

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent No: Format 1.0/ BO/CAC-Cell/EIC No:-CH-1701-15, 1759-15, 1780-15 /CAC/CAC-2752
Date- 24 /02/2016

To,
M/s. Ambuja Cement Ltd.
Maratha Cement Works, Uparwahi,
Tq. Korpana, Dist. Chandrapur.

Subject: Consent to 1st Operate for Non Hazardous waste Co-Processing activity & Coal Blending activity & Renewal of Consent to Operate of existing unit by amalgamation of consents under RED category.

- Ref : 1. Earlier Consent granted vide no. BO/JD(APC)/EIC No. NG-8211-12/R/CC/CAC-7200 dated 28.08.2013.
2. Consent to Establish granted vide no. Format 1.0/BO/CAC-Cell/EIC No:- CH-1702-15/CAC/CAC-3580, dtd 26.03.2015
3. Minutes of CAC meeting held on 23.11.2015 & 02.02.2016

Your application: CO1501000003, CO1507000176, CR1510000194
Dated: 01.10.2014, 06.05.2015, 03.09.2015

For: Consent to 1st Operate for Non Hazardous waste Co-Processing activity & Coal Blending activity & Renewal of Consent to Operate of existing unit by amalgamation of consents 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:

1. The consent is granted for a period from up to 31.10.2020.
2. The actual capital investment of the industry is Rs. 1114.23/- Crs. (As per C. A. Certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity
1.	Clinker	2.85 Million ton/annum
2.	Cement (OPC+PPC)	4.75 Million ton/annum
3.	Electricity (60 MW Coal based Captive Thermal Power Plant and 10 MW CPP on DG Set)	70 MW
4.	AFR Feeding System (Non Hazardous Waste Co-Processing)	650 Tons/day
	<i>Co-Processing of only Non Hazardous Wastes i.e., plastic waste from paper mills & Non hazardous material (expired/rejected/off-specification materials/unclaimed & materials confiscated by customs & narcotics department/unused raw materials/packing material & RDF from MSW, segregated MSW or sorted MSW & biomass</i>	
5.	Coal Blending System	250 Tons/Hour

4. 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	400	As per Schedule -I	Recycle
2.	Domestic effluent	1000	As per Schedule -I	Recycle

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

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boilers & Kiln	06	As per Schedule -II
2	De-dusting	15	As per Schedule -II
3	DG set	02	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Sludge from STP	75 tons/year		Used as manure
2	Fly Ash from CPP	356 tons/day		Used in Cement making
3	Bottom ash from CPP	50 Tons/day		Used in process/ Road Making /land filling or Sale to fly ash brick manufactures

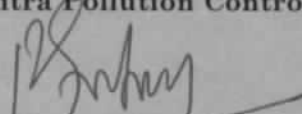
7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Used/spent oil	5.1	150	KL/ Year	—	By sale to authorized recycler/re-processor
2	Oily Cotton waste	5.2	5.0	Tons/year	—	Used in kiln for burning or disposed by sale to authorized recycler/re-processor
3	Furnace oil tank residue		0.6	KL/day	—	
4	Chemical Gypsum	23.1,	490	MT/D	—	Use in cement process
5	Nickel Cadmiun Cell	—	350	Nos/Year	—	By sale to authorized recycler/re-processor
6	Glass Wool	—	20	T/Year	—	

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.

9. Transportation of NHW shall be done in covered manner, & manifest system shall be followed on similar line of Hazardous Waste (MH & TM) Rules 2008.
10. Industry shall submit annual returns regarding reception & disposal of inert Non-Hazardous Waste to concern Sub Regional/ Regional Office.
11. Industry shall only receive inert waste (Non-Hazardous Waste) from those industries which are allowed by the Board to dispose their inert waste in your facility by prescribing disposal path in the consent granted by the Board to the industry.
12. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

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.	28,51,972/-	070136	12.08.2015	HDFC Bank
2.	1,50,000/-	972283	17.09.2014	HDFC Bank
3.	100/-	241914	24.09.2014	HDFC Bank
4.	75,100/-	014943	24.03.2015	HDFC Bank
5.	41,64,646/-	070176	28.12.2015	HDFC Bank
6.	13,78,474/-	029160	16.02.2016	HDFC Bank
7.	The balance fees Rs. 33,97,908/-, with the Board as per consent granted vide dtd 28.08.2013 is considered during this renewal of consent.			

The balance fees Rs. 8,00,800/-, with the Board will be considered at the time of next renewal of consent.

Copy to:

1. Regional Officer, MPCB, Chandrapur. He is directed to forfeit BG of Rs. 5/- Lakhs from BG of Rs. 10/- Lakhs & also release BG's of Rs. 2/- Lakhs, 2/- Lakhs & Rs. 2/- Lakhs & release the existing BG of Rs. 5/- Lakhs obtained against submission of ETP, STP & APC respectively & obtain BG's as per Schedule-III.
2. Sub-Regional Officer, 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 550 CMD.

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	20
03	BOD (3 days 27oC)	100
04	Total Dissolved Solids	2100
05	Suspended Solids	100
06	COD	250
07	Chloride	600
08	Sulphate	1000

Condenser Cooling Water :

- | | |
|----------------------------|---|
| 1) pH | Between 6.5 to 8.5 |
| 2) Temperature | Not to exceed 5 Degree C.
Higher than the intake water temperature |
| 3) Free available Chlorine | Not to exceed 0.5mg/l |

II. Boiler Blowdown :

- | | |
|---------------------|------------------------|
| 1) Suspended Solids | Not to Exceed 100 mg/l |
| 2) Oil & Grease | Not to Exceed 20 mg/l |
| 3) Copper (Total) | Not to Exceed 1 mg/l |
| 4) Iron (Total) | Not to Exceed 1 mg/l |

Cooling Tower Blowdown :

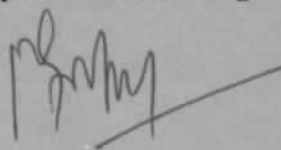
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|----------------------------|------------------------|
| 1) Free available Chlorine | Not to Exceed 0.5 mg/l |
| 2) Zinc | Not to Exceed 1 mg/l |
| 3) Chromium (Total) | Not to Exceed 0.2 mg/l |
| 4) Phosphate | Not to Exceed 5 mg/l |

IV. Ash Pond Effluent :

- | | |
|---------------------|------------------------|
| 1) pH | Between 6.5 to 8.5 |
| 2) Suspended Solids | Not to Exceed 100 mg/l |
| 3) Oil & Grease | Not to Exceed 10 mg/l |

C) The treated effluent shall be 100% recycled in the process to achieve zero discharge. In no case effluent shall find its way for gardening/outside factory premises.

2) A.] As per your consent application, you have provided the sewage treatment system with the design capacity of 1000 CMD.



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.

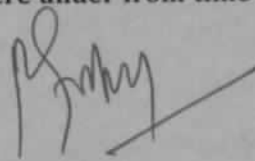
(1)	Suspended Solids.	Not to exceed	50	mg/l.
(2)	BOD 3 days 27oC.	Not to exceed	30	mg/l.
(3)	COD.	Not to exceed	100	mg/l.

C] The treated domestic effluent shall be 100% recycled for flushing, fire fighting, cooling etc.

- 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	8025
2.	Domestic purpose	1400
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	--
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	--

- 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-

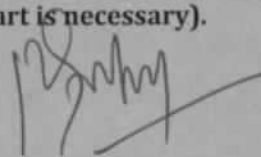
Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Raw mill & Kiln	Glass Bag House	100	Coal	1400 TPD	0.5	14000
2	CPP (Boilers 1- 5) Out of five boiler One boiler is always stand by.	ESP	70 each	Coal	1300	0.5	13000
				LDO is used during startup firing after shut down of boiler	4 KL/Day	1.8	142
3	D G Set I & II (Total Capacity 10 MW)	--	60 each	Furnace Oil	50KL/Day	2.0	200
4	Clinker Cooler	ESP	62	--	--	--	--
5	Coal Mill	Bag Filter	62	--	--	--	--
6	Cement Mill (1-5)	Bag Filter	35 each	--	--	--	--
7	Packers 1 - 6)	Bag Filter	30 each	--	--	--	--
8	Coal Crusher (I & II)	Bag Filter	28 each	--	--	--	--

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. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	50 mg/Nm ³
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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 History

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Amt of BG to be forfeited from BG imposed	Purpose of BG Forfeiture
1	C to R (Existing BG)	Rs. 10/- Lakhs	Rs. 5/- Lakhs	Operating Alternate Fuel Resource (AFR) plant without valid consent from the Board, etc.,

Proposed BG's to be obtained

Sr. No	Consent	Code	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	CeAO1a	2000000/-	15 days	To achieve consented standards from source emission	31.10.2020	28.02.2021
2	C to R	CeAO1b	500000/-	15 days	Fugitive emissions	31.10.2020	28.02.2021
3	C to R	CeAC4	100000/-	15 days	Submission of plans for NOx reduction in six months	31.10.2020	28.02.2021
4	C to R	CeHC1	10000/-	15 days	Industry to dispose Fly ash as per fly ash notification	31.10.2020	28.02.2021

Proposed BG's for Power Plant

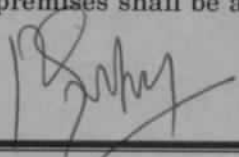
Sr. No.	BG Code	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
	PNC1			Handling and disposal of flyash		
1	PAO1	25/- Lakhs	15 Days	Towards Operation and Maintenance of Air Pollution Control Devices to achieve emission standards.	Monthly	28/02/2018
2	PWO1	5/- Lakhs	15 Days	Towards Operation & Maintenance of the Effluent Treatment Plant to achieve disposal standards.	Monthly	28/02/2018



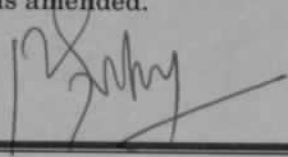
Schedule-IV

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) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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.
- 9) 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 Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 12) 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).
- 13) 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.
- 14) 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.
- 15) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.



- 16) 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.
- 17) 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
- 18) The industry should not cause any nuisance in surrounding area.
- 19) 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.
- 20) The applicant shall maintain good housekeeping.
- 21) 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.
- 22) 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.
- 23) 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.
- 24) 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.
- 25) 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).
- 26) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 27) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.



- 28) The applicant shall Operate online opacity meter/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.
- 29) The applicant shall Operate continuous automatic ambient air and micrometeorological monitoring station at location indicated by MPC Board to be set up and operate at its own cost for measurement of 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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A handwritten signature in black ink, appearing to be 'M. S. J. Singh', written over the separator line.