


# MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Consent No. BO/JD(WPC)/EIC No. CH-0675 -11/R/CC-**CAC-119**      Date: **03/01/2011**

Consent to Operate 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 / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundry Movement) Rules 2008

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

CONSENT is hereby granted to

M/s. Bilt Graphic Paper Products Ltd.,  
Unit Ballarpur, PO: Ballarpur,  
Dist. – Chandrapur.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. **The Consent to Operate is granted for a period up to: 31/07/2016.**
2. **The Consent is valid for the manufacture of –**

Sr. No.	Product Name	Maximum Quantity
1	Paper of all kinds	26750 MT/M (Based on Partly in house pulping & partly readymade pulp)
2	Chlorine	1075 MT/M
3	Caustic Soda	1200 MT/M
4	Chlorine Di- Oxide	120 MT/M
5	Hydrochloric Acid	800 MT/M
6	Calcium Hypochloride	400 MT/M
7	Sulphur Dioxide	37 MT/M
8	Lime	6000 MT/M

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent generated from above activity shall not exceed **43650 M<sup>3</sup>/Day**
- (ii) The daily quantity of sewage effluent from the co- generation unit shall not exceed **3000 M<sup>3</sup>/Day**.

**(iii) Trade Effluent :**

Treatment: The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

1	pH	Between	6.5 to 8.5
2	Suspended Solids	Not to exceed	100 mg/l
3	BOD 3 days 27 Deg. C	Not to exceed	25 mg/l
4	COD	Not to exceed	250 mg/l
5	Oil & Grease	Not to exceed	10 mg/l
6	T.D.S.	Not to exceed	2100 mg/l
7	Sulphide	Not to exceed	1 mg/l

8	Sulphates	Not to exceed	1000 mg/l
9	Residue Chlorine	Not to exceed	1 mg/l
10.	The Bio-assy test on fish shall show 90% survival in 96 Hrs.		

(iv) **Trade Effluent Disposal:** The treated effluent shall be reused / recycled to the maximum extent. The treated effluent conforming to the standards prescribed as above shall be used for bamboo washing, plantation/ irrigation activity to the extent possible and excess be discharged into the stream /river.

(v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

(1)	Suspended Solids	Not to exceed	100 mg/l.
(2)	BOD 3 days 27o C.	Not to exceed	100 mg/l.

(vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

(vii) **Non-Hazardous Solid Wastes:**

Sr. No.	Type Of Waste	Quantity	Disposal
1.	ETP Sludge	13680 TPA	By Sale
2.	Bamboo/Wood Dust	9000 TPA	By sale
3.	Lime Sludge	74000 TPA	Reprocessing in lime klin & residue 15% purging by land fill.
4.	Coal Ash	40 TPD	Sale to brick manufacturing

(viii) **Other Conditions:**

- Industry should monitor effluent quality regularly.
- Green belt a forestation shall be done upto 33% on available open space land.
- As the daily discharge of the domestic effluent is 3000 CMD, which is sizeble quantity, the industry should adopt the latest technologies like disinfection, ozonization, Reverse Osmosis etc. so that entire domestic effluent shall be recycled and reused to the maximum extent.

(ix) **CREP Conditions:**

Sr. No.	Large Pulp and paper	Implementation Schedule
1	Discharge of AOX Kg/Tonne of paper	AOX 1.5 Kg/T of paper within 2 years. AOX 1.0 Kg/T of paper in 5 years
2	Installation of Lime Kiln Waste water discharge cum/tonne of Paper.	Within 4 years < 140 cum/tonne of paper within 2 years. < 120 cum/tonne in 4 years.
3	Odour control by burning the reduced Sulphur emissions in the boiler / Lime kiln	Installation of odour control system within 4 years.
4	Utilization of treated effluent for irrigation	Utilization of treated effluent for irrigation wherever possible.
5	Colour removal from the effluent	Colour removal to be installed only for mills discharging effluent into surface water.



4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under

The daily water consumption for the following categories is as under:

(i) Domestic	...	4000.0	CMD
(ii) Industrial Processing	...	60000.0	CMD
(iii) Industrial Cooling /Boiler	...	3500.0	CMD
(iv) Agricultural/Gardening	...	----	CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribe form and pay the Cess as specified under Section 3 of the said Act.

5. **CONDITIONS UNDER AIR ACT:**

- (i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

**A) Control Equipment:**

- 1) Scrubber device shall be provided to chlorine feeling unit, pulp bleaching section, SO<sub>2</sub> Reactor.
- 2) ESP provided to recovery boiler and the arrangements provided for odour control system should operate properly.
- 3) In Lime Kiln section ESP provided should be operated properly.

**B) Standard for Emission of Air Pollutants**

(a) SPM	Not to Exceed	150 mg/Nm <sup>3</sup>
(b) SO <sub>2</sub>	Not to Exceed	5.2 T/Day
(c) HCL	Not to Exceed	35 mg/ Nm <sup>3</sup>
(d) Chlorine	Not to Exceed	3 PPM

(ii) The Applicant shall observe the following fuel pattern

<u>Sr No</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1	Black Liquor Solids	750 T/Day.
2	Furnace Oil	40 KL./Day.
3	Coal	100 T/day

(iii) The applicant shall erect the chimney(s) of the following specifications

<u>Sr No</u>	<u>Chimney Attached to</u>	<u>Height in Mtrs</u>
1	Recovery Boiler I & II	70
2	Lime Kiln	60

- (iii) The applicant shall provide ports in the chimney/(s) and facility such as ladder, platform etc for monitoring of 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 designed by numbers such as S-1, S-2 etc. and these shall be painted /displayed to facilities identification.

- (iv) 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.

**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. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
- d. 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.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. 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
- g. D.G. Set shall be operated only in case of power failure
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set

(vi) **Other Condition:**

- (a) Continuous monitoring system shall be installed for monitoring of SO<sub>2</sub> and SPM and result and results shall be submitted to the Board every fort night. The result for continuous monitoring done on daily basis shall be submitted after every 15 days to Regional Officer, Chandrapur with copy to The member Secretary, Mumbai in the event of difficulty in providing the continuous monitoring system, monitoring shall be done daily and results shall be submitted as stated above.
- (b) There shall not be any fugitive emissions.
- (c) The industry shall provide a separate meter showing the consumption of energy for operation of Domestic and Industrial treatment plants. The quarterly returns of the energy / consumption shall be submitted to the Board office under intimation to respective Regional and Sub Regional Officer on each 10<sup>th</sup> January, April, July and October.
- (d) The Industry shall provide continuous flow meter for the measurement of the flow of the effluent.
- (e) The Industry shall not cause any nuisance in surrounding area.
- (f) The Industry should monitor stack emissions and Ambient Air Quality regularly.

**6. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:**

- (i) The Industry shall handle hazardous wastes as specified below.

Sr. No.	Item No. as per Sche -I/II	Type of Waste	Quantity	Disposal
1.	5.1	Used Oil	55 Kg./Day	Sale to Authorized re-processor
2.	15.1	Asbestos containing gland packing and jointing sheets.	10 kg/Day.	CHWTSDF, Butibori, Nagpur



7. 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.

**8. Industry shall comply with following General conditions:**

- i. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
  - ii. Solid waste – 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 to dumping ground.
  - iii. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the applicant 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 & conditions of this consent regarding pollution levels.
  - iv. The applicant shall not change or alter 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.
  - v. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
  - vi. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
  - vii. The firm shall submit to this office, 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
  - ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
  - viii. The applicant shall install a separate electric 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.
  - xi. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection System.
  - xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
  - xiii. 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.
10. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the applicant.
11. The Industry shall comply with the hazardous Waste (Management, Handling & Trans Boundary Movement) Rules, 2008.
12. The applicant shall comply with CREP conditions.



11. Industry shall submit a road map in respect of the compliance of the following directions within 15 days to Regional Officer Chandrapur and Joint Director (Water Pollution Control) Mumbai and scrupulously follow the said time bound program for implementation of the following pollution control measures.

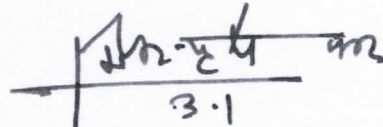
- a. Industry should provide adequate capacity garland drain with a collection tank around the lime dump, so as to collect any surface run-off /seepage or leachate for further treatment into the ETP and not to discharge anything into the local nalla on or before **31/05/2012**, for which, an irrevocable bank guarantee of **Rs.10 Lakhs** shall be renewed within 15 days, out of earlier bank guarantee of Rs.1 crore submitted by the unit.
- b. Industry should provide proper retaining walls or a grid of retaining walls in order to avoid sludge sliding and to develop a proper designated landfill site for non-hazardous lime sludge on or before **31/05/2012**, for which, an irrevocable bank guarantee of **Rs.5 Lakhs** shall be renewed within 15 days out of earlier bank guarantee of Rs.1 crore submitted by the unit.
- c. Industry should construct the compound wall of 3 to 4 m height on the back side of dump near Forest land and about 10 m buffer zone shall be maintained and garland drain shall be provided for arresting the run-off on or before **31/03/2012**, for which, an irrevocable bank guarantee of **Rs.10 Lakhs** shall be renewed within 15 days out of earlier bank guarantee of Rs.1 crore submitted by the unit.
- d. Industry should provide online continuous monitoring system for outlet of ETP and ambient emission more particularly for the parameters such as TOC, DO, pH in case of effluent etc. and ambient emissions like Metrological data, SO<sub>2</sub>, NO, NO<sub>2</sub>, NOX, SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, RSPM, Benzene, AOX (Absorbable Organic Halogen) etc. and also to do composite sampling once in a month to know the characteristics of the effluent & emissions through MoEF, GoI approved Laboratory, for which, an irrevocable bank guarantee of **Rs.10 Lakhs** shall be renewed within 15 days out of earlier bank guarantee of Rs.1 crore submitted by the unit.
- e. Industry should further reduce quantity of sludge generated from the activity from 30 MT by exploring the possibility of use in cement industries and also to reduce further the quantity of silica sludge by bringing it down to 15 MT within one year i.e. upto 31/12/2012 and to further reduce it to zero disposal on land within next 3 years i.e. upto 31/12/2014, for which, an irrevocable bank guarantee of **Rs.2 Lakhs** shall be renewed within 15 days out of earlier bank guarantee of Rs.1 crore submitted by the unit.
- f. Industry should provide sewage treatment plant and sewage diversion to ETP by installing pump at sewage collection pond upto ETP provided by you, for which, an irrevocable bank guarantee of **Rs.10 Lakhs** shall be renewed within 15 days out of earlier bank guarantee of Rs.1 crore submitted by the unit.
- g. Industry should provide proper slope covered with soil topic and vegetation cover, for which, an irrevocable bank guarantee of **Rs.3 Lakhs** shall be renewed within 15 days out of earlier bank guarantee of Rs.1 crore submitted by the unit.
- h. Industry should identify alternative location away from human habitation and to prepare proper design for landfill site for non-hazardous lime sludge, which shall be developed before 31/05/2012, for which, an irrevocable bank guarantee of **Rs.5 Lakhs** within 15 days shall be renewed out of earlier bank guarantee of Rs.1 crore submitted by the unit.
- i. Industry should complete & commission disc filter for recycling of paper machine effluent, for which, an irrevocable bank guarantee of **Rs.5 Lakhs**

shall be renewed within 15 days out of earlier bank guarantee of Rs.1 crore submitted by the unit.

- j. Utilization of treated effluent for irrigation and recycling purpose and achieving zero discharge to the Wardha River. The total industrial effluent generation is 43650 M3/Per day, out of which, 15% i.e. around 6000 M3/Per day is being recycled at present. It shall achieve the generation of effluent upto 26,000 M3/Per day after completion & commissioning of modernized plan fully, thereby, to achieve 50% recycle after commissioning of modern manufacturing plan within a period of one year, for which, an irrevocable bank guarantee of **Rs.25 Lakhs** shall be renewed within 15 days out of earlier bank guarantee of Rs.1 crore submitted by the unit.
- k. Industry shall achieve the colour removal from effluent, which is disposed off further for irrigation or into Wardha shall be decolorized, by providing proper colour removal system within 6 months i.e. upto 30/06/2012, for which, an irrevocable bank guarantee of **Rs.10 Lakhs** shall be renewed within 15 days out of earlier bank guarantee of Rs.1 crore submitted by the unit.
- l. Industry shall submit monthly progress report to the Regional Officer, MPCB, Chandrapur and M.S. MPCB.
- m. Industry shall replace all 11 old existing digester having manual control to be replaced with single continuous cooking digester after obtaining necessary permissions for the same within one year, for which, an irrevocable bank guarantee of **Rs.5 Lakhs** shall be renewed within 15 days out of earlier bank guarantee of Rs.1 crore submitted by the unit.

13. The Consent is issued pursuant to the decision of Consent Appraisal committee meeting held on 15/12/2011.

14. The Gross Capital investment of the Industry is Rs. 1439.41 Crores.

  
3.1  
(Milind Mhaikar, IAS)  
Member Secretary

To,

**M/s. Bilt Graphic Paper Products Ltd.,  
Unit Ballarpur, PO: Ballarpur,  
Dist. - Chandrapur.**

Copy to:

**RO- MPCB Chandrapur /SRO Chandrapur** – They are directed to ensure the compliance of the consent conditions.

CAO/Cess Branch/Master File

Received Consent fee of –

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	67,87,649/-	001349	30/05/2011	ICICI Bank
2	100/-	001350	30/05/2011	ICICI Bank
3	76,06,622/-	002402	28/12/2011	ICICI Bank

\* Consent fees received as per revised consent fees G.R. of Env't. Dept. GoM dated 25.8.2011