

बैंक नोट पेपर मिल इण्डिया प्रा. लिमिटेड BANK NOT€ PAPER MILL INDIA PRIVATE LIMITED

(A JV of SPMCIL-A Govt. of India Enterprise and BRBNMPL - A Subsidiary of RBI)

CIN: U21090KA2010PTC055475

BNPM No. 86 /(S) 02.01.06/2020-21 July 8th, 2020

The Chief Conservator of Forests (Central), Ministry of Environment, Forest & climate Change Regional Office (Southern Zone) 4th Floor, E&F Wings, Kendriya Sadan, 17th Main, II Block, Kormangala, Bangalore – 560 034

Kind Attn: Dr. U. Sridharan, Scientist "G" / Director

Sub: Compliance Report (for the period October 2019 -March 2020)

Dear Sir,

Please find herewith the attached compliance report for the period of October 2019 to March 2020.

This is for your kind information and records.

Yours faithfully,

(Abdul Anief)

Assistant General Manager

Encl:

1. Compliance report

2. Ambient Air & stack monitoring reports (monthly basis)

MoEF COMPLIANCE REPORT

16,000 TPA Bank Note Paper Mill located at village Note Mudran Nagar, Mysore in Karnataka by M/s. Bank Note Paper Mill (India) Private Limited, - Environmental Clearance under clause 7(ii) of EIA notification 2006 – Approval accorded by MOEF vide Letter No. J-11011/239/2010 IA-II (I) dated May 01, 2018

Sl No	Clause No.(EC)	Description	Compliance
1	15 (i)	The greenbelt shall be developed in 13.65 Acres which is equivalent to 33% of the project area. Since 8.5 acres developed in the project premises, the PP shall develop greenbelt in remaining area in the adjoining area of the project. The greenbelt shall be developed with broad leaved and native tree species.	BNPM total land area is 36.216 acres, accordingly 12 acres of land is required to develop as green belt, which is equivalent to 33% of entire BNPM area. BNPM has already developed green belt of area 15acres and 1Gunta within the allotted land. Which is about 41.5% of the area is covered in Green belt.
2	15 (ii)	No change in the scope of the project shall be made without prior approval of the ministry.	Noted for compliance
3	15(iii)	All the conditions prescribed in the environmental clearance letter No. F. No. J-11011/239/2010 IA-II (I) dated 29 th April, 2011 shall be strictly complied with.	Point wise compliance to previous environmental clearance is given below
			THE COMPANY STREET STREET, AND ADDRESS OF THE PARTY OF TH
		Compliance to Environmental clearance letter No. F. No. J-	11011/239/2010 IA-II (I) dated 29 th April, 2011
4	A (i)	Environmental clearance is subject to obtaining clearance under the wildlife (Protection) Act, 1972 from the National Board for Wildlife. Further, grant of environmental clearance does not necessarily implies that wildlife clearance shall be granted to the project and the proposal shall be considered by the National Board for Wildlife on merits. The investment made in the project, if any, based on environmental clearance so granted, in anticipation of clearance from the wildlife	Proposal to accord approval was placed before the Standing Committee of NBWL in the 36th meeting held on 04.11.2015 for consideration. Committee has recommended our case.

BNPM Half yearly returns

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5	A (ii)	Environmental clearance is subject to final order of the	Noted
3	11 (11)	Hon'ble Supreme Court of India in the matter of Goa	
	rische (b	Foundation Vs. Union of India in Writ petition (Civil)	and complete and another is to be a 1985 and a special state of
	of roots	no.460 of 2004, as may be applicable to this project.	as 645 to 6407, seem to substitution or most fall to be recently as a
			PLOTE, TO WARE A Medical, Nove on CENTRAL
6	A (iii)	The project authority should install multi cyclones, wet scrubbers with the boilers to achieve the particulate emission below 50 mg/Nm ³	BNPM has installed oil fired boilers (with world's best burner from M/s. Sackee), hence multi cyclones & wet scrubbers are not required, as particulate emission will be below 50mg/Nm3.
7	A (iv)	Lime scrubbing should be done to minimize SO ₂ emissions and Low NOx burners should be installed.	BNPM has installed oil fired boilers only hence multi cyclones & wet scrubbers are not required, as particulate emission will be below 50mg/Nm3
8	A (v)	The totalwater requirement shall not exceed 3,000 KLD.	The average fresh water consumption is 1057KLD. BNPM has
		The industry should ensure the compliance of the	done remarkable work on water conservation by adopting
		standards for discharge of the treated effluent from the	Zero discharge concept & recycling the process water and
	1000	unit as stipulated under the E (P) Act, rules or SPCB	treated water within the system. The present Specific Fresh
		whichever is more stringent. The company should	water consumption is about 30 m3/MT of paper produced
		make efforts to limit the water consumption up to 75	against 70 m3/tonne of product. UF-RO system and
	basel III	m3/tonne of product. Adequate steps including use of	softeners are commissioned & are in operation. And about
		modern RO/UF based technologies shall be used to	40m3/MT of water is being recycled water form UF-RO and
		increase recycling and reduce water consumption.	softener.
9	A (vi)	Adequate number of influent and effluent quality	Online effluent monitoring system to monitor treated effluent
		monitoring stations should be set up in consultation	at outlet of ETP to measure Flow, pH, COD, BOD and TSS was
		with the State Pollution Control Board and regular	commissioned & in operation and reports are being uploaded
		monitoring should be carried out for all relevant	
		parameters to maintain the effluent treatment	Literature and an instrument and small enough of the latter range of the
		efficiency. The report should be submitted to Ministry's	not be other and yet because and the late betterned to
		Regional Office at Bangalore, SPCB and CPCB.	The about the second control of the second c
10	A (vii)		Ground water analysis are being carrying out on regular basis
	A 1	ensure that there are no excess sodium levels and no	for sodium, calcium, Magnesium (Sodium Absorption Ration)
1	1 18	adverse effect on vegetation as well as ground water.	
	10/	The company should submit the comprehensive water	The treated water is being used for gardening. No
	1	management plan along with monitoring plan for the	effect on soil observed.
	4,000	ground water quality and the level, within three	The water management plan has been submitted to KSPCB

		months from date of issue of this letter.	and consent for operation has been obtained. Copy of the same is enclosed
11	A (viii)	Elemental Chlorine Free (ECF) technology shall be adopted	Elemental Chlorine Free (ECF) technology has been adopted in the process.
12	A (ix)	The project authority should dispose of hazardous waste as per the provision of Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2003.	and hazardous waste shall be disposed as per provisions of
13	A (x)	The company should develop green belt in 33% of the total land as per the CPCB guidelines to mitigate the effect of fugitive emissions	This project is being set up within the existing premises of BRBNMPL. BRBNMPL has already developed approx. 130 acres for landscape and plantation out of total 332 acres of land. Thus, we have already complied with the condition. Further, BNPM has also developed green belt of area 15 acres within the allotted land.
14	A (xi)	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Company has already established a health centre within the factory premises.
15	A (xii)	The company should make the arrangement for protection of possible fire hazards during manufacturing process in material handling	Full-fledged Fire protection system is in operation (separate electric & diesel pumps of capacity 410 m3/hr capacity was commissioned in WTP just to control fire) & fire hydrants are installed throughout the factory Automatic sprinkler fire extinguishing system is provided for Raw material & finished goods Godown. Further portable type fire extinguishers are installed inside the premises & work areas.
16	A (xiii)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the pulp and paper sector should be strictly implemented.	Fire detection system is installed in all the buildings of plant. Noted for compliance

17	A (xiv)	At least 5 % of the total cost of the project should be earmarked towards the enterprise social	Some of the CSR commitment has already been taken up by the company. Details are given in 30 B(xii)
	1571	commitment based on Public Hearing & social	state residential (Calaberra and Saturda terminal of the
		responsibility and item-wise details along with time	the state of the s
		bound action plan should be prepared and	
	- 1 600	submitted to the Ministry's Regional Office at	broken to exemple, bloods, planting their all the state of
	103	Bangalore. Implementation of such program should be ensured accordingly in a time bound manner.	the emissional to make our story on similar
	10016		THE REPORT OF THE PROPERTY OF THE PERSONNEL STATES
18	A (xv)	Provision should be made for the housing of	Construction work completed.
		construction labour within the site with all necessary	the last the start annual major to the strength of the contract of the
	09.0	infrastructure and facilities such as fuel for cooking,	Control of the State of the Sta
	100	mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in	
		the form of temporary structures to be removed after	
		the completion of the project.	
19	B (i)	The project authorities must strictly adhere to the	Noted for compliance
		stipulations made by the Karnataka Pollution Control	
	ne dans	Board and the State Government.	And the first with the semiller and disease have been been assessed by the
20	B (ii)	No further expansion or modernization in the plant shall	Noted for compliance
		be carried out without prior approval of the Ministry of	The street death of the street state and the street
	100	Environment and Forests. In case of deviations or	Indicates on sever than a magness will be
	1 100	alterations in the project proposal from those submitted to	and allowant trails afficient to independing
	830	this Ministry for clearance, a fresh reference shall be	por hand to ever of an example points by employed
	100	made to the Ministry to assess the adequacy of conditions	
	100	imposed and to add additional environmental protection measures required, if any	
21	B (iii)		As per consent the ambient air quality monitoring is to be
		installed in downwind direction. Ambient air quality	done by EP act approved laboratory.
		including ambient noise levels shall not exceed the	
		standards Stipulated under EPA or by the State authorities.	
		Monitoring of ambient air quality and stack emissions shall	
	THE LOCK	be carried out regularly in consultation with KPCB and	approved lab and reports are submitted to KSPCB (Mysore).
	1	report submitted to the KPCB quarterly and to the	(A)
14	3 (HENTEAN)	Ministry's Regional Office at Bangalore half-yearly.	a la
22	B (iv)	In-plant control measures for checking fugitive	Black topping of internal roads has been done.
VA	100 8	emissions from all the vulnerable sources like	Greenery has been developed in all open space.

		spillage/raw materials/coal handlings etc. shall be provided. Bag filters shall be provided at transfer points and dedusting stacks to control fugitive emissions. Water sprinkling, black topping of internal roads and green belt development shall be carried out to control the fugitive dust emissions due to vehicular movement. Dust suppression and extraction system shall be provided to control secondary fugitive emission during raw material handling and processing.	Hydrants & Sprinkler system has been installed in the entire paper mill, campus has been kept very clean & green.
23	B (v)	Proper housekeeping and cleanliness must be maintained within and outside the plant.	Proper housekeeping and cleanliness is being maintained within and outside the plant.
24	B (vi)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	DG & compressors are provided with acoustic enclosures. As noted ambient noise level are within the limits.
25	B (vii)	The company shall undertake rainwater harvesting measures to recharge the ground water.	Complied.
26	B (viii)	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees, especially for those engaged in handling hazardous substances. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee should be maintained separately.	Being Complied
27	B (ix)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report	Noted & Being complied
28	B (x)	The implementation of the project vis-a-vis environmental action plans shall be monitored by Ministry's Regional Office at Bangalore I KPCB /CPCB. A six monthly compliance status report shall be submitted to monitoring agencies	Project is fully commissioned

29	B (xi)	Adequate provisions for infrastructure facilities such as	Construction work completed
	and and	water supply, fuel, sanitation etc. shall be ensured for	ing returning its habited on brillians or that the bishin man, is
		construction workers during the construction phase so as	A second and addition of the state of the st
		to avoid felling of trees and pollution of water and the	In series and comment to the series of the series and comments of the series of the se
		surroundings	and to the state of ten include additions at companies.
30	B (xii)	The project proponent shall have a scheme for social	Spent Rs4000000/- to Divyajyothi Charitable Trust for
		upliftment in the surrounding villages with reference to	providing Accommodation to blind.
		contribution in road construction, education,	STEEL WAS AND THE SERVICE OF THE SER
		establishment of health centres, sanitation facilities,	Spent Rs432552/- to M/s Amrutha Kripa for providing
	- State	drinking water supply, community awareness and	Telemedicine van.
		employment to local people whenever and wherever	
		possible both for technical and non-technical jobs	Spent Rs5425123/- to Jayadeva Institute Cardiovascular for
	,	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	providing two machine for patients.
		ST. STREET SET THE SECOND SECOND SET SET SET SET SET SET	Court Del2050/ towards incurence premium for Poloro
			Spent Rs13059/- towards insurance premium for Bolero camper for Vivekananda Girija Kalyana Kendra- rural
			development.
			development.
			Spent Rs24152/- Insurance premium for Ambulance for
			Vivekananda Girija kalyana Kendra.
			Vivekananaa anija kaiyana kenara:
			Spent Rs38822/- for insurance for force traveller for little
		to being mind use and	sister foundation.
			englin satella entre entre este value es en redeschaut
			Spent Rs1581200/- for towards Ojes Automation Bus
	1913-1910		Building for Amrita Kripa providing telemedicine Van.
			Spent Rs500000/- for Little Sister food Expense.
		A STATE OF THE STA	The state of the s
			Spent Rs100000/- towards Divyajyothi Charitable Trust.
			C
		Burolesman a limit setting of the setting of the	Spent Rs72841/- towards insurance premium for
	15 To 16		telemedicine van for Amrita Kripa.
	18/	\\\ \(\) \\ \(\) \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Smoot De 12004 / for DC Cat DTO Changes and Ctile Cl
	(INUEY		Spent Rs43884/- for DG Set RTO Charges and Stiker Charges
200	12		for Little sister foundation.

	Life Services	A service of the serv	Spent Rs603258/- for force tax vehicle Vivekananda Girija Kalyan Kendra.
		The state of the s	Spent Rs1063943/- towards tempo traveller for little sister foundation.
			Spent Rs511667/- towards Analyser and Total Security providing telemedicine van for Amrita kripa.
			Spent Rs1198687/- for Generator, X-ray, Chest Stand for Amritakripa Foundation.
			Spent Rs2001088/- for Bolero Ambulance and camper vehicle for Vivekananda girija kalyana Kendra.
		are the bed for some of the second control o	Spent Rs1239373/- towards medical camps for poor for Amritakripa foundation.
			Spent Rs2744000/- for Central Institute of Plastic (CIPET).
31	B (xiii)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of Senior Executive.	Laboratory has been set up and being monitored on regular basis. A senior officer has been made in-charge of the same.
32	B (xiv)	The requisite amount shall be earmarked towards capital cost and recurring cost/annum for implementing environment pollution control measures respectively and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and an implementation schedule for implementing all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes	Capital expenditure on ETP is approx. 30 cr. Regular operation & maintenance cost including chemicals, is provided as per requirement.
33	B (xv)	The project proponent shall upload the status of compliance of the stipulated environment clearance	Project has been commissioned.

	The same	conditions, including results of monitored data on their	Digital Display board as per KSPCB norms, is maintained near
		website and shall update the same periodically. It shall	main gate
		simultaneously be sent to the Regional Office of the	
-		MOEF, the respective Zonal Office of CPCB and the SPCB.	All stack emission parameters are well within the limits and
	1	The criteria pollutant levels namely; RSPM, SO2, NOx	installation & commissioning of online stack monitoring
		(ambient levels as well as stack emissions) or critical	system to Boiler chimneys is completed.
		sectoral parameters, indicated for the projects shall be	
		monitored and displayed at a convenient location near	
		the main gate of the company in the public domain	
34	B (xvi)	The project proponent shall also submit six monthly	Noted for compliance.
0.	2 (11.1)	reports on the status of the compliance of the	
		stipulated environmental conditions including results of	
		monitored data (both in hard copies as well as by e-	
		mail) to the respective Regional Office of MOEF, the	
13/1-1		respective Zonal Office of CPCB and the SPCB. The	
		Regional Office of this Ministry at Bangalore /CPCB/SPCB	
		shall monitor the stipulated conditions.	
35	B (xvii)	The environmental statement for each financial year	Noted for compliance
00	D (AVII)	ending 31 March in Form-V as is mandated to be	Noted for compliance
		submitted by the project proponent to the concerned	
		State Pollution Control Board as prescribed under the	before that the large will be a second to the second to th
		Environment (Protection) Rules, 1986, as amended	
		subsequently, shall also be put on the website of the	
416		company along with the status of compliance of	The second secon
		environmental conditions and shall also be sent to the	
		respective Regional Offices of the MOEF by e-mail	
36	В	The Project Proponent shall inform the public that the	Complied.
50	(xviii)	project has been accorded environmental clearance by	Complied.
	(AVIII)	the Ministry and copies of the clearance letter are	The project has been commissioned and came to operation
		available with the SPCB and may also be seen at the	phase.
		Website of the Ministry of Environment and Forests at	phase.
		http:/envfor.nic.in. This should be advertised within	ALL AND DESCRIPTION OF THE STATE OF THE STAT
Lin II		seven days from the date of issue of the clearance letter	ON MILLS
		at least in two local newspapers that are widely	(0.50 Ag
. 1		circulated in the region of which one shall be in the	(% MYSURU)
		vernacular language of the locality concerned and a copy	
		vernacular language of the locality concerned and a copy	

BNPM Half yearly returns

		of the same shall be forwarded to the Regional office at Bangalore.	
37	11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
38	12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
39	13	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules	Noted

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Certificate No. TC-5786

TEST REPORT

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Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Sampling Location	Near WTP	
Sample Description	AAQ1: Ambient Air Quality Monitoring	
Date of sampling & Receipt	22.10.2019 & 23.10.2019	X
Date of commencement of analysis	26.10.2019	
Date of completion of analysis	08.11.2019	
Sample Collected by	Hubert Enviro Care Systems (P) Ltd	
Report Date	11.11.2019	
Report No	HECS/A/001/261019	
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini	

RESULTS OF AMBIENT AIR QUALITY MONITORING - OCTOBER 2019

	And the state of t	UNITS	RESULTS	NAAQ STANDARDS: 2009		
S.NO.	PARAMETERS			Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)	
1.	Sulphur Dioxide	μg/m³	15.7	80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	20.1	80 (24 hours)	40 (Annual)	
3.	Particulate Matter < 10 µm	μg/m³	47.5	100 (24 hours)	60 (Annual)	
4.	Particulate Matter <2.5µm	μg/m³	26.4	60 (24 hours)	40 (Annual)	
5.	Carbon Monoxide	mg/m³	0.13	4 (1 hours)	2 (8 hours)	
6.	Lead	µg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 25 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method) NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

B(α)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; PM_{23} -Particulate matter size less than 2.5 Micron, PM_{10} -Particulate matter size less than 10 Micron; SO_2 Sulphur dioxide; NO_2 - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m^2); O_3 -Ozone(DL 10 $\mu g/m^3$); NO_3 -Nitrogen-di-oxide; O_3 -Nitrogen-di-oxide;

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

(Dr K GANESAN) Authorized Signatory

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS of satisfation (2) Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6.# not under scope of accreditation.

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Certificate No. TC-5786

TEST REPORT

Page 2 of 3

		, ,
Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Sampling Location	Pre-cotton Cleaning System	
Sample Description	AAQ2: Ambient Air Quality Monitoring	
Date of sampling & Receipt	23.10.2019 & 24.10.2019	
Date of commencement of analysis	26.10.2019	
Date of completion of analysis	08.11.2019	evante e e e e e e e e e e e e e e e e e e
Sample Collected by	Hubert Enviro Care Systems (P) Ltd	
Report Date	11.11.2019	
Report No	HECS/A/002/261019	
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini	

PESSILTS OF AMBIENT AIR OLIALITY MONITORING - OCTORER 2019

s.no.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS: 2009		
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)	
1.	Sulphur Dioxide	μg/m³	11.2	80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	14.9	80 (24 hours)	40 (Annual)	
3.	Particulate Matter <10µm	μg/m³	43.1	100 (24 hours)	60 (Annual)	
4.	Particulate Matter < 2.5 µm	μg/m³	22.4	60 (24 hours)	40 (Annual)	
5.	Carbon Monoxide	mg/m³	0.15	4 (1 hours)	2 (8 hours)	
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

: IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

: HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) PM 25

: IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)

: IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method) NO2

: HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) 0, : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

NH₃ co : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

: GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011) CaHa

: In-house validated method based on CPCB guidelines vol. (2011) B(a)P

Note: BDL =Below detection limit; DL - Detection Limit; PM2.3-Particulate matter size less than 2.5 Micron, PM10-Particulate matter size less than 10 Micron; SO1 Sulphur dioxide; NO₂ - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³);O₃-Ozone(DL 10 μg/m³);NH₃-Ammonia (DL 5 μg/m³); Pb-Lead (DL 0.05 μg/m³);As-Arsenic (DL 0.1 ng/m³);Ni-Nickel (DL 0.5 ng/m³); Benzene-(DL 1 μg/m³);B(α)P- Benzo -α-pyrene (DL0.5 ng/m³); ng/m³: nanogram per cubic meter; μg/m³ - microgram per cubic meter.

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

Authorized Signatory

Simples are not drawn by HECS unless or otherwise at report. 4. Under no circumstances lab accepts any The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECO
mentioned.
 Unless specifically requested by customer the test items will not be retained more than 15 days from the da
liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report.
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Certificate No. TC-5786

TEST REPORT

Page 3 of 3

M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Near Main Gate
AAQ3: Ambient Air Quality Monitoring
24.10.2019 & 25.10.2019
26.10.2019
09.11.2019
Hubert Enviro Care Systems (P) Ltd
11.11.2019
HECS/A/003/261019
Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

RESULTS OF AMBIENT AIR QUALITY MONITORING - OCTOBER 2019

	PARAMETERS	UNITS RESULTS		NAAQ STANDARDS: 2009		
s.no.			RESULTS	Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)	
1.	Sulphur Dioxide	μg/m³	11.3	80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	14.6	80 (24 hours)	40 (Annual)	
3.	Particulate Matter <10µm	μg/m³	35.1	100 (24 hours)	60 (Annual)	
4.	Particulate Matter <2.5µm	μg/m³	17.5	60 (24 hours)	40 (Annual)	
5.	Carbon Monoxide	mg/m³	BDL (DL 0.1)	4 (1 hours)	2 (8 hours)	
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³ .	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

PM 18 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 2.5 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method) NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. i (2011) NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. i (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

B(α)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; $PM_{2.5}$ -Particulate matter size less than 2.5 Micron, PM_{10} -Particulate matter size less than 10 Micron; SO_2 Sulphur dioxide; NO_2 - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m^3); O_2 -Ozone(DL 10 $\mu g/m^3$); NH_3 -Ammonia (DL 5 $\mu g/m^3$); PM_3 -P-Lead (DL 0.05 $\mu g/m^3$); PM_3 -P-Benzo - PM_3 -P-Benzo -PM

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

(Dr K GANESAN)
uthorized Signatory

4

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TEST REPORT

Page No. 1 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)			
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,			
Stack ID	Note Mudran Nagar, Mysuru - 570003, Karnataka, India. Dry Cleaning Area			
Sample Description	Indoor Air Quality Monitoring			
Sampling Date	23.10.2019			
Sample Received Date	26.10.2019			
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,			
Analysis Commenced On	26.10.2019			
Completed On	27.10.2019			
Report Date	08.11.2019			
Report No	HECS/IAQ/001/261019			

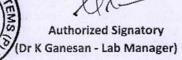
RESULTS OF INDOOR AIR QUALITY MONITORING - OCTOBER 2019

Parameter monitored	Results obtained	OSHA Std. Limit	Test Method Followed
Particulate Matter, PM	19.7 μg/m³	5000 μg/m³ (5 mg/Nm³)	IS 11255: (Part 1): 1985 (RA 2003)

Note: mg/Nm³: milligram per normal cubic meter; µg/Nm³: microgram per normal cubic meter; PM: Particulate Matter; OSHA - Occupational Safety and Health Administration

INFERENCE As per OSHA Standards, PM value is within the limits

End of Report



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TEST REPORT

Page No. 2 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)			
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,			
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.			
Stack ID	Air Filter Unit			
Sample Description	Indoor Air Quality Monitoring			
Sampling Date	23.10.2019			
Sample Received Date	26.10.2019			
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,			
Analysis Commenced On	26.10.2019			
Completed On	27.10.2019			
Report Date	08.11.2019			
Report No HECS/IAQ/002/261019				

RESULTS OF INDOOR AIR QUALITY MONITORING - OCTOBER 2019

Parameter monitored	Results obtained	OSHA Std. Limit	Test Method Followed
Particulate Matter, PM	15.2 μg/m³	5000 μg/m³ (5 mg/Nm³)	IS 11255: (Part 1): 1985 (RA 2003)

Note: mg/Nm³: milligram per normal cubic meter; μg/Nm³: microgram per normal cubic meter; PM: Particulate Matter; OSHA - Occupational Safety and Health Administration

INFERENCE As per OSHA Standards, PM value is within the limits

End of Report



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TEST REPORT

Page No. 3 of 5

Customer M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)		
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Stack ID	10 TPH oil fired Boiler - B & C	
Sample Description	Manual Stack Emission Monitoring	
Sampling Date	23.10.2019	
Sample Received Date	26.10.2019	
Thimble No.	K 60874	
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,	
Analysis Commenced On	28.10.2019	
Completed On	08.11.2019	
Report Date	11.11.2019	
Report No	HECS/ST/001/261019	

EMISSION AIR FROM STACK / CHIMNEY MONITORING - OCTOBER 2019

General Details	
Source of Fuel	Furnace Oil
Ambient temperature	26 °C
Flue Gas Temperature	147 °C
Stack Height	56 meters
Diameter	2.0 meters
Discharge Rate	16.663 LPM
Velocity	3.9 m/s

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	59.7 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO₂	35.1 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	110.5 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	120.5 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	12.9 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm3: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million;

% -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits



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TEST REPORT

Page No. 4 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)		
Project Site/ Address Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.			
Stack ID	1500 kVA DG Set		
Sample Description	Manual Stack Emission Monitoring		
Sampling Date	23.10.2019		
Sample Received Date	26.10.2019		
Thimble No.	K 2752		
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,		
Analysis Commenced On	28.10.2019		
Completed On	08.11.2019		
Report Date	11.11.2019		
Report No	HECS/ST/002/261019		

EMISSION AIR FROM STACK / CHIMNEY MONITORING - OCTOBER 2019

General Details	
Source of Fuel	Diesel
Ambient temperature	26 °C
Flue Gas Temperature	145 °C
Stack Height	33 meters
Diameter	0.3 meters
Discharge Rate	24.0 LPM
Velocity	12.6 m/s

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	48.1 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	22.6 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	86.5 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	124.7mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	16.3 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm3: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million;

% -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits



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TEST REPORT

Page No. 5 of 5

Customer -	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	Fire Fighting Diesel Pump
Sample Description	Manual Stack Emission Monitoring
Sampling Date	24.10.2019
Sample Received Date	26.10.2019
Thimble No.	K 2769
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	28.10.2019
Completed On	08.11.2019
Report Date	11.11.2019
Report No	HECS/ST/003/261019

EMISSION AIR FROM STACK / CHIMNEY MONITORING - OCTOBER 2019

General Details			
Source of Fuel	Diesel		
Ambient temperature	29 °C	*	
Flue Gas Temperature	259 °C		
Stack Height	10 meters	4:	
Diameter	0.15 meters		
Discharge Rate	22.9 LPM		
Velocity	8.97 m/s		

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	74.8 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	23.6 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	80.2 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	116.5 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	16.0 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million;

% -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits



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POLLU TECH AIDS

(Air & Water Pollution Control Consultants and Turnkey Contractors)

(NABL Accredited Testing Lab as per ISO/IEC 17025:2005)



Off. 080-23492130, Res.: 23490488, E-mail: drrpdambal@gmail.com

Date :

Oct 24th, 2019

ANALYSIS REPORT OF ETP TREATED EFFLUENT WATER SAMPLE

Name of the Company	M/s Bank Note Paper Mill India Pvt. Ltd.,
Address	Administrative office Building, Entry Gate.1, Paper Mill compound, Note Mudran Nagar, Mysuru – 570003
Sample Particulars	ETP Treated Effluent Water Sample
Sample Collected on	Oct 16 th , 2019
Date of analysis	Oct 17 th , 2019
Sample ID	1469 – 1/WW
ULR Number	TC629719000000543P
Discipline	Chemical Testing
Group	Pollution & Environment

Sl. No.	Parameters	Protocol	Units	Results	Standard Limit
1.	Colour	IS 3025 (part 4) 2017	Hazen Units	<5	5 – 15
2.	Odour *	IS 3025 (part 5) 2017		Agreeable	Agreeable
3.	pH Value	IS 3025 (part 11) 2017	pH	7.8	5.5-9.0
4.	Total Suspended Solids	IS 3025 (part 17) 2017	mg/L	17.6	100
5.	Oil & Grease	IS 3025 (part 39) 2019	mg/L	BDL	10
6.	BOD (5Days at 20°C)	IS 3025 (Part 44) 2019, Winkler Method	mg/L	23.7	30
7.	COD	IS 3025 (part 58) 2017, Open Reflux method	mg/L	112	250.0

Note: 1. This certificate is related only to the sample tested.

2. Sample Analysis done as per BIS method.

3. BDL = Below Detectable Limit.

4.*Tests are not under the scope of NABL Accreditation.

5. Samples will be destroyed after one week from the date of issue of test certificate unless otherwise specified. Perishable samples will not be retained

6. This Test Report shall not be reproduced without written permission of the Laboratory.

Analyzed by

Verified by

No. 16,
No. 16,
O' No. 16,
O' Stage,
2nd Stage,
2nd Phase,
WCR
WCR
Ratio

Authorized Signatory

Dr. R.P Dambal



POLLU TECH AIDS

(Air & Water Pollution Control Consultants and Turnkey Contractors)

(NABL Accredited Testing Lab as per ISO/IEC 17025:2005)



Off. 080-23492130, Res.: 23490488, E-mail: drrpdambal@gmail.com

Date :

Oct 24th, 2019

ANALYSIS REPORT OF POTABLE WATER SAMPLE

Name of the Company	M/s Bank Note Paper Mill India Pvt. Ltd.,		
Address	Administrative office Building, Entry Gate.1, Paper Mill compound,		
	Note Mudran Nagar, Mysuru – 570003		
Sample Particulars	Potable Water Sample		
Sample Received on	Oct 16 th , 2019		
Date of analysis	Oct 17 th , 2019		
Sample ID	1469 – 2/W		
ULR Number	TC629719000000544P		
Discipline	Chemical Testing		
Group	Water		

Sl. No.	Parameters	Protocol	Units	Results	Standard Limit (Required - permissible)
01	Colour in hazen units	IS 3025 (part 4) 2017	Hazen Units	<5	5 - 15
02	Odour *	IS 3025 (part 5) 2017		Agreeable	Agreeable
03	Turbidity (as NTU) *	IS 3025 (part 10) 2017	NTU	1.0	1 - 5
04	Total Dissolved Solids	IS 3025 (part 16) 2017	mg/L	74	500 - 2000
05	pH Value	IS 3025 (part 11) 2017	pH	7.3	6.5 - 8.5
06	Total Hardness (as CaCO ₃)	IS 3025 (part 21) 2019	mg/L	32	200 - 600
07	Calcium (as Ca)	IS 3025 (part 40) 2019	mg/L	20	75 - 200
08	Magnesium	IS 3025 (part 46) 2019	mg/L	2.9	30 - 100
09	Chloride (as Cl)	IS 3025 (part 32) 2019	mg/L	16	250 - 1000
10	Sulphate (as SO ₄)	IS 3025 (part 24) 2019	mg/L	6.8	200 - 400
11	Nitrate (as NO ₃)	IS 3025 (part 34) 2019	mg/L	BDL	45
12	Iron (as Fe)	IS 3025 (part 53) 2019	mg/L	BDL	0.3
13	Fluoride (as F)	APHA 4500 - F - D	mg/L	BDL	1.0 - 1.5
14	Copper (as Cu) *	IS 3025 (part 42) 2019	mg/L	BDL	0.05 - 1.5
15	Manganese (as Mn)*	IS 3025 (part 59) 2017	mg/L	BDL	0.1 - 0.3
16	Selenium (as Se) *	IS 3025 (part 56) 2019	mg/L	BDL	0.01
17	Zinc (as Zn) *	IS 3025 (part 49) 2019	mg/L	BDL	5 - 15



Continuation Sheet ...

18	Free Residual Chlorine (FRC)	IS 3025 (part 26) 2019	mg/L	BDL	0.2 - 1.0
19	Arsenic (as As) *	IS 3025 (part 37) 2019	mg/L	BDL	0.01 - 0.05
20	Cyanide (as CN)	IS 3025 (part 27) 2019	mg/L	BDL	0.05
21	Lead (as Pb) *	IS 3025 (part 47) 2019	mg/L	BDL	0.01
22	Mercury (as Hg) *	IS 3025 (part 48) 2019	mg/L	BDL	0.001
23	Cadmium (as Cd) *	IS 3025 (part 41) 2019	mg/L	BDL	0.003
24	Chromium (as Cr)*	IS 3025 (part 52) 2019	mg/L	BDL	0.05
25	Total Coliform bacteria/100ml*	IS: 1622	F	<1	10/100ml
26	E. Coli/100ml*	IS: 1622	-	<1	10/100ml

Note: 1. This certificate is related only to the sample tested.

2. Sample Analysis done as per BIS/APHA method.

3. BDL = Below Detectable Limit.

4. * Tests are not under the scope of NABL Accreditation.

5. Samples will be destroyed after one week from the date of issue of test certificate unless otherwise specified. Perishable samples will not be retained.

6. This Test Report shall not be reproduced without written permission of the Laboratory.

Analyzed by

Verified by

Authorized Signatory

Dr. R.P. Dambal

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TEST REPORT

Page 1 of 3

	T	1 000 2 01
Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Sampling Location	Near WTP	
Sample Description	AAQ1: Ambient Air Quality Monitoring	
Date of sampling & Receipt	26.11.2019 & 28.11.2019	
Date of commencement of analysis	29.11.2019	
Date of completion of analysis	05.12.2019	
Sample Collected by	Hubert Enviro Care Systems (P) Ltd	
Report Date	06.12.2019	
Report No	HECS/A/001/281119	
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini	

RESULTS OF AMBIENT AIR QUALITY MONITORING - NOVEMBER 2019

s.no.				NAAQ STANDARDS : 2009		
	PARAMETERS	UNITS RESULTS		Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)	
1.	Sulphur Dioxide	μg /m³	16.2	80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	23.5	80 (24 hours)	40 (Annual)	
3.	Particulate Matter <10µm	μg/m³	50.2	100 (24 hours)	60 (Annual)	
4.	Particulate Matter <2.5µm	μg/m³	27.1	60 (24 hours)	40 (Annual)	
5.	Carbon Monoxide	mg/m³	0.12	4 (1 hours)	2 (8 hours)	
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 2.5 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)
NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

B(α)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; $PM_{2.5}$ -Particulate matter size less than 2.5 Micron, PM_{10} -Particulate matter size less than 10 Micron; SO_2 Sulphur dioxide; NO_2 - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³); O_3 -Ozone(DL 10 μ g/m³); NI_3 -Ammonia (DL 5 μ g/m³); PD_3 -Lead (DL 0.05 μ g/m³); PD_3 -Renzo (DL 0.1 ng/m³); PD_3 -Ni-Nickel (DL 0.5 ng/m³); PD_3 -Renzo PD_3 -Particulate matter size less than 10 Micron; PD_3 -Ni-Nickel (DL 0.05 μ g/m³); PD_3 -Renzo PD_3 -Ni-Nickel (DL 0.05 μ g/m³); PD_3 -Renzo PD_3 -Renzo PD_3 -Ni-Nickel (DL 0.5 μ g/m³); PD_3 -Renzo $PD_$

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

(Dr K GANESAN) Authorized Signatory

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TEST REPORT

Page 2 of 3

Curtomor	<u>, </u>	201
Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Sampling Location	Pre-cotton Cleaning System	
Sample Description	AAQ2: Ambient Air Quality Monitoring	
Date of sampling & Receipt	27.11.2019 & 29.11.2019	
Date of commencement of analysis	30.11.2019	
Date of completion of analysis	05.12.2019	
Sample Collected by	Hubert Enviro Care Systems (P) Ltd	
Report Date	06.12.2019	
Report No	HECS/A/002/281119	
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini	

RESULTS OF AMBIENT AIR QUALITY MONITORING - NOVEMBER 2019

	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS : 2009		
s.no.				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)	
1.	Sulphur Dioxide	μg /m³	10.9	. 80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	15.2	80 (24 hours)	40 (Annual)	
3.	Particulate Matter <10µm	μg/m³	45.0	100 (24 hours)	. 60 (Annual)	
4.	Particulate Matter <2.5µm	μg/m³	23.5	60 (24 hours)	40 (Annual)	
5.	Carbon Monoxide	mg/m³	0.13	4 (1 hours)	2 (8 hours)	
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 2.5 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)

NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. | (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

 $B(\alpha)P$: In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; PM_{25} -Particulate matter size less than 2.5 Micron, PM_{10} -Particulate matter size less than 10 Micron; SO_2 Sulphur dioxide; NO_2 - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³); O_3 -Ozone(DL 10 μ g/m³); NI_3 -Ammonia (DL 5 μ g/m³); Pb-Lead (DL 0.05 μ g/m³); As-Arsenic (DL 0.1 ng/m³); Ni-Nickel (DL 0.5 ng/m³); Benzene-(DL 1 μ g/m³); B(α)P- Benzo - α -pyrene (DL0.5 ng/m³); ng/m³: nanogram per cubic meter; μ g/m³ - microgram per cubic meter.

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDAB

*****End of Report *****

Authorized Signatory

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TEST REPORT

Page 3 of 3

	1.050.3.01
Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Sampling Location	Near Main Gate
Sample Description	AAQ3: Ambient Air Quality Monitoring
Date of sampling & Receipt	28.11.2019 & 30.11.2019
Date of commencement of analysis	30.11.2019
Date of completion of analysis	05.12.2019
Sample Collected by	Hubert Enviro Care Systems (P) Ltd
Report Date	06.12.2019
Report No	HECS/A/003/281119
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

RESULTS OF AMBIENT AIR QUALITY MONITORING - NOVEMBER 2019

s.no.	PARAMETERS			NAAQ STANDARDS : 2009		
		UNITS RESULTS		Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)	
1.	Sulphur Dioxide	$\mu g / m^3$	12.5	80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	15.7	80 (24 hours)	40 (Annual)	
3.	Particulate Matter <10µm	μg/m³	37.4	100 (24 hours)	60 (Annual)	
4.	Particulate Matter <2.5µm	μg/m³	16.9	60 (24 hours)	40 (Annual)	
5.	Carbon Monoxide	mg/m³	BDL (DL 0.1)	4 (1 hours)	2 (8 hours)	
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

: IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric) PM 10

PM 2.5 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)

NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

: HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) 03

NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

B(a)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; PM2.5-Particulate matter size less than 2.5 Micron, PM10-Particulate matter size less than 10 Micron; SO2 Sulphur dioxide; NO₂ - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³);O₃-Ozone(DL 10 µg/m³);NH₃-Ammonia (DL 5 µg/m³); Pb-Lead (DL 0.05 µg/m³);As-Arsenic (DL 0.1 ng/m³);Ni-Nickel (DL 0.5 ng/m³); Benzene-(DL 1 μg/m²);B(α)P- Benzo -α-pyrene (DL0.5 ng/m³); ng/m³: nanogram per cubic meter; μg/m³ - microgram per cubic meter.

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****



(Dr K GANESAN) **Authorized Signatory**

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TEST REPORT

Page No. 1 of 6

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	Air Filter Unit
Sample Description	Indoor Air Quality Monitoring
Sampling Date	27.11.2019
Sample Received Date	29.11.2019
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	30.11.2019
Completed On	02.12.2019
Report Date	05.12.2019
Report No	HECS/IAQ/001/291119

RESULTS OF INDOOR AIR QUALITY MONITORING - NOVEMBER 2019

Parameter monitored	Results obtained	OSHA Std. Limit	Test Method Followed	
Particulate Matter, PM	11.7 μg/m ³	5000 μg/m³ (5 mg/Nm³)	IS 11255: (Part 1): 1985 (RA 2003)	

Note: mg/Nm3: milligram per normal cubic meter; µg/Nm3: microgram per normal cubic meter; PM: Particulate Matter; OSHA - Occupational Safety and Health Administration

INFERENCE As per OSHA Standards, PM value is within the limits

End of Report

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TEST REPORT

Page No. 2 of 6

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	Dry Cleaning Area
Sample Description	Indoor Air Quality Monitoring
Sampling Date	27.11.2019
Sample Received Date	29.11.2019
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	30.11.2019
Completed On	02.12.2019
Report Date	05.12.2019
Report No	HECS/IAQ/002/291119

RESULTS OF INDOOR AIR QUALITY MONITORING - NOVEMBER 2019

Parameter monitored	Results obtained	OSHA Std. Limit	Test Method Followed
Particulate Matter, PM	21.0 μg/m ³	5000 μg/m³ (5 mg/Nm³)	IS 11255: (Part 1): 1985 (RA 2003)

Note: mg/Nm3: milligram per normal cubic meter; µg/Nm3: microgram per normal cubic meter; PM: Particulate Matter; OSHA - Occupational Safety and Health Administration

INFERENCE As per OSHA Standards, PM value is within the limits

End of Report

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TEST REPORT

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Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,	
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Stack ID	10 TPH oil fired Boiler - B & C	
Sample Description	Manual Stack Emission Monitoring	
Sampling Date	26.11.2019	
Sample Received Date	28.11.2019	
Thimble No.	A 2599	
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,	
Analysis Commenced On	29.11.2019	
Completed On	05.12.2019	187
Report Date	06.12.2019	
Report No	HECS/ST/001/281119	

EMISSION AIR FROM STACK / CHIMNEY MONITORING - NOVEMBER 2019

General Details	
Source of Fuel	Furnace Oil
Ambient temperature	31 °C
Flue Gas Temperature	161 °C
Stack Height	56 meters
Diameter	2.0 meters
Discharge Rate	15.4 LPM
Velocity	8.2 m/s

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	54.2mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	31.7 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	120.3 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	112.4 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	11.6 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million;

% -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards All the parameters are within the limits **INFERENCE**

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TEST REPORT

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Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)			
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,			
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.			
Stack ID	Fire Fighting Diesel Pump			
Sample Description	Manual Stack Emission Monitoring			
Sampling Date	26.11.2019			
Sample Received Date	28.11.2019			
Thimble No.	A 2593			
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,			
Analysis Commenced On	29.11.2019			
Completed On	05.12.2019			
Report Date	06.12.2019			
Report No	HECS/ST/002/281119			

EMISSION AIR FROM STACK / CHIMNEY MONITORING - NOVEMBER 2019

General Details	
Source of Fuel	Diesel
Ambient temperature	32 °C
Flue Gas Temperature	258 °C
Stack Height	10 meters
Diameter	0.15 meters
Discharge Rate	22.7 LPM
Velocity	8.91 m/s

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	68.5 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	25.3 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	84.1 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	107.4 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NIVIHC (as C)	14.2 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm3: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million;

% -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards All the parameters are within the limits INFERENCE



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(Dr K Ganesan - Lab Manager)

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TEST REPORT

Page No. 5 of 6

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	1500 kVA DG Set
Sample Description	Manual Stack Emission Monitoring
Sampling Date	27.11.2019
Sample Received Date	29.11.2019
Thimble No.	A 2591
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	30.11.2019
Completed On	05.12.2019
Report Date	06.12.2019
Report No	HECS/ST/003/291119

EMISSION AIR FROM STACK / CHIMNEY MONITORING - NOVEMBER 2019

General Details		
Source of Fuel	Diesel	
Ambient temperature	31 °C	
Flue Gas Temperature	145 °C	
Stack Height	33 meters	
Diameter	0.3 meters	
Discharge Rate	24.0 LPM	
Velocity	12.65 m/s	

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	44.5 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	24.3 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	89.1 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O₂	126.0 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	14.3 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm3: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million;

% -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards All the parameters are within the limits **INFERENCE**

Authorized Signatory

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TEST REPORT

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Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,	ş= -
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Stack ID	10 TPH oil fired Boiler - A	
Sample Description	Manual Stack Emission Monitoring	(4
Sampling Date	27.11.2019	
Sample Received Date	29.11.2019	
Thimble No.	A 2580	
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,	
Analysis Commenced On	30.11.2019	
Completed On	05.12.2019	
Report Date	06.12.2019	
Report No	HECS/ST/004/291119	

EMISSION AIR FROM STACK / CHIMNEY MONITORING - NOVEMBER 2019

General Details	
Source of Fuel	Furnace Oil
Ambient temperature	31 °C
Flue Gas Temperature	169 °C
Stack Height	46 meters
Diameter _	1.8 meters
Discharge Rate	16.92 LPM
Velocity	4.1 m/s

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	49.8mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	35.2 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	87.5 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	117.1 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	16.9 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm3: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million;

% -Percentage; NMHC- Non-methane Hydro Carbons As per KSPCB Standards

All the parameters are within the limits INFERENCE



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(Air & Water Pollution Control Consultants and Turnkey Contractors)

(NABL Accredited Testing Lab as per ISO/IEC 17025:2005)



Off. 080-23492130, Res.: 23490488, E-mail: drrpdambal@gmail.com

Date Nov-16th; 2019

ANALYSIS REPORT OF ETP TREATED EFFLUENT WATER SAMPLE

Name of the Company	M/s Bank Note Paper Mill India Pvt. Ltd.,
Address	Administrative office Building, Entry Gate.1, Paper Mill compound, Note Mudran Nagar, Mysuru – 570003
Sample Particulars	ETP Treated Effluent Water Sample
Sample Collected on	Nov 11 th , 2019
Date of analysis	Nov 12 th , 2019
Sample ID	1475 – 1/WW
ULR Number	TC629719000000586P
Discipline	Chemical Testing
Group	Pollution & Environment

SI. No.	Parameters	Protocol	Units	Results	Standard Limit
1.	Colour	IS 3025 (part 4) 2017	Hazen Units	<5	5-15
2.	Odour *	IS-3025 (part 5) 2017		Agreeable	Agreeable
3.	pH Value	IS 3025 (part 11) 2017	pН	7.6	5.5-9.0
4.	Total Suspended Solids	IS 3025 (part 17) 2017	mg/L	11.2	100
5.	Oil & Grease	IS 3025 (part 39) 2019	mg/L	BDL	10
6.	BOD (5Days at 20°C)	IS 3025 (Part 44) 2019, Winkler Method	mg/L	14.4	30
7.	COD	IS 3025 (part 58) 2017, Open Reflux method	mg/L	72	250.0

Note: 1. This certificate is related only to the sample tested.

2. Sample Analysis done as per BIS method.

3. BDL = Below Detectable Limit.

4.*Tests are not under the scope of NABL Accreditation.

 Samples will be destroyed after one week from the date of issue of test certificate unless otherwise specified. Perishable samples will not be retained

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Analyzed by

Verified by (Stage) 2nd Phase, 30 WCR 200

Authorized Signatory

Dr R P Dambal



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Off. 080-23492130, Res.: 23490488, E-mail: drrpdambal@gmail.com

Date :

Nov 16th, 2019

ANALYSIS REPORT OF POTABLE WATER SAMPLE

Name of the Company	M/s Bank Note Paper Mill India Pvt. Ltd.,
Address	Administrative office Building, Entry Gate.1, Paper Mill compound, Note Mudran Nagar, Mysuru – 570003
Sample Particulars	Potable Water Sample
Sample Received on	Nov 11 th , 2019
Date of analysis	Nov 12 th , 2019
Sample ID	1475 – 2/W
ULR Number	TC629719000000587P
Discipline	Chemical Testing
Group	Water

SI. No.	Parameters	Protocol	Units	Results	Standard Limit (Required - permissible)
01	Colour in hazen units	IS 3025 (part 4) 2017	Hazen Units	<5	5 - 15
02	Odour *	IS 3025 (part 5) 2017	144	Agreeable	Agreeable
03	Turbidity (as NTU)	IS 3025 (part 10) 2017	NTU	1.0	1 - 5
04	Total Dissolved Solids	IS 3025 (part 16) 2017	mg/L	105	500 - 2000
05	pH Value	IS 3025 (part 11) 2017	рН	7.2	6.5 - 8.5
06	Total Hardness (as CaCO ₃)	IS 3025 (part 21) 2019	mg/L	52	200 - 600
07	Calcium (as Ca)	IS 3025 (part 40) 2019	mg/L	28	75 - 200
08	Magnesium	IS 3025 (part 46) 2019	mg/L	5.8	30 - 100
09	Chloride (as Cl)	IS 3025 (part 32) 2019	mg/L	36	250 - 1000
10	Sulphate (as SO ₄)	IS 3025 (part 24) 2019	mg/L	9.2	200 - 400
11	Nitrate (as NO ₃)	IS 3025 (part 34) 2019	mg/L	· BDL	45
12	Iron (as Fe)	IS 3025 (part 53) 2019	mg/L	BDL	0.3
13	Fluoride (as F)	APHA 4500 - F - D	mg/L	BDL	1.0 - 1.5
14	Copper (as Cu) *	IS 3025 (part 42) 2019	mg/L	BDL	0.05 - 1.5
15	Manganese (as Mn)*	IS 3025 (part 59) 2017	mg/L	BDL	0.1 - 0.3
16	Selenium (as Se) *	IS 3025 (part 56) 2019	mg/L	BDL	0.01
17	Zînc (as Zn) *	IS 3025 (part 49) 2019	mg/L	BDL	5 - 15

18	Free Residual Chlorine (FRC)	IS 3025 (part 26) 2019	mg/L	BDL	0.2 - 1.0
19	Arsenic (as As)	IS 3025 (part 37) 2019	mg/L	BDL	0.01 - 0.05
20	Cyanide (as CN) *	IS 3025 (part 27) 2019	mg/L	BDL	0.05
21	Lead (as Pb) *	IS 3025 (part 47) 2019	mg/L	BDL	0.01
22	Mercury (as Hg)	IS 3025 (part 48) 2019	mg/L	BDL	0.001
23	Cadmium (as Cd) *	IS 3025 (part 41) 2019	mg/L	BDL	0.003
24	Chromium (as Cr) *	IS 3025 (part 52) 2019	mg/L	BDL	0.05
25	Total Coliform bacteria/100ml*	IS: 1622	-	<1	10/100ml
26	E. Coli/100ml*	IS: 1622		<]	10/100ml

Note: 1. This certificate is related only to the sample tested.

2. Sample Analysis done as per BIS/APHA method.

3. BDL = Below Detectable Limit.

4. * Tests are not under the scope of NABL Accreditation.

 Samples will be destroyed after one week from the date of issue of test certificate unless otherwise specified. Perishable samples will not be retained.

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Dr. R.P. Dambal

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TEST REPORT

Page 1 of 3

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Sampling Location	Near Main Gate
Sample Description	AAQ1: Ambient Air Quality Monitoring
Date of sampling & Receipt	18.12.2019 & 21.12.2019
Date of commencement of analysis	23.12.2019
Date of completion of analysis	06.01,2020
Sample Collected by	Hubert Enviro Care Systems (P) Ltd
Report Date	06.01.2020
Report No	HECS/A/001/211219
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

RESULTS OF AMBIENT AIR QUALITY MONITORING - DECEMBER 2019

s.no.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS: 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	Sulphur Dioxide	μg/m³	13.2	80 (24 hours)	50 (Annual)
- 2.	Nitrogen Dioxide	μg/m³	16.0	80 (24 hours)	40 (Annual)
3.	Particulate Matter <10µm	μg/m³	42.0	100 (24 hours)	60 (Annual)
4	Particulate Matter <2.5μm	μg/m³	29.1	60 (24 hours)	40 (Annual)
5.	Carbon Monoxide	mg/m³	BDL (DL 0.1)	4 (1 hours)	2 (8 hours)
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 25 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)
NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

B(a)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; PM_{25} -Particulate matter size less than 2.5 Micron, PM_{30} -Particulate matter size less than 10 Micron; SO_2 -Sulphur dioxide; NO_2 - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m^3); O_3 -Ozone(DL 10 $\mu g/m^3$); NO_3 -Ammonia (DL 5 $\mu g/m^3$); PO_3 -Lead (DL 0.05 $\mu g/m^3$); PO_3 -Nitrogen-di-oxide; PO_3 -Nitrogen-di-oxi

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

(Dr K GANESAN) Authorized Signatory

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TEST REPORT

Page 2 of 3 Customer M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL) Project Site/ Address Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India. Sampling Location Pre-cotton Cleaning System Sample Description AAQ2: Ambient Air Quality Monitoring Date of sampling & Receipt 19.12.2019 & 20.12.2019 Date of commencement of analysis 23.12.2019 Date of completion of analysis 06.01.2020 Sample Collected by Hubert Enviro Care Systems (P) Ltd Report Date 06.01.2020 Report No HECS/A/002/211219 Instruments Used Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

RESULTS OF AMBIENT AIR QUALITY MONITORING - DECEMBER 2019

s.no.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS : 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	Sulphur Dioxide	μg/m³	11.4	80 (24 hours)	50 (Annual)
2.	Nitrogen Dioxide	- µg/m³	16.2	80 (24 hours)	40 (Annual)
3.	Particulate Matter <10μm	μg/m³	43.0	100 (24 hours)	60 (Annual)
4.	Particulate Matter <2.5µm	μg/m³	18.3	60 (24 hours)	40 (Annual)
5.	Carbon Monoxide	mg/m³	0.11	4 (1 hours)	2 (8 hours)
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)
12.	Nickel .	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 2.5 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)

NO₂: IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

B(α)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; PM_{25} -Particulate matter size less than 2.5 Micron, PM_{10} -Particulate matter size less than 10 Micron; SO_2 Sulphur dioxide; NO_2 - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³); O_3 -Ozone(DL 10 μ g/m³); NH_3 -Ammonia (DL 5 μ g/m²); Pb-Lead (DL 0.05 μ g/m³); As-Arsenic (DL 0.1 ng/m³); Ni-Nickel (DL 0.5 ng/m³); Benzene-(DL 1 μ g/m³); $B(\alpha)P$ - Benzo - α -pyrene (DL0.5 ng/m³); $B(\alpha)P$ - Renzo $B(\alpha)P$ - Renzo

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

(Dr K GANESAN)

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TEST REPORT

Page 3 of 3 Customer M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL) Project Site/ Address Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India. Sampling Location Near WTP Sample Description AAQ3: Ambient Air Quality Monitoring Date of sampling & Receipt 20.12.2019 & 21.12.2019 Date of commencement of analysis 23.12.2019 Date of completion of analysis 06.01.2020 Sample Collected by Hubert Enviro Care Systems (P) Ltd Report Date 06.01.2020 Report No HECS/A/003/211219 Instruments Used Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

RESULTS OF AMBIENT AIR QUALITY MONITORING - DECEMBER 2019

s.no.	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS: 2009	
				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	Sulphur Dioxide	μg/m³	17.5	80 (24 hours)	50 (Annual)
2.	Nitrogen Dioxide	μg/m³	25.3	, 80 (24 hours)	40 (Annual)
3.	Particulate Matter <10µm	· μg/m³	30.4	100 (24 hours)	60 (Annual)
4.	Particulate Matter <2.5µm	μg/m³	14.1	60 (24 hours)	40 (Annual)
5.	Carbon Monoxide	mg/m³	0.13	4 (1 hours)	2 (8 hours)
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)
8.	Ammonia -	- μg/m³	BDL (DL 5)	400 (24 hours) ·	100 (Annual)
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)
11.	Arsenic '	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)

Test Methods Followed:

: IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 25 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) SO2

: IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)

: IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method) NO₂

0, : HECS/AIR/SOP/005 Issue 02 dt. 13.05.2018 based on CPCB guidelines vol. I (2011) NH. : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

co : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

: GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011) CaHa

B(a)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL ≖Below detection limit; DL - Detection Limit; PM_{2.5}-Particulate matter size less than 2.5 Micron, PM₁₀-Particulate matter size less than 10 Micron; SO₂ Sulphur dioxide; NO₃ - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³);O₃-Ozone(DL 10 µg/m³);NH₃-Ammonia (DL 5 µg/m³); Pb-Lead (DL 0.05 µg/m³);As-Arsenic (DL 0.1 ng/m³); Ni-Nickel (DL 0.5 ng/m³); Benzene-(DL 1 μg/m³); B(α)P- Benzo -α-pyrene (DL0.5 ng/m³); ng/m³: nanogram per cubic meter; μg/m³ - microgram per cubic meter.

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

(Dr K GANESAN) **Authorized Signatory**

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TEST REPORT

Page No. 1 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)		
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,		
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.		
Stack ID	Pulp Mill 6 meters		
Sample Description	Indoor Air Quality Monitoring		
Sampling Date	19.12.2019		
Sample Received Date	21.12.2019		
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,		
Analysis Commenced On	23.12.2019		
Completed On	26.12.2019		
Report Date	30.12.2019		
Report No	HECS/IAQ/001/211219		

RESULTS OF INDOOR AIR QUALITY MONITORING - DECEMBER 2019

Parameter monitored	Results obtained	OSHA Std. Limit	Test Method Followed
Particulate Matter, PM	14.5 μg/m ³	5000 μg/m³ (5 mg/Nm³)	IS 11255: (Part 1): 1985 (RA 2003)

Note: mg/Nm³: milligram per normal cubic meter; µg/Nm³: microgram per normal cubic meter; PM: Particulate Matter; OSHA - Occupational Safety and Health Administration

End of Report

INFERENCE As per OSHA Standards, PM value is within the limits

Authorized Signatory

Or K Ganesan - Lab Manager)

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TEST REPORT

Page No. 2 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)		
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,		
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.		
Stack ID	Fire Fighting Diesel Pump		
Sample Description	Manual Stack Emission Monitoring		
Sampling Date	19.12.2019		
Sample Received Date	21.12.2019		
Thimble No.	R101707		
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,		
Analysis Commenced On	23.12.2019		
Completed On	27.12.2019		
Report Date	30.12.2019		
Report No	HECS/ST/001/211219		

EMISSION AIR FROM STACK / CHIMNEY MONITORING - DECEMBER 2019

General Details	
Source of Fuel	Diesel
Ambient temperature	32 °C
Flue Gas Temperature	259 °C
Stack Height	10 meters
Diameter	0.15 meters
Discharge Rate	23.1 LPM
Velocity	8.8 m/s

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	59.7 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	19.3 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	79.2 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	96.1 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	11.0 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million;

% -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits

Authorized Signatory

Or K Ganesan - Lab Manager)

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TEST REPORT

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Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)		
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.		
Stack ID	10 TPH oil fired Boiler - A		
Sample Description	Manual Stack Emission Monitoring		
Sampling Date	19.12.2019		
Sample Received Date	21.12.2019		
Thimble No.	R101720		
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,		
Analysis Commenced On	23.12.2019		
Completed On	27.12.2019		
Report Date	30.12.2019		
Report No	HECS/ST/002/211219		

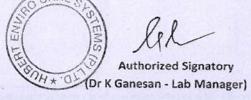
EMISSION AIR FROM STACK / CHIMNEY MONITORING - DECEMBER 2019

General Details	
Source of Fuel	Furnace Oil
Ambient temperature	32 °C
Flue Gas Temperature	168 °C
Stack Height	46 meters
Diameter	1.8 meters
Discharge Rate	17.0 LPM
Velocity	4.0 m/s

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM .	60.5 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	42.6 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	102.0mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	119.2 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	15.9 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
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TEST REPORT

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Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)		
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.		
Stack ID	1500 kVA DG Set		
Sample Description	Manual Stack Emission Monitoring		
Sampling Date	20.12.2019		
Sample Received Date	21.12.2019		
Thimble No.	R102269		
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,		
Analysis Commenced On	23.12.2019		
Completed On	27.12.2019		
Report Date	30.12.2019		
Report No	HECS/ST/003/211219		

EMISSION AIR FROM STACK / CHIMNEY MONITORING - DECEMBER 2019

General Details	
Source of Fuel	Diesel
Ambient temperature	32 °C
Flue Gas Temperature	149 °C
Stack Height	33 meters
Diameter	0.3 meters
Discharge Rate	24.2 LPM
Velocity	12.8 m/s

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	71.2 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	29.5 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	107.5 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	128.4 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	13.9 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm3: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million;

% -Percentage; NMHC- Non-methane Hydro Carbons

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Authorized Signatory (Dr K Ganesan - Lab Manager)

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	rage No. 3 of		
Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)		
Project Site/ Address Administrative Office Building, Entry Gate. 1, Paper Mill Compound,			
	Note Mudran Nagar; Mysuru - 570003, Karnataka, India.		
Stack ID	10 TPH oil fired Boiler - B		
Sample Description	Manual Stack Emission Monitoring		
Sampling Date	20.12.2019		
Sample Received Date	21.12.2019		
Thimble No.	R102264		
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,		
Analysis Commenced On	23.12.2019		
Completed On	27.12.2019		
Report Date	30.12.2019		
Report No	HECS/ST/004/211219		

EMISSION AIR FROM STACK / CHIMNEY MONITORING - DECEMBER 2019

General Details	
Source of Fuel	Furnace Oil
Ambient temperature	31 °C
Flue Gas Temperature	169 °C
Stack Height	56 meters
Diameter	2.0 meters
Discharge Rate	17.4 LPM
Velocity .	4.2 m/s

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	83.1 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	37.4 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	96.8 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	114.6 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	16.9 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits



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POLLU TECH AIDS

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(NABL Accredited Testing Lab as per ISO/IEC 17025:2005)



Off. 080-23492130, Res.: 23490488, E-mail: drrpdambal@gmail.com

Date : Dec 24th; 2019

ANALYSIS REPORT OF POTABLE WATER SAMPLE

Name of the Company	M/s Bank Note Paper Mill India Pvt. Ltd.,		
Address	Administrative office Building, Entry Gate.1, Paper Mill compound,		
	Note Mudran Nagar, Mysuru – 570003		
Sample Particulars	Potable Water Sample		
Sample Received on	Dec 16 th , 2019		
Date of analysis	Dec 17 th , 2019		
Sample ID	1487 – 2/W		
ULR Number	TC629719000000663P		
Discipline	Chemical Testing		
Group	Water		

Sl. No.	Parameters	Protocol	Units	Results	Standard Limit (Required - permissible)
01	Colour in hazen units	IS 3025 (part 4) 2017	Hazen Units	<5	5 - 15
02	Odour *	IS 3025 (part 5) 2017	-	Agreeable	Agreeable
03	Turbidity (as NTU) *	IS 3025 (part 10) 2017	NTU	1.0	1 - 5
04	Total Dissolved Solids	IS 3025 (part 16) 2017	mg/L	122	500 - 2000
05	pH Value	IS 3025 (part 11) 2017	pH	7.0	6.5 - 8.5
06	Total Hardness (as CaCO ₃)	IS 3025 (part 21) 2019	mg/L	68	200 - 600
07	Calcium (as Ca)	IS 3025 (part 40) 2019	mg/L	40	75 - 200
08	Magnesium	IS 3025 (part 46) 2019	mg/L	6.8	30 - 100
09	Chloride (as Cl)	IS 3025 (part 32) 2019	mg/L	32	250 - 1000
10	Sulphate (as SO ₄)	IS 3025 (part 24) 2019	mg/L	11.4	200 - 400
11	Nitrate (as NO ₃)	IS 3025 (part 34) 2019	mg/L	BDL	45
12	Iron (as Fe)	IS 3025 (part 53) 2019	mg/L	BDL	0.3
13	Fluoride (as F)	APHA 4500 - F - D	mg/L	BDL	1.0 - 1.5
14	Copper (as Cu) *	IS 3025 (part 42) 2019	mg/L	BDL	0.05 - 1.5
15	Manganese (as Mn)*	IS 3025 (part 59) 2017	mg/L	BDL	0.1 - 0.3
16	Selenium (as Se) *	IS 3025 (part 56) 2019	mg/L	BDL	0.01
17	Zinc (as Zn) *	IS 3025 (part 49) 2019	mg/L	BDL	5 - 15

Continuation Sheet ...

18	Free Residual Chlorine (FRC)	IS 3025 (part 26) 2019	mg/L	BDL	0.2 - 1.0
19	Arsenic (as As)	IS 3025 (part 37) 2019	mg/L	BDL	0.01 - 0.05
20	Cyanide (as CN) *	IS 3025 (part 27) 2019	mg/L	BDL	0.05
21	Lead (as Pb) *	IS 3025 (part 47) 2019	mg/L	BDL	0.01
22	Mercury (as Hg) *	IS 3025 (part 48) 2019	mg/L	BDL	0.001
23	Cadmium (as Cd) *	IS 3025 (part 41) 2019	mg/L	BDL	0.003
24	Chromium (as Cr) *	IS 3025 (part 52) 2019	mg/L	BDL	0.05
25	Total Coliform bacteria/100ml*	IS: 1622		<1	10/100ml
26	E. Coli/100ml*	IS: 1622		<1	10/100ml

Note: 1. This certificate is related only to the sample tested.

2. Sample Analysis done as per BIS/APHA method.

3. BDL = Below Detectable Limit.

4. * Tests are not under the scope of NABL Accreditation.

5. Samples will be destroyed after one week from the date of issue of test certificate unless otherwise specified. Perishable samples will not be retained.

6. This Test Report shall not be reproduced without written permission of the Laboratory.

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Analyzed by

Verified by

Authorized Signatory

Dr. R.P. Dambal



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(NABL Accredited Testing Lab as per ISO/IEC 17025:2005)



Off. 080-23492130, Res.: 23490488, E-mail: drrpdambal@gmail.com

Date : Dec 24th, 2019

ANALYSIS REPORT OF ETP TREATED EFFLUENT WATER SAMPLE

Name of the Company	M/s Bank Note Paper Mill India Pvt. Ltd.,	
Address	Administrative office Building, Entry Gate.1, Paper Mill compound, Note Mudran Nagar, Mysuru – 570003	
Sample Particulars	ETP Treated Effluent Water Sample	
Sample Collected on	Dec 16 th , 2019	
Date of analysis	Dec 17 th , 2019	
Sample ID	1487 – 1/WW	
ULR Number	TC629719000000662P	
Discipline	Chemical Testing	
Group	Pollution & Environment	

SI. No.	Parameters	Protocol	Units	Results	Standard Limit
1.	Colour	IS 3025 (part 4) 2017	Hazen Units	<5	5-15
2.	Odour *	IS 3025 (part 5) 2017		Agreeable	Agreeable
3.	pH Value	IS 3025 (part 11) 2017	pH	7.9	5.5-9.0
4.	Total Suspended Solids	IS 3025 (part 17) 2017	mg/L	16.4	100
5.	Oil & Grease	IS 3025 (part 39) 2019	mg/L	BDL	10
6.	BOD (5Days at 20°C)	IS 3025 (Part 44) 2019, Winkler Method	mg/L	19.8	30
7.	COD	IS 3025 (part 58) 2017, Open Reflux method	mg/L	104	250.0

Note: 1. This certificate is related only to the sample tested.

2. Sample Analysis done as per BIS method.

3. BDL = Below Detectable Limit.

4.*Tests are not under the scope of NABL Accreditation.

Samples will be destroyed after one week from the date of issue of test certificate unless otherwise specified. Perishable samples will not be retained

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Analyzed by

Verified by O No. 16, Nain, A Stage 2nd Phase, 2nd Phase, MCR

Authorized signatory

Dr. R.P Damba

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TEST REPORT

Page No. 2 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	10 TPH oil fired Boiler - A
Sample Description	Manual Stack Emission Monitoring
Sampling Date	29.01.2020
Sample Received Date	31.01.2020
Thimble No.	A 1394
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	01.02.2020
Completed On	06.02.2020
Report Date	07.02.2020
Report No	HECS/ST/002/310120

EMISSION AIR FROM STACK / CHIMNEY MONITORING - JANUARY 2020

General Details		MEAS.
Source of Fuel	Furnace Oil	
Ambient temperature	32 °C	3200
Flue Gas Temperature	164 °C	
Stack Height	46 meters	1000
Diameter	1.235 meters	
Velocity	4.0 m/s	.*
Volume of gas discharge	11,473 Nm³/hr	1250

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM [*]	43.8 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	58.6 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	127.6 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	119.5 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	15.2 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits



Authorized Signatory (Dr K Ganesan - Lab Manager)

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Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)		
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.		
Stack ID	1500 kVA DG Set		
Sample Description	Manual Stack Emission Monitoring		
Sampling Date	29.01.2020		
Sample Received Date	31.01.2020		
Thimble No.	A 1392		
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,		
Analysis Commenced On	01.02.2020		
Completed On	06.02.2020		
Report Date	07.02.2020		
Report No	HECS/ST/003/310120		

EMISSION AIR FROM STACK / CHIMNEY MONITORING - JANUARY 2020

General Details	_		
Source of Fuel	Diesel		
Ambient temperature	31 °C		
Flue Gas Temperature	144 °C		
Stack Height	33 meters		
Diameter	0.3 meters	3:	NAME OF THE PARTY
Velocity	12.5 m/s		
Volume of gas discharge	2206.3 Nm ³ /hr		1000

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	59.5 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	40.5 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	112.3 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	117.6 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	12.5 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits

Authorized Signatory K Ganesan - Lab Manager)

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TEST REPORT

Page No. 4 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)		
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,		
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.		
Stack ID	10 TPH oil fired Boiler - B		
Sample Description	Manual Stack Emission Monitoring		
Sampling Date	29.01.2020		
Sample Received Date	31.01.2020		
Thimble No.	A 1384		
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,		
Analysis Commenced On	01.02.2020		
Completed On	06.02.2020		
Report Date	07.02.2020		
Report No	HECS/ST/004/310120		

EMISSION AIR FROM STACK / CHIMNEY MONITORING - JANUARY 2020

General Details	
Source of Fuel	Furnace Oil
Ambient temperature	31 °C
Flue Gas Temperature	157 °C
Stack Height	56 meters
Diameter	1.8 meters
Velocity	7.7 m/s
Volume of gas discharge	47,780 Nm³/hr

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	72.4 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	67.2 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	142.7 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	132.5 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	17.4 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
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Authorized Signatory

OH + OF K Ganesan - Lab Manager)

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TEST REPORT

Page No. 5 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Stack ID	Fire Fighting Diesel Pump	
Sample Description	Manual Stack Emission Monitoring	
Sampling Date	30.01.2020	
Sample Received Date	31.01.2020	
Thimble No.	A 1398	
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,	
Analysis Commenced On	01.02.2020	
Completed On	06.02.2020	
Report Date	07.02.2020	
Report No	HECS/ST/005/310120	

EMISSION AIR FROM STACK / CHIMNEY MONITORING - JANUARY 2020

General Details	
Source of Fuel	Diesel
Ambient temperature	32 °C
Flue Gas Temperature	256 °C
Stack Height	10 meters
Diameter	0.15 meters
Velocity	48.37 m/s
Volume of gas discharge	1688 Nm³/hr

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	47.5 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	34.8 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
O _x 65.7 mg/Nm ³		710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	87.6 mg/Nm ³	Im ³ 150 mg/Nm ³ Flue Gas analyser - Madur GA	
NMHC (as C) 13.5 mg/Nm ³ 100 mg/Nm ³ USEPA method 25		USEPA method 25	

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits

Authorized Signatory
(Dr K Ganesan - Lab Manager)

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Laboratory Services Division

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Certificate No. TC-5786

TEST REPORT

Page 3 of 3

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,	
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Sampling Location	Near WTP	
Sample Description	AAQ 3: Ambient Air Quality Monitoring	
Date of sampling & Receipt	30.01.2020 & 31.01.2020	
Date of commencement of analysis	01.02.2020	
Date of completion of analysis	10.02.2020	
Sample Collected by	Hubert Enviro Care Systems (P) Ltd	
Report Date	13.02.2020	
Report No	HECS/A/003/310120	
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini	

RESULTS OF AMBIENT AIR QUALITY MONITORING - JANUARY 2020

				NAAQ STANDARDS: 2009		
s.no.	PARAMETERS	UNITS	RESULTS	Industrial, Residential, Rural and Other Areas		
1.	Sulphur Dioxide	μg/m³	16.8	80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	24.5	80 (24 hours)	40 (Annual)	
3.	Particulate Matter <10μm	μg/m³	33.6	100 (24 hours)	60 (Annual)	
4.	Particulate Matter <2.5µm	μg/m³	14.8	60 (24 hours)	40 (Annual)	
5.	Carbon Monoxide	mg/m³	0.14	4 (1 hours)	2 (8 hours)	
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

: IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric) PM 10

PM 2.5 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method) NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

03 : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

co : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

: GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011) C₆H₆

B(a)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; PM2.5-Particulate matter size less than 2.5 Micron, PM30-Particulate matter size less than 10 Micron; SO2 Sulphur dioxide; NO₂ - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³);O₃-Ozone(DL 10 µg/m³);NH₃-Ammonia (DL 5 µg/m³); Pb-Lead (DL 0.05 µg/m³);As-Arsenic (DL 0.1 ng/m³); Ni-Nickel (DL 0.5 ng/m³); Benzene-(DL 1 μg/m³); B(α)P- Benzo -α-pyrene (DL0.5 ng/m³); ng/m³: nanogram per cubic meter; μg/m³ - microgram per cubic meter.

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

athorized Signatory

(Dr K GANESAN)

CARE

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TEST REPORT

Page No. 1 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)		
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,		
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.		
Stack ID	Pulp Mill 6 meters		
Sample Description	Indoor Air Quality Monitoring		
Sampling Date	29.01.2020		
Sample Received Date	31.01.2020		
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,		
Analysis Commenced On	01.02.2020		
Completed On	03.02.2020		
Report Date	03.02.2020		
Report No	HECS/IAQ/001/310120		

RESULTS OF INDOOR AIR QUALITY MONITORING - JANUARY 2020

Parameter monitored	Results obtained	OSHA Std. Limit	Test Method Followed
Particulate Matter, PM	13.8 μg/m ³	5000 μg/m ³ (5 mg/Nm ³)	IS 11255: (Part 1): 1985 (RA 2003)

Note: mg/Nm³: milligram per normal cubic meter; µg/Nm³: microgram per normal cubic meter; PM: Particulate Matter; OSHA - Occupational Safety and Health Administration

INFERENCE As per OSHA Standards, PM value is within the limits

End of Report

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HECS/Q/FMT/50

Authorized Signatory

Or K Ganesan - Lab Manager)

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Certificate No. TC-5786

TEST REPORT

Page 1 of 3

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,	
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Sampling Location	Near Main Gate	
Sample Description	AAQ 1: Ambient Air Quality Monitoring	
Date of sampling & Receipt	28.01.2020 & 31.01.2020	
Date of commencement of analysis	01.02.2020	
Date of completion of analysis	10.02.2020	
Sample Collected by	Hubert Enviro Care Systems (P) Ltd	
Report Date	13.02.2020	
Report No	HECS/A/001/310120 .	
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini	

RESULTS OF AMBIENT AIR QUALITY MONITORING - JANUARY 2020

				NAAQ STAI	NDARDS: 2009
s.no.	PARAMETERS	UNITS RESULTS		Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	Sulphur Dioxide	μg/m³	13.6	80 (24 hours)	50 (Annual)
2.	Nitrogen Dioxide	μg/m³	17.2	80 (24 hours)	40 (Annual)
3.	Particulate Matter <10µm	μg/m³	44.1	100 (24 hours)	60 (Annual)
4.	Particulate Matter <2.5μm	μg/m³	30.7	60 (24 hours)	40 (Annual)
5.	Carbon Monoxide	mg/m³	0.18	4 (1 hours)	2 (8 hours)
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 2.5 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

: IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method) SO₂ NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

: HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) 03

: HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011) NH₂

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

B(a)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; PM2.5-Particulate matter size less than 2.5 Micron, PM10-Particulate matter size less than 10 Micron; SO2 Sulphur dioxide; NO₂ - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³);O₃-Ozone(DL 10 µg/m³);NH₃-Ammonia (DL 5 µg/m³); Pb-Lead (DL 0.05 µg/m³);As-Arsenic (DL 0.1 ng/m³);Ni-Nickel (DL 0.5 ng/m³); Benzene-(DL 1 μg/m³);B(α)P- Benzo -α-pyrene (DL0.5 ng/m³); ng/m³: nanogram per cubic meter; μg/m³ - microgram per cubic meter.

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDABI

*****End of Report *****

(Dr K GANESAN) **Authorized Signatory**

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TEST REPORT

Page 2 of 3

	rage Z
Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Sampling Location	Pre-cotton Cleaning System
Sample Description	AAQ 2: Ambient Air Quality Monitoring
Date of sampling & Receipt	29.01.2020 & 31.01.2020
Date of commencement of analysis	01.02.2020
Date of completion of analysis	10.02.2020
Sample Collected by	Hubert Enviro Care Systems (P) Ltd
Report Date	13.02.2020
Report No	HECS/A/002/310120
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

RESULTS OF AMBIENT AIR QUALITY MONITORING - JANUARY 2020

	PARAMETERS			NAAQ STANDARDS: 2009		
S.NO.		UNITS	RESULTS	Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)	
1.	Sulphur Dioxide	μg/m³	12.6	80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	15.5	80 (24 hours)	40 (Annual)	
3.	Particulate Matter <10µm	μg/m³	43.4	100 (24 hours)	60 (Annual)	
4.	Particulate Matter <2.5µm	μg/m³	17.9	60 (24 hours)	40 (Annual)	
5.	Carbon Monoxide	mg/m³	0.12	4 (1 hours)	2 (8 hours)	
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 2.5 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂: IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)

NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

B(α)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; $PM_{2.5}$ -Particulate matter size less than 2.5 Micron, PM_{10} -Particulate matter size less than 10 Micron; SO_2 Sulphur dioxide; NO_2 - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m^3); O_2 -Ozone(DL 10 $\mu g/m^3$); NH_3 -Ammonia (DL 5 $\mu g/m^3$); P-Lead (DL 0.05 $\mu g/m^3$); Assenic (DL 0.1 $\mu g/m^3$); P-Ni-Nickel (DL 0.5 $\mu g/m^3$); P-Benzo -P-Particulate matter size less than 10 Micron; P-Particulate matter size less than 10 Micron; P-Particulate matter size less than 2.5 Micron, P-Maior Particulate matter size less than 10 Micron; P-Maior Particulate matter size less than 10 Micron; P-Particulate matter size less than 10 Micron; P-Maior Particulate matter size less than 10 Micron; P-Maior Particulate matter size less than 10 Micron; P-Particulate matter

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARD

*****End of Report *****

(Dr K GANESAN)

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(NABL Accredited Testing Lab as per ISO/IEC 17025:2017)



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Date :.....

Jan 24th, 2020

ANALYSIS REPORT OF ETP TREATED EFFLUENT WATER SAMPLE

Name of the Company	M/s Bank Note Paper Mill India Pvt. Ltd.,		
Address	Administrative office Building, Entry Gate.1, Paper Mill compound,		
	Note Mudran Nagar, Mysuru – 570003		
Sample Particulars	ETP Treated Effluent Water Sample		
Sample Collected on	Jan 13 th , 2020		
Date of analysis	Jan 14 th , 2020		
Sample ID	1502 – 1/WW		
ULR Number	TC629720000000039P		
Discipline	Chemical Testing		
Group	Pollution & Environment		

Sl. No.	Parameters	Protocol	Units	Results	Standard Limit	
1.	Colour	IS 3025 (part 4) 2017	Hazen Units	<5	5 – 15	
2.	Odour *	IS 3025 (part 5) 2017	THE PARTY OF THE	Agreeable	Agreeable	
3.	pH Value	IS 3025 (part 11) 2017	pН	8.2	5.5-9.0	
4.	Total Suspended Solids	IS 3025 (part 17) 2017	mg/L	9.1	100	
5.	Oil & Grease	IS 3025 (part 39) 2019	mg/L	BDL	10	
6.	BOD (5Days at 20°C)	IS 3025 (Part 44) 2019, Winkler Method	mg/L	12.6	30	
7.	COD	IS 3025 (part 58) 2017, Open Reflux method	mg/L	64	250.0	
8.	Adsorbable Organically Bound Halogens (AOX)*	IS 3025 (part 70) 2018	mg/L	BDL	-	

Note: 1. This certificate is related only to the sample tested.

2. Sample Analysis done as per BIS method.

3. BDL = Below Detectable Limit.

4.*Tests are not under the scope of NABL Accreditation.

Samples will be destroyed after one week from the date of issue of test certificate unless otherwise specified. Perishable samples will not be retained

6. This Test Report shall not be reproduced without written permission of the Laboratory.

Analyzed by

Verified by

Authorized Signatory

Dr. R.P Dambal



POLLU TECH AIDS

(Air & Water Pollution Control Consultants and Turnkey Contractors)

(NABL Accredited Testing Lab as per ISO/IEC 17025:2017)



Off.: 080-23492130, 080-29550488, E-mail: drrpdambal@gmail.com

ANALYSIS REPORT OF POTABLE WATER SAMPLE

Name of the Company	M/s Bank Note Paper Mill India Pvt. Ltd.,		
Address	Administrative office Building, Entry Gate.1, Paper Mill compound,		
	Note Mudran Nagar, Mysuru – 570003		
Sample Particulars	Potable Water Sample		
Sample Received on	Jan 13 th , 2020		
Date of analysis	Jan 14 th , 2020		
Sample ID	1502 – 2/W		
ULR Number	TC629720000000040P		
Discipline	Chemical Testing		
Group	Water		

Sl. No.	Parameters	Protocol	Units	Results	Standard Limit (Required - permissible)
01	Colour in hazen units	IS 3025 (part 4) 2017	Hazen Units	<5	5 - 15
02	Odour *	IS 3025 (part 5) 2017		Agreeable	Agreeable
03	Turbidity (as NTU) *	IS 3025 (part 10) 2017	NTU	1.0	1 - 5
04	Total Dissolved Solids	IS 3025 (part 16) 2017	mg/L	91	500 - 2000
05	pH Value	IS 3025 (part 11) 2017	pH	7.5	6.5 - 8.5
06	Total Hardness (as CaCO ₃)	IS 3025 (part 21) 2019	mg/L	56	200 - 600
07	Calcium (as Ca)	IS 3025 (part 40) 2019	mg/L	32	75 - 200
08	Magnesium	IS 3025 (part 46) 2019	mg/L	5.8	30 - 100
09	Chloride (as Cl)	IS 3025 (part 32) 2019	mg/L	20	250 - 1000
10	Sulphate (as SO ₄)	IS 3025 (part 24) 2019	mg/L	8.6	200 - 400
11	Nitrate (as NO ₃)	IS 3025 (part 34) 2019	mg/L	BDL	45
12	Iron (as Fe)	IS 3025 (part 53) 2019	mg/L	BDL	0.3
13	Fluoride (as F)	APHA 4500 - F - D	mg/L	BDL	1.0 - 1.5
14	Copper (as Cu) *	IS 3025 (part 42) 2019	mg/L	BDL	0.05 - 1.5
15	Manganese (as Mn)*	IS 3025 (part 59) 2017	mg/L	BDL	0.1 - 0.3
16	Selenium (as Se) *	IS 3025 (part 56) 2019	mg/L	BDL	0.01
17	Zinc (as Zn) *	IS 3025 (part 49) 2019	mg/L	BDL	5 - 15



Continuation Sheet ...

18	Free Residual Chlorine (FRC)	IS 3025 (part 26) 2019	mg/L	BDL	0.2 - 1.0
19	Arsenic (as As) *	IS 3025 (part 37) 2019	mg/L	BDL	0.01 - 0.05
20	Cyanide (as CN) *	IS 3025 (part 27) 2019	mg/L	BDL	0.05
21	Lead (as Pb) *	IS 3025 (part 47) 2019	mg/L	BDL	0.01
22	Mercury (as Hg) *	IS 3025 (part 48) 2019	mg/L	BDL	0.001
23	Cadmium (as Cd) *	IS 3025 (part 41) 2019	mg/L	BDL	0.003
24	Chromium (as Cr) *	IS 3025 (part 52) 2019	mg/L	BDL	0.05
25	Total Coliform bacteria/100ml*	IS:15185:2016		Absent	Shall not be detectable in any 100ml sample
26	E. Coli/100ml*	IS:15185:2016		Absent	Shall not be detectable in any 100ml sample

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Note: 1. This certificate is related only to the sample tested.

2. Sample Analysis done as per BIS/APHA method.

3. BDL = Below Detectable Limit.

4. * Tests are not under the scope of NABL Accreditation.

5. Samples will be destroyed after one week from the date of issue of test certificate unless otherwise specified. Perishable samples will not be retained.

6. This Test Report shall not be reproduced without written permission of the Laboratory.

Analyzed by

Verified by

Authorized Signatory

Dr. R.P. Dambal

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Certificate No. TC-5786

TEST REPORT

Page 1 of 3

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,	
Sampling Location	Note Mudran Nagar, Mysuru - 570003, Karnataka, India. Near Main Gate	
Sample Description	AAQ 1: Ambient Air Quality Monitoring	
Date of sampling & Receipt	25.02.2020 & 28.02.2020	
Date of commencement of analysis	29.02.2020	
Date of completion of analysis	10.03.2020	
Sample Collected by	Hubert Enviro Care Systems (P) Ltd	
Report Date	12.03.2020	55.5
Report No	HECS/A/001/290220	1000
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini	

RESULTS OF AMBIENT AIR QUALITY MONITORING - FEBRUARY 2020

	PARAMETERS			NAAQ STANDARDS: 2009		
S.NO.		UNITS	RESULTS	Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)	
1.	Sulphur Dioxide	μg/m³	13.1	80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	16.8	80 (24 hours)	40 (Annual)	
3.	Particulate Matter <10μm	μg/m³	43.6	100 (24 hours)	60 (Annual)	
4.	Particulate Matter <2.5µm	μg/m³	32.3	60 (24 hours)	40 (Annual)	
5.	Carbon Monoxide	mg/m³	0.21	4 (1 hours)	2 (8 hours)	
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 25 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)

NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)
O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

· B(α)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; $PM_{2.9}$ -Particulate matter size less than 2.5 Micron, PM_{10} -Particulate matter size less than 10 Micron; SO_2 Sulphur dioxide; NO_2 - Nitrogen-di-oxide; CO_3 - Carbon Mono Oxide (DL 0.1 mg/m^3); CO_3 -Ozone(DL 10 $\mu g/m^3$); CO_3 -Ammonia (DL 5 $\mu g/m^3$); CO_3 -Pb-Lead (DL 0.05 $\mu g/m^3$); CO_3 -Pb-Lead (DL 0.1 $\mu g/m^3$); CO_3 -Pb-Lead (DL 0.5 $\mu g/m^3$);

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

(Dr K GANESAN) Authorized Signatory

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TEST REPORT

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	rage 2 O
Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Sampling Location	Cotton Pre-cleaning System
Sample Description	AAQ 2: Ambient Air Quality Monitoring
Date of sampling & Receipt	26.02.2020 & 28.02.2020
Date of commencement of analysis	29.02.2020
Date of completion of analysis	10.03.2020
Sample Collected by	Hubert Enviro Care Systems (P) Ltd
Report Date	12.03.2020
Report No	HECS/A/002/290220
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

RESULTS OF AMBIENT AIR QUALITY MONITORING - FEBRUARY 2020

	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS: 2009		
S.NO.				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)	
1.	Sulphur Dioxide	μg /m³	12.9	80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	15.8	80 (24 hours)	40 (Annual)	
3.	Particulate Matter <10µm	μg/m³	42.5	100 (24 hours)	60 (Annual)	
4.	Particulate Matter <2.5μm	μg/m³	19.1	60 (24 hours)	40 (Annual)	
- 5.	Carbon Monoxide	mg/m³	0.15	4 (1 hours)	2 (8 hours)	
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 2.5 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)
NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

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 Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report.
 The test results relate only to the test.

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

 $B(\alpha)P$: In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; PM_{2.5}-Particulate matter size less than 2.5 Micron, PM₁₀-Particulate matter size less than 10 Micron; SO₂ Sulphur dioxide; NO₂ - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³);O₃-Ozone(DL 10 μg/m³);NH₃-Ammonia (DL 5 μg/m³); Pb-Lead (DL 0.05 μg/m³);As-Arsenic (DL 0.1 ng/m³);Ni-Nickel (DL 0.5 ng/m³); Benzene-(DL 1 μg/m³);B(α)P- Benzo -α-pyrene (DL0.5 ng/m³); nanogram per cubic meter; μg/m³ - microgram per cubic meter.

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

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TEST REPORT

Page 3 of 3

Control	Page	e 3 of :
Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,	1
(A)	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Sampling Location	Near WTP	
Sample Description	AAQ 3: Ambient Air Quality Monitoring	
Date of sampling & Receipt	27.02.2020 & 28.02.2020	1000
Date of commencement of analysis	29.02.2020	
Date of completion of analysis	10.03.2020	
Sample Collected by	Hubert Enviro Care Systems (P) Ltd	
Report Date	12.03.2020	-
Report No	HECS/A/003/290220	
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini	

RESULTS OF AMBIENT AIR QUALITY MONITORING - FEBRUARY 2020

	PARAMETERS	UNITS	RESULTS	NAAQ STANDARDS: 2009		
s.no.				Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)	
1.	Sulphur Dioxide	μg/m³	15.9	80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	22.2	80 (24 hours)	40 (Annual)	
3.	Particulate Matter <10μm	μg/m³	35.7	100 (24 hours)	60 (Annual)	
4.	Particulate Matter <2.5μm	μg/m³	17.3	60 (24 hours)	40 (Annual)	
5.	Carbon Monoxide	mg/m³	0.11	4 (1 hours)	2 (8 hours)	
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 2.5 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)
NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

 $B(\alpha)P$: In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; PM_{2.5}-Particulate matter size less than 2.5 Micron, PM₂₀-Particulate matter size less than 10 Micron; SO₂ Sulphur dioxide; NO₂ - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³);O₃-Ozone(DL 10 μ g/m³);NH₃-Ammonia (DL 5 μ g/m³); Pb-Lead (DL 0.05 μ g/m³);As-Arsenic (DL 0.1 ng/m³);Ni-Nickel (DL 0.5 ng/m³); Benzene-(DL 1 μ g/m³);B(α)P- Benzo - α -pyrene (DL0.5 ng/m³); ng/m³: nanogram per cubic meter; μ g/m³ - microgram per cubic meter.

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

Dr K GANESAN) orized Signatory

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TEST REPORT

Page No. 1 of 6

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	Pulp Mill 6 meters
Sample Description	Indoor Air Quality Monitoring
Sampling Date	27.02.2020
Sample Received Date	28.02.2020
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	29.02.2020
Completed On	03.03.2020
Report Date	03.03.2020
Report No	HECS/IAQ/001/280220

RESULTS OF INDOOR AIR QUALITY MONITORING - FEBRUARY 2020

Parameter monitored	Results obtained	OSHA Std. Limit	Test Method Followed
Particulate Matter, PM	15.6 μg/m ³	5000 μg/m ³ (5 mg/Nm ³)	IS 11255: (Part 1): 1985 (RA 2003)

Note: mg/Nm³: milligram per normal cubic meter; µg/Nm³: microgram per normal cubic meter; PM: Particulate Matter; OSHA - Occupational Safety and Health Administration

INFERENCE As per OSHA Standards, PM value is within the limits

End of Report

Authorized Signatory Dr K Ganesan - Lab Manager)

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TEST REPORT

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Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Stack ID	10 TPH oil fired Boiler - A (Top)
Sample Description	Manual Stack Emission Monitoring
Sampling Date	26.02.2020
Sample Received Date	29.02.2020
Thimble No.	T-1
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	29.02.2020
Completed On	10.03.2020
Report Date	12.03.2020
Report No	HECS/ST/002/290220

EMISSION AIR FROM STACK / CHIMNEY MONITORING - FEBRUARY 2020

General Details		
Source of Fuel	Furnace Oil	
Ambient temperature	32 °C	Sintest Original
Flue Gas Temperature	- 137 °C · · · ·	
Stack Height	46 meters	
Diameter	1.8 meters	
Velocity	4.0 m/s	
Volume of gas discharge	26,007 Nm ³ /hr	

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	38.5 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	49.2 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	117.5 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	107.2 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	10.6 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits



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Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	10 TPH oil fired Boiler - A (Bottom)
Sample Description	Manual Stack Emission Monitoring
Sampling Date	26.02.2020 at 10 AM
Sample Received Date	29.02.2020
Thimble No.	T-5
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	29.02.2020
Completed On	10.03.2020
Report Date	12.03.2020
Report No	HECS/ST/003/290220

EMISSION AIR FROM STACK / CHIMNEY MONITORING - FEBRUARY 2020

General Details		
Source of Fuel	Furnace Oil	The same
Ambient temperature	32 °C	
Flue Gas Temperature	200 °C	
Stack Height	46 meters	
Diameter	2.0 meters	
Velocity	4.8 m/s	- n
Volume of gas discharge	33,397 Nm³/hr	1021

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	45.8 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	54.1 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	132.7 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	112.0 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	13.3 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits



Authorized Signatory Or K Ganesan - Lab Manager)

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TEST REPORT

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Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	1500 kVA DG Set
Sample Description	Manual Stack Emission Monitoring
Sampling Date	27.02.2020
Sample Received Date	29.02.2020
Thimble No.	T-3
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	29.02.2020
Completed On	10.03.2020
Report Date	12.03.2020
Report No	HECS/ST/004/290220

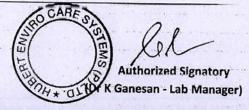
EMISSION AIR FROM STACK / CHIMNEY MONITORING - FEBRUARY 2020

General Details	
Source of Fuel	Diesel
Ambient temperature	32 °C
Flue Gas Temperature	146 °C
Stack Height	33 meters
Diameter	0.3 meters
Velocity	14.7 m/s
Volume of gas discharge	2587 Nm³/hr

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	58.4 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	42.6 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	141.3 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	118.7 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C) 16.81 mg/Nm		100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits



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TEST REPORT

Page No. 5 of 6

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	10 TPH oil fired Boiler - B
Sample Description	Manual Stack Emission Monitoring
Sampling Date	26.02.2020
Sample Received Date	29.02.2020
Thimble No.	T-4
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	29.02.2020
Completed On	10.03.2020
Report Date	12.03.2020
Report No	HECS/ST/005/290220

EMISSION AIR FROM STACK / CHIMNEY MONITORING - FEBRUARY 2020

General Details	
Source of Fuel	Furnace Oil
Ambient temperature	32 °C
Flue Gas Temperature	172 °C
Stack Height	56 meters
Diameter	1.8 meters
Velocity	4.0 m/s
Volume of gas discharge	24,804 Nm³/hr

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	58.9 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	49.1 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	117.5 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	104.7 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	12.6 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits



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Certificate No. TC-5786

TEST REPORT

Page No. 6 of 6

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	Fire Fighting Diesel Pump
Sample Description	Manual Stack Emission Monitoring
Sampling Date	27.02.2020
Sample Received Date	29.02.2020
Thimble No.	T-2
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	29.02.2020
Completed On	10.03.2020
Report Date	12.03.2020
Report No	HECS/ST/006/290220

EMISSION AIR FROM STACK / CHIMNEY MONITORING - FEBRUARY 2020

Diesel
32 °C
258 °C
10 meters
0.15 meters
48.4 m/s
1689 Nm³/hr

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	46.9 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	35.2 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	69.0 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	87.1 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	11.9 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits

Authorized Signatory Or K Ganesan - Lab Manager)

14.07

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(Air & Water Pollution Control Consultants and Turnkey Contractors)

(NABL Accredited Testing Lab as per ISO/IEC 17025:2017)



Off.: 080-23492130, 080-29550488, E-mail: drrpdambal@gmail.com

Date	
Dute	

Feb 20th, 2020

ANALYSIS REPORT OF ETP TREATED EFFLUENT WATER SAMPLE

Name of the Company M/s Bank Note Paper Mill India Pvt. Ltd.,		
Address	Administrative office Building, Entry Gate.1, Paper Mill compound, Note Mudran Nagar, Mysuru – 570003	
Sample Particulars	ETP Treated Effluent Water Sample	
Sample Collected on	Feb 11 th , 2020	
Date of analysis	Feb 12 th , 2020	
Sample ID	1513 – 1/WW	
ULR Number	TC629720000000126P	
Discipline	Chemical Testing	
Group	Pollution & Environment	

Sl. No.	Parameters	Protocol	Units	Results	Standard Limit
1.	Colour	IS 3025 (part 4) 2017	Hazen Units	<5	5-15
2.	Odour *	IS 3025 (part 5) 2017		Agreeable	Agreeable
3.	pH Value	IS 3025 (part 11) 2017	pН	8.0	5.5-9.0
4.	Total Suspended Solids	IS 3025 (part 17) 2017	mg/L	12.3	100
5.	Oil & Grease	IS 3025 (part 39) 2019	mg/L	BDL	10
6.	BOD (5Days at 20°C)	IS 3025 (Part 44) 2019, Winkler Method	mg/L	10.2	30
7.	COD	IS 3025 (part 58) 2017, Open Reflux method	mg/L	48	250.0
8.	Adsorbable Organically Bound Halogens (AOX)*	IS 3025 (part 70) 2018	mg/L	BDL	-

Note: 1. This certificate is related only to the sample tested.

2. Sample Analysis done as per BIS method.

3. BDL = Below Detectable Limit.

4.*Tests are not under the scope of NABL Accreditation.

Samples will be destroyed after one week from the date of issue of test certificate unless otherwise specified. Perishable samples will not be retained

6. This Test Report shall not be reproduced without written permission of the Laboratory.

Analyzed by

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No. 16,
No. 16,
Sth 'E' Main,
2nd Stage,
2nd Phase,
WCR
WCR
WCR
WCR
WCR

Authorized Signatory

Dr. R.P Dambal



POLLU TECH AIDS

(Air & Water Pollution Control Consultants and Turnkey Contractors)
(NABL Accredited Testing Lab as per ISO/IEC 17025:2017)



Off.: 080-23492130, 080-29550488, E-mail: drrpdambal@gmail.com

Date	!

Feb 20th, 2020

ANALYSIS REPORT OF POTABLE WATER SAMPLE

Name of the Company	M/s Bank Note Paper Mill India Pvt. Ltd.,			
Address	Administrative office Building, Entry Gate.1, Paper Mill compound, Note Mudran Nagar, Mysuru – 570003			
Sample Particulars	Potable Water Sample			
Sample Received on	Feb 11 th , 2020			
Date of analysis	Feb 12 th , 2020			
Sample ID	1513 – 2/W			
ULR Number	TC629720000000127P			
Discipline	Chemical Testing			
Group	Water			

Sl. No.	Parameters	Parameters Protocol		Results	Standard Limit (Required - permissible)	
01	Colour in hazen units	IS 3025 (part 4) 2017	Hazen Units	<5	5 - 15	
02	Odour*	IS 3025 (part 5) 2017		Agreeable	Agreeable	
03	Turbidity (as NTU) *	IS 3025 (part 10) 2017	NTU	1.0	1 - 5	
04	Total Dissolved Solids	IS 3025 (part 16) 2017	mg/L	138	500 - 2000	
05	pH Value	IS 3025 (part 11) 2017	pН	7.3	6.5 - 8.5	
06	Total Hardness (as CaCO ₃)	IS 3025 (part 21) 2019	mg/L	72	200 - 600	
07	Calcium (as Ca)	IS 3025 (part 40) 2019	mg/L	44	75 - 200	
08	Magnesium	IS 3025 (part 46) 2019	mg/L	3.9	30 - 100	
09	Chloride (as Cl)	IS 3025 (part 32) 2019	mg/L	28	250 - 1000	
10	Sulphate (as SO ₄)	IS 3025 (part 24) 2019	mg/L	13.6	200 - 400	
11	Nitrate (as NO ₃)	IS 3025 (part 34) 2019	mg/L	BDL	45	
12	Iron (as Fe)	IS 3025 (part 53) 2019	mg/L	BDL	0.3	
13	Fluoride (as F)	APHA 4500 - F - D	mg/L	BDL	1.0 - 1.5	
14	Copper (as Cu) *	IS 3025 (part 42) 2019	mg/L	BDL	0.05 - 1.5	
15	Manganese (as Mn)*	IS 3025 (part 59) 2017	mg/L	BDL	0.1 - 0.3	
16	Selenium (as Se) *	IS 3025 (part 56) 2019	mg/L	BDL	0.01	
17	Zinc (as Zn) *	IS 3025 (part 49) 2019	mg/L	BDL	5 - 15	



Continuation Sheet ...

18	Free Residual Chlorine (FRC)	IS 3025 (part 26) 2019	mg/L	BDL	0.2 - 1.0
19	Arsenic (as As) *	IS 3025 (part 37) 2019	mg/L	BDL	0.01 - 0.05
20	Cyanide (as CN) *	IS 3025 (part 27) 2019	mg/L	BDL	0.05
21	Lead (as Pb) *	IS 3025 (part 47) 2019	mg/L	BDL	0.01
22	Mercury (as Hg) *	IS 3025 (part 48) 2019	mg/L	BDL	0.001
23	Cadmium (as Cd) *	IS 3025 (part 41) 2019	mg/L	BDL	0.003
24	Chromium (as Cr) *	IS 3025 (part 52) 2019	mg/L	BDL	0.05
25	Total Coliform bacteria/100ml*	IS:15185:2016		Absent	Shall not be detectable in any 100ml sample
26	E. Coli/100ml*	IS:15185:2016	-	Absent	Shall not be detectable in any 100ml sample

Note: 1. This certificate is related only to the sample tested.

2. Sample Analysis done as per BIS/APHA method.

3. BDL = Below Detectable Limit.

4. * Tests are not under the scope of NABL Accreditation.

 Samples will be destroyed after one week from the date of issue of test certificate unless otherwise specified. Perishable samples will not be retained.

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2nd Stage.

Analyzed by

Verified by

Authorized Signatory

Dr. R.P. Dambal

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Certificate No. TC-5786

TEST REPORT

		rage I OI
Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,	
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Sampling Location	Near Main Gate	
Sample Description	AAQ 1: Ambient Air Quality Monitoring	
Date of sampling & Receipt	18.03.2020 & 23.03.2020	ELEVISIES.
Date of commencement of analysis	23.03.2020	
Date of completion of analysis	11.04.2020	
Sample Collected by	Hubert Enviro Care Systems (P) Ltd	Marke Mills
Report Date	13.04.2020	
Report No	HECS/A/001/230320	
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini	

RESULTS OF AMBIENT AIR QUALITY MONITORING - MARCH 2020

				NAAQ STANDARDS		
S.NO.	PARAMETERS	UNITS RESULTS	Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)		
1.	Sulphur Dioxide	μg/m³	11.5	80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	14.2	80 (24 hours)	40 (Annual)	
3.	Particulate Matter <10µm	μg/m³	45.8	100 (24 hours)	60 (Annual)	
4.	Particulate Matter <2.5μm	μg/m³	34.7	60 (24 hours)	40 (Annual)	
5.	Carbon Monoxide	mg/m³	0.25	4 (1 hours)	2 (8 hours)	
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7,	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

: HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) PM 2.5

: IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method) SO, NO2 : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

: HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011) NH. : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

co : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

: In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; PM2.5-Particulate matter size less than 2.5 Micron, PM10-Particulate matter size less than 10 Micron; SO2 Sulphur dioxide; NO₂ - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³);O₃-Ozone(DL 10 μg/m³);NH₃-Ammonia (DL 5 μg/m³); Pb-Lead (DL 0.05 μg/m³);As-Arsenic (DL 0.1 ng/m³);Ni-Nickel (DL 0.5 ng/m³); Benzene-(DL 1 μg/m³);B(α)P- Benzo -α-pyrene (DL0.5 ng/m³); ng/m³: nanogram per cubic meter; μg/m³ - microgram

per cubic meter. केंक चोट पंपर मिल इंडिया प्राइवेट लिमिटेड Bank Note Paper Mill India Pvt. Conclusion: ALL THE PARAMETERS MEET THE NAAQ STANDARD

*****End of Report ***

2 0 MAY 2020

मैस्र / MYSORE

आवक सं/Inward No....

or K GANESANI horized Signatory

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TEST REPORT

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		Page 2 or 3
Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)	
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,	
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.	
Sampling Location	Cotton Pre-cleaning System	
Sample Description	AAQ 2: Ambient Air Quality Monitoring	
Date of sampling & Receipt	19.03.2020 & 23.03.2020	
Date of commencement of analysis	23.03.2020	
Date of completion of analysis	11.04.2020	
Sample Collected by	Hubert Enviro Care Systems (P) Ltd	
Report Date	13.04.2020	
Report No	HECS/A/002/230320	
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini	

RESULTS OF AMBIENT AIR QUALITY MONITORING - MARCH 2020

	PARAMETERS		RESULTS	NAAQ STANDARDS: 2009		
S.NO.		UNITS		Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)	
1.	Sulphur Dioxide	μg /m³	13.4	80 (24 hours)	50 (Annual)	
2.	Nitrogen Dioxide	μg/m³	15.9	80 (24 hours)	40 (Annual)	
3.	Particulate Matter <10µm	μg/m³	44.7	100 (24 hours)	60 (Annual)	
4.	Particulate Matter <2.5μm	μg/m³	21.8	60 (24 hours)	40 (Annual)	
5.	Carbon Monoxide	mg/m³	0.17	4 (1 hours)	2 (8 hours)	
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)	
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)	
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)	
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)	
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)	
11.	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)	
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)	

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 2.5 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)
NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)
NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

 C_6H_6 : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

B(α)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; PM_{2.5}-Particulate matter size less than 2.5 Micron, PM₃₀-Particulate matter size less than 10 Micron; SO₂ Sulphur dioxide; NO₂ - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³);O₃-Ozone(DL 10 μ g/m³);NI₃-Ammonia (DL 5 μ g/m³); Pb-Lead (DL 0.05 μ g/m³); As-Arsenic (DL 0.1 ng/m³);NI-Nickel (DL 0.5 ng/m³); Benzene-(DL 1 μ g/m³);B(α)P- Benzo - α -pyrene (DL0.5 ng/m³); ng/m³: nanogram per cubic meter; μ g/m³ - microgram per cubic meter.

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****

(or K GANESAN)

CARE

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Certificate No. TC-5786

TEST REPORT

Page 3 of 3

	rageso
Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Sampling Location	Near WTP
Sample Description	AAQ 3: Ambient Air Quality Monitoring
Date of sampling & Receipt	20.03.2020 & 23.03.2020
Date of commencement of analysis	23.03.2020
Date of completion of analysis	11.04.2020
Sample Collected by	Hubert Enviro Care Systems (P) Ltd
Report Date	13.04.2020
Report No	HECS/A/003/230320
Instruments Used	Envirotech APM 460 brushless RDS & Envirotech APN 550 mini

RESULTS OF AMBIENT AIR QUALITY MONITORING - MARCH 2020

	PARAMETERS			NAAQ STA	NDARDS : 2009
S.NO.		UNITS	RESULTS	Industrial, Residential, Rural and Other Areas	Ecologically Sensitive Area (Notified by Govt of India)
1.	Sulphur Dioxide	μg/m³	13.3	80 (24 hours)	50 (Annual)
2.	Nitrogen Dioxide	μg/m³	20.7	80 (24 hours)	40 (Annual)
3.	Particulate Matter <10μm	μg/m³	36.8	100 (24 hours)	60 (Annual)
4.	Particulate Matter <2.5μm	μg/m³	19.0	60 (24 hours)	40 (Annual)
5.	Carbon Monoxide	mg/m³	0.12	4 (1 hours)	2 (8 hours)
6.	Lead	μg/m³	BDL (DL 0.05)	1 (24 hours)	0.5 (Annual)
7.	Ozone	μg/m³	BDL (DL 10)	180 (1 hours)	100 (8 hours)
8.	Ammonia	μg/m³	BDL (DL 5)	400 (24 hours)	100 (Annual)
9.	Benzene	μg/m³	BDL (DL 1)	5 (Annual)	5 (Annual)
10.	Benzo(a)pyrene	ng/m³	BDL (DL 0.5)	1 (Annual)	1 (Annual)
11,	Arsenic	ng/m³	BDL (DL 0.1)	6 (Annual)	6 (Annual)
12.	Nickel	ng/m³	BDL (DL 0.5)	20 (Annual)	20 (Annual)

Test Methods Followed:

PM 10 : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)

PM 2.5 : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)

SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)
NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)

O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)
NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)

CO : IS 5182 (Pt 10): 1999 (RA 2013)

Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)

C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)

B(α)P : In-house validated method based on CPCB guidelines vol. I (2011)

Note: BDL =Below detection limit; DL - Detection Limit; PM₂₅-Particulate matter size less than 2.5 Micron, PM₂₀-Particulate matter size less than 10 Micron; SO₂ Sulphur dioxide; NO₂ - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³); O₃-Ozone(DL 10 μg/m³); NH₂-Ammonia (DL 5 μg/m³); Pb-Lead (DL 0.05 μg/m³); Assenic (DL 0.1 ng/m³); Ni-Nickel (DL 0.5 ng/m³); Benzene-(DL 1 μg/m³); B(α)P- Benzo -α-pyrene (DL0.5 ng/m³); ng/m³: nanogram per cubic meter; μg/m³ - microgram per cubic meter.

CONCLUSION: ALL THE PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report ****

(Pr GANESAN)
Authorized Signatory

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Authorized Signatory (Dr K Ganesan - Lab Manager)

Certificate No. TC-5786

TEST REPORT

Page No. 1 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	Pulp Mill 6 meters
Sample Description	Indoor Air Quality Monitoring
Sampling Date	21.03.2020
Sample Received Date	23.03.2020
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	23.03.2020
Completed On	27.03.2020
Report Date	28.03.2020
Report No	HECS/IAQ/001/230320

RESULTS OF INDOOR AIR QUALITY MONITORING - MARCH 2020

Parameter monitored	Results obtained	OSHA Std. Limit	Test Method Followed
Particulate Matter, PM	14.9 μg/m ³	5000 μg/m ³ (5 mg/Nm ³)	IS 11255: (Part 1): 1985 (RA 2003)

Note: mg/Nm³: milligram per normal cubic meter; µg/Nm³: microgram per normal cubic meter; PM: Particulate Matter; OSHA - Occupational Safety and Health Administration

INFERENCE As per OSHA Standards, PM value is within the limits

End of Report

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Certificate No. TC-5786

TEST REPORT

Page No. 2 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	10 TPH oil fired Boiler - A
Sample Description	Manual Stack Emission Monitoring
Sampling Date	18.03.2020
Sample Received Date	23.03.2020
Thimble No.	T-1
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	23.03.2020
Completed On	30.03.2020
Report Date	31.03.2020
Report No	HECS/ST/001/230320

EMISSION AIR FROM STACK / CHIMNEY MONITORING - MARCH 2020

General Details	
Source of Fuel	Furnace Oil
Ambient temperature	33 °C
Flue Gas Temperature	140 °C
Stack Height	46 meters
Diameter	1.8 meters
Velocity	3.8 m/s
Volume of gas discharge	25847 Nm³/hr

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	35.9 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	48.5 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	110.4 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	94.2 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	11.7 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits

Authorized Signatory (Ganesan - Lab Manager)

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TEST REPORT

Page No. 3 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	1500 kVA DG Set
Sample Description	Manual Stack Emission Monitoring
Sampling Date	19.03.2020
Sample Received Date	23.03.2020
Thimble No.	T-3
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	23.03.2020
Completed On	30.03.2020
Report Date	31.03.2020
Report No	HECS/ST/002/230320

EMISSION AIR FROM STACK / CHIMNEY MONITORING - MARCH 2020

General Details	
Source of Fuel	Diesel
Ambient temperature	33 °C
Flue Gas Temperature	145 °C
Stack Height	33 meters
Diameter	0.3 meters
Velocity	14.5 m/s
Volume of gas discharge	2439 Nm³/hr

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	54.2 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	40.4 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	136.5 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	109.0 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	15.1 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits

Authorized Signatory (Dr K Banesan - Lab Manager)

CARE

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TEST REPORT

Page No. 4 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound, Note Mudran Nagar, Mysuru - 570003, Karnataka, India.
Stack ID	10 TPH oil fired Boiler - B
Sample Description	Manual Stack Emission Monitoring
Sampling Date	20.03.2020
Sample Received Date	23.03.2020
Thimble No.	T-4
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,
Analysis Commenced On	23.03.2020
Completed On	30.03.2020
Report Date	31.03.2020
Report No	HECS/ST/003/230320

EMISSION AIR FROM STACK / CHIMNEY MONITORING - MARCH 2020

General Details	
Source of Fuel	Furnace Oil
Ambient temperature	33 °C
Flue Gas Temperature	174 °C
Stack Height	56 meters
Diameter	1.8 meters
Velocity	3.8 m/s
Volume of gas discharge	24,396 Nm³/hr

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	53.6 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
SO ₂	47.2 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	114.0 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	98.7 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	14.4 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits

Authorized Signatory (Dr.K Ganesan - Lab Manager)

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TEST REPORT

Page No. 5 of 5

Customer	M/s. Bank Note Paper Mill India Private Ltd., (BNPMIPL)		
Project Site/ Address	Administrative Office Building, Entry Gate. 1, Paper Mill Compound,		
	Note Mudran Nagar, Mysuru - 570003, Karnataka, India.		
Stack ID	Fire Fighting Diesel Pump		
Sample Description	Manual Stack Emission Monitoring		
Sampling Date	20.03.2020		
Sample Received Date	23.03.2020		
Thimble No.	T-5		
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd.,		
Analysis Commenced On	23.03.2020		
Completed On '	30.03.2020		
Report Date	31.03.2020		
Report No	HECS/ST/004/230320		

EMISSION AIR FROM STACK / CHIMNEY MONITORING - MARCH 2020

General Details	
Source of Fuel	Diesel
Ambient temperature	33 °C
Flue Gas Temperature	255 °C
Stack Height	10 meters
Diameter	0.15 meters
Velocity	47.2 m/s
Volume of gas discharge	1645 Nm³/hr

Parameter monitored	Results obtained	KSPCB Std. Limit	Test Method Followed
PM	44.8 mg/Nm ³	150 mg/Nm ³	IS 11255: (Part 1): 1985 (RA 2003)
.SO ₂	35.4 mg/Nm ³	100 mg/Nm ³	IS 11255: (Part 2): (RA 2003)
NO _x	71.3 mg/Nm ³	710 mg/Nm ³	IS 11255: (Part 7): (RA 2003)
CO at 15% O ₂	74.0 mg/Nm ³	150 mg/Nm ³	Flue Gas analyser - Madur GA 12
NMHC (as C)	13.2 mg/Nm ³	100 mg/Nm ³	USEPA method 25

Note: mg/Nm³: milligram per normal cubic meter; PM: Particulate Matter; ppm: Parts per Million; Nm³/hr - Normal cubic metre per hour; % -Percentage; NMHC- Non-methane Hydro Carbons

As per KSPCB Standards
INFERENCE All the parameters are within the limits

(Dr K danesan - Lab Manager)

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POLLU TECH AIDS

(Air & Water Pollution Control Consultants and Turnkey Contractors)

(NABL Accredited Testing Lab as per ISO/IEC 17025:2017)



Off.: 080-23492130, 080-29550488, E-mail: drrpdambal@gmail.com

Date : Mar. 1.7th, 2020...

ANALYSIS REPORT OF ETP TREATED EFFLUENT WATER SAMPLE

Name of the Company	M/s Bank Note Paper Mill India Pvt. Ltd.,		
Address	Administrative office Building, Entry Gate.1, Paper Mill compound,		
	Note Mudran Nagar, Mysuru – 570003		
Sample Particulars	ETP Treated Effluent Water Sample		
Sample Collected on	Mar 09 th , 2020		
Date of analysis	Mar 10 th , 2020		
Sample ID	1528 – 1/WW		
ULR Number	TC629720000000219P		
Discipline	Chemical Testing		
Group	Pollution & Environment		

SI. No.	Parameters	Protocol	Units	Results	Standard Limit
1.	Colour	IS 3025 (part 4) 2017	Hazen Units	<5	5 – 15
2.	Odour *	IS 3025 (part 5) 2017	Em /	Agreeable	Agreeable
3.	pH Value	IS 3025 (part 11) 2017	pH	7.6	5.5-9.0
4.	Total Suspended Solids	IS 3025 (part 17) 2017	mg/L	14.1	100
5.	Oil & Grease	IS 3025 (part 39) 2019	mg/L	BDL	10
6.	BOD (5Days at 20°C)	IS 3025 (Part 44) 2019, Winkler Method	mg/L	8.7	30
7.	COD	IS 3025 (part 58) 2017, Open Reflux method	mg/L	36	250.0
8.	Adsorbable Organically Bound Halogens (AOX)*	IS 3025 (part 70) 2018	mg/L	BDL	* * * * * * * * * * * * * * * * * * *

Note: 1. This certificate is related only to the sample tested.

2. Sample Analysis done as per BIS method.

3. BDL = Below Detectable Limit.

4.*Tests are not under the scope of NABL Accreditation.

Samples will be destroyed after one week from the date of issue of test certificate unless otherwise specified. Perishable samples will not be retained

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Analyzed by

Verified by

No. 16, No. 16

Authorized Signatory

Dr. R.P Dambal



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(NABL Accredited Testing Lab as per ISO/IEC 17025:2017)



Off.: 080-23492130, 080-29550488, E-mail: drrpdambal@gmail.com

Date :.....

Mar 17th, 2020

ANALYSIS REPORT OF POTABLE WATER SAMPLE

Name of the Company	M/s Bank Note Paper Mill India Pvt. Ltd.,		
Address	Administrative office Building, Entry Gate.1, Paper Mill compound,		
	Note Mudran Nagar, Mysuru – 570003		
Sample Particulars	Potable Water Sample		
Sample Received on	Mar 09 th , 2020		
Date of analysis	Mar 10 th , 2020		
Sample ID	1528 – 2/WW		
ULR Number	TC629720000000220P		
Discipline	Chemical Testing		
Group	Water		

SI. No.	Parameters	Protocol	Units	Results	Standard Limit (Required - permissible)
01	Colour in hazen units	IS 3025 (part 4) 2017	Hazen Units	<5	5 - 15
02	Odour*	IS 3025 (part 5) 2017		Agreeable	Agreeable
03	Turbidity (as NTU) *	IS 3025 (part 10) 2017	NTU	1.0	1 - 5
04	Total Dissolved Solids	IS 3025 (part 16) 2017	mg/L	112	500 - 2000
05	pH Value	IS 3025 (part 11) 2017	pH	7.1	6.5 - 8.5
06	Total Hardness (as CaCO ₃)	IS 3025 (part 21) 2019	mg/L	60	200 - 600
07	Calcium (as Ca)	IS 3025 (part 40) 2019	mg/L	36	75 - 200
08	Magnesium	IS 3025 (part 46) 2019	mg/L	5.8	30 - 100
09	Chloride (as Cl)	IS 3025 (part 32) 2019	mg/L	16	250 - 1000
10	Sulphate (as SO ₄)	IS 3025 (part 24) 2019	mg/L	10.4	200 - 400
11	Nitrate (as NO ₃)	IS 3025 (part 34) 2019	mg/L	BDL	45
12	Iron (as Fe)	IS 3025 (part 53) 2019	mg/L	BDL	0.3
13	Fluoride (as F)	APHA 4500 - F - D	mg/L	BDL	1.0 - 1.5
14	Copper (as Cu) *	IS 3025 (part 42) 2019	mg/L	BDL	0.05 - 1.5
15	Manganese (as Mn)*	IS 3025 (part 59) 2017	mg/L	BDL	0.1 - 0.3
16	Selenium (as Se) *	IS 3025 (part 56) 2019	mg/L	BDL	0.01
17	Zinc (as Zn) *	IS 3025 (part 49) 2019	mg/L	BDL	5 - 15



Continuation Sheet ...

18	Free Residual Chlorine (FRC)	IS 3025 (part 26) 2019	mg/L	BDL	0.2 - 1.0
19	Arsenic (as As) *	IS 3025 (part 37) 2019	mg/L	BDL	0.01 - 0.05
20	Cyanide (as CN) *	IS 3025 (part 27) 2019	mg/L	BDL	0.05
21	Lead (as Pb) *	IS 3025 (part 47) 2019	mg/L	BDL	0.01
22	Mercury (as Hg) *	IS 3025 (part 48) 2019	mg/L	BDL	0.001
23	Cadmium (as Cd) *	IS 3025 (part 41) 2019	mg/L	BDL	0.003
24	Chromium (as Cr) *	IS 3025 (part 52) 2019	mg/L	BDL	0.05
25	Total Coliform bacteria/100ml*	IS:15185:2016		Absent	Shall not be detectable in any 100ml sample
26	E. Coli/100ml*	IS:15185:2016		Absent	Shall not be detectable in any 100ml sample

Note: 1. This certificate is related only to the sample tested.

2. Sample Analysis done as per BIS/APHA method.

3. BDL = Below Detectable Limit.

4. * Tests are not under the scope of NABL Accreditation.

5. Samples will be destroyed after one week from the date of issue of test certificate unless otherwise specified. Perishable samples will not be retained.

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