Environment Conservation Board

Endt. No.
Copy to: -

/TS/CECB/2015

Raipur, dated: ___/___/2015

1. Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Korba (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the industry.
2. Cess Section, Chhattisgarh Environment Conservation Board, Raipur (C.G.).


Member Secretary
Chhattisgarh Environment Conservation Board
Raipur (C.G.)



CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

Commercial Complex, C.G. Housing Board Colony,
Kabir Nagar, Raipur (C.G.) 492 099

CONSENT LETTER

- No. **29** /EI/Korba/CECB/2015 Raipur, dated: **5 / 10** /2015
- Sub: Consent to **M/s A.C.B. (India) Limited**, Village - Dipka, Tehsil - Katghora, District - Korba (C.G.) for the discharge of effluent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.
- Ref: Application for consent to operate vide Letter No. ACBIL/ENV/CTO/BINJ/14/001, dated: 01/04/2014 and corresponding ending dated 04/08/2015 of **M/s A.C.B. (India) Limited** (Expiry Date - After one year commencing from the first day of the month of commissioning of the plant)
1. With reference to the above application for consent to discharge effluent into the natural water courses under the Water (Prevention & Control of Pollution) Act, 1974, here-in-after referred to as the Act **M/s A.C.B. (India) Limited** is authorized by the State Board to discharge its industrial and other effluents arising out of their premises into the local stream/river/well in accordance with the general and special conditions as mentioned in the Annexure.
 2. This consent shall be valid for a period of twelve months from the first day of the month of commissioning of the plant.

This consent is valid for following products & production capacity: -

Product	Production Capacity (After expansion)
Coal Washery	4.8 Million Tonnes per Annum (Four Point Eight Million Tonnes per Annum)

Note :- The above production capacity includes the existing production capacity of 0.96 MTPA of Coal Washery for which consent has already been granted under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

Please acknowledge the receipt of this letter.

For & on behalf of
Chhattisgarh Environment Conservation Board


Member Secretary
Chhattisgarh Environment Conservation Board
Raipur (C.G.)

Seal

(I)
ANNEXURE

M/s A.C.B. (India) Limited

Location of Factory: Patwari Halka No. 21,
Village - Dipka, Tehsil - Katghora,
District - Korba (C.G.)

Vide consent no. 29 /EI/Korba/CECB/2015 Dt. 05/10/15

A. GENERAL CONDITIONS: -

1. All discharges authorized shall be consistent with terms and conditions of this Consent Facility expansions, production increases or process Modifications which result in new or increased discharges of pollutants must be reported by submission of a new Consent, application or if such new, or increased discharge does not violate the effluent limitations specified in the Consent, by submission to the Board details of such new or increased discharges of pollutants in which case the consent may be modified to specify effluent limitations for any pollutants not identified and limited here in the discharge of any pollutant more frequently than or at a level in excess of that identified and authorized by the Consent shall constitute a violation of the terms and conditions of the Consent.
2. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to the following: -
 - (a) Violation of any terms and conditions of this Consent.
 - (b) Obtaining this Consent by misrepresentation or failure to disclose fully all relevant facts.
 - (c) A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.
3. Notwithstanding para(2) above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established for a toxic pollutant which is present in the discharge authorized here in and such standard or prohibition is more stringent than any limitation upon such pollutant in this Consent the Consent shall be revised or modified in accordance with the toxic effluent standard or prohibition that the Board may consider and the applicant shall be so notified.

4. The applicant shall allow the staff of Chhattisgarh Environment Conservation Board and/or their authorized representative, upon the Presentation of credentials:
 - (a) To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
 - (b) To have access to and copy at reasonable time any records required to be kept under the terms and conditions of this Consent.
 - (c) To inspect at reasonable time any monitoring equipment or monitoring method required in this Consent; or
 - (d) To sample at reasonable time any discharge of pollutants.
5. The applicant shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities of system installed or used by him to achieve compliance with the terms and conditions of this Consent.
6. The issuance of this Consent does not convey any property rights 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 or local laws or regulation.
7. The Consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any water course.
8. The specific effluent limitations and other pollution controls applicable to the discharge permitted here in are set forth below as specific conditions. Also set forth below are self-monitoring and reporting requirements. Unless otherwise specified, the applicant shall submit duplicate original copies of all reports to the Chhattisgarh Environment Conservation Board. Except for data determined to be confidential all such reports shall be available for public inspection at the office of the Chhattisgarh Environment Conservation Board. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provide for in section 42 of the Act.

B. SPECIAL CONDITIONS: -

1. Initial Effluent limitation during the period beginning on the effective date of this consent and lasting until one calendar year discharge from outfalls shall be limited and monitored by the applicant as specified below: -

(a) The following shall be limited by the applicant as specified.

S.No.	Effluent Characteristics	Discharge Limitation				Monitoring Requirements	
		Average		Maximum		Frequency of Measurement	Type of Sample
		Mg/l	Kg/Day	Mg/l	Kg/Day		

Daily/Weekly/Monthly/Tri-monthly.

Grab/ 24 Hours Composite

In Addition to above discharge shall be limited and monitored as specified below:

S.No.	Effluent Characteristics	Discharge Limitation				Monitoring Requirements	
		Average		Maximum		Frequency of Measurement*	Type of Sample †
		Mg/l	Kg/Day	Mg/l	Kg/Day		

Daily/Weekly/Monthly/Tri-monthly.

Grab/ 24 Hours Composite

For the purpose of this sub-section, the daily average discharge is the total discharge by weight during the calendar month divided by the number of days in month the production or commercial facility was operating for the purpose of the sub-section the daily maximum discharge means the total discharge by weight during any calendar day.

(b) The pH shall not be less than 5.5 or greater than 9.0

2. Final effluent Limitation: - During the period beginning from 1st day of month of commissioning of the plant with expanded capacity and lasting until the date of expiration of this Consent, discharge from the outfalls shall be limited and monitored by the applicant as specified below:-

(a) The following shall be limited and monitored by the applicant as specified.

S. No.	Effluent Characteristics	Discharge Limitation				Monitoring Requirements	
		Average		Maximum		Frequency of Measurement*	Type of Sample †
		Mg/l	Kg/Day	Mg/l	Kg/Day		
1	B.O.D.	--	--	30	0.24	Monthly	24 hours Composite
2	C.O.D.	--	--	250	2.0		
3	S.S.	--	--	100	0.8		
	pH 5.5 to 9.0 Flow : 8.0 KL/Day (Industrial + Domestic)					Daily	Grab

* Daily/Weekly/Monthly/Tri-monthly.

† Grab/ 24 Hours Composite

Additional, outfalls shall be monitored as follows:

- (i) Flow, Temperature and Total solids: One per month
- (ii) Grab Samples Maximum discharge temperature above upstream receiving water shall be in accordance with the standard of ISI at 40°C.
- (iii) Uniform as per ISI 2490 at 40°C.

The temperature shall be monitored once per month of each outfall. For the purpose of the sub-section the daily average is the total discharge by weight during calendar month divided by the number of days in month that the production or commercial facility was operating for the purpose of this sub-section, the daily maximum discharge means the total discharge by weight during any calendar day.

(b) The pH shall not be less than 5.5 or greater than 9.0 for outfalls. The samples are taken as monthly, grab samples.

3. Schedule of Compliance for effluent Limitation:- The applicant shall achieve compliance with the effluent limitation: specified above for discharge from outfalls in accordance with the following schedule:

- (i) Report of Progress : Monthly
- (ii) Completion of final plans by
- (iii) Award of contract of other commitment of financing
- (iv) Commencement of construction by
- (v) Report of construction progress
- (vi) Completion of construction by
- (vii) Attainment of operational level by

please see on page no 11 to 14

(b) The applicant shall submit to the Consent issuing Authority the required report of progress or where a specific action is required in (a) above to be taken by a certain date a written notice of compliance or non-compliance with each of the above scheduled dates, post marked not later than 14 days following each elapsed date. Each notice of compliance shall include the following: -

- (1) A short description of the non-compliance.
- (2) A description of any action taken or proposed by the applicant to comply with the elapsed scheduled requirement without further delay.
- (3) An estimate of any factor which tend to explain or mitigate the non-compliance, and
- (4) An estimate of the date, the applicant will comply with the elapsed scheduled requirement and assessment of the possibility that the applicant will meet the next scheduled requirement time.

4. Compilation of monitoring Data

- (a) Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.
- (b) Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and

analytical methods used to meet monitoring requirements specified above shall conform to such guidelines. Unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water & Waste Water 13th Edition of the American Public Health Association, New York U.S.A. shall be used.

- (c) The applicant shall take samples and measurement to meet the monthly requirements specified above at the location indicated below:

POINT OF SAMPLING

- (i) Outfalls of waste.
- (ii) 100 meters from point of confluence, down stream to river or lake.

5. Recording of Monitoring activities and Results:

- (a) The applicant shall make and maintain records of all information resulting from monitoring activities by this Consent.
- (b) The applicant shall record for each measurement of sample taken pursuant to the requirements of this Consent the following information:
 - (1) The date, exact place and time of sampling
 - (2) The dates on which analysis was performed.
 - (3) Who performed the analysis?
 - (4) The analytical techniques or methods used and
 - (5) The result of all required analysis.
- (c) If applicant monitors any pollutant more frequently as is required by this Consent he shall include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board, such increased frequency shall be indicated on the Discharge Monitoring Report form.
- (d) The applicant shall retain for a minimum of 3 years all records of monitoring activities and result including all records of calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be the extent during the course of any unresolved litigation regarding the

discharge of pollutants by the applicant or when requested by the Central or State Board.

6. Reporting of Monitoring Results:

(a) Monitoring information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring Report form duly filled in and signed, to the Board's office at the following address:

CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
Commercial Complex, C.G. Housing Board Colony,
Kabir Nagar, Raipur (C.G.) 492 099

(b) Each submitted Discharge Monitoring Report shall be signed as follows:

(i) If submitted by Corporation by a Principal Executive Officer of at least the level of Vice-President or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the discharge Monitoring Report originates,

(ii) If submitted by a partnership firm, by a general partner.

(iii) If submitted by a sole proprietor, the proprietor,

(iv) If submitted by a Municipal, State or Central Government or other public enterprises, by a Principal Executive Officer, ranking elected official commanding officer, or other duly authorized employee.

(c) All information submitted on the Discharge Monitoring Form shall be based upon measurements and sampling carried out during the three previous calendar months. The first Discharge Monitoring Report shall be submitted for a period ending 60 days from issuance. Thereafter reporting period shall end on the last date of each month. The applicant shall submit a Discharge Monitoring Report post marked no later than 28th day of the month following each completed reporting period.

7. Limitation of Discharge of Oil Hazardous Substance in harmful quantities: The applicant shall not discharge oil in quantities defined as harmful in regulations. In addition the applicant shall not discharge hazardous substance into natural water course in quantities defined as harmful in regulations promulgated by the Board. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relieve the applicant from any

responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

8. Limitation of visible Floating Solids and Foam: During the period beginning date of issuance and lasting until the date of expiration of this Consent the applicant shall not discharge floating solids or visible foam.
9. Disposal of Collected Solids:
 - a) Intake Water Treatment: Solid Sludge's, dirt, silt or other pollutant separated from or resulting from treatment of intake or supply waters prior to use by the applicant shall be disposed off in such a manner as to prevent any pollutant from such materials from entering any such water Any live fish or other animals collected or trapped as a result of intake water screening or treatment may be returned to water.
 - b) Waste water Treatment, Solid sludge's, filter backwash or other pollutant removed from or resulting from treatment or control of waste waster shall be disposed of in such a manner as to prevent any pollutants from such materials from entering natural water.
10. Non-compliance with Effluent Limitations:
 - (a) If for any reason the applicant does not comply with or will be unable to comply with or will be unable to comply with any daily maximum effluent limitations specified in this Consent the applicant shall immediately notify the Consent issuing authority or his designee by telephone No. 0771-2443923/2443934 and provide the Consent issuing Authority with the following information in writing within 5 days of such notification:
 - i) Cause of non-compliance.
 - ii) A description of the non-complying discharge including its impact upon the receiving water.
 - iii) Anticipated time, of non compliance is expected to continue or if such condition has been corrected, the duration 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 to prevent recurrence of conditions of non compliance.

- (b) The applicant shall take all responsible 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 equipment break down electric power failure, accident or natural disaster.

Limitation of Batch Discharge.

SPECIAL CONDITIONS

- 11. Provision for Electric Power Failure: The applicant shall either:
 - (a) No later than certify in writing to the consent issuing authority that applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent or.
 - (b) No later than 30 days after the effective date of his Consent, certify in writing to the consent issuing authority that upon the reduction, loss, or failure of one or more of the primary sources of electric power to any facilities utilized by the applicant to maintain compliance with the terms and conditions of his consent, the applicant shall halt, reduce or otherwise Control production and/or all discharges in order to maintain compliance with the terms & conditions of this Consent.
- 12. Prohibition of By pass of Treatment Facilities: The diversion or by-pass of any discharge from facility utilized by the applicant to maintain compliance with the terms and conditions of this Consent is prohibited except:
 - (i) Where unavoidable to prevent loss of life severe property damage, or
 - (ii) Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance

with the procedure specified above for reporting non-compliance.

13. Spill Prevention and Containment Plan: Within 90 days of the effective date of the Consent the applicant shall prepare and submit to the consent issuing authority; a Spill Prevention; Containment and Countermeasure Plan for the facility covered by this Consent. Such plan shall include the following information and procedures relating to the prevention of spills and unauthorized discharges or oil and hazardous substances;
 - (a) A description of a reporting system to be used to notify immediately persons responsible for management of a facility and appropriate State and Central authorities;
 - (b) A description of equipment or facilities (including overall facility) for the prevention, containment of spills and unauthorized discharge;
 - (c) A list of all oil and hazardous materials used processed or stored at the facility including the normal quantity maintained on the premises for each listed material;
 - (d) A brief description of any spills or unauthorized discharge which occurred during the 36 months period preceding the effective date of this Consent and subsequent measures taken by the applicant or reduce the possibility of further spills or unauthorized discharges; and.
 - (e) An implementation schedule for additional equipment or facilities which might be required for sub para (b) above but which are not yet operational.

SPECIAL CONDITIONS

1. The industry shall comply with all the terms and conditions of Environmental Clearance given by Ministry of Environment and Forests, Government of India vide letter no. J-11015/554/2007-IA.II(M), dated: 10/12/2008.
2. Industry shall ensure continuous, proper and efficient working of industrial and domestic effluent and shall ensure that the treated effluent quality meet the standards prescribed by Board published in Gazette Notification dated 25.03.88. Industry shall provide close circuit system, so that any effluent generated shall be, after treatment recycled back to the system only. Industry shall provide suitable arrangement of drains/pipe networks to ensure adequate flow for full utilization of treated effluent inside the premises. No effluent shall be discharged outside of the factory premises in any circumstance; hence zero discharge condition shall be maintained at all the time. The major parameters shall not exceed the following limits:-

a	pH	5.5 - 9.0
b	BOD	30 mg/L
c	COD	250 mg/L
d	Oil and Grease	10 mg/L
e	Total Suspended Solids	100 mg/L
f	Phenolics	1.0 mg/L

Chhattisgarh Environment Conservation Board may further stipulate stringent limit depending upon environmental conditions.

3. Industry shall provide water-metering arrangement for the measurement of water utilized and effluent generated.
4. Industry shall provide safe and scientific arrangement for handling and disposal of all solid wastes such as coal sludge, meddling/rejects etc. Industry shall store meddling/rejects, coal sludge or any solid wastes inside the premises for few days only and not for longer period. Industry shall not store/dump solid wastes such as; sludge, meddling/rejects etc. outside the factory premises in any circumstances without prior permission of the Board. Safe and scientific arrangement for temporary storage of meddling/rejects shall be provided in the premises and return back to the parties from whom raw coal procured (parties for whom job is undertaken) as early as possible without delay. Scientifically designed sludge drying beds for treatment and safe & scientific arrangement for temporary storage of coal sludge from settling tanks shall be provided and it shall be disposed off as early as possible without delay to brick/briquettes manufacturers etc.

5. Industry shall ensure continuous running of separate electric metering arrangements with time totalizer for the running of pollution control devices. These arrangements shall be made in such a fashion that any non-functioning of pollution control devices shall immediately stop the electric/raw material supply to the production unit and shall remain tripped till the pollution control device/devices are made functional again.
6. Industry shall obtain letter of authorization under Hazardous Materials (Management, Handling and Transboundary Movement) Rules, 2008 from the Board (as applicable).
7. Industry shall follow code of practice for Coal Washery as below: -
 - a. Water or Water mixed chemical shall be sprayed at all strategic coal transfer points such as conveyors, loading/unloading points etc. Conveyors, transfer points etc. shall be provided with enclosures.
 - b. 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 meters conforming particulate matter emission standard of 150 mg/Nm³ or provided with adequate water sprinkling arrangement.
 - c. Water sprinkling by using fine atomizer nozzles arrangement shall be provided on the coal heaps and on around the crushers/pulverisers.
 - d. Area, in and around the coal washery shall be pucca either asphalted or concreted.
 - e. Green belt shall be developed along the roadside, coal handling plants, residential complex, office building and all around the boundary line of the coal washery.
 - f. Storage bunkers, hoppers, rubber decks in chutes and centrifugal chutes shall be provided with proper rubber linings.
 - g. Vehicles movement in the coal washery area shall be regulated effectively to avoid traffic congestion. High-pressure horn shall be prohibited. Smoke emission from heavy duty vehicle operating in the coal washeries should conform the standards prescribed under Motor Vehicle Rules, 1989.
 - h. Water consumption in the coal washery shall not exceed 1.5 cubic meter per tonne of coal, if applicable.
 - i. The efficiency of the setting ponds of the wastewater treatment system of the coal washery shall not be less than 90%, if applicable.

8. Industry shall adopt rainwater-harvesting technique in the project area and residential area (if any) for recharge of ground water. The rain harvesting technique shall be incorporated right from the design stage of all structures. Industry shall develop rainwater-harvesting structures to harvest the rainwater for utilization in the lean season as well as to recharge the ground water table.
9. At-least 33% of the plant area shall be developed with wide green belt/plantation of broad leaf local species at all around the plant premises and in the open areas available within the plant premises shall be carried out. Industry shall abide by the decisions taken by Ministry of Environment and Forests, Government of India / Central Pollution Control Board / State Government / Chhattisgarh Environment Conservation Board from time to time in this regard. Industry shall plant 1500 – 2000 saplings per hectare of local species.
10. Garland drains with appropriate check dams shall be provided all along the raw coal, meddling, reject coal, coal sludge storage areas and solid wastes storage areas to avoid any possibility of erosion during rain. Garland drain (size, gradient & length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the project site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains. The surface run-off shall be de-silted through a series of check dams and drains before re-use/disposal.
11. Industry shall establish an environmental management cell to carryout function relating to environmental management under the supervision of senior executive who is directly reporting to the head of organization. Industry shall setup laboratory facility for collection and analysis of environmental samples under the supervision of competent technical personnel.
12. Necessary fund shall be provided for implementation of the above conditions, conditions to be incorporated in the 'consent to operate' of the Board and for environmental safeguards. The funds earmarked for environmental protection measures shall be kept in separate account and not diverted for any other purpose.
13. The issuance of this 'consent to operate' does not convey any property rights 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 or local laws or regulations.
14. Industry shall follow direction issued by Central/State Government, Central Pollution Control Board/Chhattisgarh Environment

Conservation Board from time to time regarding control of water & air pollution and for environmental conservation.

15. Industry shall obtain statutory clearances/licenses from concerned Central/State Government Departments, Boards, Bodies and Corporations etc. Industry shall follow direction issued by Central/State Government, Central Pollution Control Board/ Chhattisgarh Environment Conservation Board from time to time regarding control of water & air pollution and for environmental conservation.
16. Any change in product, production capacity, process, raw materials to be used etc. shall be intimated to the Board and prior permission of the Board shall be obtained for the same.
17. Board reserves the right to amend/cancel any of the above conditions, stringent the emission/effluent limits stipulated above and add new conditions as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.

This consent and the authorization to discharge shall expire after twelve months starting from the first day of the month of commissioning of the plant. The applicant shall not discharge after the date of expiration. The applicant shall submit such information forms and fees as required by the Board not later than 180 days prior to the date of expiry.

For & on behalf of
Chhattisgarh Environment Conservation Board


Member Secretary
Chhattisgarh Environment Conservation Board
(4) Baipur (C.G.)

El: - 29 /Korba/15
Date: - 05/10/15



CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
Commercial Complex, C.G. Housing Board Colony,
Kabir Nagar, Raipur (C.G.) 492 099

No. 3019/TS/CECB/20145

Raipur, dated: 5/10/2015

To,

✓ M/s A.C.B. (India) Limited,
Binjhari Coal Washery,
Village-Dipka, Tehsil-Katghora,
District-Korba (C.G.)

Sub.: - Grant of consent under section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

Ref.: - 1- Environmental Clearance issued by Ministry of Environment & Forests, Govt. of India vide letter no. J-11015/554/2007-IA.II(M), dated: 10/12/2008.

2- Permission to Establish issued by, Chhattisgarh Environment Conservation Board, Raipur, vide Letter No. 43/TS/CECB/2009 Raipur, dated: 04/04/2009.

3. Your application No. ACBIL/ENV/CTO/BINJ/14/001, dated: 01/04/2014 and corresponding ending dated 04/08/2015.

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With reference to your above application, consent is hereby granted for a period of one year from the first day of the month of commissioning of the plant subject to the fulfillment of the following terms and conditions: -

This consent is valid for following products & production capacity:-

Product	Production Capacity (After expansion)
Coal Washery	4.8 Million Tonnes per Annum (Four Point Eight Million Tonnes per Annum)

Note :- The above production capacity includes the existing production capacity of 0.96 MTPA of Coal Washery for which consent has already been granted under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act 1981

Terms & Conditions: -

1. The industry shall comply with all the terms and conditions of Environmental Clearance given by Ministry of Environment and Forests, Government of India vide letter no. J-11015/554/2007-IA.II(M), dated: 10/12/2008.
2. Industry shall ensure the continuous, proper and efficient working of all air pollution control arrangements to control the emission of air pollutants from the coal handling plant, transfer points, during transportation, loading/ unloading and other activities so as to achieve maximum limit of particulate matter emission 50 mg/Nm³ (Milligram/Normal Cubic Meter).
3. The difference in the value of suspended particulate matter, delta (Δ), measured between 25 and 30 meter from the enclosure of coal crushing plant in the downward and leeward wind direction shall not exceed 100 microgram per cubic meter.
4. Industry shall provide adequate arrangement for control of dust emission from screens, vibrator, rotary breakers, crushers, all transfer points, junction points etc. Effective steps shall be taken to avoid fugitive emission inside the plant. All internal roads shall be made pucca. Adequate arrangement shall be provided to control fugitive dust emission during handling and transportation of raw coal, washed coal, reject coal and coal sludge etc. All conveyor belts shall be kept covered. Good housekeeping practices shall be adopted by the industry.
5. Industry shall ensure use of properly covered vehicles for the transportation of raw materials, wastes etc. so as to avoid environmental hazards in the surroundings.
6. Ambient air quality within the premises shall not exceed the standards prescribed by the Board. Industry shall ensure the concentration of pollutants in ambient air within standards prescribed for residential, rural areas in the nearby residential/rural areas due to establishment/commissioning of the plant. Industry shall follow provisions of notification issued by Ministry of Environment & Forests, Government of India in this regard from time to time.
7. Industry shall ensure continuous running of separate electric metering arrangements with time totalizer for the running of pollution control devices. These arrangements shall be made in such a fashion that any non-functioning of pollution control devices shall immediately stop the electric/raw material supply to the production unit and shall remain tripped till the pollution control device/devices are made functional again.

8. Industry shall obtain authorization under Hazardous Materials (Management, Handling and Trans Boundary Movement) Rules, 2008 from the Board. (If required).
9. Industry shall provide proper arrangement to control the noise pollution. Industry shall install appropriate noise barriers/control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation to control the noise. The ambient noise level shall be maintained within 75 dB (A) during daytime and 70 dB(A) during nighttime within the factory premises. Noise level at operational/working zone shall not exceed 85 dB (A) Leq for 8 hours exposure.
10. Industry shall follow code of practice for Coal Washery as below: -
 - a. Water or Water mixed chemical shall be sprayed at all strategic coal transfer points such as conveyors, loading/unloading points etc. Conveyors, transfer points etc. shall be provided with enclosures.
 - b. 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 meters conforming particulate matter emission standard of 150 mg/Nm³ or provided with adequate water sprinkling arrangement.
 - c. Water sprinkling by using fine atomizer nozzles arrangement shall be provided on the coal heaps and on around the crushers/pulverisers.
 - d. Area, in and around the coal washery shall be pucca either asphalted or concreted.
 - e. Green belt shall be developed along the roadside, coal handling plants, residential complex, office building and all around the boundary line of the coal washery.
 - f. Storage bunkers, hoppers, rubber decks in chutes and centrifugal chutes shall be provided with proper rubber linings.
 - g. Vehicles movement in the coal washery area shall be regulated effectively to avoid traffic congestion. High-pressure horn shall be prohibited. Smoke emission from heavy duty vehicle operating in the coal washeries should conform the standards prescribed under Motor Vehicle Rules, 1989.
 - h. Water consumption in the coal washery shall not exceed 1.5 cubic meter per tonne of coal, if applicable.

- i. The efficiency of the settling ponds of the wastewater treatment system of the coal washery shall not be less than 90%, if applicable.
11. At-least 33% of the plant area shall be developed with wide green belt/plantation of broad leaf local species at all around the plant premises and in the open areas available within the plant premises shall be carried out. Industry shall abide by the decisions taken by Ministry of Environment and Forests, Government of India / Central Pollution Control Board / State Government / Chhattisgarh Environment Conservation Board from time to time in this regard. Industry shall plant 1500 – 2000 saplings per hectare of local species.
12. Industry shall establish an environmental management cell to carryout function relating to environmental management under the supervision of senior executive who is directly reporting to the head of organization. Industry shall setup laboratory facility for collection and analysis of environmental samples under the supervision of competent technical personnel.
13. Necessary fund shall be provided for implementation of the above conditions, conditions to be incorporated in the 'consent to operate' of the Board and for environmental safeguards. The funds earmarked for environmental protection measures shall be kept in separate account and not diverted for any other purpose.
14. The issuance of this 'consent to operate' does not convey any property rights 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 or local laws or regulations.
15. Industry shall follow any other conditions given at the time of grant of consent for operation under the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981.
16. Industry shall obtain statutory clearances/licenses from concerned Central/State Government Departments, Boards, Bodies and Corporations etc. Industry shall follow direction issued by Central/State Government, Central Pollution Control Board/ Chhattisgarh Environment Conservation Board from time to time regarding control of water & air pollution and for environmental conservation.

17. Any change in product, production capacity, process, raw materials to be used etc. shall be intimated to the Board and prior permission of the Board shall be obtained for the same.
18. Board reserves the right to amend/cancel any of the above conditions, stringent the emission/effluent limits stipulated above and add new conditions as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.

This consent is valid for the stated period and has to be renewed every year. Application with annual license fee in this regard shall reach the office 4 months before the expiry of this consent.

Please acknowledge the receipt of this letter.

For & on behalf of
Chhattisgarh Environment Conservation Board



Member Secretary
Chhattisgarh Environment Conservation Board
Raipur (C.G.)

Endt. No. /TS/CECB/2015 Raipur, dated: ___/___/2015
Copy to: -

Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Korba (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the industry.



Member Secretary
Chhattisgarh Environment Conservation Board
Raipur (C.G.)