

**BEFORE THE NATIONAL GREEN TRIBUNAL,
PRINCIPAL BENCH AT NEW DELHI
ORIGINAL APPLICATION NO. 850 OF 2018**

IN THE MATTER OF:

Residents of Saila Khurd, Raniala ...Applicant
Versus
State of Punjab & Ors. ...Respondents

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FILED BY:



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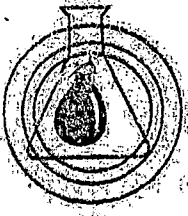
DATE: 08.01.2025

PLACE: NEW DELHI

**SUMMARY OF TEST REPORTS FROM NOVEMBER, 2018 –
SEPTEMBER, 2024**

S.NO	DATE OF TEST REPORT	NAME OF AGENCY/LAB CONDUCTING THE TEST	COMPLIANT /NON COMPLIANT
1.	21.11.2018	Environ Tech Laboratories (NABL Accredited)	Within Parameters
2.	21.11.2018	Environ Tech Laboratories (NABL Accredited)	Within Parameters
3.	07.01.2019	Sophisticated Analytical Instruments Laboratories	Within Parameters
4.	25.01.2019	Environ Tech Laboratories (NABL Accredited)	Within Parameters
5.	26.01.2019	Environ Tech Laboratories (NABL Accredited)	Within Parameters
6.	18.02.2019	Environ Tech Laboratories (NABL Accredited)	Within Parameters
7.	14.03.2019	Environ Tech Laboratories (NABL Accredited)	Within Parameters
8.	25.03.2019	Environ Tech Laboratories (NABL Accredited)	Within Parameters
9.	07.04.2019	Environ Tech Laboratories (NABL Accredited)	Within Parameters
10.	12.06.2019	Sophisticated Analytical Instruments Laboratories	Within Parameters
11.	28.06.2019	Environ Tech Laboratories (NABL Accredited)	Within Parameters
12.	15.07.2019	Environ Tech Laboratories (NABL Accredited)	Within Parameters
13.	20.12.2019	Environ Tech Laboratories (NABL Accredited)	Within Parameters
14.	17.02.2020	Sophisticated Analytical Instruments Laboratories	Within Parameters
15.	12.09.2020	Environ Tech Laboratories (NABL Accredited)	Within Parameters
16.	23.12.2020	Punjab Pollution Control Board	Within Parameters
17.	09.03.2021	Environ Tech Laboratories (NABL Accredited)	Within Parameters
18.	15.04.2021	Environ Tech Laboratories (NABL Accredited)	Within Parameters

19.	05.07.2021	Punjab Pollution Control Board	Within Parameters
20.	08.07.2021	Environ Tech Laboratories (NABL Accredited)	Within Parameters
21.	07.10.2021	Environ Tech Laboratories (NABL Accredited)	Within Parameters
22.	31.12.2021	Punjab Pollution Control Board	Within Parameters
23.	15.01.2022	Environ Tech Laboratories (NABL Accredited)	Within Parameters
24.	31.05.2022	Environ Tech Laboratories (NABL Accredited)	Within Parameters
25.	02.12.2022	Punjab Pollution Control Board	Within Parameters
26.	31.12.2022	Environ Tech Laboratories (NABL Accredited)	Within Parameters
27.	18.09.2023	Punjab Pollution Control Board	Within Parameters
28.	08.01.2024	Punjab Pollution Control Board	Within Parameters
29.	27.05.2024	Punjab Pollution Control Board	Within Parameters
30.	09.09.2024	Punjab Pollution Control Board	Within Parameters



E.T.L.

ENVIRON TECH LABORATORIES

NABL ACCREDITED & PPCB RECOGNISED

Plot No. 62, 1st Floor, JEPL Industrial Area, Airport Road, Sector 82, S.A.S. Nagar (Mohali) Pb.
Tele: 9463000081, Mob. 94172-10081, Email: envrontechlab72@yahoo.com

Ref. No. ETL/DSP/2018/2111

TEST REPORT

Dated Page 1 of 1
21/11/2018

TO
M/S KUANTUM PAPERS LTD,
GARHSHANKAR, DISTT HOSHIARPUR,
PUNJAB.

Report No.	ETL/25/2018-19/G/181609-Y	Report Date	21.11.2018
Your Ref. No.	Nil	Type of sample	ETP (OUT-LET) Water
Sample Code Given by Customer	Nil	Quantity	2 LITER (Grab)
Sampling Location	Within Premises	Date of Sampling	15.11.2018
Sample Collected By	Lab Person	Date of sample receipt	15.11.2018
Sampling procedure	As per SOP	Sample I.D.	ETL/05/2018-19/G/1609-Y
		Date of test	15.11.2018-21.11.2018

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA (RULES) 1986- SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.75	5.5-9.0	5.5-9.0	5.5-9.0	IS:3025 (Part-11)2002, Reaff. 2017. APHA 23rd Edition:2017-4500 H-B
2	Total Suspended Solids, mg/L	21	100	600	200	IS:3025 (Part-17)2012, Reaff. 2017. APHA 23rd Edition:2017-2540 D
3	Total Dissolved Solid, mg/L	1205	-	-	-	IS:3025 (Part-16)2006, Reaff. 2017. APHA 23rd Edition:2017-2540 C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	21	30	350	100	IS:3025 (Part-44)2009, Reaff. 2014. APHA 23rd Edition:2017-5210 B
5	Chemical Oxygen Demand, mg/L	178	250	No guideline	No guideline	IS:3025 (Part-58)2006, Reaff. -2017. APHA 23rd Edition:2017-5220 B
6	Sodium Absorption Ratio	6.0	...	...	...	Lab-SOP-By Calculation

All tested parameters are within permissible limit, So discharge water is fit for irrigation.

Note:

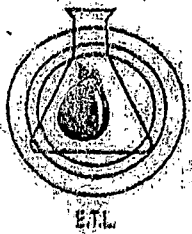
1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

(Checked By)



Ravinder Kalia
(Authorized Signatory)
Technical Manager
Environ Tech Laboratories

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Stack Emission



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Ref. No. ETL/DSP/2018/2111

Dated: 21/11/2018
Page 1 of 1

TEST REPORT

TO
M/S KUANTUM PAPERS LTD,
GARHSHANKAR, DISTT HOSHIARPUR,
PUNJAB

Report No.	ETL/ZS/2018-19/G/181609-V	Report Date	21.11.2018
Your Ref. No.	Nil	Type of sample	ETP (OUT-LET) Water
Sample Code Given by Customer	Nil	Quantity	2 LITER (Grab)
Sampling Location	Within Premises	Date of Sampling	16.11.2018
Sample Collected By	Lab Person	Date of sample receipt	16.11.2018
Sampling procedure	As per SOP	Sample ID	ETL/05/2018-19/G/1609-V
		Date of test	16.11.2018-21.11.2018

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA (RULES) 1986- SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.95	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025 (Part-11) 2002, Reaff. 2017, APHA 23 rd Edition: 2017-4500 H* B
2	Total Suspended Solids, mg/L	27	100	600	200	IS:3025 (Part-17) 2012, Reaff. 2017, APHA 23 rd Edition: 2017-2540 D
3	Total Dissolved Solid, mg/L	1310	-	-	-	IS:3025 (Part-16) 2006, Reaff. 2017, APHA 23 rd Edition: 2017 -2540 C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	22	30	350	100	IS:3025 (Part-44) 2009, Reaff. 2014, APHA 23 rd Edition: 2017-5210 B
5	Chemical Oxygen Demand, mg/L	191	250	No guideline	No guideline	IS:3025 (Part-58) 2006, Reaff. -2017, APHA 23 rd Edition: 2017-5220 B
6	Sodium Absorption Ratio	6.0	---	---	---	Lab SOP-By Calculation

All tested parameters are within permissible limit, So discharge water is fit for irrigation.

Note:

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(Checked By)

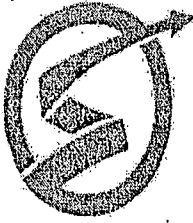


End of Report

(Authorized Signatory)

NAMESHWAR KUMAR
Technical Manager

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Stack Emission



**Sophisticated Analytical Instruments Laboratories
Society** (Registered as Society with Registrar of Firms & Societies, Punjab, Chandigarh)
Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

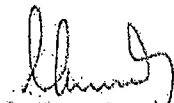
TEST REPORT

Test Report No.:	NN(D)/18-19/338	Date:	07.01.2019
Service No.	NN(D)/18-19/338 (01-02)	Customer's Ref.	Sample collected by SAI Labs on date 27.12.2018
Customer's name and address:			
M/s Kuantum Paper Ltd village - Salfa Khurd, District Hoshiarpur Kind attn.: Mr. Vijay Moten			
Sample Description	Effluent		
Condition of the sample received	O.K.		
Customer's sample Identification No. (if any)	01- ETP Outlet 02- Irrigation Point Outlet (in Irrigation village Nariala)		
Quantity/number of samples	Two		
Sampling Procedure (if any)	--		
Test parameters	pH, TSS, COD, BOD, AOX		
Standard/Specification/Method followed	APHA 23rd Edn		
Deviations (if any)	--		
Documents constituting this report (if any)	--		
Date of Receipt of Job	Date of Completion of Job	Total Number of Pages	
27.12.2012	07.1.2019	1	

TEST RESULTS

S. No.	Parameters	Test Method	Unit	Results	
				01	02
1	pH	APHA 23rd. Edn.4500-H ⁺ B	--	7.2	7.1
2	Total Suspended Solid	APHA 23rd. Edn.2540-D	mg/l	34	32
3	Chemical Oxygen Demand (COD)	APHA 23rd Edn. 5220B	mg/l	173	214
4	Biochemical Oxygen Demand for 3 days at 27°C	IS: 3025 (Part 44)-1993	mg/l	8.6	12.0
5	AOX	ISO: 9562 1989 (E)	mg/l	4.22	4.31

.....end of the report.....


S. Chandra
Head, SAI Labs
(Authorized Signatory)

- Note:
- The results listed refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
 - Samples will be destroyed after one month from the date of issue of the test report unless otherwise specified
 - This report is not to be reproduced wholly or in part and cannot be used as an evidence in the products is neither inferred nor implied, court of law and should not be used in any advertising media without special permission in writing.
 - In case any reconfirmation of contents of the test report is required, please contact the authorized signatory of the test report within 15 days of the issue of test report

**Sophisticated Analytical Instruments Laboratories
Society** (Registered as Society with Registrar of Firms & Societies, Punjab, Chandigarh)
Thapar Technology Campus, Bhadson Road, Patiala-147004 (India)

TEST REPORT

Test Report No.	NN(D) 18-19/338	Date:	07.01.2019
Service No.	NN(D) 18-19/338(01-02)	Customers Ref.	Sample Collected by SAI Labs on dtd 27.12.2018
Customers name and address:			
M/s Kuantum paper Ltd Village- Saila Khurd, District Hoshiarpur Kind Attn: Mr.Vijay Moten			
Sample Description		Effluent	
Condition of the sample received		O.K	
Customer's sample identification No(If any)		01-ETP Outlet 02-Irrigation Point Outlet(in irrigation Village Nariala)	
Quantity /number of Samples		Two	
Sampling proced(if any)		....
Test Parameters		pH, TSS,COD, BOD,AOX	
Standard/specification/Method followed		APHA 23 rd : Edn	
Deviations (if any)		.....
Documents constituting this Report(if any)		.....
Date of receipt of job	Date of completion of job	Total Number of pages	
27.12.2012	07.01.2019	1	

TEST RESULTS

S.No	Parameters	Test Method	Unit	Results	
				01	02
1.	pH	APHA 23 rd Edn.4500-H'B	.....	7.2	7.1
2.	Total Suspended Solid	APHA 23 rd Edn.2540-D	mg/l	34	32
3.	Chemical Oxygen Demand (COD)	APHA 23 rd Edn. 5220B	mg/l	173	214
4.	Biochemical Oxygen Demand for 3 days at 27 0C	IS:3025 (Part 44)-1993	mg/l	8.6	12.0
5.	AOX	ISO:9562 1089(E)	mg/l	4.22	4.31

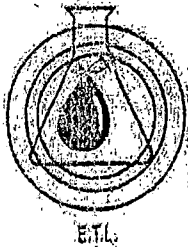
.....End of the Report....

S. Chandra
Head, SAI Labs
(Authorized Signatory)

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SAI/FM/CSC-11



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Ref. No. ETL/DSP/2019/2501

Date: 25/01/19
Page 1 of 1

TEST REPORT

TO
M/S KUANTUM PAPERS LTD,
GARHSHANKAR, DISTT HOSHIARPUR,
PUNJAB

Report No.	ETL/25/2018-19/G/182028-G	Report Date	25/01/2019
Your Ref. No.	Nil	Type of sample	ETP (OUT-LET) Water
Sample Code Given by Customer	Nil	Quantity	2 LITER (Grab)
Sampling Location	Within Premises	Date of Sampling	17/01/2019
Sample Collected By	Lab Person	Date of sample receipt	17/01/2019
Sampling procedure	As per SOP	Sample ID	ETL/05/2018-19/G/2028-G
		Date of test	17/01/2019-25/01/2019

S.NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA (RULES) 1986- SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.95	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025 (Part-11) 2002, Reaff. 2017. APHA 23 rd Edition: 2017-4500 H. B
2	Total Suspended Solids, mg/L	22	100	600	200	IS:3025 (Part-17) 2012, Reaff. 2017. APHA 23 rd Edition: 2017-2540 D
3	Total Dissolved Solid, mg/L	1295	-	-	-	IS:3025 (Part-16) 2006, Reaff. 2017. APHA 23 rd Edition: 2017-2540 C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	26	30	350	100	IS:3025 (Part-44) 2009, Reaff. 2014. APHA 23 rd Edition: 2017-5210 B
5	Chemical Oxygen Demand, mg/L	186	250	No guideline	No guideline	IS:3025 (Part-58) 2006, Reaff. 2017. APHA 23 rd Edition: 2017-5220 B
6	Sodium Absorption Ratio	6.1	-	-	-	Lab SOP-By Calculation

All tested parameters are within permissible limit, So discharge water is fit for irrigation.

Note:

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- The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

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(Checked By)

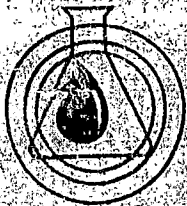


(Signature)
(Authorized Signatory)

RAMESHWAR KUMAR
Technical Manager

End of Report

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Stack Emission



ETL

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Ref No: ETL/OSP/2019/260

Dated: 26.01.2019
Page 1 of 1

TEST REPORT

TO
M/S KUANTUM PAPERS LTD,
GARHSHANKAR, DISTT HOSHIARPUR,
PUNJAB

Report No.	ETL/25/2018-19/G/182048-I	Report Date:	26.01.2019
Your Ref No.	Nil	Type of sample	ETP (OUT-LET) Water
Sample Code Given by Customer	Nil	Quantity	2 LITER (Grab)
Sampling Location	Within Premises	Date of Sampling	18.01.2019
Sample Collected By	Lab Person	Date of sample receipt	18.01.2019
Sampling procedure	As per SOP	Sample I.D.	ETL/05/2018-19/G/2048-I
		Date of test	18.01.2019-26.01.2019

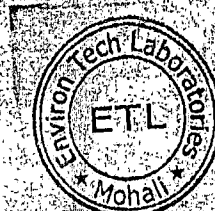
S. NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA (RULES) 1986 SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	8.15	5.5-9.0	5.5-9.0	5.5-9.0	IS:3025 (Part-11)2002, Reaff. 2017 APHA 23 rd Edition:2017-4500 H+B
2	Total Suspended Solids, mg/L	21	100	600	200	IS:3025 (Part-17)2012, Reaff. 2017 APHA 23 rd Edition:2017-2540 D
3	Total Dissolved Solid, mg/L	1237				IS:3025 (Part-16)2006, Reaff. 2017 APHA 23 rd Edition:2017-2540 C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	25	30	350	100	IS:3025 (Part-44)-2009, Reaff. 2014 APHA 23 rd Edition:2017-5210 B
5	Chemical Oxygen Demand, mg/L	173	250	No guideline	No guideline	IS:3025 (Part-58)2006, Reaff. 2017 APHA 23 rd Edition:2017-5220 B
6	Sodium Absorption Ratio	6.4				Lab SOP By Calculation

All tested parameters are within permissible limit. So discharge water is fit for irrigation.

Note:

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- The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

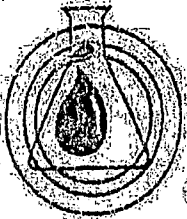
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(Signature)
(Authorized Signatory)

RAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Stack Emission



ENVIRON TECH LABORATORIES

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Ref. No. ETL/DSP/2019/1802

TEST REPORT

Page 1 of 1
Dated: 18/02/2019

TO
M/S KUANTUM PAPERS LTD,
GARHSHANKAR, DISTT. HOSHIARPUR,
PUNJAB

Report No.	ETL/25/2018-19/G/181609-Z	Report Date	18.02.2019
Your Ref. No.	Nil	Type of sample	ETP (OUT LET) Water
Sample Code Given by Customer	Nil	Quantity	2 LITER (Grab)
Sampling Location	Within Premises	Date of Sampling	13.02.2019
Sample Collected By	Lab Person	Date of sample receipt	13.02.2019
Sampling procedure	As per SOP	Sample I.D.	ETL/05/2018-19/G/1609-Z
		Date of test	13.02.2019-18.02.2019

S: NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA (RULES) 1986- SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.46	5.5-9.0	5.5-9.0	5.5-9.0	IS:3025 (Part-11) 2002, Reaff. 2017, APHA 23rd Edition: 2017-4500H-B
2	Total Suspended Solids, mg/l	24	100	600	200	IS:3025 (Part-17) 2012, Reaff. 2017, APHA 23rd Edition: 2017-2540-D
3	Total Dissolved Solid, mg/l	1276				IS:3025 (Part-16) 2006, Reaff. 2017, APHA 23rd Edition: 2017-2540-C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	24	30	350	100	IS:3025 (Part-44) 2009, Reaff. 2014, APHA 23rd Edition: 2017-5210-B
5	Chemical Oxygen Demand, mg/L	188	250	No guideline	No guideline	IS:3025 (Part-58) 2006, Reaff. 2017, APHA 23rd Edition: 2017-5220-B
6	Sodium Absorption Ratio	6.0				Lab SOP By Calculation

All tested parameters are within permissible limit. So discharge water is fit for irrigation.

Notes

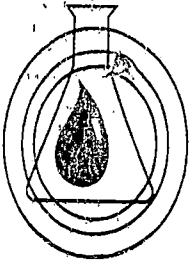
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Nishu
(Checked By)



Rameshwar Kumar
(Authorized Signatory)
RAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Stack Emission



E.T.L.

ENVIRON TECH LABORATORIES

NABL ACCREDITED & PPCB RECOGNISED

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Ref. No. ETL/DSP/181894

Dated : 14/03/2019

Page 1 of 1

TEST REPORT

To.
M/S Kuantum Papers Ltd, Saila Khurd,
Distt Hoshiarpur Punjab

Report No.	ETL/25/2018-19/G/182342	Report Date	14.03.2019
Your Ref. No.	Nil	Type of sample	ETP (OUT-LET) Water
Sample Code Given by Customer	Nil	Quantity	2 LITER
Sampling Location	Within Premises	Date of Sampling	01.03.2019
Sample Collected By	Lab Person	Date of sample receipt	01.03.2019
Sampling procedure	As per SOP	Sample I.D.	ETL/05/2018-19/G/2342
		Date of test	01.03.2019-14.03.2019

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA(RULES) 1986-SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.86	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS: 3025 (Part - 11)2002/APHA 22 nd Edition:2012-4500B
2	Colour ,Hazen Unit, Max	27	--	--	--	IS: 3025 (Part - 4) APHA 22 nd Edition:2012-2120B
3	Total Suspended Solids, mg/L	24	100	600	200	IS: 3025 (Part - 17)2002/APHA 22 nd Edition:2012-2540D
4	Total Dissolved Solid, mg/L	1122	--	--	--	IS: 3025 (Part - 16)2006/APHA 22 nd Edition:2012-2540C
5	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	22.4	30	350	100	IS: 3025 (Part - 44)2003/APHA 22 nd Edition:2012-5210B
6	Chemical Oxygen Demand, mg/L	182	250	No guideline	No guideline	IS: 3025 (Part - 58)2006/APHA 22 nd Edition:2012-5520D
7	Sodium Absorption Ratio	6.97	---	---	---	Lab SOP-By Calculation

Note:

- The test report refers only to tested sample and applicable parameters.
- This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
- The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

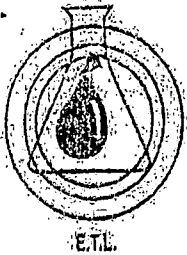
Nitika
(Checked By)



End of Report

Rameshwar Kumar
(Authorized Signatory)

RAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories



ENVIRON TECH LABORATORIES

NABL ACCREDITED & PPCB RECOGNISED

Plot No. 62, 1st Floor, ILPL Industrial Area, Airport Road, Sector-82, S.A.S. Nagar (Mohali) Pb.
Tele: 9463000081, Mob: 94172-10081, Email: envrontechlab72@yahoo.com

Ref. No. ETL/DSP/2019/2503
TO

TEST REPORT

Page 1 of 1
Dated 25/03/2019

M/S KUANTUM PAPERS LTD,
GARHSANKAR, DISTT HOSHIARPUR,
PUNJAB

Report No.	ETL/25/2018-19/G/181609-N	Report Date	25.03.2019
Your Ref. No.	Nil	Type of sample	ETP (OUT-LET) Water
Sample Code Given by Customer	Nil	Quantity	2 LITER (Grab)
Sampling Location	Within Premises	Date of Sampling	19.03.2019
Sample Collected By	Lab Person	Date of sample receipt	19.03.2019
Sampling procedure	As per SOP	Sample I.D.	ETL/05/2018-19/G/1609-N
		Date of test	19.03.2019-25.03.2019

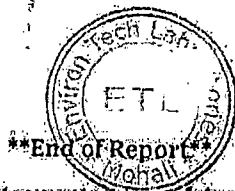
S.NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA (RULES) 1986- SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1.	pH	7.75	5.5-9.0	5.5-9.0	5.5-9.0	IS:3025 (Part-11) 2002, Reaff. 2017. APHA 23 rd Edition: 2017-4500 H-B
2	Total Suspended Solids, mg/L	21	100	600	200	IS:3025 (Part-17) 2012, Reaff. 2017. APHA 23 rd Edition: 2017-2540-D
3	Total Dissolved Solid, mg/L	1205				IS:3025 (Part-16) 2006, Reaff. 2017. APHA 23 rd Edition: 2017-2540-C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	19	30	350	100	IS:3025 (Part-44) 2009, Reaff. 2014. APHA 23 rd Edition: 2017-5210-B
5	Chemical Oxygen Demand, mg/L	192	250	No guideline	No guideline	IS:3025 (Part-58) 2006, Reaff. 2017. APHA 23 rd Edition: 2017-5220-B
6	Sodium Absorption Ratio	6.0	...	...	...	Lab SOP: By Calculation

All tested parameters are within permissible limits. So discharge water is fit for irrigation.

Note:

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2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

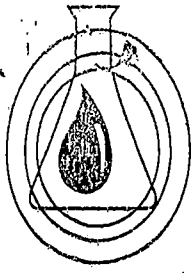
(Checked By) *Nidhi*



(Authorized Signatory) *Rameshwar Kumar*

RAMESHWAR KUMAR
Technical Manager

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Stack Emission



E.T.L.

ENVIRON TECH LABORATORIES

(NABL ACCREDITED LAB.)

Certificate No. T-1947

Plot No. 62, 1st Floor, JLPL Industrial Area, Sector 82, Airport Road, S.A.S. Nagar (Mohali) Pb.
Tele : 9463000081, Mob, 94172-10081, Email : envrontechlab72@yahoo.com

Ref. No. : ETL/ASP/1936

Dated : 07/04/2019

Page 1 of 1

TEST REPORT

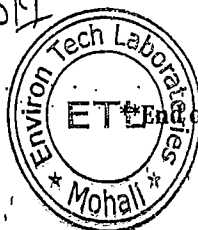
To
M/S Kwantum Papers Ltd, Saila Khurd,
Distt Hoshiarpur Punjab

Report No.	ETL/25/2019-20/G/1926	Report Date	07.04.2019
Your Ref. No.	Nil	Type of sample	ETP (OUT-LET) Water
Sample Code Given by Customer	Nil	Quantity	2 LITER
		Date of Sampling	04.04.2019
Sampling Location	Within Premises	Date of sample receipt	04.04.2019
Sample Collected By	Lab Person	Sample I.D.	ETL/05/2018-19/G/26
Sampling procedure	As per SOP	Date of test	04.04.2019-07.04.2019

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA(RULES) 1986-SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.82	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS: 3025 (Part - 11)2002/APHA 22 nd Edition:2012-4500B
2	Total Suspended Solids, mg/L	34	100	600	200	IS: 3025 (Part - 17)2002/APHA 22 nd Edition:2012-2540D
3	Total Dissolved Solid, mg/L	1817	2100	2100	2100	IS: 3025 (Part - 16)2006/APHA 22 nd Edition:2012-2540C
4	Bio-chemical Oxygen Demand at 27°C. 3 days, mg/L	26	30	350	100	IS: 3025 (Part - 44)2003/APHA 22 nd Edition:2012-5210B
5	Chemical Oxygen Demand, mg/L	195	250	No guideline	No guideline	IS: 3025 (Part - 58)2006/APHA 22 nd Edition:2012-5520D
6	Sodium Absorption Ratio	6.61	...	...	...	Lab SOP-By Calculation

- The test report refers only to tested sample and applicable parameters.
- This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
- The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

(Checked By) *Neha*
07/04/2019



Rameshwar Kumar
(Authorized Signatory)

RAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories



Sophisticated Analytical Instruments Laboratories

Society (Registered as Society with Registrar of Firms & Societies, Punjab, Chandigarh)

Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Test Report No.:	NN(D)/19-20/095	Date:	12.06.2019
Service No.	NN(D)/19-20/095 (01)	Customer's Ref.	Sample collected by SAI Labs on dtd 04.06.2019
Customer's name and address:			
M/s Kuantum Paper Ltd village - Saila Khurd, District Hoshiarpur Kind attn.: Mr. Sanjay Chechi			
Sample Description	Effluent		
Condition of the sample received	O.K.		
Customer's sample identification No. (if any)	ETP Outlet (Tertiary Clarifier Outlet Effluent)		
Quantity/number of samples	Two litre / One		
Sampling Procedure (if any)	--		
Test parameters	pH, TSS, COD, BOD, SAR, AOX		
Standard/Specification/Method followed	APHA 23rd. Edn, IS:11624, 1986, ISO: 9562		
Deviations (if any)	--		
Documents constituting this report (if any)	--		
Date of Receipt of Job	Date of Completion of Job	Total Number of Pages	
05.06.2019	12.06.2019	1	

TEST RESULTS

S. No.	Parameters	Test Method	Unit	Results
1.	pH	APHA 23rd. Edn.4500-H ⁺ B	--	7.0
2	Total Suspended Solid (TSS)	APHA 23rd. Edn.2540-D	mg/l	30
3	Chemical Oxygen Demand (COD)	APHA 23rd Edn. 5220B	mg/l	246
4	Biochemical Oxygen Demand for 3 days at 27°C (BOD)	IS: 3025 (Part 44)-1993, Reaffirmed May, 2009	mg/l	13.4
5	Sodium Absorption Ratio (SAR)	IS:11624, 1986	--	4.9
6	AOX	ISO: 9562 1989 (E)	mg/l	4.64

.....end of the report.....

Susheel Mittal

Dr. S. Mittal
Professor In-charge, SAI Labs
(Authorized Signatory)

- Note:
- The results listed refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
 - Samples will be destroyed after one month from the date of issue of the test report unless otherwise specified
 - This report is not to be reproduced wholly or in part and cannot be used as an evidence in the products is neither inferred nor implied. court of law and should not be used in any advertising media without special permission in writing.
 - In case any reconfirmation of contents of the test report is required, please contact the authorized signatory of the test report within 15 days of the issue of test report

SAI/FM/CSC-11

Dispatch No: ETL/DSP/2019/19481

Page 1 of 1
Date: 28/06/2019

TEST REPORT

To
M/S Kuantum Papers Ltd, Saila Khurd,
Distt Hoshiarpur Punjab

Report No.	ETL/44A/2019-20/PP/1933	Report Date	28.06.2019
Your Ref. No.	Nil	Type of sample	ETP (OUT-LET) Water
Sample Code Given by Customer	Nil	Quantity	2 LITER
		Date of Sampling	20.06.2019
Sampling Location	Within Premises	Date of sample receipt	21.06.2019
Sample Collected By	Lab Person	Sample I.D.	ETL/32A/2019-20/PP/33
Sampling procedure	As per SOP	Date of test	21.06.2019-28.06.2019

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA(RULES) 1986-SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	8.02	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025 (Part-11)2002, Reaff. 2017. APHA 23 rd Edition:2017-4500 H+ B
2	Total Suspended Solids, mg/L	32	100	600	200	IS:3025(Part-17)2012, Reaff. 2017. APHA 23 rd Edition:2017-2540 D
3	Total Dissolved Solid, mg/L	1270	-	-	-	IS:3025(Part-16)2006, Reaff. 2017. APHA 23 rd Edition:2017 -2540 C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	26.5	30	350	100	IS:3025(Part-44):2009, Reaff. 2014. APHA 23 rd Edition:2017 -5210 B
5	Chemical Oxygen Demand, mg/L	188	250	No guideline	No guideline	IS:3025(Part-58)2006, Reaff. -2017. APHA 23 rd Edition:2017-5220 B
6	Sodium Absorption Ratio	6.0	...	...	...	Lab SOP-By Calculation

All tested parameters are within permissible limit, So discharge water is fit for irrigation.

Note:

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2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

(Checked By)

[Signature]



****End of Report****

Rameshwar Kumar
(Authorized Signatory)
RAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories

Dispatch No: ETL/DSP/2019/ 19523

Date: 15/07/2019

TEST REPORT

To
M/S KUANTUM PAPERS LTD,
SAILA KHURD, DISTT HOSHIARPUR
PUNJAB

Report No.	ETL/44A/2019-20/PP/1944	Report Date	15.07.2019
Your Ref. No.	Nil	Type of sample	ETP (OUT-LET) Water
Sample Code Given by Customer	Nil	Quantity	2 LITER
		Date of Sampling as per Party	09.07.2019
Sampling Location	Within Premises	Date of sample receipt	09.07.2019
Sample Collected By	Not Drawn by ETL	Sample I.D.	ETL/32A/2019-20/PP/44
Sampling procedure	Not Drawn by ETL	Date of test	10.07.2019-15.07.2019

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA(RULES) 1986-SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.79	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025 (Part-11)2002, Reaff. 2017. APHA 23 rd Edition:2017-4500 H+ B
2	Total Suspended Solids, mg/L	16.8	100	600	200	IS:3025(Part-17)2012, Reaff. 2017. APHA 23 rd Edition:2017-2540 D
3	Total Dissolved Solid, mg/L	1524	-	-	-	IS:3025(Part-16)2006, Reaff. 2017. APHA 23 rd Edition:2017 -2540 C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	24	30	350	100	IS:3025(Part-44):2009, Reaff. 2014. APHA 23 rd Edition:2017 -5210 B
5	Chemical Oxygen Demand, mg/L	183	250	No guideline	No guideline	IS:3025(Part-58)2006, Reaff. -2017. APHA 23 rd Edition:2017-5220 B
6	Sodium Absorption Ratio	6.1	...	...	...	Lab SOP-By Calculation

All tested parameters are within permissible limit, So discharge water is fit for irrigation.

Note:

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2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

(Checked By)

15/7/19



Ramesh Kumar
(Authorized Signatory)

Testing of Water, Waste Water, Soil, Food, Ambient Air, Noise Monitoring & Stack Emission

Email : environtechlab72@yahoo.com, director@environtechlab.in | Website : environtechlab.com

594 Environ Tech Laboratories

NABL Accredited (ISO/IEC 17025:2017)/ MoEF & CC Recognized
PCB Approved/ OHSAS 45001:2018

Plot No.62, Janta Industrial Estate,
Airport Road, Sector 82, S.A.S. Nagar
(Mohali)-160062 Punjab
Mob. 9417210081, 9417220081
9464000081, Tel. 9463000081

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GSTIN : 03BPEPS9693P1ZV
PAN No. BPEPS9693P

Page 1 of 1

Dispatch No: ETL/DSP/2019/191632

Date: 20/12/2019

TEST REPORT

To
M/s Kuantum Papers Ltd,
Saila Khurd, Distt Hoshiarpur, Punjab

Report No.	ETL/44/2019-20/G/192005AB	Report Date	20.12.2019
Your Ref. No.	Nil	Type of sample	Combined Secondary 1&2 Outlet
Sample Code Given by Customer	Nil	Quantity	2 LITER
		Date of Sampling	13.12.2019
Sampling Location	Within Premises	Date of sample receipt	16.12.2019
Sample Collected By	Lab Person	Sample I.D.	ETL/32/2019-20/G/2005AB
Sampling procedure	As per SOP	Date of test	16.12.2019 - 20.12.2019

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA(RULES) 1986-SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.7	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025,(Part-11)2002, Reaff. 2017. APHA 23 rd Edition:2017-4500 H+ B
2	Total Suspended Solids, mg/L	36	100	600	200	IS:3025,(Part-17)2012, Reaff. 2017. APHA 23 rd Edition:2017-2540 D
3.	Total Dissolved Solid, mg/l	1580	--	--	--	IS:3025(Part-16)2006, Reaff. 2017. APHA 23 rd Edition:2017-2540 C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	22	30	350	100	IS:3025,(Part-44):2009, Reaff. 2014. APHA 23 rd Edition:2017 - 5210 B
5	Chemical Oxygen Demand, mg/L	205	250	No guideline	No guideline	IS:3025,(Part-58)2006, Reaff. - 2017. APHA 23 rd Edition:2017-5220 B
6	Sodium Absorption Ratio	6.75	--	--	--	By Calculation

Note:

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2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

(Checked By)



End of Report

(Authorized Signatory)

RAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories



Sophisticated Analytical Instruments Laboratories Society
 (Registered as Society with Registrar of Firms & Societies, Punjab, Chandigarh)
 Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Test Report No.:	E(S)/19-20/210	Date:	17.02.2020	Serial No.	200
Service No.	E(S)/19-20/210 (01)	Customer's Ref.	Sample submitted by customer dtd 12.02.2020.		
Customer's name and address:					
M/s Kuantum Paper Ltd. Village Salla Khurd, Dist. Hoshiarpur, Punjab. Kind Attn: Mr. R.K Dhingra					
Sample Description			Effluent		
Condition of the sample received			O.K.		
Customer's sample identification No. (if any)			Final Outlet		
Quantity/number of samples			2 litre x 1 / 1		
Test parameters			pH, TSS, COD, BOD		
Standard/Specification/Method followed			APHA 23rd Edn. IS:3025		
Deviations (if any)			--		
Documents constituting this report (if any)			--		
Date of Receipt of Job		Date of Completion of Job		Total Number of Pages	
12.02.2020		15.2.2020		1	

TEST RESULTS

S. No.	Parameters	Test Method	Unit	Results
1	pH	APHA 23rd. Edn.4500-H+B	--	7.1
2	Total Suspended Solid	APHA 23rd. Edn.2540-D	mg/l	46
3	Chemical Oxygen Demand (COD)	APHA 23rd. 5220B	mg/l	205
4	Biochemical Oxygen Demand for 3 days at 27°C	IS: 3025 (Part 44)-1993, Reaffirmed May, 2009	mg/l	8.1

.....end of report.....


M. Agarwal
 Technical Manager
 (Authorized Signatory)
 SAI/FM/CSC-11

Environ Tech Laboratories

NABL Accredited (ISO/IEC 17025:2017)/ MoEF & CC Recognized
PPCB Approved/ OHSAS 45001:2018

Plot No.62, Janta Industrial Estate,
Airport Road, Sector 82, S.A.S. Nagar
(Mohali)-160062 Punjab
Mob. 9417210081, 9417220081
9464000081, Tel. 9463000081

GSTIN : 03BPEPS9693P1ZV
PAN No. BPEPS9693P

Page 1 of 1

Dispatch No: ETL/DSP/ 201370

Date: 12/09/2020

TEST REPORT

To
M/s Kuantum Papers Ltd,
Saila Khurd, Distt Hoshiarpur, Punjab

Report No.	ETL/44/2020/G/1352	Report Date	12.09.2020
Your Ref. No.	Nil	Type of sample	ETP Outlet
Sample Code Given by Customer	Nil	Quantity	2 LITER
		Date of Sampling	06.09.2020
Sampling Location	Secondary Clarifier (S1 & S2)	Date of sample receipt	07.09.2020
Sample Collected By	Lab Person	Sample I.D.	ETL/32/2020/G/1352
Sampling procedure	As per SOP	Date of test	07.09.2020 - 12.09.2020

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA(RULES) 1986-SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.85	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025,(Part-11)2002, Reaff. 2017. APHA 23 rd Edition:2017-4500 B
2	Total Suspended Solids, mg/L	47	100	600	200	IS:3025,(Part-17)2012, Reaff. 2017. APHA 23 rd Edition:2017-2540 D
3.	Total Dissolved Solid, mg/l	1524	--	--	--	IS:3025(Part-16)2006, Reaff. 2017. APHA 23 rd Edition:2017-2540 C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	22	30	350	100	IS:3025,(Part-44):2003, Reaff. 2014. APHA 23 rd Edition:2017-5210 B
5	Chemical Oxygen Demand, mg/L	174	250	No guideline	No guideline	IS:3025,(Part-58)2006, Reaff. - 2017. APHA 23 rd Edition:2017-5220 B
6	Sodium Absorption Ratio	5.85	--	--	--	By Calculation

Note:

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2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

(Checked By)



End of Report

(Authorized Signatory)

JASVIR SINGH RAI
Deputy Quality Manager
Environ Tech Laboratories

Testing of Water, Waste Water, Soil, Food, Ambient Air, Noise Monitoring & Stack Emission
Email : envrontechlab72@yahoo.com, director@envrontechlab.in | Website : envrontechlab.com

NOT VALID FOR LEGAL PURPOSES



ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਰੋਕਥਾਮ ਬੋਰਡ



ਜੇਨਲ ਪ੍ਰਯੋਗਸ਼ਾਲਾ, ਫੋਕਲ ਪੁਆਇੰਟ, ਪੀ:ਐਸ:ਆਈ:ਈ:ਸੀ ਵਾਟਰ ਟੈਂਕ, ਜਲੰਧਰ.

ਫੋਨ ਨੰਬਰ : 0181-2600301

www.ppcb.gov.in

ਈ-ਮੇਲ : zolabjalandhar@gmail.com

ਨੰਬਰ.....

ਮਿਤੀ

AIR/WATER SAMPLE ANALYSIS REPORT

1.	Laboratory Sample No	Lab/Water/ /2020
2.	Name of industry	M/s Kuantum Paper Ltd, Saila Khurd Garshankar, Hoshiarpur.
3.	Name of Sample Collecting Officer	Er. Shiv Kumar (EE) Er. Charanjit Rai (AEE)
4.	Type of Sample	Grab Monitoring
5.	Date of Sample Collection	09/12/2020
6.	Date of Sample Receipt in Lab	10/12/2020
7.	Point of sample collection	As per data sheet

RESULTS

S. No	Parameter	ETP of Outlet (Final)	ASP-I	ASP-II	ASP-III	High COD Stream (Inlet)	High COD Stream (Outlet)	Low COD Stream (Inlet)
1.	pH	7.5	-	-	-	6.9	7.9	6.7
2.	COD (mg/l)	228	-	-	-	2848	380	1216
3.	BOD (mg/l)	22	-	-	-	1120	75	424
4.	TSS (mg/l)	42	-	-	-	780	152	196
5.	MLSS (mg/l)	-	3608	3598	4124	-	-	-
6.	MLVSS (mg/l)	-	2597	2460	3052	-	-	-

Sample Analyzed by: -

Asstt Scientific Officer-I
Zonal Lab, Jalandhar

Endst.No. 5319-20

Dated: 23/12/20

A copy of the above is forwarded to the following for information & necessary action along with data sheet to:-

1. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal office, Jalandhar.
2. The Environmental Engineer, Regional Office, Hoshiarpur along with extra copy of analysis report and data sheet for further transmission to the industry as per rules.

Asstt Scientific Officer-II
Zonal Lab, Jalandhar

Environ Tech Laboratories

598

NABL Accredited (ISO/IEC 17025:2017)/ MoEF & CC Recognized
OHSAS 45001:2018

Plot No.62, Janta Industrial Estate,
Airport Road, Sector 82, S.A.S. Nagar
(Mohali)-160062 Punjab
Mob. 9417210081, 9417220081
9464000081, Tel. 9463000081

22

GSTIN : 03BPEPS9693P1ZV
PAN No. BPEPS9693P

Page 1 of 1

Dispatch No: ETL/DSP/211118

Date: 09/03/2021

TEST REPORT

To
M/S Kuantum Papers Ltd, Saila Khurd,
Distt Hoshiarpur Punjab

Report No.	ETL/44/2021/G/21508	Report Date	09.03.2021
Your Ref. No.	Nil	Type of sample	Waste Water
Sample Code Given by Customer	Nil	Quantity	2 LITER
		Date of Sampling	04.03.2021
Sampling Location	ETP Outlet	Date of sample receipt	05.03.2021
Sample Collected By	Lab Person	Sample I.D.	ETL/32/2021/G/508
Sampling procedure	As per SOP	Date of test	05.03.2021 - 09.03.2021

S. NO.	PARAMETERS	TEST RESULTS	TEST METHODS
1.	pH	7.88	IS:3025 (Part-11)2002, Reaff. 2017. APHA 23 rd Edition:2017-4500 B
2.	Total Suspended Solids, mg/L	44	IS:3025(Part-17)2012, Reaff. 2017. APHA 23 rd Edition:2017-2540 D
3.	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	24	IS:3025(Part-44):2003, Reaff. 2014. APHA 23 rd Edition:2017 -5210 B
4.	Chemical Oxygen Demand, mg/L	224	IS:3025(Part-58)2006, Reaff. -2017. APHA 23 rd Edition:2017-5220 B
5.	AOX	ND	Lab SOP (By G.C.)

Note:

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

(Checked By)



End of Report

(Authorized Signatory)

AJEET SINGH
Dy. Technical Manager
Environ Tech Laboratories

Testing of Water, Waste Water, Soil, Food, Ambient Air, Noise Monitoring & Stack Emission
Email : envrontechlab72@yahoo.com, director@envrontechlab.in | Website : envrontechlab.com

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Environ Tech Laboratories

599

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PPCB Approved OHSAS 45001:2018

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Airport Road, Sector 82, S.A.S. Nagar
(Mohali)-160062 Punjab
Mob. 9417210081, 9417220081
9464000081, Tel. 9463000081

23

GSTIN : 03BPEPS9693P1ZV
PAN No. BPEPS9693P

Page 1 of 1

Dispatch No: ETL/DSP/211874

Date: 15/04/2021

TEST REPORT

To
M/s Kuantum Papers Ltd,
Saila Khurd, Distt Hoshiarpur, Punjab

Report No.	ETL/44/2021/G/21903	Report Date	15.04.2021
Your Ref. No.	Nil	Type of sample	ETP Outlet
Sample Code Given by Customer	Nil	Quantity	2 LITER
Sampling Location	Within Premises	Date of Sampling	08.04.2021
Sample Collected By	Lab Person	Date of sample receipt	09.04.2021
Sampling procedure	As per SOP	Sample I.D.	ETL/32/2021/G/903
		Date of test	09.04.2021 - 15.04.2021

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA(RULES) 1986-SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.58	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025,(Part-11)2002, Reaff. 2017. APHA 23 rd Edition:2017-4500 B
2	Total Suspended Solids, mg/L	46	100	600	200	IS:3025,(Part-17)2012, Reaff. 2017. APHA 23 rd Edition:2017-2540 D
3.	Total Dissolved Solid, mg/l	1880	--	--	--	IS:3025(Part-16)2006, Reaff. 2017. APHA 23 rd Edition:2017 -2540 C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	24	30	350	100	IS:3025,(Part-44):2003, Reaff. 2014. APHA 23 rd Edition:2017 -5210 B
5	Chemical Oxygen Demand, mg/L	185	250	No guideline	No guideline	IS:3025,(Part-58)2006, Reaff. -2017. APHA 23 rd Edition:2017-5220 B
6	AOX	0.1	--	--	--	Lab SOP (By G.C.)
7	Sodium Absorption Ratio	6.85	--	--	--	By Calculation

Note:

- The test report refers only to tested sample and applicable parameters.
- This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
- The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

(Checked By)



End of Report

(Authorized Signatory)

AJEEZ SINGH
Technical Manager
Environ Tech Laboratories

Testing of Water, Waste Water, Soil, Food, Ambient Air, Noise Monitoring & Stack Emission
Email : envrontechlab72@yahoo.com, director@envrontechlab.in | Website : envrontechlab.com

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ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਰੋਕਥਾਮ ਬੋਰਡ



ਜੇਨਲ ਪ੍ਰਯੋਗਸ਼ਾਲਾ, ਫੋਕਲ ਪੁਆਇੰਟ, ਪੀ.ਐਸ.ਆਈ.ਈ.ਸੀ ਵਾਟਰ ਟੈਂਕ, ਜਲੰਧਰ.

ਫੋਨ ਨੰਬਰ : 0181-2600301

www.ppcb.gov.in

ਈ-ਮੇਲ : zolabjalandhar@gmail.com

ਨੰਬਰ.....

ਮਿਤੀ.....

AIR/WATER SAMPLE ANALYSIS REPORT

1.	Laboratory Sample No	Lab/Water/ 59 /2021
2.	Name of industry	M/s Kuantum Paper Ltd. Saila Khurd Garshankar, Hoshiarpur.
3.	Name of Sample Collecting Officer	Er. Shiv Kumar (EE) Er. Charanjit Rai (AEE)
4.	Type of Sample	Grab Monitoring
5.	Date of Sample Collection	17/06/2021
6.	Date of Sample Receipt in Lab	18/06/2021
7.	Point of sample collection	As per data sheet

RESULTS

S. No	Parameter	ETP of Outlet (Final)	ASP-I	ASP-II	ASP-III	High COD Stream (Inlet)	High COD Stream (Outlet)	Low COD Stream (Inlet)
1.	pH	7.4	-	-	-	7.0	7.7	6.2
2.	COD (mg/l)	240	-	-	-	2800	400	960
3.	BOD (mg/l)	26	-	-	-	1082	82	310
4.	TSS (mg/l)	48	-	-	-	810	168	125
5.	MLSS (mg/l)	-	3812	3750	4208	-	-	-
6.	MLVSS (mg/l)	-	2896	2762	3394	-	-	-

Abdul Salam
Analyzed by

[Signature]
Scientific Officer
Zonal Lab, Jalandhar

Endst.No. 1855-57

Dated: 5/7/21

A copy of the above is forwarded to the following for information & necessary action along with data sheet to:-

1. The Chief Environmental Engineer, (Water) Punjab Pollution Control Board, Ludhiana.
2. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal office, Jalandhar.
3. The Environmental Engineer, Regional Office, Hoshiarpur along with extra copy of analysis report and data sheet for further transmission to the industry as per rules.

[Signature]
Asstt Scientific Officer-I
Zonal Lab, Jalandhar

Environ Tech Laboratories

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OHSAS 45001:2018

Plot No. 62, Janta Industrial Estate
Airport Road, Sector 82, S.A.S Nagar
Mohali, (Punjab) 160062,
Mobile : 94172-10081, 94172-20081
94640-00081, (O) 94630-00081
GSTIN : 03BPEPS9693P4ZV
PAN No. BPEPS9693P

Dispatch No: ETL/DSP/ 213593

Date: 8.07.2021

TEST REPORT

To
M/s Kuantum Papers Ltd,
Saila Khurd, Distt Hoshiarpur, Punjab

Report No.	ETL/44/2021/G/211768	Report Date	08.07.2021
Your Ref. No.	Nil	Type of sample	ETP Outlet
Sample Code Given by Customer	Nil	Quantity	2 LITER
		Date of Sampling	01.07.2021
Sampling Location	Within Premises	Date of sample receipt	02.07.2021
Sample Collected By	Lab Person	Sample I.D.	ETL/32/2021/G/1768
Sampling procedure	As per SOP	Date of test	02.07.2021 - 08.07.2021

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS EPA(RULES) 1986-SCHEDULE-6			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.80	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025 (Part-11)2002,Reaff.2017 APHA 23 rd Edition:2017-4500H*B
2	Total Suspended Solids, mg/L	42	100	600	200	IS:3025(Part-17)2012,Reaff.2017 APHA 23 rd Edition:2017-2540 D
3.	Total Dissolved Solid, mg/l	1568	--	--	--	IS:3025(Part-16)2006, Reaff.2017 APHA 23 rd Edition:2017-2540 C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	19.5	30	350	100	IS:3025(Part-44)2009,Reaff.2014 APHA 23 rd Edition:2017-5210 B
5	Chemical Oxygen Demand, mg/L	220	250	No guideline	No guideline	IS:3025(Part-58)2006,Reaff.2017 APHA 23 rd Edition:2017-5220 B
6	Sodium Absorption Ratio	7.6	--	--	--	By Calculation

Note: ND denotes Not Detectable

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

(Checked By)

(Authorized Signatory)

End of Report



AJJET SINGH SAINI
Technical Manager
Head of The Lab
Environ Tech Laboratories

Environ Tech Laboratories

NABL Accredited (ISO/IEC 17025:2017)/MoEF & CC Recognized
OHSAS 45001:2018

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GSTIN : 03BPEPS9693P1ZV
PAN No. BPEPS9693P

Page 1 of 1

Dispatch No: ETL/DSP/214714

Date: 07/10/2021

TEST REPORT

To
M/s Kwantum Papers Ltd,
Saila Khurd, Distt Hoshiarpur, Punjab

Report No.	ETL/44/2021/G/212673	Report Date	07.10.2021
Your Ref. No.	Nil	Type of sample	ETP Outlet Water
Sample Code Given by Customer	Nil	Quantity	2 LITER (1 Litre Plastic + 1 Litre Glass Bottle)
		Date of Sampling	27.09.2021
Sampling Location	Within Premises	Date of sample receipt	28.09.2021
Sample Collected By	Lab Person	Sample I.D.	ETL/32/2021/G/2673
Sampling procedure	As per SOP	Date of test	28.09.2021 - 07.10.2021

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.85	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025 (Part-11)2002, Reaff.2017 APHA 23 rd Edition:2017-4500H*B
2	Total Suspended Solids, mg/L	38	100	600	200	IS:3025(Part-17)2012, Reaff.2017 APHA 23 rd Edition:2017-2540 D
3.	Total Dissolved Solid, mg/l	1620	--	--	--	IS:3025(Part-16)2006, Reaff.2017 APHA 23 rd Edition:2017-2540 C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	21	30	350	100	IS:3025(Part-44)2009, Reaff.2014 APHA 23 rd Edition:2017-5210 B
5	Chemical Oxygen Demand, mg/L	180	250	No guideline	No guideline	IS:3025(Part-58)2006, Reaff.2017 APHA 23 rd Edition:2017-5220 B
6	Sodium Absorption Ratio	6.90	--	--	--	Lab SOP-By Calculation

Note:

- The test report refers only to tested sample and applicable parameters.
- This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
- The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.


(Checked By)




(Authorized Signatory)
Civilian Tech Laboratories

ਮਿਤੀ

AIR/WATER SAMPLE ANALYSIS REPORT

Laboratory Sample No	Lab/Water/ 203 /2021
Name of industry	M/s Kuantum Paper Ltd, Saila Khurd Garshankar, Hoshiarpur.
Name of Sample Collecting Officer	Er. Charanjit Rai (AEE) Er. Maninderjeet Singh (JEE)
Type of Sample	Grab Monitoring
Date of Sample Collection	21/12/2021
Date of Sample Receipt in Lab	22/12/2021
Point of sample collection	As per data sheet

RESULTS

Parameter	ETP of Outlet (Final)	ASP-I	ASP-II	ASP-III	High COD Stream (Inlet)	High COD Stream (Outlet)	Low COD Stream (Inlet)
pH	7.4	-	-	-	7.0	7.7	6.9
COD (mg/l)	248	-	-	-	3200	456	1068
BOD (mg/l)	28	-	-	-	1140	90	332
TSS (mg/l)	40	-	-	-	904	182	138
MLSS (mg/l)	-	3954	2932	4332	-	-	-
MLVSS (mg/l)	-	3012	2470	3540	-	-	-

Prepared by

Scientific Officer
Zonal Lab, Jalandhar

No. 3546-48

Dated: 31/12/21

A copy of the above is forwarded to the following for information & necessary action along with this report:-

The Chief Environmental Engineer, (Water) Punjab Pollution Control Board, Ludhiana.

The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal office, Jalandhar.

The Environmental Engineer, Regional Office, Hoshiarpur along with extra copy of

604 Environ Tech Laboratories

Plot No. C-101, Industrial Area, Phase-7, Sector 73, Mohali, Punjab - 160059
Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081
GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



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Page 1 of 1

Dispatch No: ETL/DSP/ 22852

Date: 15.01.2022

TEST REPORT

TO
M/s KUANTUM PAPERS LTD,
SAILAKHURD, DISTT. HOSHIARPUR, PUNJAB

Report No.	ETL/44/2022/G/22515	Report Date	15.01.2022
Your Ref. No.	Nil	Type of sample	ETP Outlet Water
Sample Code Given by Customer	Nil	Quantity	3 LITER (2 Litre Plastic +1 Litre Glass Bottle)
		Date of Sampling	10.01.2022
Sampling Location	Outlet of ETP	Date of sample receipt	11.01.2022
Sample Collected By	Lab Person	Sample I.D.	ETL/32/2022/G/515
Sampling procedure	As per SOP	Date of test	11.01.2022- 15.01.2022

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.65	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025 (Part-11)2002,Reaff.2017 APHA 23 rd Edition:2017-4500H+B
2	Total Suspended Solids, mg/L	35	100	600	200	IS:3025(Part-17)2012,Reaff.2017 APHA 23 rd Edition:2017-2540 D
3.	Total Dissolved Solid, mg/l	1412	--	--	--	IS:3025(Part-16)2006, Reaff.2017 APHA 23 rd Edition:2017-2540 C
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	20	30	350	100	IS:3025(Part-44)2009,Reaff.2014 APHA 23 rd Edition:2017-5210 B
5	Chemical Oxygen Demand, mg/L	176	250	No guideline	No guideline	IS:3025(Part-58)2006,Reaff.2017 APHA 23 rd Edition:2017-5220 B
6	Sodium Absorption Ratio	5.87	--	--	--	Lab SOP-By Calculation

Note:

- The test report refers only to tested sample and applicable parameters.
- This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
- The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

Ria
(Checked By)



Ajeet Singh
(Authorized Signatory)

AJEET SINGH
Dy. Technical Manager
Environ Tech Laboratories

Environ Tech Laboratories

Plot No. C-101, Industrial Area, Phase-7, Sector 73, Mohali, Punjab - 160059
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GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



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Page 1 of 1

Dispatch No: ETL/DSP/ 22453

Date: 31.05.2022

TEST REPORT

TO
M/s KUANTUM PAPERS LTD,
SAILAKHURD, DISTT. HOSHIARPUR, PUNJAB

Report No.	ETL/44/2022/354	Report Date	31.05.2022
Your Ref. No.	Nil	Type of sample	ETP Outlet Water
Sample Code Given by Customer	Nil	Quantity	3 LITER (2 Litre Plastic +1 Litre Glass Bottle)
		Date of Sampling	21.05.2022
Sampling Location	ETP (OUTLET)	Date of sample receipt	23.05.2022
Sample Collected By	Lab Person	Sample I.D.	ETL/32/2022/354
Sampling procedure	As per SOP	Date of test	23.05.2022-31.05.2022

PART-A

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.70	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025 (Part-11)2002,Reaff.2017
2	Total Suspended Solids, mg/L	40	100	600	200	IS:3025(Part-17)2012,Reaff.2017
3.	Total Dissolved Solid, mg/l	1478	--	--	--	IS:3025(Part-16)2006, Reaff.2017
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	19.5	30	350	100	IS:3025(Part-44)2009,Reaff.2014
5	Chemical Oxygen Demand, mg/L	140	250	No guideline	No guideline	IS:3025(Part-58)2006,Reaff.2017

Note:

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

Quia
(checked by)



Ajeet Singh
(Authorized Signatory)
AJEET SINGH SAINI
Technical Manager
Environ Tech Laboratories

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient air, Noise, Stack Emission & LUX

Email : environtechlab72@yahoo.com | Website : www.environtechlab.com

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 ਫੋਨ ਨੰਬਰ : 0181-2600301 www.ppcb.gov.in ਈ ਮੇਲ : zolabjalandhar@gmail.com

ਜਲੰਧਰ

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ਈ ਮੇਲ : zolabjalandhar@gmail.com

ਨਵੀਂ ਭਾਗ

ਵਾਤਾਵਰਣ ਇੰਜੀਨੀਅਰ

ਨੰਬਰ

ਮਿਤੀ

ਤਾਰੀਖ 24/11/2022

AIR/WATER SAMPLE ANALYSIS REPORT

1.	Laboratory Sample No	Lab/Water/ 202-04 /2022
2.	Name of Industry	M/s Kuantum Paper Mill Ltd, Vill. Salla Khurd, Tehsil Garshankar, Distt. Hoshiarpur.
3.	Name of Sample Collecting Officer	Er. Shiv Kumar(EE) Er. Sukhwant Singh (AEE)
4.	Type of Sample	Grab Monitoring
5.	Date of Sample Collection	16/11/2022
6.	Date of Sample Receipt in Lab	17/11/2022
7.	Point of sample collection	As per data sheet

S. No	Parameter	Outlet	RESULTS		Aeration Tank (Low COD)	Aeration Tank (High COD)
			Inlet (Low COD)	Inlet (High COD)		
1	pH	7.6	7.1 ✓	7.5	-	-
2	COD (mg/l)	234	3600 ✓	620	-	-
3	BOD (mg/l)	27	1220 ✓	132	-	-
4	TSS (mg/l)	45	1020	235 ✓	2930	3910
5	MLSS (mg/l)	-	-	-	2075	2635
6	MLVSS (mg/l)	-	-	-	-	-

Analyzed by

Scientific Officer
Zonal Lab, Jalandhar

Endst. No. 3264-00

Dated: 21/12/22

A copy of the above is forwarded to the following for Information & necessary action along with data sheet to:-

1. The Chief Environmental Engineer, (Water) Punjab Pollution Control Board, Ludhiana.
2. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal office, Jalandhar.
3. The Environmental Engineer, Regional Office, Hoshiarpur along with extra copy of analysis report and data sheet for further transmission to the Industry as per rules.

Asstt Scientific Officer-3
Zonal Lab, Jalandhar



Environ Tech Laboratories

MoEF & CC Recognized, OHSAS ISO 45001:2018

Plot No. C-101, Industrial Area, Phase VII, Sector 73, Mohali, Punjab - 160059

Mob. 94640-00081, 94172-20081, 94172-10081, (O) 94630-00081, 0172-4630081

GSTIN : 03BPEPS9693P1ZV, PAN No. BPEPS9693P



TC-5879



TEST REPORT

Dispatch No: ETL/DSP/Z32519

TO
M/s KUANTUM PAPERS LTD.
SAILA KHURD, RAILWAY ROAD
DISTT. HOSHIARPUR,
PUNJAB

Report No.	ETL/44/2022/O/1916Q	Report Date	31.12.2022
Your Ref. No.	Nil	Type of sample	Treated water
Sample Code Given by Customer	Nil	Quantity	3 litre(1 Litre Plastic +2 Litre Glass Bottle)
		Date of Sampling	20.12.2022
Sampling Location	ETP Outlet	Date of sample receipt	22.12.2022
Sample Collected By	Mr. Tikka Ram, Field Assistant	Sample I.D.	ETL/32/2022/O/1916Q
Sampling procedure	ETL/STP/W/33	Date of test	22.12.2022 - 30.12.2022
Sample Description	Slightly Turbid Water		

S. NO.	PARAMETERS	TEST RESULTS	STANDARDS			TEST METHODS
			Inland surface Water	Public Sewer	Land for Irrigation	
1	pH	7.55	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0	IS:3025 (Part-11)2002,Reaff.2017
2	Total Suspended Solids, mg/L	35	100	600	200	IS:3025(Part-17)2012,Reaff.2017
3.	Total Dissolved Solid, mg/l	1520	--	--	--	IS:3025(Part-16)2006, Reaff.2017
4	Bio-chemical Oxygen Demand at 27°C 3 days, mg/L	21	30	350	100	IS:3025(Part-44)2009,Reaff.2014
5	Chemical Oxygen Demand, mg/L	168	250	No guideline	No guideline	IS:3025(Part-58)2006,Reaff.2017
6	Sodium Absorption Ratio	2.2	--	--	--	Lab SOP-By Calculation
7.	AOX	1.4	---	---	---	Lab SOP

Note:

- The test report refers only to tested sample and applicable parameters.
- This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
- The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.



END OF REPORT

Rameshwar Kumar
(Authorized Signatory)

RAMESHWAR KUMAR
Manager-Quality Assurance
Environ Tech Laboratories



ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਰੋਕਥਾਮ ਬੋਰਡ



ਜੇਨਲ ਪ੍ਰੋਗਰਾਮ, ਫੋਕਲ ਪੁਆਇੰਟ, ਪੀ:ਐਸ:ਆਈ:ਈ:ਸੀ ਵਾਟਰ ਟੈਕ, ਜਲੰਧਰ
 ਫੋਨ ਨੰਬਰ : 0181-2600301 www.ppcb.gov.in ਈ ਮੇਲ : zolabjalandhar@gmail.com

AIR/WATER SAMPLE ANALYSIS REPORT

1.	Laboratory Sample No	Lab/Water/ 134-38 /2023
2.	Name of industry	M/s Kuantum Paper Mill Ltd, Vill. Saila Khurd, Tehsil Garshankar, Distt. Hoshiarpur.
3.	Name of Sample Collecting Officer	Er. Shiv Kumar (Adl. SEE) Er. Jatinder Kumar (AEE)
4.	Type of Sample	Grab Monitoring
5.	Date of Sample Collection	05/09/2023
6.	Date of Sample Receipt in Lab	06/09/2023
7.	Point of sample collection	As per data sheet

RESULTS

S. No	Parameter	Outlet	Inlet (Low COD)	Inlet (High COD)	Aeration Tank (Low COD)	Aeration Tank (High COD)
1	pH	7.0	6.6	6.4	-	-
2	COD (mg/l)	128	-	-	-	-
3	BOD (mg/l)	18	488	1288	-	-
4	TSS (mg/l)	18	1896	2640	-	-
5	MLSS (mg/l)	-	-	-	2380	3520
6	MLVSS (mg/l)	-	-	-	1686	2394

Analyzed by

Endst.No. 2342-44



A copy of the above is forwarded to the following for information & necessary action along with data sheet to:-

1. The Chief Environmental Engineer, (Water) Punjab Pollution Control Board, Ludhiana.
2. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal office, Jalandhar.
3. The Environmental Engineer, Regional Office, Hoshiarpur along with extra copy of analysis report and data sheet for further transmission to the industry as per rules.

Scientific Officer
Zonal Lab, Jalandhar

Dated: 08/09/23

Asstt Scientific Officer
Zonal Lab, Jalandhar

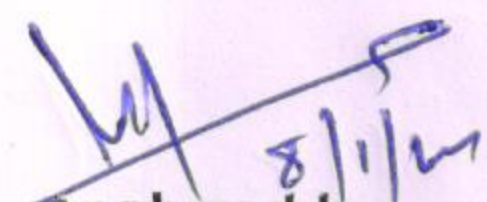
	ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਰੋਕਥਾਮ ਬੋਰਡ	
ਜੇਨਲ ਪ੍ਰੋਗਰਾਮਲਾ, ਫੋਕਲ ਪੁਆਇੰਟ, ਪੀ:ਐਸ:ਆਈ:ਈ:ਸੀ ਵਾਟਰ ਟੈਕ, ਜਲੰਧਰ		
ਫੋਨ ਨੰਬਰ : 0181-2600301	www.ppcb.gov.in	ਈ ਮੇਲ : zolabjalandhar@gmail.com

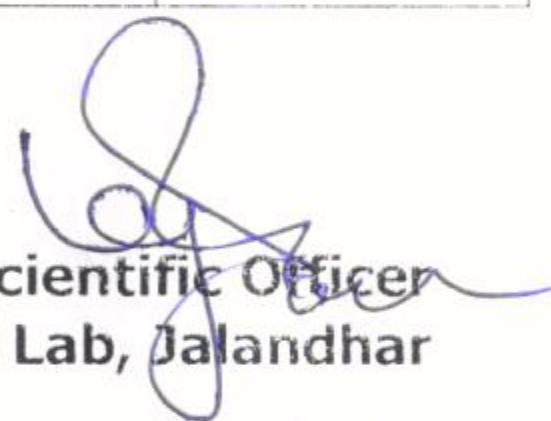
AIR/WATER SAMPLE ANALYSIS REPORT

1.	Laboratory Sample No	Lab/Water/ 273-77 /2023
2.	Name of industry	M/s Kuantum Paper Ltd, Vill. Saila Khurd, Distt. Hoshiarpur.
3.	Name of Sample Collecting Officer	Er. Jatinder Kumar (AEE) Er. Sukhpreet Singh (JEE)
4.	Type of Sample	Grab Monitoring
5.	Date of Sample Collection	27/12/2023
6.	Date of Sample Receipt in Lab	28/12/2023
7.	Point of sample collection	As per data sheet

RESULTS

S. No	Parameter	Outlet	Inlet (Low COD)	Inlet (High COD)	Aeration Tank (Low COD)	Aeration Tank (High COD)
1	pH	7.4	7.3	7.2	-	-
2	COD (mg/l)	162	1168	2940	-	-
3	BOD (mg/l)	20	310	1076	-	-
4	TSS (mg/l)	23	1765	2405	-	-
5	MLSS (mg/l)	-	-	-	2280	2810
6	MLVSS (mg/l)	-	-	-	1630	2235


Analyzed by


Scientific Officer
Zonal Lab, Jalandhar

Endst.No. 82-84

Dated: 8/1/24

A copy of the above is forwarded to the following for information & necessary action along with data sheet to:-

1. The Chief Environmental Engineer, (Water) Punjab Pollution Control Board, Ludhiana.
2. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal office, Jalandhar.
3. The Environmental Engineer, Regional Office, Hoshiarpur along with extra copy of analysis report and data sheet for further transmission to the industry as per rules.


Asstt Scientific Officer
Zonal Lab, Jalandhar

ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਰੋਕਥਾਮ ਬੋਰਡ	
ਜੇਨਲ ਪ੍ਰੋਗਰਾਮਲਾ, ਫੋਕਲ ਪੁਆਇੰਟ, ਪੀ:ਐਸ:ਆਈ:ਈ:ਸੀ ਵਾਟਰ ਟੈਕ, ਜਲੰਧਰ	
ਫੋਨ ਨੰਬਰ : 0181-2600301	www.ppcb.gov.in
ਈ ਮੇਲ : zolabjalandhar@gmail.com	

AIR/WATER SAMPLE ANALYSIS REPORT

1.	Laboratory Sample No	Lab/Water/ 54-58 /2024
2.	Name of industry	M/s Kuantum Paper Mill Ltd, Vill. Saila Khurd, Distt. Hoshiarpur.
3.	Name of Sample Collecting Officer	Er. Shiv Kumar (Add. SEE) Er. Jatinder Kumar (AEE)
4.	Type of Sample	Grab Monitoring
5.	Date of Sample Collection	15/05/2024
6.	Date of Sample Receipt in Lab	16/05/2024
7.	Point of sample collection	As per data sheet

RESULTS

S. No	Parameter	Outlet	Inlet (Low COD)	Inlet (High COD)	Aeration Tank (Low COD)	Aeration Tank (High COD)
1	pH	7.5	6.9	7.0	-	-
2	COD (mg/l)	146	960	2670	-	-
3	BOD (mg/l)	19	264	874	-	-
4	TSS (mg/l)	30	1186	2262	-	-
5	MLSS (mg/l)	-	-	-	2570	3240
6	MLVSS (mg/l)	-	-	-	1850	2410

Analyzed by

Scientific Officer
Zonal Lab, Jalandhar
Dated: 27/5/24

Endst.No. 1667-69

A copy of the above is forwarded to the following for information & necessary action along with data sheet to:-

1. The Chief Environmental Engineer, (Water) Punjab Pollution Control Board, Ludhiana.
2. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal office, Jalandhar.
3. The Environmental Engineer, Regional Office, Hoshiarpur along with extra copy of analysis report and data sheet for further transmission to the industry as per rules.

Asstt Scientific Officer
Zonal Lab, Jalandhar



ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਰੋਕਥਾਮ ਬੋਰਡ



ਜੇਨਲ ਪ੍ਰਯੋਗਸ਼ਾਲਾ, ਫੋਕਲ ਪੁਆਇੰਟ, ਪੀ:ਐਸ:ਆਈ:ਈ:ਸੀ ਵਾਟਰ ਟੈਕ, ਜਲੰਧਰ
ਫੋਨ ਨੰਬਰ : 0181-2600301 www.ppcb.gov.in ਈ ਮੇਲ : zolabjalandhar@gmail.com

AIR/WATER SAMPLE ANALYSIS REPORT

1.	Laboratory Sample No	Lab/Water/ 182-86 /2024
2.	Name of industry	M/s Kuantum Paper Mill Ltd, Vill. Saila Khurd, Distt. Hoshiarpur.
3.	Name of Sample Collecting Officer	Er. Shiv Kumar (Addl. SEE) Er. Jatinder Kumar (AEE) Er. Sukhpreet Singh (JEE)
4.	Type of Sample	Grab Monitoring
5.	Date of Sample Collection	22/08/2024
6.	Date of Sample Receipt in Lab	23/08/2024
7.	Point of sample collection	As per data sheet

RESULTS

S. No	Parameter	Outlet	Inlet (Low COD)	Inlet (High COD)	Aeration Tank (Low COD)	Aeration Tank (High COD)
1	pH	7.3	6.9	7.0	-	-
2	COD (mg/l)	160	696	1820	-	-
3	BOD (mg/l)	23	210	560	-	-
4	TSS (mg/l)	38	986	1940	-	-
5	MLSS (mg/l)	-	-	-	2870	3550
6	MLVSS (mg/l)	-	-	-	2060	2490

Analyzed by Bol 6/9/24

Scientific Officer
Zonal Lab, Jalandhar

Endst.No. 2579-81

Dated: 9/9/24

A copy of the above is forwarded to the following for information & necessary action along with data sheet to:-

1. The Chief Environmental Engineer, (Water) Punjab Pollution Control Board, Ludhiana.
2. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal office, Jalandhar.
3. The Environmental Engineer, Regional office, Hoshiarpur along with extra copy of analysis report and data sheet for further transmission to the industry as per rules.

Asstt Scientific Officer
Zonal Lab, Jalandhar

Report

on

**PERFORMANCE EVALUATION OF EXISTING EFFLUENT
TREATMENT PLANT (ETP)**

at



KUANTUM PAPERS LTD.

Village :Saila Khurd, District Hoshiarpur (Punjab)

Prepared by



**Central Pulp & Paper Research Institute,
Saharanpur-247001 (U.P.)**

April , 2019

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Annexure I : ETP layout		
Annexure – II ETP photographs		

1.0 INTRODUCTION

Kuantum Papers Ltd (formerly ABC Paper Mills) is located at **Village - Saila Khurd, District Hoshiarpur, Punjab**. The mill established in 1980, produces writing and printing grades of paper using mixed fibrous raw materials which include agro residues (wheat straw, bagasse, sarkanda, kahi grass, etc.), wood (bamboo, wood chips and veneer waste) and purchased wood pulp. The mill has an installed paper production capacity of 450 tpd. The capacity of agro pulping street is 165 tpd and wood pulping street is 65 tpd while the purchased pulp consumption is around 76 tpd.

2.0 OBJECTIVE OF THE REPORT

The objective of the report is to evaluate the performance of existing Effluent Treatment Plant (ETP) for treatment of effluent generated from 403 TPD writing & printing paper production (on sampling day) to meet the stipulated discharge norms.

A team of CPPRI scientists visited the mill on 16th April 2019 for composite sampling of effluent sample from various stages of ETP as well as collection of information and data related to the mill including fresh water consumption, waste water discharged, design specifications of existing ETP etc.

3.0 MILL PROFILE

The mill employs agro residues, wood as well as purchased pulp for paper production. The composition of fiber furnish depends on grades of paper produced. The process employed by the mill for processing agro and woody raw material is summarized as under :

Raw Material Preparation

Raw material processing of agriculture residue like wheat straw and bagasse involves **depithing** and **wet washing** while **cutters** are used for grasses. The wet washing system involves cleaning with wash water at a very low consistency i.e. 2% in a pulper which is basically a conical container equipped with an agitator or impeller. Through agitation, heavy particles like sand or other foreign material get settle down at the bottom of the pulper which are then removed from the system and the light

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fibers are separated from water through **Aqua Separator** which is followed by squeezing through **Plug Screw Feeder**.

For wood street, the mill employs chippers and screening system for processing wood / bamboo / veneer wastes comprising of Chipper and Screen.

Pulping

The mill employs **vertical digester** for wood pulping and horizontal **continuous digesters** for agro residues pulping. Continuous cooking process has advantages in terms of uniform quality of pulp, efficient use of chemicals and steam etc. This system gives better productivity and more uniform quality of pulp.

Pulp Washing

In both the agro and wood street, the unbleached pulp after screening is subjected to pulp washing through 3 stage counter current brown stock washers. The washed pulp is sent for bleaching while the weak black liquor generated is separately processed for recovery of energy and chemicals in chemical recovery process.

Oxygen Delignification & Pulp Bleaching

The unbleached agro residue pulp after screening and cleaning through pressure screen and centicleaners followed by decker washers is first subjected to **oxygen delignification** followed by conventional bleaching using **CEpHH** bleaching sequence. The unbleached wood pulp is also bleached using **CEpHH** bleaching sequence. The mill plans to adopt ECF bleaching for agro street for which trials are under progress. The bleached pulp from different streets is stored in respective bleached HD Storage Towers. Pulp stored in these towers is at 10-12 % consistency, which gets diluted before pumping according to the paper grade required on paper machines.

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Stock Preparation & Paper Making

Bleached Pulp produced from agro residues, wood as well as purchased pulp are blended in pre-determined ratio in blending chest as per end product requirement. Pulp is then pumped to mixing chest where chemicals like filler, starch, sizing chemicals are added as per quality requirement.

The pulp from stock preparation section is diluted through back water and then passed through pressure screens and centri-cleaners to remove impurities. It then goes to synthetic wire mesh through Head Box. Water is drained through running wire mesh by vacuum and fibers are oriented to form the wet paper sheet.

Wet Sheet is picked-up from wire section and then pressed between rolls and felts to squeeze water out through pressing. Moisture in paper after press section ranges from 58- 63 % depending upon GSM, quality etc. The paper is further dried to around 4.5% moisture through steam heated drying cylinders. Sizing is carried out with starch which is applied onto paper surface to improve smoothness and printability of the papers. The paper is provided smooth finish through calendaring by passing the paper through smooth rollers mounted opposite of each other. Finally the paper is converted into reels / sheets and then packed for dispatch.

The mill has 4 Paper Machines the details of which are as under:

Paper machine	Capacity, tpd	Paper Grades Produced
Paper machine 1	30	Non-surface sized papers in the grammage range of 48-130
Paper machine 2	35	Non-surface sized and surface sized papers in the grammage range of 58-180
Paper machine 3	110	Non-surface sized papers in the grammage range of 49-130
Paper machine 4	275	Non-surface sized and surface sized papers in the grammage range of 52-130

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4.0 FRESH WATER CONSUMPTION

The mill sources its water from ground through 9 borewells. All the borewells are provided with flowmeters. As reported by the mill the freshwater consumption on the sampling day was 19053 m³/ day the process wise break up of which is indicated in Table –1 :

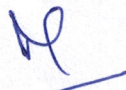
Table 1 : Fresh Water Consumption in Kuantum Papers Ltd., Sailakhurd , Punjab

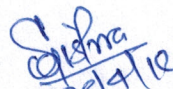
S.N.	Process Wise Break Up	Process wise fresh water consumption,* m ³ / day
1	Raw material Preparation & Pulp Mill	8050
2	Paper Machine (1, 2,3&4)	4670
3	Recovery Plant	1535
4	Boiler& Cooling Tower	2022
5	Miscellaneous including Chemical Preparation	2776
6	Total (in m ³ / day)	19053
7	Paper Production ,tpd*	403
	Total Fresh Water Consumption (m ³ / t paper)*	47

*On sampling day

5.0 EXISTING EFFLUENT TREATMENT SYSTEM

Kuantum Papers Ltd., employs anaerobic treatment followed by activated sludge process for treatment of wet washing effluent while the combined effluent (which include pulp mill, paper machine, utilities etc.) is treated through activated sludge process. Biologically treated effluent is finally treated chemically using Poly aluminium Chloride (PAC) and flocculent to remove pollution load to achieve the prescribed standards.

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The effluent treatment system adopted by the mill is summarized as under :

Treatment of Wet Washings

For the treatment of wet washings, the effluent treatment system involves **Bioclarifier** for removal of suspended matter followed by **Upflow Anaerobic Sludge Blanket Reactor (UASB)** of capacity 3928.6 m³. The effluent handling capacity UASB is around 8000m³ per day of effluent, whereas at present the volume of wet washing generated is around 4000 m³ per day. The biogas generated is used as fuel in the boiler. The anaerobically treated wet washings is post treated aerobically through **Aeration Tank No. 3** which is provided with diffused aeration system. Nutrients Urea & DAP are added to the aeration tank for growth of microorganism. The anaerobically treated effluent after aerobic treatment is mixed along with the aerobically treated combined effluent and clarified through **secondary clarifier** followed by **chemical treatment** and **tertiary clarifier**.

Treatment of other waste streams (combined effluent)

The effluent from other stream (pulp mill, paper machine, utilities etc) are treated collectively through **Primary Clarifier** (for removal of suspended matter) followed by aerobic treatment through two aeration tanks **Aeration Tank No.2& 3** provided with diffused aeration system. Nutrients Urea & DAP are added to the aeration tank for growth of microorganism. The combined effluent along with aerobically treated wet washing effluent is collectively clarified through **secondary clarifier**. The effluent is further treated in a **tertiary clarifier** through chemical treatment with Poly Aluminium Chloride (PAC) and flocculant.

Sludge Management

The mill employs 3 **screw press** to dewater primary sludge where as **decanter centrifuge** for dewatering of secondary sludge. As per mill, the dewatered primary sludge is used for manufacturing of board and secondary sludge is land filled in scientific manner.

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The design specification of the individual ETP units are summarized in Table – 2. The layout of existing ETP and the photographs of the individual units is indicated in Annexure I & II respectively.

Table – 2 : Design Specifications of Existing ETP

A	Wet Washing Effluent	Design Specification	Purpose
1	Bio Clarifier	Dia, m : 16.0 SWD m: 5.5 Capacity m ³ : 1105	For removal of suspended fibers / material
2	UASB Reactor	No of Reactors : 01 Dia, m :25 , Height,m: 8 Capacity m ³ : 3928 Designed COD Loading: 18.5 TPD Designed BOD Loading: 5.72 TPD	For anaerobic treatment of wet washings of raw material
3	Aeration tank 3	LXBX H m : 27 x 27x 5.5 Capacity m ³ : 4010 No of blower : 1 Blower Capacity : 3200 m ³ / hr No. of Diffusers: 600 [1000 mm (L) x 60 mm (Dia)]	For post treatment of anaerobically treated wet washings
B	Combined Effluent		
1	Primary Clarifier	Dia, m : 38 SWD m: 4.5 Capacity m ³ : 5100	For removal of suspended fibers
2	Aeration Tank 1	LXBX H m : 38.5x38.5x4.5 Capacity m ³ : 6670 No of Blowers : 03 (3200 m ³ /hr) each (2 operational + 1 standby) Capacity of each Blower, HP : 100 No. of Diffusers: 1568 [1000 mm (L)	For biological oxidation of organic matter

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		x 60 mm (Dia)]	
3	Aeration tank 2	LXBX H m : 30x30x4.5 Capacity m ³ : 4050 No of Blowers : 02 (3200 m ³ /hr) each Capacity of Blowers HP : 100 each No. of Diffusers: 1096 [(1000 mm (L) x 60 mm (Dia)]	For biological oxidation of organic matter
4	Secondary Clarifier	Dia, m : 38 SWD, m : 4.5 Capacity m ³ : 5100	For arresting the biological biomass escaping from aeration tanks
5	Tertiary Clarifier	Dia, m : 22 SWD m : 3.66 Capacity m ³ : 1391	For polishing the quality of treated effluent
6	Screw presses (3 Nos) Decanter Centrifuge(2 Nos)	Capacity : 65 m ³ /hr each • Alpha : 30 m ³ /hr and MBE HVM BOLDT: 25 m ³ /hr	Dewatering of ETP sludge

Disposal / Utilization of Treated Effluent

The treated effluent is utilized for irrigation of the fields having an area about 2000 acres of nearby villages. This treated effluent is utilized for irrigation of rice, maize and green fodder in the month of June to October. In the month of November to May, the treated effluent is utilized for irrigation of crops namely wheat, sugarcane etc. Besides, the industry has its own plantation area and green area within its premises along with plantation area of the nearby farmers. During no-demand period i.e. 15th November – 15th December (1 month), the treated effluent is utilized for plantation of eucalyptus trees and gardening maintained within the premises of industry (about 110 acres).

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6.0 ETP Performance Evaluation

Based on the analysis of effluent sample collected and pollution load assessed the ETP Performance is evaluated as under :

- Paper Production: 403 tpd
- Total effluent generated : 17035 m³/ day
- Wet Washing Effluent : 4270 m³/ day
- Other Mill Effluent : 12765 m³ / day

(a) Biomethanation Plant:

The performance of the units of biomethanation plant i.e. Bio Clarifier and UASB Reactor as well as Overall Performance of Biomethanation plant was assessed based on the samples collected & analysed by CPPRI as given below:

Performance of Bio Clarifier

Parameter	Bio Clarifier Inlet	Bio Clarifier Outlet	Reduction, %
pH	6.49	6.36	-
TSS, mg/l	2327	765	67
COD, mg/l	3428	3005	12
BOD, mg/l	1825	1735	5

Performance of UASB Reactor

Parameter	UASB Inlet	UASB Outlet	Reduction, %
pH	6.36	6.73	-
TSS, mg/l	765	193	75
COD, mg/l	3005	1709	43
BOD, mg/l	1735	775	55

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(b) ETP Based on Activated Sludge Process:

The performance of various units of existing Effluent Treatment Plant (ETP) i.e. Primary Clarifier, Secondary Biological System, Tertiary Treatment as well as Overall Performance of ETP was assessed based on the samples collected & analysed by CPPRI as given below:

(I) Performance of Primary Clarifier

Parameter	Primary Clarifier Inlet	Primary Clarifier Outlet	Reduction, %
pH	6.37	6.60	-
TSS, mg/l	1465	185	87
COD, mg/l	1680	1264	25
BOD, mg/l	500	390	22

(II) Performance of Activated Sludge Process (ASP) + Secondary Clarifier

Parameter	Primary Clarifier Outlet + UASB Outlet (Aeration Tank Inlet)	Secondary Clarifier Outlet *	Reduction, %
pH	6.7	7.18	-
TSS	187	95	49
COD, mg/l	1376	396	71
BOD, mg/l	486	45	91

(UASB Outlet + Other Mill Effluent)*

(III) Performance of Tertiary Treatment System

Parameter	Secondary Clarifier Outlet	Tertiary Clarifier Outlet	Reduction, %
pH	7.18	7.26	-
TSS, mg/l	95	45	53
COD, mg/l	396	245	38
BOD, mg/l	45	24	47

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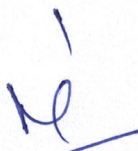
(IV) Overall Performance of Effluent Treatment Plant (ETP) at Kuantum Papers Ltd :

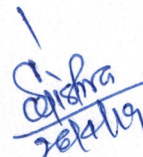
Parameter	PC Outlet + UASB Outlet	Tertiary Treated Effluent (Final Discharge)	Reduction, %
pH	6.7	7.26	-
TSS, mg/l	187	45	76
COD, mg/l	1376	245	82
BOD, mg/l	486	24	95

7.0 OBSERVATIONS

Based on the information and data provided by the mill and analysis of the sample collected, CPPRI has following observations to make :

- The fresh water consumption of Kuantum Papers Ltd., is around 47 m³ / t paper.
- The mill has provided flow meter on all the borewell and the daily fresh water is regularly monitored and documented.
- The mill employs continuous digester for pulping of agro residues which ensure improved pulp quality and reduced energy consumption .
- The mill has adopted oxygen delignification system in agro street to reduce the kappa number of unbleached pulp before pulp bleaching to reduce the chemical consumption in bleaching stage and accordingly the pollution load .
- The mill has two effluent streets – (a) Wet washing street and (b) Combined effluent street from pulp mill , paper machine , utilities etc
- The volume of wet washings was around 4270 m³ / day while the combined effluent volume was around 12760 m³ / day on the day of sampling .
- The mill employs anaerobic treatment system involving Upward Anaerobic Sludge Blanket Reactor (UASB) for treatment of raw material wet washings.
- The reactor has three phase settler for separation of treated effluent , biomass and biogas generated. The biogas generated is used as fuel in the boiler.

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- The biogas generation on the sampling day was reported to be around 1300 m³ / day. However the mill is advised to critically monitor the UASB reactor performance to improve the biogas production rate.
- The mill presently lacks equalization tank in the effluent treatment system based on conventional activated sludge process. However during the visit it was observed that the mill has initiated the construction of equalization tank before primary clarifier.
- The performance of Primary Clarifier in terms of reduction in Total Suspended Solids (TSS) has been found to be 87% which is satisfactory.
- The mill has three aeration tanks , one for post treatment of anaerobically treated wet washings and the other two for treatment of combined effluent after primary clarification.
- All the three aeration system are provided by diffused aeration systems.
- The MLSS level in the aeration tanks has been found to be between 4500- 5000 mg/l which is satisfactory.
- The level of dissolved oxygen in the aeration tank has been observed to be 1.8- 2.0 mg/l .
- The combined performance of Activated Sludge Process (ASP) and Secondary Clarifier in terms of reduction in TSS , COD and BOD reduction has been found to be 49 % , 71% and 91% respectively.
- The performance of Tertiary Treatment System in terms of reduction in TSS , COD and BOD has been found to be 53 % , 38 % and 47 % respectively.
- The overall performance of ETP in terms of reduction in TSS , COD and BOD has been found to be 76% , 82 % and 95 % respectively.
- The analysis of tertiary treated effluent indicate that the mill is meeting the stipulated norms as under :

Parameter	Value	Stipulated discharge norms
pH	7.26	6.5 – 8.5
TSS, mg/l	45	<50
COD, mg/l	245	< 250
BOD, mg/l	24	< 30

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- The mill has installed screw press and decanter centrifuge for dewatering of primary and secondary sludge respectively. These systems provide improved consistency of the sludge cake compared to belt press used earlier.
- The mill is advised for regular removal of primary and secondary sludge for optimum performance efficiency of clarifiers.
- The mill has installed OCEMS at tertiary outlet for monitoring of pH, TSS, COD and BOD.
- The treated effluent is utilized for plantation of eucalyptus trees and gardening maintained within the premises of industry (about 110 Acres) and outside of the nearby villages (around 2000 acres) for irrigation
- The mill has consent for utilization of treated effluent for land application only.
- 6 electromagnetic flow meters have been installed on each pipe line carrying treated waste water for irrigation.
- The mill should regularly monitor the impact of treated effluent on soil and ground water quality.

8.0 REMARKS

- Based on the analysis of effluent samples collected and analysed by CPPRI, the overall performance of existing ETP of Kuantum Papers Limited, Saila khurd, Punjab comprising of Bio Clarifier, UASB reactor, Primary Clarifier, Aeration tank 1, 2 & 3, Secondary Clarifier and Tertiary Clarifier as indicated in the report has been found to satisfactory in context with compliance with stipulated norms.
- However, the mill is advised to optimize the dosage of PAC & Flocculent to further reduce the level of suspended solids in the effluent after tertiary treatment .

Note: - This is purely a technical opinion on the Performance of Effluent Treatment Plant based on the analysis of the effluent sample collected at the time of visit of CPPRI team for the parameters specified by the mill and the information provided by the mill w.r.t paper making process , production , fresh water consumption, waste water generation etc . This cannot be deemed to be a certificate for any legal implication. The validity of this report is only limited to the conditions prevailing at the time of visit of CPPRI team.

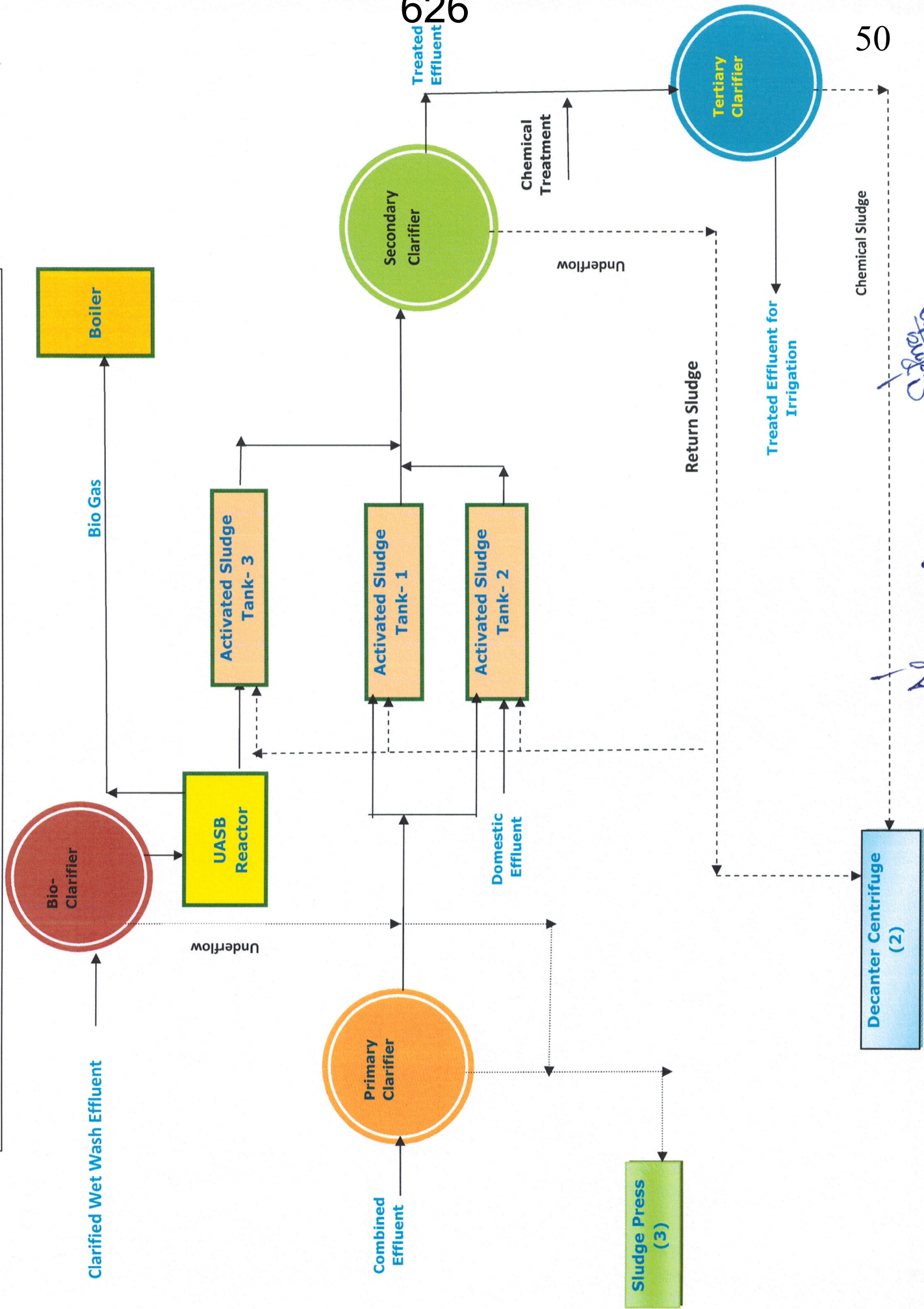
DR. NITIN ENDLAY
 Scientist in-charge
 Environmental Management Division
 Central Pulp & Paper Research Institute
 Saharanpur - 247001 (U.P.)

Dr. SHIVKANT MISHRA
 Scientist E-II & In-charge
 Environmental Management Division
 CPPRI, Saharanpur

ANNEXURE - I : ETP LAYOUT AT KUANTUM PAPERS LIMITED , SAILA KHURD, PUNJAB

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Annexure – II : PHOTOGRAPHS OF ETP UNITS AT KUANTUM PAPERS LTD, SAILA KHURD , PUNJAB



Bio- Clarifier



UASB Reactor



Primary Clarifier

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Aeration Tanks 1, 2 & 3

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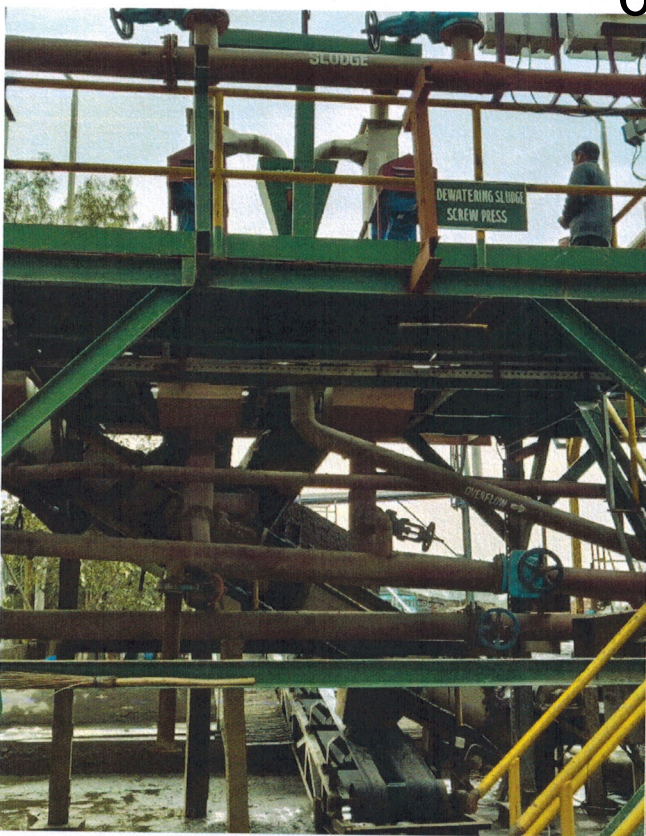
Secondary Clarifier



Tertiary Clarifier

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No
26/4/2015

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Screw Press



Decanter



Flowmeters for Utilization of Treated Effluent for Irrigation



OCEMS

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Ap
26/4/2019

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S. S. S.
26/4/19

PROOF OF SERVICE

Service of additional documents filed on behalf of Respondent No. 3 in OA No. 850 of 2018

Dalmia Law Office <dalmialawoffices@gmail.com>

Thu, Jan 9, 2025 at 12:03 AM

To: msppcb@gmail.com, mscb.cpcb@nic.in, dc.hsr@punjab.gov.in, zoya.siddiqui98@gmail.com, msppcb@punjab.gov.in, hoshiarpurdc@gmail.com, office@marklegal.co.in



Residents of Saila Khurd, Raniala.pdf

Sir/Ma'am,

Kindly find the attached additional documents filed by the Respondent No. 3 in the abovcaptioned matter.

Regards

Chambers of Vanshdeep Dalmia
Advocate on Record
O: 206, Jor Bagh, New Delhi-110003
M: +91-9810077085