



# PULP AND PAPER RESEARCH INSTITUTE

(Regd. under Societies Registration Act, 1860)

JAYKAYPUR - 765 017, DIST. RAYAGADA, ORISSA (INDIA)

## ANALYSIS REPORT

<b>Material :</b> Effluent water samples	<b>Our Ref.:</b> 08.191 / 367
<b>Recd. on:</b> 27-11-2014	<b>Date:</b> 25-12-2014
<b>From :</b> JK Paper Mills, Jaykaypur	<b>Page No.:</b> 1 of 4
<b>Your Ref. :</b> JKPW/CTS/08.15/83/2014, dt. 26-11-2014	

**TABLE – 1: ANALYSIS REPORT OF**  
EFFLUENT INLET (FEED TO PRIMARY CLARIFIER) (SAMPLE-1)  
EFFLUENT OUTLET (SECONDARY CLARIFIER OVERFLOW) (SAMPLE-2)

Sl.No.	Parameters	Unit	Sample-1	Sample-2
1.	Colour and odour	PtCoU	-	240, agree
2.	pH	-	7.52	7.13
3.	Temperature	°C	42.0	38.9
4.	Oil and grease	mg/l	0.58	0.33
5.	Dissolved oxygen	mg/l	0.51	0.55
6.	Total suspended solids	mg/l	590.0	26.4
7.	Electrical conductivity	µmho/cm	1344	2437
8.	COD	mg/l	889	275
9.	BOD <sub>3</sub> <sup>27</sup>	mg/l	300	15.2
10.	Total residual chlorine	mg/l	-	0.Nil
11.	Ammonical nitrogen (as N)	mg/l	-	44.5
12.	Total Kjeldahl nitrogen (as NH <sub>3</sub> )	mg/l	-	7.3
13.	Free Ammonia (as NH <sub>3</sub> )	mg/l	-	ND
14.	Sulphide (as S)		-	1.83
15.	Fluoride (as F)	mg/l	-	1.91
16.	Dissolved phosphates (as P)	mg/l	-	6.7
17.	Arsenic (as As)	mg/l	-	ND
18.	Lead (as Pb)	mg/l	-	ND
19.	Hexavalent chromium (as Cr+6)			0.14
20.	Total chromium (as Cr)	mg/l	-	0.54
21.	Copper (as Cu)	mg/l	-	0.27
22.	Zinc (as Zn)	mg/l	-	1.18
23.	Nickel (as Ni)	mg/l	-	0.77
24.	Boron	mg/l	-	0.13
25.	Manganese (as Mn)	mg/l	-	0.22
26.	Iron (as Fe)	mg/l	-	1.35
27.	Sodium (as Na)	mg/l	120	252
28.	Potassium (as K)	mg/l	0.45	14.19
29.	% sodium as Na	-	-	56.0
30.	Sodium absorption ratio	-	-	6.0
31.	Nitrite nitrogen	mg/l	0.63	0.066
32.	Nitrate nitrogen	mg/l	2.72	0.83
33.	Residual sodium carbonate	mg/l	-	0.78

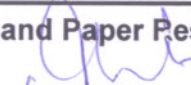
Date of collection : Effluent water samples on 04.12.2014

Time : 9.45 hrs.

ND : Not detectable

Remarks:

For Pulp and Paper Research Institute

  
for Director