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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board
"ಪರಿಸರಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು – 560 001, ಕರ್ನಾಟಕ, ಭಾರತ
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ED 7/7/2010

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(This document contains**10** pages including annexure)

Combined Consent order No: PCB 531 HP1 08 /2010-11/273 Date: 07.07.2010

Consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act, 1974 and emissions under the Air (Prevention and Control of Pollution) Act, 1981.

Ref.: 1) Environmental Clearance vide letter No.J-11011/408/2006-IA.II(I), dated: 19.07.07 and its corrigendum dated: 12.05.2010.
2) Amendment to Combined consent order No.490, dated: 28.09.09, issued vide letter No. PCB/ 531/ HPI/08/09, dated: 07.04.2010.
3) Consent application filed by the industry for the period 2010-11 at Regional Office (Karwar) on 18.03.2010.
4) Inspection of the industry by the Regional Officer, Karwar on 04.03.10 & 19.03.10 and his report dated: 30.03.10.
5) Letter dated: 10.05.2010 from the industry.
6) Proceedings of the Consent Committee Meeting (CCM) held on 24.06.10.

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Consent is hereby granted under section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 (herein after referred as the Water Act and the Air Act respectively) and the Rules and Orders made there under and subject to the terms and conditions as detailed in the schedule annexed to this order.

Consent is granted to '**The Executive Director, M/s West Coast Paper Mills Ltd. P.B.No.5, Bangur Nagar, Dandeli. Uttara Kannada (Dist) – 581 325**', authorizing him to operate the industrial plant at '**Sy. No. 122 of Dandeli, Haliyala Tq. & Uttara Kannada District'** and to make discharge of effluents and emissions from the premises as mentioned above.

Discharge of effluents under the Water Act:

Sl. No	Description	Permitted Quantity of discharge	Place of discharge
1.	Domestic effluent	85,885 KLD	The combined (trade and Sewage) effluent from the industry and colony shall be treated in effluent treatment plant to the standards stipulated in **Annexure-I.** Treated effluent is permitted to discharge into Halmaddi Nallah leading to Kali River and to use balance 10% of the treated trade effluent on land for green belt.
2	Trade effluent		

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Discharge of air emissions under the Air Act from the following stacks etc.

Sl. No.	Description of chimney/outlet	Limits specified refer schedule
As per annexure II		

The consent is valid for the manufacture of:

Sl. No.	Products/activity	Maximum Capacity
1.	Manufacture of Paper, Paper Board & Duplex Board	3,20,000 MTPA
2.	Captive power Generation using FBC boiler	70.3 MW

THE CONSENT IS GRANTED FOR THE PERIOD FROM 01.07.2010 TO 30.06.2011.

For and on behalf of the
Karnataka State Pollution Control Board

SENIOR ENVIRONMENTAL OFFICER

To,
The Executive Director,
M/s West Coast Paper Mills Ltd.
P.B.No.5, Bangur Nagar, Dandeli,
Uttara Kannada (Dist) – 581 325.

SCHEDULE

TERMS AND CONDITIONS

(to accompany consent No. : PCB 531 HP1 08 /2010-11/293 Date: 27 JUL 2010

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

I. Quantity of the water use

The total water consumption shall not exceed **1,00,000 KLD**.

II. Treatment and disposal of trade and sewage effluent:

1. The discharge from the effluent treatment plants of the applicant shall pass through terminal manhole/manholes where from the Board shall be free to collect samples at any time in accordance with the provisions of the Act or Rules made there under.

2. The trade effluent and sewage effluent shall be treated combined in the effluent treatment plant to the standards stipulated in **Annexure-I.**

3. The applicant shall maintain flow measuring/recording devices for the effluent drains i.e. sewage effluent stream, pulp mill effluent stream, paper effluent stream and the final treated effluent drain at single point discharge. A record of daily effluent discharge shall be maintained.

4. The industry should provide alternate power supply to the ETP for its continuous operation of all the treatment units and related facilities.

5. To ensure consistent effluent quality and also to avoid shock loads on river, industry should operate one old aerated lagoon by operating the surface aerators already available.

6. The applicant shall exercise necessary control measures that may be required to ensure that the quality of river water and aquatic life and down stream users are not affected by any means due to discharge of treated effluent to the Kali River.

7. The applicant shall as far as practicable recycle the cooling tower water and shall not be discharged into river.

8. The industry shall provide flow meters for inflow and outflow of ETP and provide separate energy meter for ETP and record hourly readings in a log book for verification of inspecting officers.

9. The applicant shall ensure that the dissolved oxygen level in the treated effluent is boosted up so as to maintain minimum D.O. of 4 mg/l. or 40% of the saturation limit which ever higher to maintain the aquatic life in the River. If the D.O. in the river falls below 4 mg/l. at the down stream of the effluent discharges point, industry shall regulate its effluent discharge.

10. The industry shall take up performance study of ETP units and submit report.

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11. The industry shall submit an under taking with regards to commitment for utilizing treated effluent in the process to maximum extent.

III. Self Monitoring and Reporting by the industry

1. The applicant shall at his own cost get the treated trade effluent samples collected from the place specified in condition II (1) and analyze the same on a daily basis for the parameters indicated in **Annexure-I** stipulated and report submitted to the Regional Office, once in a month along with the water used, the waste water generated, treated, discharged etc. in a compiled statement, with statistical analysis in a graphical format.

2. The applicant shall once in 3 months analyse the influent and effluent for mercury.

3. The applicant shall conduct Bio-Assay test once in a month for evaluating toxicity of industrial effluent once in a month in accordance with IS 6582 – 1971. The test species selected being those which are predominant in Kali River. The report shall be furnished once in a month.

4. The applicant shall continue to maintain Bio-Monitoring unit at single point discharge with fish species predominant in the Kali River. Part of the treated effluent shall be made to pass through this unit. A separate log book shall be maintained by the industry in which the details of fish/finger lings introduced daily/weekly and the number of finger lings died and survived daily should be recorded and reports furnished to the Regional Office once in a month.

5. The applicant shall conduct the characterization of sludge generated for possible AOX & heavy metals and the characteristics of the benthic deposit/soil on the river bed down stream of discharge point at regular intervals depending on the flow condition in the river.

6. On line pH, DO, temperature and flow measurement devices provided at the single point discharge location shall be maintained in working condition and the data collected shall be computed.

B. WATER CESS

The applicant shall provide water meter at all the intake points as under Section (5) of Water Cess Act and shall file the Water Cess returns regularly and also pay the Cess Assessed with the time stipulated

B. AIR POLLUTION CONTROL:

C.

I. Emissions

1. The discharge of emissions from the premises of the applicant shall pass through the stacks/chimneys mentioned in **Annexure-II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The stacks/chimneys heights shall be as per **Annexure-II.**

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2. The hourly rate of emissions discharged and the tolerance limits of the constituents forming the emissions in each of the chimneys/stacks shall not exceed the limits laid down in **Annexure-II.**

3. The applicant shall operate the air pollution control equipment as specified in the **Annexure-II** continuously so as to ensure that the emission does not exceed the limits specified. The operation of the control equipment shall be synchronized with the operation of the emission source.

4. The applicant shall utilize the coal having maximum 0.8 % sulphur only.

II. Self Monitoring and Reporting

1. The applicant shall at his own cost get the samples of emissions collected and get them analyzed once a month for the parameters indicated in **Annexure-II.**

2. The applicant shall carryout the ambient air quality monitoring and submits the report to the Regional Office of the Board. The AAQM stations shall be carried out in all the established stations as per the requirement under the National Ambient Air Quality Monitoring Standards stipulated in Environmental (Protection) Rules, 1986. Monitoring shall include the parameters Viz., Suspended particulate matter, RSPM, Sulphur dioxide, Nitrogen Oxide, and H_2S. The industry shall furnish statistical analysis for annual average of pollutants at all the locations as per Ambient Air Quality standards Notification once in a year.

3. The applicant shall provide port holes for sampling the emissions, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder.

4. The applicant shall operate the air pollution control equipment as specified in the **Annexure-II** continuously so as to ensure that the emission does not exceed the limits specified.

5. All efforts shall be made to control fugitive emissions.

D. ENVIRONMENTAL STATEMENT

The applicant shall submit the Environmental Statement every year for the period ending 31st March in Form V of Rule as per Rule 14 of Environment (Protection) Rules, 1986 on or before 30th September.

E. HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008

The applicant shall comply with the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008.

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F. SOLID WASTE MANAGEMENT

1. The solid waste collected in the Factory premises as sweepings, wastage packaging, empty containers, residue, sludge including those from air pollution control equipments shall be disposed off scientifically to the satisfaction of the Board so as not to cause fugitive emissions, dust problems or water pollution problems through leaching etc., of any kind.

2. The industry shall handle sludge from Andritz machine in a mechanized way to avoid spillages and water pollution.

3. The applicant shall take action to periodically clean the River near confluence point and down stream to avoid lots of solids discharged with the effluent which were found floating in River near confluence point.

12. The house keeping in ETP area needs to be improved.

13. The sludge filled in the existing polishing pond has to be removed.

G. FLY ASH MANAGEMENT

1. Applicant shall utilize the fly ash as per Government of India Notification No.SO 763 (E), dated 14.9.1999 and No.SO 979 (E), dated 27.8.2003.

2. The applicant shall take all necessary measures so as to avoid public complaints with respect to unscientific disposal of fly ash in low lying areas.

3. The applicant shall prepare & submit comprehensive fly ash management plan within 15 days and to submit monthly compliance report to the Board as well as Regional office, Karwar.

3. The applicant shall maintain a log book for fly ash generation and disposal.

H. NOISE POLLUTION CONTROL

1. The applicant shall comply with the ambient noise standards as stipulated under the EP rule, 1986.

2. The applicant shall provide acoustic measures to the DG Sets as per Sl. No. 94 in Schedule-I of EP Rules.

I. GENERAL

1. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.

SENIOR ENVIRONMENTAL OFFICER

2. This consent for discharging sewage and/or trade effluents from the factory shall not be taken or construed as the Board's permission to continue to discharge the sewage and/or trade effluents from the factory into the place (as mentioned in this consent Order) which pollutes the water there-in endangering the life and property of the persons using the said water before, during or after the periods indicated in the terms and conditions of this consent order

3. The applicant shall not change or alter either the quality or quantity or rate of emission or install/replace or alter the air pollution control equipment, change in raw material or manufacturing process resulting in change in quality and/or quantity of emissions without the prior permission of the Board

4. The industry shall not change or alter (a) raw materials or manufacturing process, (b) change the products or product mix (c) the quality, quantity or rate of discharge/ emissions and (d) install/replace/alter the water or air pollution control equipments without the prior approval of the Board.

5. The applicant shall promptly comply with all orders and instructions issued from time to time by the Board or any other officers of the Board duly authorized in this behalf.

6. The Applicant shall forthwith keep the Board informed of any accidental discharge of emissions/effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact

7. The applicant shall not store any raw materials/ chemicals drums on naked ground.

8. The applicant shall display flow diagram of the pollution control system at the site.

9. The applicant shall appoint a qualified environmental engineer/scientist for environment management in the factory and also establish an environmental cell.

10. The applicant shall maintain the Environmental Management System in conformity with ISO 14001:2004 standards.

11. The applicant shall comply with the guidelines under Corporate Responsibilities for Environment protection 2003 (CREP) issued by Ministry of Environmental Forests and CPCB.

12. The applicant shall continue the self monitoring system for monitoring the effluents and emissions.

13. The applicant shall maintain register recording the ambient air quality, stack monitoring and analysis report of treated effluents. The register shall be open for inspection by the Board Officers at all time.

14. An inspection Book shall be opened and made available to the Board Officers during their visit to the factory.

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15. The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments utilized by the applicant to maintain compliance with the terms and conditions of this consent.

16. The entire premises shall be always kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should made easily approachable.

17. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.

18. The applicant his heirs, legal representatives or assigns shall have no claims what so ever to the continuation or renewal of this consent after expiry of the period of consent.

19. The industry shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.

20. The applicant shall plant and maintain adequate number of trees in and around the industry to arrest the dust emissions escaping into the surrounding area and improve the environment and aesthetic appearance of the industry and the surrounding.

21. Audited balance sheet of the industry, M/s. West Coast Paper Mills Ltd., Dandeli for the financial year ending with 31.03.2009 has to be furnished.

22. Factory authorities shall workout methods for utilizing the treated effluents for irrigation/ in forest area on top priority, as the flow in Kali river during summer will be lean.

23. The applicant shall make an application for consent at least 120 days before expiry of this consent.

24. Industry shall comply with all the consent conditions and furnish report within 30 days to the Regional Office.

For and on behalf of the
Karnataka State Pollution Control Board

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ANNEXURE – I

STANDARDS FOR DISCHARGING THE TREATED COMBINED EFFLUENT TO HALMADDI HALLA LEADING TO KALI RIVER.

Sl. No.	Parameters	Tolerance limits not to exceed
1	Colour and Odour.	See Note.
2	pH value.	7 to 8.5
3	Bio-chemical Oxygen Demand, mg/l. (3 days at 27°C) max.	30
4	Chemical Oxygen Demand, mg/l Max.	250
5	Suspended Solids mg/l.Max.	50
6	Oil and Grease mg/l. Max.	10
7	Chloride (as Cl.) Mg/l. Max.	350
8	Sulphate (as SO_4) mg/l. max.	1000
9	Sulphide, mg/l Max.	2
10	Total Residual Chlorine mg/l Max.	1
11	Ammonical Nitrogen.mg/l, Max.	50
12	Total Kjeldal Nitrogen, mg/l Max.	100
13	Free Ammonia, mg/l Max.	5.0
14	Dissolved Phosphate, mg/l Max.	5.0
15	Total Dissolved Solids (Inorganic) mg/l. Max.	2100
16	AOx, kg/ton of product	< 1.0

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ANNEXURE-II

Chimney	Chimney attached to	Minimum chimney height to be provided above ground level /roof level (AGL/ARL)	Rate of emission $Nm^3/Hr.$	Constituents to be controlled in the emission	Tolerance limits Mg/Nm^3	Air pollution control equipment to be installed, in addition to chimney height as per col.(3)
1	2	3	4	5	6	7
1	Chemical Recovery Boiler-I (500 TPD, BHEL Boiler)	60 m AGL	1,25,000	Particulate H_2S	150 10	Electrostatic precipitator (ESP)
2	Rotary Lime Kiln-I (135 TPD)	51 m AGL	20,000	Particulate	150	ESP
3	Smelt Dissolving Vent	43 m AGL	6,500	Particulate	150	-
4	Chlorine vent	29.6 m AGL	2,500	Chlorine	15	-
5	Boiler 1 & 2	40 m AGL	60,000	Particulate	150	Multi Cyclone
6	FBC Boiler-I (60 TPH) (Fluidised Bed Combustion)	55 m AGL	92,000	Particulate	150	ESP
7	FBC Boiler - II (65 TPH)	68 m AGL	123,912	Particulate	150	ESP
8	FBC Boiler -III (80 TPH)	85 m AGL	-	Particulate	50	ESP
9	DG Set of 3.8 MW	52 mtrs.	55,000	SO_2	-	Chimney and Acoustic measures
10	DG set of 4.0 MW	52 mtrs.	55,000	SO_2	-	Chimney and Acoustic measures
11	DG Set 4.04 MW	52 mtrs	55,000	SO_2	-	Chimney and Acoustic measures
12	Chemical Recovery Boiler-II (500 TPD)	85 m	2,25,720	Particulate matter H_2S	150 10	ESP
13	Rotary lime mud re-burning kiln-II (135 TPD)	55 m	39,600	Particulate matter	150	ESP
14	F.B.C Boiler-IV- 80 TPH	85 m	1,44,108	Particulate matter	150	ESP
15	Smelt Dissolving vent	63.11 m	-	Particulate matter	150	ESP

Note:

1) The Noise level shall not exceed 75 dB (A) Leq during day time and 70 dB (A) Leq. During night time.
2) Low NOx burners shall be installed for Boilers.
3) Dust suppression system shall be provided to coal yard.
4) The industry shall use Coal with Sulphur Content not more than 0.8%.

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