

## **REVISED RATES OF VARIOUS ACTIVITIES OF KNHPI** **WEF APR,2016**

S.N.	PARTICULARS	PREVIOUS RATE	RATES WEF 1 <sup>st</sup> April 2016
1	ANNUAL MEMBERSHIP	1500	1500
2	HATH KAGAZ SUBSCRIPTION	500	500
3	<b>TRAINING</b>		
	Three weeks OTP	8000	8000
	Six weeks SOC	6000	6000
	One week CC	10,000	10,000
	One week PDD	5000	5000
	One month training in Biotechnology/Physical & Chemical/Environment Laboratory	5000	7500
	Up to three training in Biotechnology/Physical & Chemical/Environment Laboratory	8000	10,000
	Six months dissertation training in Biotechnology/Physical & Chemical/Environment Laboratory	15000	20000
	FOREIGN CANDIDATE	US \$ 500	US \$ 500
4	PROJECT CONSULTANCY	10%	10%
5	DPR PREPARATION	10000	10000
6	<b>PAPERS</b>		
	Tissue paper made from extracted banana fibre (6-11 gsm)	25	15per sheet
	Tissue paper made from banana fibre above 25 gsm	-	25 per sheet
	900-1000 gsm from banana fibre	200 per sheet	200 per sheet
	100 gsm paper made from jute, sunn hemp, Bhimal etc	18 per sheet	15 per sheet
	100 gsm paper made from Daphne, Paper Mulberry	25	25 per sheet
7	SALE OF TRAINING MATERIAL	1000	1000
8	SALE OF MONOGRAPH	1000	1000
9	GUEST HOUSE FOR KVIC/GOVT OFFICIALS	500	500
	GUEST HOUSE OTHERS	600	600
	Flats	2500	2500
	GUEST HOUSE FOR FOREIGNERS	US \$ 20.00	US \$ 20.00
10	HOSTEL	50	50
11	MEALS (LUNCH/DINNER)	90	150
	BREAKFAST	60	80
	TEA/COFFEE	10	15/25
	MILK	30	40

12	<b>TESTING CHARGES</b>		
	<b>ANALYSIS OF RAW MATERIAL</b>		
	Hot water solubility	400	400
	N/ 10 NaOH solubility	400	400
	Alcohol – Benzene solubility	400	400
	Holocellulose (chloride)	1300	1300
	Total lignin	1300	1300
	Pentosan	1300	1300
	Ash	400	400
	Silica	1300	1300
	<b>PULPING &amp; BLEACHING</b>		
	Raw material evaluation – pulping, bleaching & pulp evaluation (optimization of cooking & strength properties)	36,000	36,000
	- Pulping under one set of conditions	6000	6000
	- Bleaching under one set of conditions	6000	6000
	- Pulping chemical optimization	9000	9000
	- Bleaching chemical optimization	9000	9000
	- Pulp evaluation	6000	6000
	<b>ANALYSIS OF PULP</b>		
	N/10 NaOH solubility	400	400
	Alpha cellulose	1300	1300
	Klason lignin	1300	1300
	Pentosan	1300	1300
	Ash	400	400
	Silica	1300	1300
	Copper Number	400	400
	CED Viscosity	400	400
	Kappa NO.	650	650
	Soda Loss	650	650
	<b>PULP EVALUATION</b>		
	Beating & Sheet formation (Valley Beater )	10000	10000
	Bauer McNett Fibre Classification	3000	3000
	Evaluation of sizing chemicals	3000	3000
	Filler & Fines retention	5400	5400
	Freeness (CSF )	400	400
	Shieve analysis of high yield pulp	3000	3000
	<b>ENZYMATIC STUDIES</b>	20000	20,000
	<b>PAPER TESTING</b>		
	<b>Physical Properties</b>		
	Abrasion resistance (Taber )	1000	1000
	Air resistance (Gurley )	400	400
	Ash content	400	400
	Bulk	300	300

	Bursting strength	300	300
	Cobb sizing test	400	400
	Grammage	300	300
	Folding Endurance	400	400
	In plane tear test	400	400
	Klemm absorbeny	300	300
	Moisture	300	300
	Paper dimensional stability	2700	2700
	pH(Hot extract )	300	300
	Porosity (Bendsten )	400	400
	Stiffness	400	400
	Tearing strength	400	400
	Tensile strength	400	400
	Thickness	400	400
	Water absorption (Blotter )	400	400
	Ageing Test	2000	2000
	Wet strength testing	400	400
	Spectrum 190-400 nm	1300	1300
	Spectrum 400-850 nm	1300	1300
	<b>OPTICAL PROPERTIES</b>		
	Brightness	400	400
	Opacity	400	400
	Transparency	400	400
	Whiteness	400	400
	Yellowness	400	400
	CIE Color coordinates	500	500
	<b>CHEMICAL ANALYSIS OF PAPER</b>		
	Rosin	1300	1300
	Wax	800	800
	Starch	400	400
	Casein	800	800
	Water soluble sulphates	800	800
	Titanium pigments	800	800
	Amount of coating	800	800
	Water soluble chlorides	800	800
	pH (Hot water extract )	300	300
	Ash content	400	400
	<b>MICROSCOPIC ANALYSIS</b>		
	Mechanical pulp content in paper	600	600
	Fibre analysis (quantitative )	3600	3600
	Fibre dimensions (Length diameter )	750	750
	<b>NON-FIBROUS MATERIAL TESTING</b>		
	Alum	1300	1300
	Soda ash	400	400

	Rosin	1300	1300
	Starch	400	400
	Titanium	600	600
	Talcum powder	600	600
	Available lime index	400	400
	<b>BLACK LIQUOR ANALYSIS</b>		
	pH at 30 <sup>0</sup> C	300	300
	Total solids	450	450
	Specific gravity at 30 <sup>0</sup> C	400	400
	Suspended solids	600	600
	Conductivity	450	450
	Residual active alkali	600	600
	Total alkali	800	800
	Organically bound sodium	600	600
	Silica content (SiO <sub>2</sub> )	900	900
	Sulphated ash	1300	1300
	Sulphated (SO <sub>4</sub> )	600	600
	Chlorides	600	600
	Sulphur	600	600
	Lignin content UV	800	800
	Reducing sugars	1300	1300
	<b>WATER ANALYSIS</b>		
	pH	300	300
	Dissolved solids	500	500
	color	600	600
	Silica as SiO <sub>2</sub>	900	900
	Acidity	300	300
	Oil & Grease	500	500
	<b>ALKALINITY</b>		
	Phenolphthalein alkalinity as CaCO <sub>3</sub>	400	400
	Methyl orange alkalinity as CaCO <sub>3</sub>	400	400
	<b>TOTAL HARDNESS</b>		
	Temporary as CaCO <sub>3</sub>	500	500
	Permanent as CaCO <sub>3</sub>	500	500
	Sulphates	500	500
	Chlorides	500	500
	Iron	400	400
	<b>EFFLUENT ANALYSIS</b>		
	COD	1200	1200
	BOD	2400	2400
	Alkalinity as CaCO <sub>3</sub>	1000	1000
	Color intensity Co-Pt	600	600

13	<b>CONSULTANCY CHARGES FOR PILOT PLANT TRIALS</b> For a minimum of 500 kgs of R.M./Pulp, trials including processing at Digestor, potcher, beater, CMV/Autovat hydrapulper, press, Tawasuki, calender.	1,00,000	1,00,000
	<b>CATALOGUE OF PAPER PRODUCTS DEVELOPED BY KNHPI</b>		
14	Handmade paper Office stationery		
14.1	Handmade paper A4 size photocopier paper/ ream	-	350
14.2	Handmade paper Noting sheet	-	450
14.3	Handmade paper printed single color forms		
	A3 size	-	4
	A4 size	-	3
	5" X7" size	-	2
14.4	Handmade paper files , single color printed		
	a. Single eyelet	-	5
	b. Double eyelet	-	5.5
	c. Cobra clip	-	10
	d. Voucher file, special	-	55
	e. Voucher file, local	-	40
14.5	Handmade paper Conference folder	-	120
14.6	Handmade paper Conference pads, 50 pages, 6"X8"	-	25
14.7	Handmade paper envelopes with printing,		
	a. 4"X 9" (1000 handmade paper envelopes)	-	3300
	b. 4" X 9"(1000 mill made paper envelopes)	-	700
	c. 5" X 11"(1000 handmade paper envelopes)	-	4100
	d. 5" X 11"(1000 mill made paper envelopes)	-	1000
	e. 9" X 12"(1000 handmade paper envelopes)	-	6600
	f. 9" X 12"(1000 mill made paper envelopes)	-	2000
	g. 12" X 15" (1000 handmade paper envelopes)	-	7600
	h. 12" X 15" (1000 mill made paper envelopes)	-	4100
14.8	DAK PAD		
	a. Dak pad local	-	8
	b. Dak pad special with rexine cloth	-	25

14.9	Drawing file/Herbarium file		
	a. 9"X 11"	-	12
	b. 11"X 15"	-	20
15	Handmade paper corporate gift pack including diary, executive folder and desk product.	-	600
16	Handmade paper sheets		
	a. White color	-	175/kg
	b. Assorted colors	-	200/kg
17	Handmade Blotting paper	-	200/kg
18	Handmade Carry Bags		
	a. Full sheet	-	13
	b. Half sheet	-	9
	c. Quarter sheet	-	7
19	Value addition in handmade paper		
	a. Printing in single color	-	Rs. 2/sheet
	b. Printing in two color	-	Rs. 3/sheet
	c. Printing in more than two colors	-	Rs. 6/sheet
	d. Embossing	-	Rs. 3/sheet
	e. Foil print	-	Rs. 6/sheet
	f. Dew Drop	-	Rs. 8/sheet
	g. Flock print	-	Rs. 6/sheet