

**PROPOSED RATES FOR TESTING/CONSULTANCY ETC.
PROVIDED BY INSTITUTES UNDER
INDIAN COUNCIL OF FORESTRY RESEARCH & EDUCATION
(ICFRE) [HEADQUARTERS]**

Sl. No.	Items	Current Rates (in Rs.)
	Identifications of Wood Samples	600/-
2.	Analysis of Raw Material	
	(i) N/10 NaOH solubility	240/-
	(ii) Hot water solubility	240/-
	(iii) Holocellulose	480/-
	(iv) Total Lignin	600/-
	(v) Pentosan	600/-
	(vi) Ash	240/-
	(vii) Silica	600/-
3.	Analysis of Pulp	
	(i) N/10 NaOH solubility	240/-
	(ii) Alpha Cellulose	360/-
	(iii) Klason lignin	360/-
	(iv) Pentosan	600/-
	(v) Ash	240/-
	(vi) Silica	600/-
	(vii) Kappa NO	360/-
4.	Pulp Evaluation	
	(i) Beating & Sheet Formation & Pulp Evaluation	2400/-
	(ii) Evaluation of rosin chemicals	2400/-
	(iii) Baur Mc Nett Fiber classification	2400/-
	(iv) Filler and fine retention	2400/-
	(v) Freeness (Canadian)	480/-
5.	Paper Testing	
	(i) Air resistance (Gurley)	240/-
	(ii) Ash content	240/-
	(iii) Bursting strength	240/-
	(iv) Cobb sizing test	240/-
	(v) Grammage	240/-
	(vi) Folding Endurance	240/-
	(vii) Moisture	240/-
	(viii) PH (Hot extract)	240/-
	(ix) Porosity (Bendtsen)	240/-
	(X) Sp. Scattering coefficient	240/-
	(Xi) Learning strength	240/-
	(xii) Thickness	240/-
	(xiii) Tensile strength (Breaking Length/Tensile Index)	240/-

Sl. No.	Items	Current Rates (in Rs.)
	Optical Properties	
	(i) Brightness	240/-
	(ii) Opacity	240/-
	(iii) Yellowness	240/-
7.	Non-Fibrous Raw Material	
	(i) Alum	360/-
	(ii) Soda Ash	360/-
	(iii) Rosin	360/-
	(iv) Starch	360/-
	(v) Lime stone	360/-
	(vi) Available time index	360/-
8.	Black Lignin Analysis	
	(i) PH at 30°C	240/-
	(ii) Total solids	240/-
	(iii) Suspended solids	360/-
	(iv) Residual active alkali	480/-
	(v) Total alkali	480/-
	(vi) Silica content	840/-
	(vii) Sulfated ash and organic matter	720/-
	(viii) Sulfates	480/-
	(ix) Chlorides	480/-
	(X) Sulfur	480/-
	(Xi) Lignin content (UV method)	480/-
9.	Lime Sludge Analysis	
	(i) Loss on ignition	240/-
	(ii) Silica as SiO ₂	840/-
	(iii) Residual CaO	480/-
	(iv) Residual alkali as Na ₂ O	480/-
10.	Effluent Analysis	
	(i) COD (Chemical Oxygen Demand)	600/-
	(ii) BOD	1200/-
	(iii) Colour	350/-
11.	Pilot Plant	
	(i) Pulping on pilot plant (soda/kraft pulping)	30000/-
	(ii) Papermaking on pilot plant	48000/-
12.	Complete Evaluation or Raw Material on Laboratory	

Sl. No.	Items	Current Rates (in Rs.)
	Pulping, bleaching, beating sheet making and paper testing	Charges are calculated as follows: Cost of inputs like chemical energy plus salary of staff for actual days required to complete the work with 100% overhead surcharges.
13.	Seed oil Analysis	
	(i) Density	100/-
	(ii) Refractive index	100/-
	(iii) Acid value	300/-
	(iv) Saponification value	400/-
	(v) Iodine value	600/-
	(vi) Unsaponifiable matter (%)	400/-
	(vii) Oil percentage by solvent extraction	600/-
	(viii) For complete analysis of a sample involving extraction of oil and determination of the constants listed above.	2500/-
	(ix) Fatty acid composition by gas liquid Chromatography	1000/-
14.	Essential Oil Analysis:	Testing fee for soil on per sample basis
	(i) Isolation of the oil	1000/- per sample Pto 250 gm
	(ii) Density	100/-
	(iii) Colour	300/-
	(iv) Refractive index	100/-
	(v) Optical rotation	300/-
	(vi) Acid value	300/-
	(vii) Ester value	400/-
	(viii) Melting point	1000/-
	(ix) Estimation of any one constituent	500/-
	(x) For complete analysis of the sample for the constituents list above	3000/-
15.	Katha & Cutch Analysis	Testing fee for soil on per sample basis
	(i) Katha and Cutch estimation from khair wood (1 kg. Level)	5000/-
	(ii) Catechin estimation in Katha	1000/-
	(iii) Analysis of Katha as per I.S.I. specification	2000/-
	(iv) Estimation of Uncaria gambier (%) in Khair katha	5000/-
16.	Estimation of Oxalic Acid from bark	
17.	Examination of Tanin	
18.	Protein content determination	500/-
19.	Qualitative Amino acid analysis (PC)	3000/-
20.	Proximate analysis of different constituents	5000/-
21.	Rheology analysis of gums	1000/-
22.	Nutrient analysis (N, P, K, Ca, Mg & Na)	200/-

Sl. No.	Items	Current Rates (in Rs.)
23.	Issue of phytosanitary certificate	
	a. Seed material	50/- per kg per kg or minimum 200/- per consignment
	b. Planting material	50/- per piece/sample or 200/- per consign
24.	Testing of Wood preservatives/fire retardants (toxicity/performance):Laboratory tests against fungus	5000/-
25.	Testing treated/untreated timber synthetic material against: Decay and mould growth	1000/-
26.	Identification services decay fungi/mould	500/- per species
27.	(a) Supply of fungus culture per tube	200/
	(b) Mushroom spawn per bottle	60/
28.	Identification of fungal specimen and its matching with herbarium	100/- per specimen
29.	Physical tests viz. Moisture contents, specific gravity, weight, water absorption, swelling etc. of wood and wood products	1000/-*
30.	Moisture content in Wood as per IS 1141-1993	1000/-*
31.	Physical properties viz. Sound absorption, thermal conductivity, dielectric constants of wood and wood products.	2500/-*
32.	Mechanical tests viz. Bending, Compression, Tension, Hardness, Shear, Nail and Screw with drawl resistance etc. of wood & wood products.	1000/-*
33.	Packing Cases and Tea tests	1000/- per piece
34.	Panel door as per IS: 1003 (excluding identification of species, checking of chemical treatment, moisture content etc.)	10000/- per door
35.	Flush door as per IS:2202 and IS:2191	10000/- per door
36.	Plywood as per IS:303, IS:710, IS:4990 etc. (Moisture, glue shear strength in three conditions and tensile strength)	5000/- per sample
37.	Block board as per IS:1659	5000/- per sample
38.	Particle board (Plain, veneered & laminated), fiberboard, insulation board MDF board etc as per relevant standard (excluding thermal conductivity, dielectric constant, sound absorption etc.)	5000/- per sample
39.	Type tests on doors as per IS:4020	10000/- per door
40.	Testing of LVL door as per TADS-15 (1995) excluding identification of species [#]	20000/- per door
41.	Supplying of data on physical and mechanical properties of wood, suitability indices, safe working stresses or strength coefficient etc.	5000/- per wood species

Sl. No.	Items	Current Rates (in Rs.)
42.	Preservative treatment	25.00/- Cft + Chemical costs
43.	Chemical analysis of wood and wood preservative (other than creosote)	2500/-
44.	Chemical analysis of creosote/creosote treated wood	4000/-
45.	Determination of penetration and retention of preservative in the treated wood	Known 2500/- Unknown 5000/-
46.	Testing of wood preservatives/Fire retardants	
	(a) Toxicity/performance screening tests by Agar method	6000/-
	(b) Termite mound test	25000/-
	(c) Laboratory tests against fungus bottle block bioassays	10000/-
	(d) Accelerated field tests	25000/-
	(e) Stake tests (National) (International)	45000/- \$10000
	(f) Flammability tests	3000/-
	(g) Ignitibility tests	3000/-
	(h) Flame penetration tests	3000/-
47.	Testing of wood adhesive.	
	(a) Performance of UF, PF, Polyvinyl acetate adhesive.	6500/- sample
	(b) Purity of Phenol/formalin	2500/- sample
48.	Testing of Joints	1000/- per joint per test
	(a) Nail Joint (perpendicular and parallel)	
	(b) Bolt joint (perpendicular and parallel)	
	(c) Finger joint (Tensile, bending-edge and flat wise, compression)	
	(d) Lap joint (shear)	
49.	Testing of Truss	10000/- per truss per test
	(a) Nail jointed	
	(b) Bolt jointed	
50.	Testing of Beams	5000/- per beam per test
	(a) Solid beam	
	(b) Nail laminated	
	(c) Vertically and horizontally glue laminated	
51.	Testing of column (solid, spaced, latticed and box)	2500/- per column per test
52.	Supply of Blue Print drawing of Building/Truss each set	1200/-
53.	Steam heated kiln	
54.	Solar kiln	

55.		Building/Structure	
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Sl. No.	Items	Current Rates (in Rs.)
56.	Chemical processing of natural products (plant dye etc) lab level (max. 1 kg plant material) other than essential oil.	1000/- per sample
57.	Distillation of essential oil using field distillation unit (upto 10kg)	2000/- per sample
58.	Visual inspection of sawn wood for heartwood percentage, knots (their size) and presence of boreholes	1000/- per sample
59.	Testing the bio-efficacy of preservatives/Insecticides against bores	10,000/- per test

• Per specimen per test; # New proposals; ** Per concentration

60. KILN SEASONING CHARGES PER CUBIC METER

Sl. No.	Category & Species	Moisture Content Above 25% Thickness							
		2 cm & below	Above 2 & upto 3 cm	Above 3 & upto 5 cm	Above 5 & upto 7 cm	Above 7 & upto 9 cm	Above 9 & upto 11 cm	Above 11 & upto 14 cm	Above 14 & upto 15 cm
1.	Sal, Asna, Jamun, Silver Oak, Walnut, Kusum, Quercus dilatata (Oak), Eucalyptus etc.	530/-	743/-	1047/-	1193/-	1430/-	1913/-	2385/-	2858/-
2.	Sissoo, Teak, Haldu, Deodar, Birch, toon, Siris, Champak etc.	383/-	597/-	900/-	1047/-	1193/-	1430/-	1913/-	2358/-
3.	Mango, Kanju, Kuthan, Chir etc.	237/-	383/-	597/-	900/-	1047/-	1193/-	1430/-	1913/-
4.	Semul fir, Spruce etc.	147/-	237/-	383/-	597/-	900/-	1047/-	1193/-	1430/-

Sl. No.	Category & Species	Moisture Content Above 25% Thickness							
		2 cm & below	Above 2 & upto 3 cm	Above 3 & upto 5 cm	Above 5 & upto 7 cm	Above 7 & upto 9 cm	Above 9 & upto 11 cm	Above 11 & upto 14 cm	Above 14 & upto 15 cm
1.	Sal, Asna, Jamun, Silver Oak, Walnut, Kusum, Quercus dilatata (Oak), Eucalyptus etc.	383/-	530/-	638/-	1047/-	1193/-	1430/-	1913/-	2385/-
2.	Sissoo, Teak, Haldu, Deodar, Birch, toon, Siris, Champak etc.	305/-	450/-	597/-	900/-	1047/-	1193/-	1430/-	1943/-
3.	Mango, Kanju, Kuthan, Chir etc.	192/-	270/-	383/-	597/-	900/-	1047/-	1193/-	1430/-
4.	Semul fir, Spruce etc.	113/-	192/-	270/-	383/-	597/-	900/-	1047/-	1193/-

Sl. No.	Items	Current Rates (in Rs.)
	TESTING FEE FOR SOIL ON PER SAMPLE BASIS	
61.	pH	100/-
62.	E.C.	100/-
63.	Texture	300/-
64.	Structure	500/-
65.	Organic matter	250/-
66.	Available N,P,K, Ca, Mg, Na	1,000/- (200 per element)
67.	Total Analysis (p ^H , E.C. Tex., o.m.,av. N,P,K,Na)	1,300/-
	TESTING FEE FOR WATER ON PER SAMPLE BASIS	
68.	p ^H	100/-
69.	E.C.	100/-
70.	Turbidity	150/-
71.	Total dissolved solids	150/-
72.	N, P, K, Ca, Mg, Na	1000/- (200 per element)
73.	Total Analysis (pH, E.C., N, P, K, Ca, Mg, Na)	1,300/-
	BOD	300/-
	COD	300/-
74.	Dissolved oxygen	250/-
75.	Insect Identification by comparison with NIRC	200/-
76.	Insect Identification by studying taxonomic characters: a) Macro specimens.... b) Micro specimens....	500/-1000/-
77.	Testing of treated/untreated timber against borers/termites	5000/-
78.	Testing of synthetic material against borers/termites	10,000/-
79.	Field/mound testing of wood and wood products against termites	15,000/-
80.	Laboratory testing of insecticide for effectiveness against termites and insect defoliators	10,000/-
81.	Field testing of insecticide against termites/other insect pests in nursery/plantation	50,000/-
82.	Exhibits for sale a) Insect specimens b) Timber showing Insect damage	200/- 500/-

- Note:-**
- i. Students concession 25% in the categories listed at Sl. No. 1, 2 and 7.**
 - ii. Insect identification services will continue to be free to the ICFRE scientist involved in plan projects.**
 - iii. Indentation charges will also be applicable to ICFRE projects having external funding.**

Sl. No.	Items	Current Rates (in Rs.)
83.	Resin tapping technology	
84.	Charcoal burning (demonstration)	
85.	Seeds of Medicinal Plants	
86.	Seedlings of medicinal plants and other NWFP species	
87.	Consultancy on specific technology (Resin tapping cultivation practices of NWFP species)	
88.	Specific information by post	
89.	Demonstration/visit nursery NWFP	
90.	Chlorophyll total and chlorophyll a + b	200/-
91.	Carotenes	200/-
92.	Total protein	200/-
93.	Total Carbohydrate	250/-
94.	Reducing sugars	200/-
95.	Non reducing sugars	200/-
96.	Total starch content	200/-
97.	Ascorbic acid	250/-
98.	Total free amino acids	250/-
99.	Proline	250/-
100.	Total polyphenols	200/-
101.	Nitrate reductase	300/-
102.	Catalase and Peroxides	350/-
103.	Superoxide dismutase	350/-
104.	Organic carbon	150/-
105.	Electrical conductivity of water sample	150/-
106.	Plant carbon	200/-
107.	Wood Identification	5000/-
108.	Wood identification requiring further attestation at later stage/sample preservation	10000/-
109.	Sale of Wood samples	1000/-
110.	Sale of seeds	Sale price of tree seeds

Sl. No.	Items	Current Rates (in Rs.)
1.	Acacia benthami	300/-
2.	Acacia catechu	300/-
3.	Acacia lenticularis	300/-
4.	Acacia modesta	300/-
5.	Acacia nilotica	300/-
6.	Acrocarpus fraxinifolius	600/-
7.	Adenanthera microsperma	300/-
8.	Adina cordifolia	300/-
9.	Aegle marmelos	300/-
10.	Aesculus assamica	300/-
11.	Aesculus indica	300/-
12.	Agathis robusta	300/-
13.	Ailanthus excelsa	300/-
14.	Albizi chinensis	300/-
15.	Albizia lebbek	200/-
16.	Albizia lucida	200/-
17.	Albizia procera	300/-
18.	Albizia odoratissima	300/-
19.	Anthocephalus chinensis	300/-
20.	Aleurites fordii	250/-
21.	Aleurites molucana	250/-
22.	Anogeissus latifolia	300/-
23.	Anogeissus pendula	300/-
24.	Araucaria cunninghamii	600/-
25.	Araucaria bidwillii	600/-
26.	Artocarpus chaplasha	200/-
27.	Artocarpus lakoocha	200/-
28.	Azedirachta indica	300/-
29.	Bambusa bambos	500/-
30.	Bauhinia purpurea	300/-
31.	Bauhinia galpinii	300/-
32.	Bauhinia malabarica	300/-
33.	Bauhinia racemosa	300/-
34.	Bauhinia retusa	300/-
35.	Bauhinia variegata	300/-
36.	Bischofia javanica	300/-
37.	Bombax ceiba	500/-
38.	Bridelia retusa	300/-
39.	Broussonetia papyrifera	300/-
40.	Butea monosperma	300/-
41.	Callistemon viminalis	300/-
42.	Cassia fistula	300/-
43.	Cassia nodosa	300/-
44.	Cassia javanica	300/-
45.	Cassia siamea	300/-
46.	Cassia sufferitica	300/-
47.	Castenosperum australe	250/-

Sl. No.	Items	Current Rates (in Rs.)
48.	Casuarina equisetifolia	500/-
49.	Chuckrasia valutina	300/-
50.	Cinnamomum camphora	300/-
51.	Cupressus cashmeriana	500/-
52.	Cupressus lusitanica	500/-
53.	Cupressus torulosa	500/-
54.	Chorisia speciosa	2000/-
55.	Dalbergia sissoo	300/-
56.	Dalbergia latifolia	400/-
57.	Delonix regia	300/-
58.	Dendrocalamus strictus	500/-
59.	Derris robusta	250/-
60.	Dillenia indica	300/-
61.	Drypetes roxburghii (Putranjiva roxburghaii)	200/-
62.	Diospyros prigrina	300/-
63.	Duabanga grandiflora	300/-
64.	Elaeocarpus sphericus	600/-
65.	Emblica officinalis	1500/-
66.	Enterolobium timbouva	300/-
67.	Eucalyptus alba	1200/-
68.	Eucalyptus camaldulensis	1200/-
69.	Eucalyptus FRI – 4	1500/-
70.	Eucalyptus FRI – 5	1500/-
71.	Eucalyptus citriodora	1500/-
72.	Eucalyptus grandis	1200/-
73.	Eucalyptus hybrid	1200/-
74.	Eucalyptus staigeriana	1200/-
75.	Eucalyptus tereticornis	1200/-
76.	Evoidia roxburghii	300/-
77.	Ficus benghalensis	200/-
78.	Ficus benzamina	200/-
79.	Ficus religiosa	200/-
80.	Ficus rumphii	200/-
81.	Flindersia australisi	200/-
82.	Gleditsia assamica	300/-
83.	Gleditsia macarantha	300/-
84.	Grevillea robusta	1200/-
85.	Gmelina arborea	300/-
86.	Grewia optiva	200/-
87.	Holoptelia integrifolia	300/-
88.	Jacaranda mimusaefolia	400/-
89.	Jatropha curcas	250/-
90.	Kigelia pinnata	1000/-
91.	Kydia calycina	300/-
92.	Lagerstroemia parviflora	300/-

Sl. No.	Items	Current Rates (in Rs.)
93.	Lagerstroemia speciosa	300/-
94.	Leucaena leucocephala	300/-
95.	Lagerstroemia lanceolata	300/-
96.	Liquidamber formosana	300/-
97.	Mallotus philippensis	300/-
98.	Madhuca indica	300/-
99.	Melia azadirach	200/-
100.	Melia compasita	200/-
101.	Melia birmanica	200/-
102.	Mesua ferrea	300/-
103.	Mimusops elengi	400/-
104.	Maringa oleifera	300/-
105.	Nycatanthes arbour-tristris	300/-
106.	Oroxylum indicum	300/-
107.	Peltophorum africanum	250/-
108.	Peltophorum dubium	250/-
109.	Pinus petula	500/-
110.	Pinus roxburghii	500/-
111.	Platanus orientalis	300/-
112.	Pongamia pinnata	300/-
113.	Pterocarpus marsupium	300/-
114.	Pterospermum acerifolium	300/-
115.	Quercus incana	300/-
116.	Quercus serrata	300/-
117.	Santalum album	500/-
118.	Sapinus muckrossii	250/-
119.	Schima wallichii	300/-
120.	Sterculia alata	300/-
121.	Shorea assamica	200/-
122.	Swietenia mahagoni	300/-
123.	Tamarindus indicus	300/-
124.	Tecoma stanst	300/-
125.	Taxodium mucronatum	500/-
126.	Tecomella unduata	300/-
127.	Tectona grandis	300/-
128.	Teerminalia arjuna	300/-
129.	Terminalia bellerica	300/-
130.	Terminalia chebula	300/-
131.	Terminalia tomentosa	250/-
132.	Terminalia myriocapa	250/-
133.	Terminalia paniculata	250/-
134.	Thuja compecta	1000/-
135.	Thuja orientalis	1000/-
136.	Trewia nudiflora	200/-
137.	Xylia xylocarpa	250/-
138.	Ziziphus jujuba	200/-
139.	Calligonum polygonoides	300/-

Sl. No.	Items	Current Rates (in Rs.)
140.	Hardwickia binata	250/-
141.	Qugeinia oojeinensis	250/-
142.	Prosopis cineraria	300/-
143.	Prosopis juliflora	300/-
144.	Pithocelobium dulce	300/-
145.	Polyalthia pendula	300/-
146.	Steriospernum chelonoides	300/-
147.	Sesbania sesban	200/-
148.	Sesbania grandiflora	200/-
149.	Saraca asoca	200/-

111. SALE OF NWFP SEEDS, SEEDLINGS, COMPOST ETC.

Sl. No.	Items	Current Rates (in Rs.)
1.	Seeds of medicinal plants (depending on species)	10-50/- per ten grams
2.	Seedlings	
	(i) Naked plant/Root shoot/Bamboo rhizome	2/- per plant
	(ii) Poly-potted plants	
	(a) One year old	5/- per plant
	(b) Two year old	9/- per plant
	(iii) Tissue cultural plant	20/- per plant
	(iv) Ornamental plants	10-25/- per plant (species wise)
	(v) Medicinal grass slips	0.50/- per slips
3.	Seedlings of medicinal plants species	5-10/- per seedlings
4.	Compost	7/- per cu.m.
5.	Vermi-compost	15/- per kg.
6.	Sale of VAM culture	15/- per kg.
7.	Earthworms (for vermin-compost)	1000/- for 2000 juveniles
8.	Trichogramma species cards for biological control of Lepidopterous pests	50/- per card

Sl. No.	Items	Current Rates (in Rs.)
112.	Fingerprinting of clones raised through Micropropagation methods	5000/- per sample
113.	Microphotography of Biological specimens	500/- per film roll
114.	Quality analysis of mycorrhizal and rhizobium biofertilizers inoculum	1000/- per sample

Sl. No.	Items	Current Rates (in Rs.)
115.	Cryostate microtomy of biological specimens	1000/- per sample
116.	Chemical analysis through TLC-UV techniques	1000/- per sample
117.	Design of Seed Orchard, Genetic trials (Progeny trial, Clonal Seed Orchard, Seedling Seed Orchard, Provenance trial and Clonal trial)	1000/- per trial
118.	Techniques for controlled pollination and hybrid production (Tamarind, Eucalypts, Casuarina and Teak)	5000/- per species

RATES FOR LABORATORY TESTS

Sl. No.	Items	Current Rates (in Rs.)
119.	Spectrophotometric analysis	
	(i) Determination of phenols (if standards available)	400/- per sample
	(ii) Determination of tannins (if standards available)	400/- per sample
	(iii) Determination of carbohydrates (if standards available)	400/- per sample
	(iv) Determination of starch	400/- per sample
	(v) Determination of chlorogenic acid (if standards available)	400/- per sample
	(vi) Determination of Protein (if standards available)	400/- per sample
	(vii) Determination of free amino acid	400/- per sample
120.	HPLC analysis	
	(i) Determination of phenolic acid (if standards and other chemicals are available)	2500/- per sample
	(ii) Determination of auxin (if standards and other chemical available)	2500/- per sample
	(iii) Chemo profiling of medicinal plants	1000/- for the first sample & Rs. 250/- per subsequent sample of the same species
121.	Scanning electron Microscopic studies	500/- per sample
122.	Seed testing (purity, germination, viability, disease, insect damage)	500/- per kg.

123. CONSULTANCY CHARGES.

Sl. No.		Items	Current Rates (in Rs.)
1.		Consultancy on specific technology (resin, tapping, cultivation practices of NEFP species)	1000/- per consultancy
2.		Specific information by post	500/-
3.		Consultancies	
(A)		Consultancy for routine matters at headquarter	
	(i)	Scientist	1000/- per day
	(ii)	Supporting staff	300/- per day
(B)		Consultancy at outside station by inviting Scientist/Staff	
	(i)	Scientist	2000/- per day
	(ii)	Supporting staff	500/- per day