



DHAANYAGANGA KRISHI VIGYAN KENDRA

(KVK MURSHIDABAD ADDITIONAL)

Ramakrishna Mission Vivekananda Educational & Research Institute, Belur Math, Howrah

(Deemed-to-be-University as declared by the Government of India under Section 3 of UGC Act, 1956)

RAMAKRISHNA MISSION ASHRAMA, SARGACHHI

MURSHIDABAD, W.B.-742408

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Notice inviting quotation

Sealed quotation are invited from reputed concerns for supply installation commissioning and training of a plasma based bio-char and activated charcoal production unit under Integrated Jute Processing Centre (IJPC) at Dhaanyaganga Krishi Vigyan Kendra, RKMVERI, RKMA, Sargachhi, Murshidabad, West Bengal, 742408 with following technical specification-

A. PLASMA REACTOR UNIT

- Plasma reactor 10 Kg/ Hour with dual plasma Torch assembly (2+1) ports
- Plasma Power supply DC output, 415 V AC input
- Plasma transferred Torch 3-12 KW, with electrode positioning auto system
- PLC based electrode Gap positioning system actuation: stepper motor control Movement: Forward and reverse control Feedback: electrode current
- Structural to support the reactor with maintenance platforms
- Motorized screw type Charcoal retraction system. Control: PLC based Speed: start stop unidirectional.

B. RAW MATERIAL HANDLING SYSTEM

- Shredder 50 Kg/hr, twin shaft
- Rotary Air lock Valve, electrically actuated Rotation speed: Variable
- Screw feeder: for injecting feed into the reactor. Feed in: from RAL Speed: fixed Feed rate 10 Kg/hr
- Feed bunker: to store shredded feed stock Capacity: 20 Kg Sealing: water sealed top cover Feeding : Manual

C. GAS HANDLING SYSTEM

- Dry Scrubber: cylindrical, Vertical Space velocity: Less than 1.0 m/sec Bottom seal: water
- Wet Scrubber with water circulation pump Water flow: from top to bottom Gas flow from bottom to top Water injection: through sprinkler Water pressure head: 0.5bar or better Water storage: bottom 50-liter water tank Water Circulation pump: centrifugal, 10 liter per minute
- Condenser with Water Chiller and water circulation pump Oil extraction: from bottom with gear pump of capacity 2 liter/min
- booster fan: for evacuation of gas Flow rate: 0-20m³/hr. Speed: variable, PLC controlled Type: centrifugal

D. ELECTRICAL AND INSTRUMENTATION

- MCC panel with VFD
- Control desk with HMI and PLC
- Temperature sensors, gauges and pressure sensors
- Power and Control Cables

E. CAPACITY OF PRODUCTION 10 KG/HR

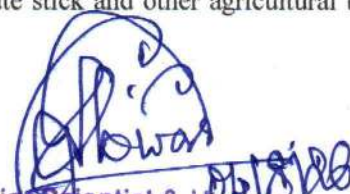
F. SPARES AND CONSUMABLES for 1 year

- Electrodes
- Power supply cards

G. SERVICES: ERECTION AND COMMISSIONING

The offered system shall be capable of continuous conversion of bio-mass particularly jute stick and other agricultural bio-mass into high quality bio-char and activated charcoal.




Senior Scientist & Head
Dhaanyaganga KVK, RKMVERI
RKMA, Sargachhi, Murshidabad



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H. FINANCIAL BID SHALL INCLUDE-

- Component wise price
- GST
- Freight Charges
- Installation and commissioning charges
- Any optional items.

I. WARRANTY

Shall include parts, labour, service visits and replacement of defective components

J. PAYMENT TERMS

- 30% against acceptance of purchase order
- 60% after supply installation and successful inspection
- Remaining 10% after successful commissioning and acceptance

K. SUBMISSION OF BIDS SEALED ENVELOPE SHOULD BE SUPERSCRIBED AS

"Tender for supply, installation and commissioning of plasma based bio-char and activated charcoal production unit".

Addressed to : Senior Scientist and Head

Dhaanyaganga Krishi Vigyan Kendra

RKMA, Sargacchi, Murshidabad

West Bengal, 742408

The bidder may submit tender to this office in sealed envelope within 15 days from the date of this notification along with require document.

L. EVALUATION OF BIDS

Evaluation shall consider-

- Technical compliance
- Service support
- Financial competitiveness
- Warranty
- Delivery Schedule
- Experience and performance

M. GENERAL TERMS AND CONDITIONS

This purchaser reserves to the right to:

- Accept or reject any tender
- Reject incomplete bids
- Cancel tender without assigning any reason
- Increase and decrease quantity
- Negotiate where permissible under Government rules

Decision of the Competed Authority shall be final.




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