

NEPALIMITED NEPANAGAR

Technical Service Charges.

The following testing facilities of fibrous, non-fibrous raw materials, Pulp, Paper & Effluent Samples are available in the R&D Centre.

S. No.	Test	NEPALIMITED R&D	
		Charges	Method
	PULPING & BLEACHING	(₹)	
1.	Raw material evaluation – pulping, bleaching & pulp evaluation (optimization of cooking & strength properties)	20,000	-
2.	Bleaching optimization (CEH)	20,000	-
	PULP EVALUATION		
1.	Beating & Sheet formation (PFI mill or Valley Beater)	6,000	T-248hm-85
2.	Refining of pulps using sprout Waldron Laboratory Disc. Refiner , including pulp evaluation) one set	15,000	Nepa
3.	Bauer McNett Fibre Classification	2,000	T-233 hm-82
4.	Freeness (CSF)	400	T-227 om-85
5.	Shive analysis of pulp	2,000	Nepa
	PAPER TESTING - PHYSICAL PROPERTIES		
1.	Ash content	300	T-413 om-85
2.	Bursting strength	300	T-403 om-85
3.	Cobb sizing test	300	T-441 om-84
4.	Grammage	300	T-410 om-83
5.	Folding Endurance	300	T-423 om-84
6.	Moisture	300	T-412 om-83
7.	Porosity (Bendtsen)	300	-
8.	Tearing strength	300	T-404 om-82
9.	Tensile strength	300	T-404 om-82
10.	Thickness	300	T-411 om-84
11.	Smoothness (Bendtsen)	300	-
	OPTICAL PROPERTIES		
1.	Brightness	400	T-452 om-83
2.	CIE, colour coordinates	400	T-527 su-72
3.	Opacity	400	T-425 om-81

(2)

	CHEMICAL TESTING		
1.	Alum	1000	IS – 299 (1980)
2.	Soda ash	300	IS – 251 (1982)
3.	Soap Stone Powder (Sand,Grids,Calcium carbonate, Mesh size & Brightness)	1000	T- 665 om - 89
4.	Common Salt	1000	IS – 797 (1976)
5.	Poly Aluminum Chloride	1000	IS – 15573 (2005)
6.	Sulphuric Acid	1000	IS – 266 (1977)
7.	Hydrochloric Acid	1000	IS – 265 (1976)
8.	Caustic Lye	1000	IS – 252 (1991)
9.	Sodium Silicate	2000	IS – 381 (1972)
10.	Hydrogen Peroxide	1000	IS – 2080 (1972)
11.	Rosin	1000	Nepa
12.	Slimicide	1000	Nepa
13.	Defoamer	1000	Nepa
14.	De-inking Chemical	1500	Nepa
15.	Waste Paper	1500	Nepa
16.	Whitening agent	1000	Nepa
	WATER ANALYSIS		
1.	Colour	500	IS-10500 (1991)
2.	PH	200	
3.	Dissolved solids	300	
4.	Silica as SiO ₂	700	
5.	Alkalinity - Methyl orange alkalinity as CaCO ₃ - Phenolphthalein alkalinity as CaCO ₃	200 200	
6.	Total hardness - Temporary as CaCO ₃ - Permanent as CaCO ₃	400 400	
7.	Sulphates	400	
8.	Chlorides	400	
9.	Iron	300	

(3)

	EFFLUENT ANALYSIS		
1.	Dissolved Oxygen	1000	IS-3025 (Part 38)1989
1.	COD	1000	IS-3025 (Part 38)1983
2.	BOD	2000	IS-3025 (Part 44)1993
3.	Alkalinity as CaCO ₃	800	IS-3025 (Part 23)1986
4.	Chloride	500	IS-3025 (Part 32)1988
5.	Total Suspended Solid	500	IS-3025 (Part 17) 1984
6.	Total Dissolved Solids	500	IS-3025 (Part 16) 1984
	BIOASSAY METHODS		
1.	Toxicity assay of effluents		
	FINISHING MATERIAL OF ROLLS		
1.	Kraft Paper	1000	Nepa
2.	Paper core	500	Nepa
3.	Core Plug	500	Nepa
4.	Synthetic Glue	1000	Nepa
5.	Plastic Strip	300	Nepa
6.	Side Circular Disc.	300	Nepa
7.	Splicing Tape	300	Nepa

NEPA LIMITED NEPANAGAR

(A Govt. of India Undertaking)



IN-HOUSE R&D CENTRE

Physical & Optical Properties of Pulp & Paper, Chemical and
Water Analysis

INTRODUCTION

Nepa Limited is a pioneer newsprint Industry under administrative control of Ministry of Heavy Industries and Public Enterprises, Department of Heavy industry, Govt. of India. Mill was commissioned in April 1956. Total installed capacity is 88,000 TPA. Initially its production was based mainly on stone ground- wood Mechanical pulp and Chemical pulp.

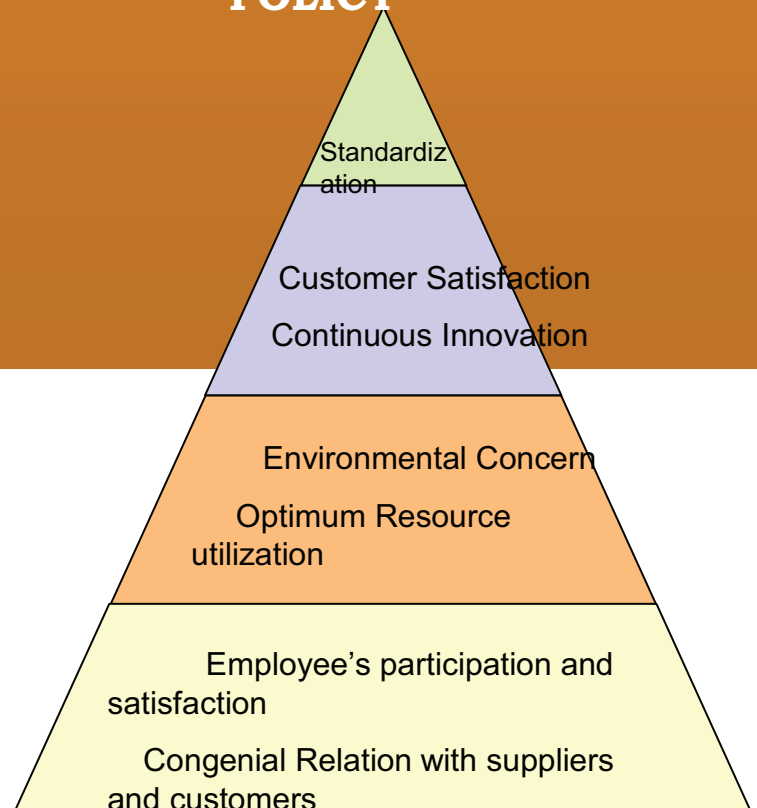
From 1996 onwards, company has adopted eco-friendly technology and has started manufacturing newsprint from secondary fibre.



Our Mission

To Stimulate,continue & accelerate effort to maximize contribution for sustainable future development growth and prosperity with innovation

BUSINESS POLICY



IN - HOUSE R & D CENTRE

R&D centre is registered with Department of Science and Industrial Research, Ministry of Science and Technology, Govt. of India. Nepa R&D centre is well equipped with modern technology facility.

HUMAN RESOURCE

R & D centre has 10 Scientists and 12 technical staff to carry out various projects, inspection and testing of chemicals, raw materials and technological innovation. Staff of R&D centre get hand on experience and familiarity with pulp and paper mill processes in Nepa limited.



TELEGRAM SCINDRECH
दूरभाष/TE. 26962919, 2656/2/3
26565694, 26562133
26565587, 26562144
फैक्स/FAX 26562134, 26562122 (EPBAX);
25860629, 26529745
26516079
Website: <http://www.dsir.gov.in>



भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
वैज्ञानिक और औद्योगिक अनुसंधान विभाग
टेक्नोलॉजी भवन
नया महरौली मार्ग, नई दिल्ली - 110016
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
Department of Scientific and Industrial Research
Technology Bhavan
New Mehrauli Road, New Delhi-110016

BY REGISTERED POST

F. No. TU/IV-RD/1076/2010

Dated: April, 2011

To

Nepa Limited
Nepa Nagar-450221
Dist. Burhanpur
Madhya Pradesh

Subject: RENEWAL OF RECOGNITION OF IN-HOUSE R&D UNIT (S)

Dear Sirs,

This has reference to your application for renewal of recognition of your In-House R&D unit(s) beyond 31-03-2010 by the Department of Scientific and Industrial Research.

2. This is to inform you that it has been decided to accord renewal of recognition to the In-House R&D unit(s) of your firm at Nepa Nagar, Dist. Burhanpur (MP) upto 31.03.2014. Terms and conditions pertaining to this recognition are given overleaf.

3. Kindly acknowledge the receipt of this letter

Yours faithfully

(R.R. ABHYANKAR)
Scientist - 'G'

FACILITIES, SPECIALIZED EQUIPMENT

INSTRUMENTS AVAILABLE

Analysis of Raw material, Pulping, Bleach

and Evaluation of Pulp

Series Glycol digester

Sprout Waldron Lab Disc Refiner

PFI Mill



Valley Beater



PAPER TESTING

Basic & Strength Properties

Basis weight, thickness, caliper,
density, bulk, Moisture, Ash content

Tensile strength

Bursting strength

Tearing Strength

Folding Endurance



Structural and Surface properties

Bendtsen Smoothness & Porosity
Tester

NORAM Formation Tester (N.U.I)

PULMAC Trouble Shooter

OPTICAL PROPERTIES

TECHNIBRITE Brightness / Opacity
Tester

Scattering coefficient



NON-FIBROUS MATERIAL TESTING

Alum, Poly Aluminum Chloride
Soda Ash , Soap Stone powder
Lime Stone, Lime,
Rosin, Defoamer, Slimicide,
Hydrogen Peroxide,
Sulphuric Acid, Hydro chloric Acid,
Sodium Silicate, Caustic, Sodium
chloride,
Salt Cake, Synthetic Glue



Air Monitoring

Stack Monitoring

SPM,SO₂

Ambient Air monitoring

SPM,SO₂,NO_x

WATER AND EFFLUENT ANALYSIS

pH, Turbidity

Suspended Solid , Total Dissolved
Solid, Conductivity, Hardness,

Calcium, Magnesium,Iron,
sulphate,Chloride,Residual Chlorine,

BOD, COD, Bioassay test



Packing Material Testing

Paper Core

Plastic Core plug

Plastic Strip

Kraft paper

Circular Disc

Splicing tape etc.



TECHNICAL INFORMATION LIBRARY

R&D centre has an excellent Library with about 1400 books on different subjects including Pulp & Paper technology, Engineering, Environmental services, Industrial Chemistry, Forestry, Basic Science and Management. Library also has the relevant standards like TAPPI, APPITA, ISO, BIS. It also subscribes to all the well-known technical journals (Indian & International) in the field of Pulp&Paper. This is a precious resource centre which is valuable to conduct research and development of paper industry and technology.



NEPA LIMITED NEPANAGAR

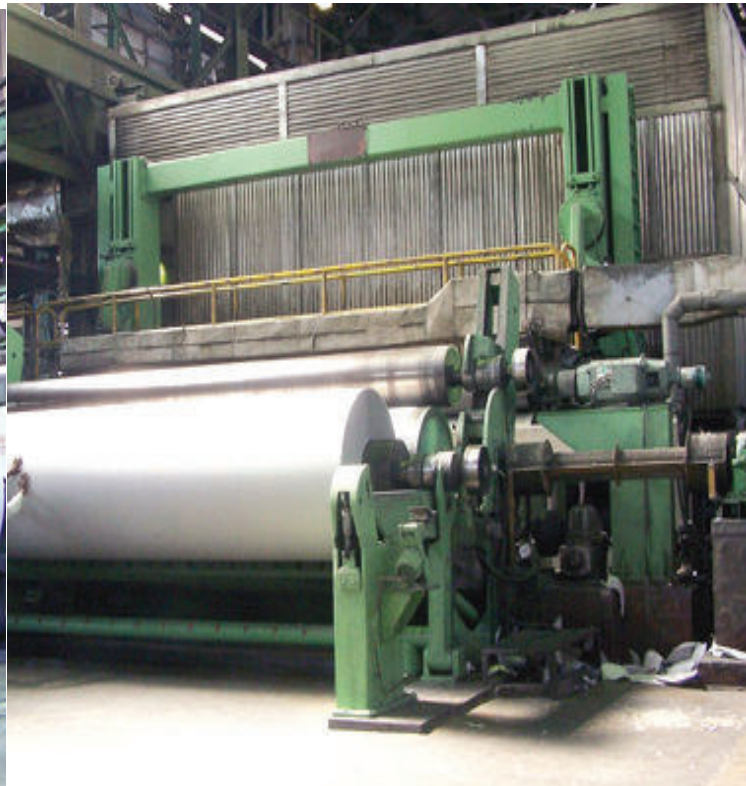
-----HEAD OFFICE-----

NEPANAGER – 450 221 DIST:- BURHANPUR (M.P.)

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