

# MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781  
/4037124/4035273  
Fax : 24044532/4024068 /4023516  
Email : enquiry@mpcb.gov.in  
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga  
Scheme Road No. 8, Opp. Cine Planet Cinema, Near  
Sion Circle, Sion (E),  
Mumbai - 400 022

Consent No: Format 1.0/ BO/CAC-Cell/EIC No:- CH-1673-14/CH-1674-14/CAC/CAc-12547-A  
Date- 14/08/2015

To,  
MANIKGARH CEMENT & MANIKGARH CEMENT UNIT - I & II  
(A unit of Century Textile & Industries Limited,)  
Gadchandur - 442 908, Tehsil-Korpana;  
Dist - Chandrapur

Subject: Consent to 1<sup>st</sup> Operate for Expansion & Renewal of existing Consent by amalgamation of consents under RED category.

- Ref : 1. Consent to Establish for Expansion of Cement Plant (Unit-II) granted vide letter no. BO/RO (P & P)/ EIC No. NG-1199/07/CC-258 dated 05/05/2008.
2. Consent to Establish for 60 MW Power Plant granted vide letter no. BO/JD (APC)/ EIC No. NG-5503-11/E/CC/CAC-775 dated 16/01/2013.
3. Renewal of consent granted vide No. BO/EIC No.CH-1672-14/CAC-CELL/CAC- 12547, dtd 30/12/2014
4. Minutes of CAC meeting held on 21.07.2015

Your application: CO1407000242 & CO1407000228  
Dated: 16.06.2014

For: Consent to 1<sup>st</sup> Operate for Expansion & Renewal of existing Consent 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:

- The consent is granted for a period up to 31/10/2017.
- The actual capital investment of the industry is Rs. 2244.72 Crs. (As per C. A. Certificate submitted by industry).
- The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity in MT/A
1	Cement (PPC) & Cement of various grades from unit-I & II	2.0 MMTPA (Existing unit) Expanded to 5.0 MMTPA
2	Electricity Generation	60 MW

- 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	1440 CMD	As per	Effluent from the power

			Schedule -I	plant after treatment used for fly ash wetting, development of green belt, dust suppression & fire hyd.
2.	Domestic effluent	1444 CMD	As per Schedule -I	The total domestic effluent from colony canteen & Factory after treatment is used in power plant cooling towers.

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.	CRUSHER	1	As per Schedule -II
2.	RAW MILL / KILN	1	As per Schedule -II
3.	COAL MILL	1	As per Schedule -II
4.	COOLER	1	As per Schedule -II
5.	CEMENT MILL - 1	1	As per Schedule -II
6.	CEMENT MILL - 2	1	As per Schedule -II
7.	CEMENT MILL - 3	1	As per Schedule -II
8.	PACKING PLANT	4	As per Schedule -II
<b>Unit-II</b>			
9.	CRUSHER	1	As per Schedule -II
10.	RAW MILL / KILN	1	As per Schedule -II
11.	COAL MILL	1	As per Schedule -II
12.	COOLER	1	As per Schedule -II
13.	CEMENT MILL - 1	1	As per Schedule -II
14.	CEMENT MILL - 2	1	As per Schedule -II
15.	CEMENT MILL - 3	1	As per Schedule -II
16.	PACKING PLANT	5	As per Schedule -II
<b>POWER PLANT (60 MW)</b>			
1.	Power Plant Stack	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	BOILER ASH	426.0 TON/DAY	---	RECYCLED IN CEMENT MANUFACTURING

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

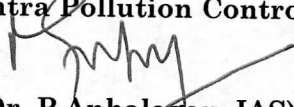
Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Used /Spent Oil	5.1	70.86	MT/Yr.		Sent to Authorised re-processor

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 is issued with overriding effect to earlier consent granted vide No. BO/EIC No.CH-1672-14/CAC-CELL/CAC- 12547, dtd 30/12/2014

10. 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.	92,34,000/-	025565	10/06/2014	State Bank of India
2.	14,72,000/-	025563	10/06/2014	State Bank of India
3.	100/-	025572	10/06/2014	State Bank of India
4.	15,00,000/-	025566	10/06/2014	State Bank of India
5.	100/-	025569	10/06/2014	State Bank of India
6.	Balance consent fees of Rs. 34,09,840 from consent granted vide dtd 30.12.2014 is considered during this Renewal.			

Copy to:

1. Regional Officer - Chandrapur and Sub - Regional Officer - Chandrapur MPCB, Chandrapur. They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. 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 1500 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)
	<b>I. Compulsory Parameters</b>	<b>Limiting Concentration in mg/l, except for pH</b>
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 :**

- 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. D. M. Plant Effluent :**

- 1) pH Between 5.5 to 9
- 2) BOD 3 days 27 Deg. C. Not to Exceed 30 mg/l
- 3) COD Not to Exceed 250 mg/l
- 4) Suspended Solids Not to Exceed 100 mg/l
- 5) Oil & Grease Not to Exceed 10 mg/l
- 6) TDS Not to Exceed 2100 mg/l

C) The treated effluent shall be recycled/reused to the maximum extent for cooling, ash quenching, ash slurry & dust suppression & remaining disposed on land for gardening/plantation purpose in the factory premises only.

2) A.] As per your consent application, you have provided the sewage treatment system with the design capacity of 2300 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.

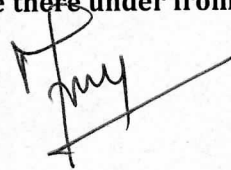
(1)	Suspended Solids.	Not to exceed	50	mg/l.
(2)	BOD 3 days 27oC.	Not to exceed	30	mg/l.
(3)	COD.	Not to exceed	100	mg/l.

C] The treated domestic effluent shall be recycled/reused in the process for cooling; dust suppression etc to the maximum extent and remaining shall be used on land for gardening.

- 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	7595
2.	Domestic purpose	2497
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-

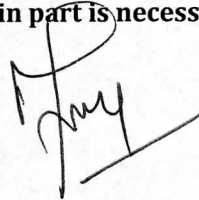
Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO <sub>2</sub> Kg/Day
1	CRUSHER	Bag House	19.5				
2	RAW MILL / KILN	ESP Hybrid Filter	80	Coal	740 Ton/Day	0.5 - 0.8	9000 Kg/Day
3	COAL MILL	Bag House	42				
4	COOLER	ESP	35				
5	CEMENT MILL - 1	Bag House	35				
6	CEMENT MILL - 2	ESP Hybrid Filter	35				
7	CEMENT MILL - 3	ESP Hybrid Filter	35				
8	PACKING PLANT	Bag House	19				
<b>Unit - II</b>							
9	CRUSHER	Bag House	19				
10	RAW MILL / KILN	RABH	110	Coal	1575 Ton/Day	0.5 - 0.8	25370 Kg/Day
11	COAL MILL	Bag House	42				
12	COOLER	ESP	35				
13	CEMENT MILL - 1	ESP Hybrid Filter	35				
14	CEMENT MILL - 2	ESP Hybrid Filter	35				
15	CEMENT MILL - 3	ESP Hybrid Filter	35				
16	PACKING PLANT	Bag House	35				
<b>POWER PLANT (60 MW)</b>							
17	CPP Boiler	ESP Hybrid Filter	100	Coal	1100 Ton/Day	0.3 - 0.5	12000 Kg/Day

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 <sup>3</sup> .
--------------------	---------------	-------------------------

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).
- Fugitive dust emissions from cement ball mill shall be collected in bag filters and recycled back to the process.
  - All the transfer points (including coal transfer point) should be provided with suction head and adequate APC system.
  - Industry shall use Sprinklers and road water sprinklers in raw material storage & Handling areas.
  - Concrete roads shall be provided and well maintained to prevent dust formation.
  - Industry shall provide Bag Filter as APC system to clinker, coal yard.
  - Space provision shall be made for installation of flue Gas De-Sulfurisation (FGD) system of requisite efficiency of removal of SO<sub>2</sub>, for future use as and when required.
6. 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.
7. 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**

**Existing BG's to be extended**

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	31/10/2017	28/02/2018
2	C to R	CeAO1b	500000/-	15 days	Fugitive emissions	31/10/2017	28/02/2018
3	C to R	CeAC4	100000/-	15 days	Submission of plans for NOx reduction in six months	31/10/2017	28/02/2018
4	C to R	CeHC1	10000/-	15 days	Industry to dispose Fly ash as per fly ash notification	31/10/2017	28/02/2018

**Proposed BG's for Power Plant**

Sr. No.	BG Code	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
	PNC1			<b>Handling and disposal of flyash</b>		
1	PNC1a	5/- Lakhs	15 Days	To switch over to 100% usable dry fly ash collection and storage	Continuous	28/02/2018
2	PNC1b	1/- Lakh	15 Days	Towards utilization of flyash as per flyash notification 1999.	Continuous	28/02/2018
3	PNC1c	1/- Lakh	15 Days	Towards Mitigation of seepages from wet fly ash conveying system	Continuous	28/02/2018
4	PNC1d	1/- Lakh	15 Days	Towards Scientific operation of ash pond i.e. uniform distribution of wet slurry in the pond so as to have minimum depth of water	Continuous	28/02/2018
5	PNC1e	1/- Lakh	15 Days	Towards Providing arrangement for reuse of 100% seepage water, arising from ash pond, for ash slurry	Continuous	28/02/2018
6	PNC1e	5/- Lakhs	15 Days	Towards Scientific closure of abandoned ash pond with soil cover and plantation over it	30.10.2015	28/02/2018
7	PAO1	25/- Lakhs	15 Days	Towards Operation and Maintenance of Air Pollution Control Devices to achieve emission standards.	Monthly	28/02/2018
8	PWO1	5/- Lakhs	15 Days	Towards Operation & Maintenance of the Effluent Treatment Plant to achieve disposal standards.	Monthly	28/02/2018



#### Schedule-IV

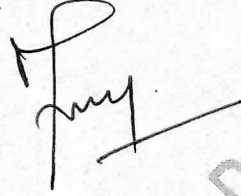
##### **General Conditions:**

- 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 if applicable.
- 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
- 9) /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.
- 10) 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 30<sup>th</sup> June of every year.
- 11) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 12) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 13) 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](http://www.mpcb.gov.in)).
- 14) 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.
- 15) 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.
- 16) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

- 17) 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.
- 18) 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
- 19) The industry should not cause any nuisance in surrounding area.
- 20) 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.
- 21) The applicant shall maintain good housekeeping.
- 22) 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 31<sup>st</sup> March of the year and number of trees planted by September end, with the Environment Statement.
- 23) 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.
- 24) 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.
- 25) 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.
- 26) 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).
- 27) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 28) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 29) The industry shall comply with the notification issued by MoEF for utilization of fly ash from coal or lignite based thermal power plants dated 14<sup>th</sup> September, 1999 and as amended on 3<sup>rd</sup> November, 2009.

- 30) 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
- 31) Transportation of coal & fly ash shall be by closed system, Conveyor system wherever possible.
- 32) 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.
- 33) The applicant shall operate 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 SO<sub>2</sub>, NO<sub>x</sub> and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

-----0000-----



Maharashtra Pollution Control Board