

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent order No :- BO/JD(APC)/EIC No. CH-1684-14/CAC - 2341-A Date- 22/09/2015

To,
M/s. Karnataka Power Corporation Limited,
Plot No. 84, Kiloni, Tal. Bhadrawati,
Dist. Chandrapur

Subject: Amendment in Renewal of Consent to operate with increased CI in RED category for change of name of M/s. Integrated Baranj Opencast Mines to M/s. Karnataka Power Corporation Limited,

- Ref : 1. Earlier Consent granted vide no. BO/JD(APC)/EIC No. CH-0997-12R/CC-CAC-713 dated 13/12/2012
2. Minutes of CAC meeting held on 09.12.2014.
3. Industries letter dated 11.07.2015 regarding transfer of consent.
4. Amendment of EC vide letter no J-11015/400/2006-IA-II(M) dated 06.07.2015.

Your application:- CR1407000066

Dated: 05/05/2014

For: Renewal of consent to operate with increased CI 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 (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- The consent is granted for a period from 01/07/2014 to 30/06/2016 or up to validity of mine lease period whichever is earlier for Baranj Opencast Coal Project (2.5MTPA) in total lease area of 1457.20 Ha located in village Chinchordi Baranj (Mokasa), Chak Baranj, Kesurli Kodhali, Somnala, Bonthala, Tehsil Bhadravati, Dist. Chandrapur
- The actual capital investment of the industry is Rs. 586.06 Crs. (Existing CI- 524.67 Cr + Increased CI- 61.39 Cr as per C. A. Certificate submitted by industry)
- The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity
1.	Coal (By Open Cast Method)	2.5 Million Tones/Year

- Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent (including mining discharge)	10182.38	As per Schedule -I	Reused/ on land
2.	Domestic effluent	150	As per Schedule -I	On land for gardening

- Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	N.A.	N.A.	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	Over Burden	66600000	M3/M		Land filling

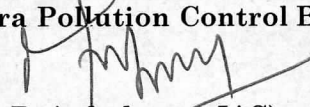
7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Wastes/residue containing oil (oil filters)	5.2	80	Nos./M	---	CHWTSDF
2	Chemical sludge, oil and grease, skimming residues	34.4	1.0	MT/M	---	CHWTSDF
3	Used Battery	B4	3.0	Nos./M	---	Authorize
4	Used /spent oil	5.1	600	Ltr/M	---	d Recycler

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. Consent is issued considering the undertaking submitted by the industry vide letter no A1M1B3/IBOCM/1019 dated 14.09.2015 for compliance of consent conditions.
11. This consent is issued as per coal mine allotment order issued by Ministry of Coal, GoI vide letter no. 103/14/2015/NA dated 31.03.2015 for coal mine Baranj-I to IV, Kiloni & Manora Deep coal Mine to M/s. Karnataka Power Corporation Limited.
12. The applicant shall comply with conditions stipulated in environmental clearance granted by MoEF &CC, GoI vide no. J-11015/400/2006-IA.II(M) dated 18.05.2006 and transfer of environmental Clearance of Baranj Opencast Project (2.5MTPA) from M/s. Karnataka Emta Coal Mines Ltd to M/s. Karnataka Power Corporation Limited vide letter no J-11015/400/2006-IA-II(M) dated 06.07.2015.
13. The consent is issued with the overriding effect on existing consent granted by the Board vide consent No. BO/JD(APC)/EICNo. CH-1684-14/CAC-2341 dated 02.03.2015.
14. Industry shall comply the direction issued by the Board vide No 2710 dated 09.06.2015 regarding not to restart the mining activity without obtaining prior permission from the Board.
15. This consent is issued as per communication received from Industry Department, GoM vide letter No. MNG-05015/PK56/Udyog-09 dated 16.06.2015.

This is issued with the post-facto approval of CAC

For and on behalf of the
Maharashtra Pollution Control Board

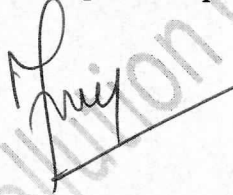

(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1.	Rs. 9,00,000/-	025641	28/04/2014	Bank of India
2.	Rs. 9,00,000/-	025642	28/04/2014	Bank of India
3.	Rs. 9,00,000/-	476535	25/04/2014	Bank of India
4.	Rs. 5,72,131/-	476536	25/04/2014	Bank of India
5.	Rs. 3,72,132/-	025643	28/04/2014	Bank of India
6.	Rs. 1,00,000/-	992293	06.02.2015	State Bank of India

Copy to:

1. **Regional Officer - Chandrapur- He is directed to forfeit the BG of Rs. 1 lakhs towards non compliance of Interim direction issued by the Board dated 19.06.2012. & Rs. 2 Lakhs obtained towards O&M of all air pollution control system as JVS results of AAQM are exceeding the consented standards (Non compliance of conditional direction dated 08.04.2010). as per BG compliance report submitted by SRO Chandrapur vide email dated 13.11.2014**
BG of Rs. 5 lakhs shall be released towards installation & commissioned one CAAQM station as per direction issued by the Board dated 19.06.2012 as per BG compliance report submitted by SRO Chandrapur vide email dated 13.11.2014.
2. **Sub - Regional Officer - Chandrapur MPCB , Chandrapur. They are directed to ensure the compliance of the consent conditions.**
3. **Chief Accounts Officer, MPCB, Mumbai.**
4. **CC/CAC desk- for record & website updation purposes.**



Schedule-I
Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 30 CMD and 20 MLD for workshop effluent and Mine water respectively.
- B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board (If any)
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
01	pH	5.5 to 9.0
02	Oil & Grease	10
03	BOD (3 days 27oC)	30
04	Total Dissolved Solids	2100
05	Phenolic	1
06	Nitrate Nitrogen	10
07	Suspended Solids	100
08	Chloride	600
09	Sulphate	1000

- C] The treated effluent from Mine discharge shall be used for spraying mine pits to the maximum possible extent & on land for gardening in the premises and excess shall be discharged into local nalla only after achieving above standards. The project authority shall take proactive initiatives for use of this excess water for agricultural purposes in the vicinity of mine.

The applicant shall achieve zero discharge (Except Mine Discharge) for trade effluent generated from the mine area

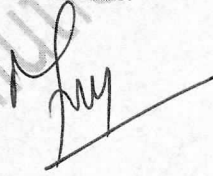
- 2) A] As per your consent application, you have proposed to provide the sewage treatment system of adequate size.
- B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.
- | | | | | |
|-----|-------------------|---------------|-----|-------|
| (1) | Suspended Solids. | Not to exceed | 50 | mg/l. |
| (2) | BOD 3 days 27oC. | Not to exceed | 30 | mg/l. |
| (3) | COD | Not to exceed | 100 | mg/l. |
- C] The treated sewage shall be disposed on land for gardening after confirming the above standards. There shall not be any discharge directly/indirectly outside the factory premises.
- D] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.
- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification

thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.

- 4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	Nil
2.	Domestic purpose	182
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	11269
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	Nil

- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.



Schedule-II
Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
NA							

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines. (Concern section shall mention specific control equipments)
3. A. Standards for Ambient Air Pollutants:-

i	Suspended Particulate Matter [SPM]	Not to exceed	500 ug/m ³
ii	Respirable Particulate Matter [RSPM] (size less than 10 micrometer)	Not to exceed	250 ug/m ³
iii	Sulphur Dioxide (SO ₂)	Not to exceed	120 ug/m ³
iv	Oxides of Nitrogen (NO _x)	Not to exceed	120 ug/m ³

B. Standards for Emission of Air Pollutants

Particulate matter	Not to exceed	150 mg/Nm ³ .
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C. Control Equipment:

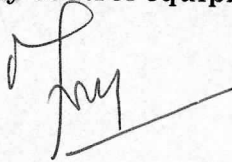
- i Coal handling plant will be provided with Dust Collector and Automatic Water Sprinkler.
- ii Scientific spraying of water on all working area, dump area, stock piles with the help of appropriate dust suppression system.
- iii Coal shall be properly covered during transportation.
- iv The applicant shall carry out tree plantation along road side, around dumps or Compulsory a forestation as per proposal approved by Forest Department. The tree plantation programme shall be taken up well in advance of the actual mining activity, so that green belt of sufficient width and height is developed between mining area/road and surrounding environment.
- v Black topped metal led roads shall be provided and well maintained to prevent dust formation.
- vi Overloading of dumpers shall be avoided to prevent spillages,
- vii Correct type and quantity of explosive shall be used to avoid excess dust formation and vibration in the surrounding area,
- viii The slope of the over burden shall have slope but not more than 28 degree to the horizontal. The overburden shall be properly covered by vegetation for Stabilization.
- ix Coal transportation shall be done by installing conveyors wherever possible & mechanically covered closed trucks shall be used for transportation.

D. 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	In colonies	55 (Residential Area)	20
3	Near Opencast Mines	75 (Industrial Area)	10 (*40)
4	Near CHP's	75	30
5	Near Shaft	75	20
6	Near Mine exhaust fan	75	>50

(* The open Cast Mine needs to be surrounded by a green belt of sufficient width as per the guidelines of Design Institute Ltd (A Subsidiary of Coal India Ltd) if the residential complexes are very close)

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).



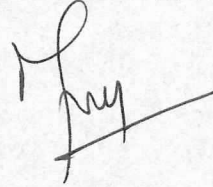
Schedule-III
Details of Bank Guarantees

Forfeited BG History

Sr. N.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	CtoR	Rs. 2 Lakh (to be forfeited)	to be forfeited	Towards O&M of all air pollution control system as JVS results of AAQM are exceeding the consented standards (BG obtained towards conditional direction dated 08.04.2010)	to be forfeited	to be forfeited
2	CtoR	Rs. 1 Lakh (to be forfeited)	to be forfeited	Towards non-compliance of interim direction dated 19.06.2012.	to be forfeited	to be forfeited

Proposed BG

Sr. N.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	CtoR	Rs. 4 lakhs (to be extended)	15 days	Towards installation of rapid loading system (as per letter dated 04.09.2013)	31.12.2015	31.10.2016
2	CtoR	Rs. 10 Lakhs (to be extended)	15 days	To work out feasibility of deploying mechanically closed trucks	30.06.2016	31.10.2016
3	CtoR	Rs. 5 Lakhs	15 days	Towards installation of STP of adequate size.	30.06.2015	30.08.2016
4	CtoR	Rs. 3 lakhs (to be extended)	15 days	Non compliance of direction dated 19.06.2012.	30.06.2016	31.10.2016



Schedule-IV

General Conditions:

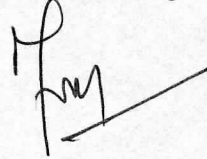
- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) 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.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30th day of September every year , 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.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled /processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 8) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) 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.

- 16) Conditions for D.G. Set
- a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) 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 meters from acoustic enclosure/room and then average.
 - c) 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.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) 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
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 17) The industry should not cause any nuisance in surrounding area.
- 18) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 19) The applicant shall maintain good housekeeping.
- 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 21) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 22) The applicant shall not change or alter the 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. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23) 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.
- 24) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 27) The industry shall comply with the notification issued by MoEF for utilization of flyash from coal or lignite based thermal power plants dated 14th September, 1999 and as amended on 3rd November, 2009.
- 28) The applicant shall comply with the conditions stipulated in Environmental Clearance granted by MoEF vide No. J-11015/400/2005-IA II(M) dated 18.05.2006.

- 29) Industry shall provide dry fly ash handling & collection system and utilize the fly ash as per the fly ash notification of the Govt. of India.
- 30) Transportation of coal & fly ash shall be by closed system, Conveyor system wherever possible.
- 31) The applicant shall operate online continuous monitoring system for process stack emission analysis & same shall be directly connected to MPCB website <http://mpcb.gov.in> as well as to the respective Regional Office within 3 months period and operate the same regularly.
- 32) The applicant shall operate one continuous automatic ambient air and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost measure SO₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

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Maharashtra Pollution Control Board