

# **I am not plastic**

**100% Non plastic paper tray's**

**converted by :**

**Greenlive Bio paper products**

**Oorakam, Malappuram Dt**

**Kerala, india**

**Custamer care No : +91 9633 066 667**

**Test Report****Report No : TUV(I)/BLR-609/25-26/9052510492 Part A**

Date : 29 May 2025

Name and address of customer	:	<b>Tamil Nadu Newsprint and Papers Ltd - Unit II</b> (A Government of Tamil Nadu Enterprise) Mondipatti, K. Periyapatti Post, Manapparai Taluk, Tiruchirappalli Dist, Tamilnadu-621306.				
Name of the sample	:	<b>Solid Bleached Sulphate Board</b>				
Batch Code	:	<b>AFT,AFS,ASU,ASN,ASP</b>				
CA No.	:	9052510492				
Date of sample receipt	:	12 May 2025				
Date(s) of analysis	:	12 May 2025 - 29 May 2025				
Discipline		Chemical				
Objectives Of Examination	:	1. To test for compliance with US FDA 21.CFR.176.170 & 176.180- Chloroform - soluble extractive residues test.				
Sample drawn by	:	Customer				
Test Requested	:	Selected test(s) as requested by client.				
Result Summary	:	<table border="1"><thead><tr><th><b>Test Requested</b></th><th><b>Conclusion</b></th></tr></thead><tbody><tr><td>1.US FDA 21.CFR.176.170 - Chloroform - soluble extractive residues test</td><td><b>Pass</b></td></tr></tbody></table>	<b>Test Requested</b>	<b>Conclusion</b>	1.US FDA 21.CFR.176.170 - Chloroform - soluble extractive residues test	<b>Pass</b>
<b>Test Requested</b>	<b>Conclusion</b>					
1.US FDA 21.CFR.176.170 - Chloroform - soluble extractive residues test	<b>Pass</b>					

**1.US FDA 21.CFR.176.170 - Chloroform - soluble extractive residues test**

Sr. No.	Total Extractive Test Using Simulants	Temperature & Condition	Result	Unit	LOQ	Limits as per US FDA 21.CFR.176.170	Test Method
1	Distilled Water	120 °F-24hr	< LOQ	mg/inch <sup>2</sup>	0.25	0.5	Based on TUVB/02/SOP/27 USFDA 21.CFR.176.170 & 176.180
2	8 % Ethanol	120 °F-24hr	< LOQ	mg/inch <sup>2</sup>	0.25	0.5	
3	50 % Ethanol	120 °F-24hr	< LOQ	mg/inch <sup>2</sup>	0.25	0.5	
4	n - Heptane	70 °F- 0.5hr	< LOQ	mg/inch <sup>2</sup>	0.25	0.5	

Note :

- 1) Sample **Complies** with US.FDA 21.CFR.176.170 for above tested parameters.
- 2) Sample kept in contact with Simulants above test condition.
- 3) Limits are as per USFDA 21.CFR.176.170
- 4) **LOQ : Limit of Quantification**
- 5) **Sample Complies with US. FDA 21.CFR.176.170 as per amendment regulation April 1,2020 for above tested parameters. USFDA 21 CFR 176.180 Components of paper and paperboard in contact with dry food. Test simulants selected as per US FDA 21.CFR.176.170 for dry food contact with paper and paperboard.**

Sample image is authentic only for the original test report

**Authorized by**



**Gunavathy M K**  
**By General Manager – Operations**

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10. For Pesticide Residue analysis, reported value at LOQ level may vary within analytical variation of 50% considering Uncertainty of Measurement.

**Test Report****Report No : TUV(I)/BLR-609/25-26/9052510492 Part B**

Date : 29 May 2025

Name and address of customer	:	<b>Tamil Nadu Newsprint and Papers Ltd - Unit II</b> (A Government of Tamil Nadu Enterprise) Mondipatti, K. Periyapatti Post, Manapparai Taluk, Tiruchirappalli Dist, Tamilnadu-621306.
Name of the sample	:	<b>Solid Bleached Sulphate Board</b>
Batch Code	:	<b>AFT,AFS,ASU,ASN,ASP</b>
Lab sample Id No.	:	9052510492
Date of sample receipt	:	12 May 2025
Date(s) of analysis	:	12 May 2025 - 29 May 2025
Discipline	:	Chemical
Products Category	:	Food Contact & Food Packaging Materials
Objectives Of Examination	:	<b>FSSAI - Food Safety and standard (Packaging) Regulation</b> 1) To test for compliance with IS-6615: 1972 (RA-2009) for Heavy Metal, PCP & PCB Content
Regulation Requirement	:	To test for compliance with IS-6615: 1972 (RA-2009), Paper Board material & article intended to come in contact with Foodstuffs as per FSSAI Food Packaging Regulation.
Sample drawn by	:	Customer

<b>Conclusion</b>	The Submitted sample <b>Conforms</b> with IS 6615: 1972 (Reaffirmed 2009) for Cadmium, Hexavalent Chromium, Lead, Mercury, Pentachlorophenol & Polychlorinated biphenyl_PCB test parameters.
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**Refer further pages for Test Result**

Report No : TUV(I)/BLR-609/25-26/9052510492 Part B

Date : 29 May 2025

Sr. No.	Name of Test	Result	LOQ	Unit	Limits as per IS 6615: 1972 (Reaffirmed 2009)	Test Method
1	Cadmium - Cd	< LOQ	0.25	mg/kg	0.5	Based on IS 6615: 1972 (Reaffirmed 2009)
2	Lead – Pb	< LOQ	0.25	mg/kg	3.0	
3	Mercury – Hg	< LOQ	0.25	mg/kg	0.3	
4	Hexavalent Chromium – Cr ( VI )	< LOQ	0.05	mg/kg	0.1	
5	Pentachlorophenol Content	< LOQ	0.025	mg/kg	0.05	
6	Polychlorinated biphenyl_PCB Content	< LOQ	0.3	mg/kg	2.0	

**Name of the PCBs Compounds Analysed**

2-CHLOROBIPHENYL

3,3'-,DICHLOROBIPHENYL

2,4,5-TRICHLOROBIPHENYL

2,2',4,4TETRACHLOROBIPHENYL

2,3,4,5,6-PENTACHLOROBIPHENYL

2,2',3,3',6,6'-HEXACHLOROBIPHENYL

2,2',3,4,5,5',6,-HEPTACHLOROBIPHENYL

2,2',3,3',4,4',5,5'-OCTACHLOROBIPHENYL

2,2',3,3',4,4',5,5',6-NONACHLOROBIPHENYL

2,2',3,3',4,4',5,5',6,6'-DECACHLOROBIPHENYL

**Note: LOQ-Limit of Quantification**

Sample image is authentic only for the original test report

**Authorized by**

**Gunavathy M K**

**Dy. General Manager – Operations**

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10. For Pesticide Residue analysis, reported value at LOQ level may vary within analytical variation of 50% considering Uncertainty of Measurement.

**Test Report****Report No : TUV(I)/BLR-609/25-26/9052510492 Part C**

Date : 29 May 2025

Name and address of customer : **Tamil Nadu Newsprint and Papers Limited - Unit II**  
(A Government of Tamil Nadu Enterprise)  
Mondipatti, K. Periyappatti Post,  
Manapparai Taluk, Tiruchirappalli District, Tamil Nadu - 621306  
Tiruchirappalli, Tamil Nadu  
621306

Name of the sample : **Solid Bleached Sulphate Board**

Batch Code : **AFT,AFS,ASU,ASN,ASP**

CA No. : **9052510492**

Date of sample receipt : **12 May 2025**

Date(s) of analysis : **12 May 2025 - 29 May 2025**

**To test for compliance with BFR XXXVI regulation & EC No: 1907/2006.**

- 1) Heavy metal
- 2) Specific Migration of Phthalates
- 3) Monochloropropanediol (MCPD)
- 4) Dichloropropanol (DCP)
- 5) Specific Migration of Primary Aromatic Amines
- 6) Azo Dyes
- 7) Specific Migration of Glyoxal
- 8) Optical Brighteners
- 9) Nonyl Phenol Ethoxylate (NPEO)
- 10) Acrylamide
- 11) Anti Microbial Substances
- 12) Specific Migration of Bisphenol A
- 13) Specific Migration of Dimethylamine

Objectives Of Examination : Selected test(s) as requested by Customer

Test Requested : Selected test(s) as requested by Customer

Sample drawn by : Customer

Conclusion :

The submitted sample To test for BFR XXXVI Regulation, EC No: 1907/2006

For detail Test Results refer further pages

<b>1) Heavy metal test</b>						
<b>Sr. No.</b>	<b>Name of Test</b>	<b>Result</b>	<b>Unit</b>	<b>LOQ</b>	<b>Limits as per BfR XXXVI</b>	<b>Test Method</b>
1.1	Lead (Pb)	< LOQ	mg/kg	0.1	Max 3	Based on EN-647 Determined by ICP-OES
1.2	Cadmium (Cd)	< LOQ	mg/kg	0.1	Max 0.5	
1.3	Mercury (Hg)	< LOQ	mg/kg	0.1	Max 0.3	
1.4	Chromium (VI)	< LOQ	mg/kg	0.1	Not Detectable	

Note: The sample Complies above test parameter as per BfR XXXVI Regulation.  
LOQ : Limit of Quantification

  

<b>2) Specific Migration of Phthalates</b>						
<b>Sr. No.</b>	<b>Name of Test Parameter</b>	<b>Result</b>	<b>Unit</b>	<b>LOQ</b>	<b>Limits as per BfR XXXVI</b>	<b>Test Method</b>
2.1	Diethylhexyl phthalate	< LOQ	mg/kg	0.1	Max 1.5	Method based on BS EN 13130 (P1) 2004 by GC-MS
2.2	Di-n-butyl phthalate	< LOQ	mg/kg	0.1	Max 0.3	
2.3	Diisobutyl phthalate	< LOQ	mg/kg	0.1	Max 0.3	
2.4	The sum of Di-n-butyl phthalate & Diisobutyl phthalate	< LOQ	mg/kg	0.1	Max 0.3	
2.5	Dipentyl phthalate	< LOQ	mg/kg	0.1	Max 0.3	
2.6	Dicyclohexyl phthalate	< LOQ	mg/kg	0.1	Max 0.3	
2.7	Di-isobutyl phthalate	< LOQ	mg/kg	0.1	Max 0.3	
2.8	Di-n-hexyl phthalate	< LOQ	mg/kg	0.1	Max 0.3	

The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation  
LOQ : Limit of Quantification

<b>3) Monochloropropanediol (MCPD) **</b>						
<b>Sr. No.</b>	<b>Name of Test</b>	<b>Result</b>	<b>Unit</b>	<b>LOQ</b>	<b>Limits as per BfR XXXVI</b>	<b>Test Method</b>
3.1	Monochloropropanediol (MCPD)	Absent	µg/kg	10	12.00	Determined by GC-MSMS
The sample Complies above test parameter as per BfR XXXVI Regulation.						
LOQ : Limit of Quantification						
Note: **- Above tests are subcontracted to other Laboratory						
<b>4) Dichloropropanol (DCP) **</b>						
<b>Sr. No.</b>	<b>Name of Test</b>	<b>Result</b>	<b>Unit</b>	<b>LOD/LOQ</b>	<b>Limits as per Standard</b>	<b>Test Method</b>
4.1	Dichloropropanol (DCP)	Absent	mg/kg	0.01	Not Detectable	Determined by GC-MSMS
The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation						
LOQ : Limit of Quantification						
Note: **- Above tests are subcontracted to other Laboratory						
<b>5) Specific Migration of Primary Aromatic Amines</b>						
<b>Sr. No.</b>	<b>Name of Test</b>	<b>Result</b>	<b>Unit</b>	<b>Detection Limit</b>	<b>Limits as per Standard</b>	<b>Test Method</b>
5.1	Specific Migration of Primary Aromatic Amines	Not Detected	mg/kg	0.01	0.01	Method based on BS EN 13130(P1) 2004 Determined by GC MSMS
The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation						
<b>6) Azo Dyes</b>						
<b>Sr. No.</b>	<b>Name of Test</b>	<b>Result</b>	<b>Unit</b>	<b>Detection Limit</b>	<b>Limits as per Standard</b>	<b>Test Method</b>
6.1	Azo Dyes	Not Detected	mg/kg	0.01	Prohibited	Based on EN 14362-1 Determined by GC MSMS
The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation						
<b>7) Specific Migration of Glyoxal</b>						
<b>Sr. No.</b>	<b>Name of Test</b>	<b>Result</b>	<b>Unit</b>	<b>LOQ</b>	<b>Limits as per BfR XXXVI</b>	<b>Test Method</b>
7.1	Specific Migration of Glyoxal	Absent	mg/dm <sup>2</sup>	1.0	NMT 1.5	Determined by GCMS/LCMS
The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation						
LOQ : Limit of Quantification						
Note: **- Above tests are subcontracted to other Laboratory						

<b>8) Optical Brightners</b>				
<b>Sr. No.</b>	<b>Name of Test</b>	<b>Result</b>	<b>Limits as per Standard</b>	<b>Test Method</b>
8.1	Optical Brightners (Fluorescent Substances of Wavelength 254 to 465 nm)	No optical Brightners Absorbed @ 254 to 465 nm	No visible transfer	Determined by UV Visible Spectrophotometer Based on EN 648

Note: The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation.

<b>9) Nonyl Phenol Ethoxylate (NPEO)**</b>						
<b>Sr. No.</b>	<b>Name of Test</b>	<b>Result</b>	<b>Unit</b>	<b>LOQ</b>	<b>Limits as per BfR XXXVI</b>	<b>Test Method</b>
9.1	Nonyl Phenol Ethoxylate (NPEO)	Not Detected	mg/kg	1.000	Not Detectable	BSEN ISO 18254-1:2016, ISO/DIS 18218-2 :2012 (Solvent Extraction, Analysis by LC/MS)

The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation

LOQ : Limit of Quantification

<b>10) Acrylamide</b>						
<b>Sr. No.</b>	<b>Name of Test</b>	<b>Result</b>	<b>Unit</b>	<b>LOQ</b>	<b>Limits as per BfR XXXVI</b>	<b>Test Method</b>
10.1	Acrylamide	< LOQ	mg/kg	0.025	Not Detectable	Determined by UPLC MS/MS

The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation

LOQ : Limit of Quantification

<b>11) Microbiological test</b>					
<b>Sr. No.</b>	<b>Name of Test Parameter</b>	<b>Result</b>	<b>Unit</b>	<b>Limits as per BfR XXXVI</b>	<b>Test Method</b>
1.1	<b>Antimicrobial Substances</b> Bacillus subtilis NCIM 2063 Aspergillus niger NCIM 1196	Absence of zone inhibition	--	Absence of zone inhibition*	BS EN 1104:2005
*- Absence of zone of inhibition indicates should not release substances in quantities which have an antimicrobial effect in the Product against tested bacteria and fungi. The sample <b>Complies</b> above test parameter as per BfR XXXVI Regulation.					
<b>12) Specific Migration of Bisphenol A</b>					
<b>Sr. No.</b>	<b>Name of Test</b>	<b>Result</b>	<b>Unit</b>	<b>LOQ</b>	<b>Limits as per BfR XXXVI</b>
12	Specific Migration of Bis Phenol A	< LOQ	mg/kg	0.025	Max 0.050
The sample Complies above test parameter as per BfR XXXVI Regulation. LOQ : Limit of Quantification					
<b>13) Specific Migration of Dimethylamine **</b>					
<b>Sr. No.</b>	<b>Name of Test</b>	<b>Result</b>	<b>Unit</b>	<b>Limits as per BfR XXXVI</b>	<b>Test Method</b>
13	Specific Migration of Dimethylamine	Absent	mg/dm <sup>2</sup>	Not Detectable	Determined by GC MS/MS
The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation LOQ : Limit of Quantification Note: **- Above tests are subcontracted to other Laboratory					

**Report No : TUV(I)/BLR-609/25-26/9052510492 Part C****Date : 29 May 2025****Sample image is authentic only for the original test report****Authorized by****Gunavathy M K****Dy. General Manager-Operations****Terms and Conditions:**

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**End of Report****Page 6 of 6**