

# INDIAN INSTITUTE OF NATURAL RESINS & GUMS, RANCHI

## COMMERCIALIZABLE TECHNOLOGIES

### Integrated Small Scale Lac Processing Unit



The Institute has developed an Integrated Small Scale Lac Processing Unit (capacity – 100 kg/day) consisted of five major units *i.e.* sticklac handling unit, size reduction unit, grading unit, soaking unit and washing unit with tilting mechanism to reduce manpower requirement, time and drudgery of the person involved in primary processing of lac (making of semi-refined product seedlac from sticklac).

Small scale lac processing unit developed at ICAR – Indian Institute of Natural Resins and Gums, Ranchi is working well, however need was felt to develop integrated small scale lac processing to reduce the man power requirement considering labour availability problem and reduce drudgery of the person involved in primary processing of lac. The developed Integrated Small Scale Lac Processing unit is driven by three phase electric motors. Quality parameters of seedlac manufactured from sticklac through the developed unit were found within the standard limit as per standard IS: 6921 – 1973. By establishing developed integrated unit, net profit of about ₹ 35,000/- per month can be earned and 300 person-days/year employments can be generated. For establishing the developed integrated unit, about 0.2 hectare of land is required including building.

Capacity: 100 kg sticklac/day (single shift)

Building: ₹ 10 Lakhs (approx.)

Machinery & Equipments: ₹ 04 Lakhs (excluding taxes)

Electricity requirement: 12 KWH/day

Water requirement: 1000 liters/day

Manpower requirement: 1-2

Technology Fee: 01 Lakh (three years from the date of signing MoU)

Monthly income: ₹ 35,000 (approx.)

Status of technology: Technology is ready for commercialization

**\* For detail information and technology transfer/licensing for commercial production and sale please contact:**

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