



**G H PATEL COLLEGE OF
ENGINEERING & TECHNOLOGY**

9th March 2019

INVITATION FOR QUOTATION

To whomsoever it may concern

Sub: Invitation for Quotation for the supply and installation of equipments for a pilot plant of Sodium lignosulfonate from wood chip black liquor.

Title of the Research Project: A Novel eco-friendly hybrid process for enrichment of sodium lignosulphonate from digester black liquor of *Prosopis juliflora* hard wood

Dear Sir/Madam

Principal investigator of a DST sponsored research project and Head, Chemical Engineering Department, G H Patel College of Engineering & Technology, Vallabh Vidyanagar, Dist: Anand, Gujarat, invites quotations in sealed envelopes from reputed manufacturers or their authorized representatives, for the procurement of following item(s):

Sr. No	Description of the Goods	Specifications	Quantity/Numbers required	Delivery period
1	Wood Chipper	Pilot plant capacity of 30 kg per/hr Batch, Wood Feeding Size 1.5” – 2.5” Chip Size 3 – 15mm; Electric Motor 5 HP / 415 VAC	01	Within 3 months after placing order
2	Chip washing system	Capacity 500 litre; Material of Construction Mild Steel 6 mm; Diameter 0.9 m; Height 2.0 m; Agitator / Lower Jacketed with steam input, with Mild Steel Stand	01	Within 3 months after placing order
3	Vertical tumbling digester	For 30-40 kg chips, Capacity 400 litre; MOC:	01	Within 3 months after



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		SS or MS;		placing order
4	Pulp disintegrator cum centrifugal washer	Capacity 400 litre Material of Construction SS 304, 3 mm thick with MS Stand for Black Liquor; Tank Capacity 100 litre Diameter 0.6×0.6 m, Height: 3 m; Tank (2) Material of Construction SS304, 3 mm thick with MS Stand for Dry Pulp; Tank Capacity 100 litre; Diameter 0.6 × 0.6 m, Height 0.3 m	01	Within 3 months after placing order
5	Ultrafiltration Unit	Suitable module system for ultrafiltration of Black liquor (BL) from paper mill. (BL Specification: pH 10-11, TDS: 6-10% w/w (6200 gpL), TSS: 100 – 200 ppm., Silica : 100 ppm, Temp: 42-60°C; Membrane MWCO: 2000, 5000, 10,000 & 20,000 kD. (Automated system with all accessories like feed tank, pump, and skid mounted etc.)	01	Within 3 months after placing order
6	Single effect falling film evaporator	M.O.C. - S.S.- 316 <ul style="list-style-type: none"> • Main Evaporator cylinder - capacity 45 litre • Pre-Heating chamber - capacity 5 litre • Balancing Tank - capacity 35 litre 	01	Within 3 months after placing order



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		<ul style="list-style-type: none">• Condenser - capacity 35 litre• Vacuum separator - 15 mm.Hg• Outlet port with valve• Inlet port for steam with valve .		
7	Spray drier	Capacity: 100 litre; MOC: SS 304, 3 mm Jacketed,; diameter: 0.4 m, height: 0.9 m with MS stand.	01	Within 3 months after placing order

General terms and conditions:

1. Quotations must be submitted within the prescribed time. The institute shall not be liable for postal delays. The incomplete quotations and the quotations received after the due date of submission will not be considered.
2. The rates quoted should remain firm for **120 days** from the last date of submission of the tender.
3. Part shipment will NOT be allowed.
4. The equipments shall be new, calibrated and supplied along with the valid calibration certificate
5. The principal manufacturer only should submit the quotation. However, if quotations are submitted by Authorized dealers/distributors, it can be acceptable only in case they attach a latest and valid authorization letter of their principals indicating that they are authorized to quote on behalf of their principals and are fully equipped to render us after sale service during warranty and thereafter.
6. The principal of the bidder/tenderer should have a 24 x 7 technical assistance center in India and the bidder must have service centers of their own in Gujarat with engineers qualified to handle the repair & maintenance work.
7. **Inspection & Testing:** Goods will be inspected by the Purchaser at his end. Goods rejected on inspection will be replaced by the supplier free of cost and all charges for collection and delivery of the same to the Purchaser (Port of discharge) will be to suppliers account.
8. **Warranty:** The equipment supplied should be under a warranty of minimum one year, preferably three years, **from the date of satisfactory installation.** The supplier is required to eliminate any faults occurring during this period without delay by improvement or replacement free of cost.



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9. Quotations may also state the cost of Annual Maintenance Contract for 3 years, if applicable, (in steps of one year) after warranty (**Optional**).
10. Service support in the form of maximum down time expected, penalty clauses, duration of support etc., should be provided.
11. **Installation, Testing and Commissioning:** After successful inspection and testing by the Purchaser, the equipment (along with its associated systems, devices and equipment) shall be installed, tested and commissioned at location specified by Purchaser.
 - a) Installation, Commissioning and satisfactory Demonstration of the whole System and Training should be free of cost.
 - b) The Installation, Commissioning and Demonstration of the system should be completed within two weeks from the date of arrival of the items at the premises of the Institute/ Department.
 - c) The entire responsibility of installation, integration and operational performance of the equipments/items will be of the Bidder/Tenderer.
12. At the time of installation and commissioning of the configuration, if it is found that some additional hardware accessories and/or equipment items with licenses are required to complete the configuration to meet the operational performance requirement of the equipments /items which are not included in your original list of deliverables then you are required to supply such items to ensure the completeness of the equipment/machine at No Extra Cost To the Institute.
13. Since, the configuration offered by you for Equipments is based upon the performance/throughput/features parameters of the project (as laid down by the Institute) will give 100% of total payment only on successful installation, acceptance and demonstration of operational aspects achieved at Institute/Department site. Compliance to these terms should be submitted along with technical proposal itself.
19. Principal Investigator reserves the rights to alter/modify or reject any order at any stage without assigning any reason thereof and is not bound to accept the lowest tender. Canvassing in any form, direct or indirect, on part of tenderer will render the tender liable for exclusion from consideration.
- 20 The Bidder/Tenderer should provide the following information:
 - i. the information on the similar Equipments supplied and installed in last 3 years. Bidder/Tenderer must submit satisfactory documentary proof from end-user.
 - ii. List of Organizations/Customers dealt by them with respect to above point no. (i).
 - iii. PAN number, as per government norms/ Bank account details
 - iv. Copy of Registration of Firm with CST/GST Nos.
21. Any dispute is subject to Anand, District Court Jurisdiction only.



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All interested eligible tenderers/bidders are invited to submit their best competitive quotations/bids as per the criteria given here above. Kindly submit your quotations consisting both the technical details along with commercial terms and conditions, and Price indicating item-wise price for the items mentioned in the technical bid.

The sealed quotations must be submitted to the following address, on or before **25th March, 2019** up to **17:00 hrs.**

Address for correspondence:

Head/Principal Investigator
DST-SSTP Project on Pilot Plant for sodium lignosulphonate
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