



**PUNJAB POLLUTION CONTROL BOARD**  
Invest Punjab, PBIP, Udyog Bhawan, Sector 17, Chandigarh  
Website:- www.ppcb.gov.in



Office Dispatch No.: PBIP | PPCB | 2025 | 3520

Date: 20-06-2025

✓ To

**PAVAN KHAITAN**  
47, SECTOR 4  
CHANDIGARH, NULL - 160001

**Subject:- Grant Varied 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981 for discharge of emissions arising out of premises.**

With reference to your application for obtaining Varied 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are, hereby, authorized to operate an industrial unit for discharge of the emission(s) arising out of your premises subject to the Terms and Conditions as mentioned in this Certificate.

**1. Particulars of Consent to Operate under Air Act, 1981 granted to the Industry:**

PIN	250340549
Application No.:	2505389610
Date of Issue:	20-Jun-2025
Date of Expiry:	31-Mar-2027
Certificate Type:	Varied
Certificate No:	CTOAN/Varied/PBIP/HSP/2025/2505389610

**2. Particulars of the Industry:**

Name & Designation of the Applicant:	Pavan Khaitan, (Managing Director)
Name of Business Entity	Kuantum Papers Ltd.
Name of the Project/Unit:	Kuantum Papers Ltd.
Address of Project/Unit:	Village Saila Khurd, Chandigarh Road , Garhshankar , Hoshiarpur
Capital Investment of the Industry(in lakhs):	146281.81
Category of Industry:	Red
Type of Industry:	1059 - Pulp & Paper ( Large-Agro +wood ) , Small Pulp & Paper ( agro based-wheat straw/rice husk)
Scale of the Industry:	Large - > Rs. 50 Crore
Office District:	Hoshiarpur
Consent Fee Details:	Rs. 28,80,000/- vide UTR No. SBINR12023011125733316 dated 11.01.2023
Raw Materials (Name with quantity per day):	Agro Residue @ 413 MTD, Woody Raw Material @ 500 MTD, Purchased Pulp @ 93 MTD, Fillers and Additives @ 91 MTD, Cooking Chemical (White Liquor) @ 130 MTD, Sodium Chlorate for Chlorine dioxide Plant @ 13 MTD, Methanol for Chlorine dioxide Plant @ 1.5 MTD, Sulphuric Acid @ 12 MTD, Caustic for ODL and EP Bleaching @ 17

	MTD, Sulphur Dioxide @ 1 MTD, Sulphur for Sulphur dioxide Plant @ 0.5 MTD, Oxygen @ 8.6 MTD, Hydrogen Peroxide @ 5 MTD, Modified Starch for Paper Making @ 20 MTD, Chlorine dioxide @ 8 MTD
Products (Name with quantity per day):	Writing and Printing Paper @ 540 Metric Tonnes/Day, Captive @ 28 Megawatt, Co-Generation Power @ 10 Megawatt, Conventional Chemical Recovery (CRP) for Black Liquor to White Liquor Recovery @ 580 Metric Tonnes/Day
By Products, if any (Name with quantity per day) :	White Liquor (as Na <sub>2</sub> O) @ 130 MTD, Soda Ash @ 35 MTD, Lignin @ 25 MTD, Calcium Oxide @ 125 MTD, Precipitated Calcium Carbonate Slurry @ 69 MTD, Sodium Sulphate @ 8 MTD, ETP Waste Fibre (BD) for Board Making & Selling @ 22 MTD
Details of the machinery and processes:	As per application form
Sources of emissions and type of pollutants:	Boilers: 1) Power Boiler of capacity 130 TPH - SPM, 2) Power Boiler of capacity 60 TPH - SPM, 3) Recovery Boiler of capacity 65 TPH - SPM, 4) Recovery Boiler of capacity 21 TPH - SPM, DG Sets: 04 DG sets of capacities 2x160 KVA, 1x50 KVA & 1x30 KVA - SPM/SO <sub>x</sub> /NO <sub>x</sub>
Mode of disposal of emissions with stack height:	Boilers: 1) Power Boiler of capacity 130 TPH - 80m AGL, 2) Power Boiler of capacity 60 TPH - 34m AGL, 3) Recovery Boiler of capacity 65 TPH - 75m AGL, 4) Recovery Boiler of capacity 21 TPH - 70m AGL, DG Sets: 04 DG sets of capacities 2x160 KVA, 1x50 KVA & 1x30 KVA - Stack of height as per following formula: $H = h + 0.2 (KVA)^{0.5}$ where $h$ = height of the building in meters where the generator set is installed
Quantity of fuel required in TPD:	Boilers: 1) Power Boiler of capacity 130 TPH - Coal & Rice Husk, 2) Power Boiler of capacity 60 TPH - Rice Husk, 3) Recovery Boiler of capacity 65 TPH - Black Liquor, 4) Recovery Boiler of capacity 21 TPH - Black Liquor, DG Sets: 04 DG sets of capacities 2x160 KVA, 1x50 KVA & 1x30 KVA - HSD Only
Type of Air Pollution Control Devices to be installed:	Boilers: 1) Power Boiler of capacity 130 TPH - Electrostatic Precipitator, 2) Power Boiler of capacity 60 TPH - Electrostatic Precipitator, 3) Recovery Boiler of capacity 65 TPH - Electrostatic Precipitator, 4) Recovery Boiler of capacity 21 TPH - Electrostatic Precipitator, DG Sets: 04 DG sets of capacities 2x160 KVA, 1x50 KVA & 1x30 KVA - Canopies provided with each DG sets
Standard to be achieved under Air(Prevention & Control of Pollution) Act, 1981:	As per emission standards prescribed by the CPCB/MoEF&CC/PPCB, from time to time

  
 20/06/2025


**Senior Environmental Engineer (PBIP)**  
 for & on behalf of  
**Chief Environmental Engineer (PBIP)**

Endst. No.

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

1. Senior Environmental Engineer, Zonal Office, Jalandhar.
2. Environmental Engineer, Regional Office, Hoshiarpur.

  
**Senior Environmental Engineer (PBIP)**  
for & on behalf of  
**Chief Environmental Engineer (PBIP)**

## A. GENERAL CONDITIONS

1. This consent is not valid for getting power load from the Punjab State Power Corporation Ltd. or for getting loan from the financial institutions.
2. The industry shall apply for renewal /extension of consent at least two months before expiry of the consent
3. The industry shall not violate any of the norms prescribed under the Air (Prevention & Control of Pollution) Act, 1981, failing which, the consent shall be cancelled / revoked.
4. The achievement of adequacy and efficiency of the air pollution control devices installed shall be the entire responsibility of the industry
5. The authorized fuel being used shall not be changed without the prior written permission of the Board
6. The industry shall not discharge any fugitive emissions. All gases shall be emitted through a stack of suitable height, as per the norms fixed by the Board from time to time.
7. The industry shall provide port-holes, platforms and/or other necessary facilities as may be required for collecting samples of emissions from any chimney, flue or duct or any other outlets.

### Specifications of the port-holes shall be as under:

- i) The sampling ports shall be provided atleast 8 times chimney diameter downstream and 2 times upstream from the flow disturbance. For a rectangular cross section the equivalent diameter ( $D_e$ ) shall be calculated from the following equation to determine upstream, downstream distance:-

$$D_e = 2 LW / (L+W)$$

Where L= length in mts. W= Width in mts.

- ii) The sampling port shall be 7 to 10 cm in diameter

8. The industry shall put display Board indicating environmental data in the prescribed format at the main entrance gate.
9. The industry shall discharge all gases through a stack of minimum height as specified in the following standards laid down by the Board

### (i) Stack height for boiler plants

S.No.	Boiler with Steam Generating Capacity	Stack heights
1	Less than 2 ton/hr	9 meters or 2.5 times the height of neighboring building which ever is more
2	More than 2 ton/hr to 5 ton/hr	12 meters
3	More than 5 ton/hr to 10 ton/hr	15 meters
4	More than 10 ton/hr to 15 ton/hr	18 meters
5	More than 15 ton/hr to 20 ton/hr	21 meters
6	More than 20 ton/hr to 25 ton/hr	24 meters
7	More than 25 ton/hr to 30 ton/hr	27 meters
8	More than 30 ton/hr	30 meters or using the formula $H = 14 Q_g^{0.3}$ or $H = 74 (Q_p)^{0.24}$ Where $Q_g$ = Quantity of SO <sub>2</sub> in Kg/hr. $Q_p$ = Quantity of particulate matter in Ton/day.

**Note : Minimum Stack height in all cases shall be 9.0 mtr. or as calculated from relevant formula whichever is more.**

**(ii) For industrial furnaces and kilns, the criteria for selection of stack height would be based on fuel used for the corresponding steam generation.**

**(iii) Stack height for diesel generating sets:**

Capacity of diesel generating set		Height of the Stack
0-50 KVA	Height of the building	+ 1.5 mt
50-100 KVA	-do-	+ 2.0 mt
100-150 KVA	-do-	+ 2.5 mt
150-200 KVA	-do-	+ 3.0 mt
200-250 KVA	-do-	+ 3.5 mt
250-300 KVA	-do-	+ 3.5 mt

**For higher KVA rating stack height H (in meter) shall be worked out according to the formula:**

$$H = h + 0.2 (KVA)^{0.5}$$

where h = height of the building in meters where the generator set is installed.

10. The pollution control devices shall be interlocked with the manufacturing process of the industry to ensure its regular operation.

11. The existing pollution control equipment shall be altered or replaced in accordance with the directions of the Board, and no pollution control equipment or chimney shall be altered or as the case may be erected or reerected except with the prior approval of the Board

12. The industry will provide canopy and adequate stack with the D.G sets so as to comply with the provision of notification No GSR-371 E dated 17-5-2002(amended from time to time) issued by MOEF under Environment (Protection) Act, 1986.

13. The Govt. of Punjab, Department of Science, Technology & Environment vide its notification no.4/46/92- 3ST/2839 dt. 29/12/1993 has put prohibition on the use of rice husk as fuel after 1.4.1995 except the following:-

(i) In the form of briquettes and use of rice husk in fluidized bed combustion. So the industry shall make the necessary arrangement to comply with the above notificatio

14. The industry shall submit balance sheet of every financial year to the concerned Regional Office by 30th June of every year

15. That the industry shall submit a yearly certificate to the effect that no addition / up-gradation/ modification/ modernization has been carried out during the previous year otherwise the industry shall apply for the varied consent

16. a) The industry shall ensure that at any time the emission do not exceed the prescribed emissions standards laid down by the Board from time to time for such type of industry /emissions.

b) The industry shall ensure that the emissions from each stack shall conform to the following emission standards laid down by the Board in respect of the Industrial Boilers.

**Steam Generating capacity A****Required particulate matter B**

Area upto 5 Km from Other than the periphery of I and Class-II town	Other than A class	
Less than 2 ton/hr	800 mg/NM3	1200 mg/NM3
2 ton to 10 ton/hr	500 mg/NM3	1000 mg/NM3
Above 10 ton to 15 ton/hr	350 mg/NM3	500 mg/NM3
Above 15 ton/hr	150 mg/NM3	150 mg/NM3

All emissions normalized to 12% carbon dioxide.

17. The industry shall ensure that the Hazardous Wastes generated from the premises are handled as per the provisions of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, without any adverse effect on the environment, in any manner.

18. The air pollution control equipments shall be kept at all time in good running condition and.

(i). All failures of control equipments.

(ii). The emissions of any air pollutant into the atmosphere in excess of the standards lay down by the Board occurring or being apprehended to occur due to accident or other unforeseen act or event. Shall be intimated through fax to the concerned Regional Office as well as to the Director of Factories, Punjab, Chandigarh as required under rule 10 of the Punjab State Board for the Prevention and Control of Air Pollution Rules, 1983'.

19. The industry shall plant minimum of three suitable varieties of trees at the density of not less than 1000 trees per hectare all along the boundary of the industrial premises

20. The industry shall submit a site emergency plan approved by the Chief Inspector of Factories, Punjab as applicable.

21. The industry shall comply with the conditions imposed by the SEIAA/MOEF in the Environmental Clearance granted to it as required under EIA notification dated 14/9/06, if applicable.

22. The industry shall make necessary arrangements for the monitoring of stack emissions and shall get its emissions analyzed from lab approved / authorized by the Board:-

(i) Once in Year for Small Scale Industries.

(ii) Twice/thrice/four time in a Year for Large/Medium Scale Industries

23. The industry shall maintain the following record to the satisfaction of the Board :-

(i) Log books for running of air pollution control devices or pumps/motors used for it.

(ii) Register showing the result of various tests conducted by the industry for monitoring of stack emissions and ambient air

(iii) Register showing the stock of absorbents and other chemicals to be used for scrubbers.

24. The industry will install the separate energy meter for running pollution control devices and shall maintain record with respect to operation of air pollution control device so as to the satisfy the Board regarding the regular operation of air pollution control device and monthly reading / record may be sent to the Board by the fifth of the following month.

25. The industry shall provide online monitoring system as applicable, for in stack emission and shall maintain the record of the same for inspection of the Board Officers.

26. The Board reserves the right to revoke the consent granted to the industry at any time, in case the industry is found violating the provisions of Air (Prevention & Control of Pollution) Act, 1981 as amended from time to time.

27. The industry shall comply with any other conditions laid down or directions issued in due course by the Board under the provisions of the Air (Prevention & Control of Pollution) Act, 1981.
28. Nothing in this consent shall be deemed to neither preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities or penalties to which the applicant is or may be subjected to under this or any other Act.
29. Any amendments/revisions made by the Board/CPCB/MOEF in the emission/stack height standards shall be applicable to the industry from the date of such amendments/revisions
30. The industry shall dispose off its solid waste generated by the burning of fuel in an Environmentally Sound Manner within the premises/outside as approved by the Board, to avoid public nuisance and air pollution problem in the area.
31. The industry shall ensure that no air pollution problem or public nuisance is created in the area due to the discharge of emissions from the industry.
32. The industry shall provide adequate arrangement for fighting the accidental leakage/discharge of any air pollutant/gas/ liquids from the vessels, mechanical equipment's etc, which are likely to cause environmental pollution.
33. The industry shall not change or alter the manufacturing process(es) and fuel so as to change the quality/quantity of emissions generated without the prior permission of the Board.
34. The industry shall earmark a land within their premises for disposal of boiler ash in an environmentally sound manner, and / or the industry shall make necessary arrangements for proper disposal of fuel ash in a scientific manner and shall maintain proper record for the same, if applicable
35. The industry shall obtain and submit Insurance cover under the Public Liability Insurance Act, 1991.
36. The industry shall provide proper and adequate air pollution control arrangements for control emission from its fuel handling area, if applicable.
37. The industry shall comply with the code of practice as notified by the Government/Board for the type of industries where the siting guidelines / Code of Practice have been notified.
38. The industry shall not cause any nuisance/traffic hazard in vicinity of the area.
39. The industry shall ensure that the noise & air emission from D.G. sets do not exceed the standards prescribed for D.G. sets by the Ministry of Environment & Forests, New Delhi.
40. The industry shall ensure that there will not be significant visible dust emissions beyond the property line
41. The industry shall provide adequate and appropriate air pollution control devices to contain emissions from handling, transportation and processing of raw material & product of the industry.
42. The Industry shall ensure that its production capacity does not exceed the capacity mentioned in the consent and shall not carry out any expansion without the prior permission / NOC of the Board.

- 3 -

**Senior Environmental Engineer (PBIP)**  
for & on behalf of  
**Chief Environmental Engineer (PBIP)**

## B. SPECIAL CONDITIONS

1. This consent to operate is granted for the production of Writing and Printing Paper @ 540 Metric Tonnes/Day, Captive @ 28 Megawatt, Co-Generation Power @ 10 Megawatt, Agro Pulp @ 165 Metric Tonnes/Day, Hardwood Pulp @ 200 Metric Tonnes/Day, Conventional Chemical Recovery (CRP) for Black Liquor to White Liquor Recovery @ 580 Metric Tonnes/Day, only.
2. The industry shall comply conditions of Environmental Clearance granted to the industry dated 14.06.2017.
3. The industry shall also comply with conditions of No Increase in Pollution Load issued to it vide letter no. 1036-39 dated 12.03.2025 by the Board.
4. The record of the ETP sludge used for making in-house paper board and for selling to authorized board manufacturing units to be maintained. The same to be used only after obtaining and as per authorization granted by the Board.
5. Entire Black Liquor Solids will be distributed into all three process namely Conventional Chemical Recovery (CRP) for white liquor recovery, Soda Ash Recovery and Lignin Recovery.
6. The industry shall operate its Air Pollution Control Device (APCD) regularly and efficiently and shall maintain record regarding operation of the same.
7. The industry shall ensure that the emissions from each stack shall conform to the emission standards laid down by the Board from time to time.
8. The industry shall ensure that no black smoke shall be emitted from the stack of the industry at any time.
9. The industry shall not use any un-authorized fuel and shall use fuel only for which consent is granted by the Board.
10. The industry shall not install any additional boiler / furnace without the prior written permission of the Board.
11. The industry will stick to the production capacity viz-a-viz air polluting machinery mentioned in this consent and will not increase the same without the prior written permission of the Board.
12. The industry shall comply with the instructions issued by the Board vide office order no. Admn./SA-2/F.No.783/ 2010/448 dated 8/6/2010 regarding DG sets.
13. The industry shall not use any un-authorized fuel and shall use fuel only for which consent is granted by the Board.
14. The industry shall not make any expansion without prior permission of the Board.
15. The industry shall not throw, burn or bury any solid wastes in open, outside premises or in drain / water bodies.
16. The industry shall promote use of alternatives of single use plastics (SUP) and awareness to discourage use of plastic, through their Corporate Environment Responsibility (CER) activities.
17. The industry shall ensure that there are no usages of single use plastic- thermocol disposable items such as water bottles / water pouches/water cups, plates, forks, spoons, straw etc. and single use decorating material made of plastic-thermocol or any other non-biodegradable material in the premises.
18. The industry shall comply with the provisions of Plastic Waste Management Rules, 2016.
19. The industry shall comply with the provisions of Noise Pollution (Regulation & Control) Rules, 2000.
20. The industry shall comply with the provisions of Solid Waste Management Rules, 2016.
21. The industry shall comply with the provisions of Hazardous Waste Management Rules, 2016
22. The adequacy/ efficacy of the pollution control arrangements shall be the sole responsibility of the industry and the industry shall be bound to implement/ upgrade its pollution control arrangements as per the discretion of the Board to achieve the prescribed emission/ effluent standards, as amended from time to time.

23. The industry shall ensure that the activities of unit does not create any nuisance in the surrounding areas and no public complaints are received.

24. The Consent is being issued to the industry based upon the documents/ information submitted by it along with the online application form. The Board would be at liberty to take penal action against the industry and its responsible/ concerned person(s) in case information/document is detected as incorrect/false/misleading at any point of time.

25. In case the industry fails to comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environment (Protection) Act, 1986 and/or any other environmental law applicable to the project and Rules, Circulars & Directions issued by the Board from time to time, action as deemed fit shall be taken against the industry.

- 80 -

**Senior Environmental Engineer (PBIP)**  
for & on behalf of  
**Chief Environmental Engineer (PBIP)**