

KCCP LIMITED

(A Government of Kerala Undertaking)

"CLAY HOUSE", Pappinisseri, Kerala - 670 561.

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TENDER No. KCCP/TENDER/ 842 /2021-22

16.08.2021

NOTICE INVITING E-TENDER FOR SUPPLY ERRECTION AND COMMISSIONING OF MACHINERIES AND EQUIPMENTS FOR INTEGRATED COCONUT PROCESSING UNIT

KCCP Limited, Pappinisseri, Kannur invites online bids (E-tender) from manufacturers/suppliers for supply erection and commissioning of machineries and equipments for integrated coconut processing unit at Kannapuram Kannur Dist. The tender shall be submitted as e-tender through <https://www.etenders.kerala.gov.in>

1. DETAILED SPECIFICATION OF THE MACHINERIES REQUIRED FOR COCONUT PROCESSING UNIT.

Sl. No.	PARTICULARS	QTY
1.	<p><u>Coconut De-Sheller:</u> Function : For removal of shell from coconuts. Capacity of motor : 1.0 HP, 3 phase induction motor Capacity of Machine : 250-300 Shell/Hour</p> <p><u>Additional Specifications:</u></p> <ol style="list-style-type: none">1 Mode of working: By Manual feeding of coconut against rotating cutter2 Two headed - it consists of two rotating cutters at both ends of the shaft.3 Structure of the Machine - Fabricated or casted. If fabricated, material used for fabrication should be ISI quality steel structures. Ensure the structural stability, noise and vibration are within the tolerable limit.4 All contact parts and guard are made of stainless steel (SS304)5 Painting of structure. (Power coated or spray painted)6 Speed of the rotating cutter should be about 40 rpm (Series of Gears or speed reduction Gear box are to be provided for this purpose and it should be mentioned in the catalogue) <p><u>Attachment Required:</u></p> <ol style="list-style-type: none">1. Catalogue or diagram of the machine2. Overall Size of the machine,	2 Nos
2.	<p><u>Desiccated coconut Dryer (With blower):</u> Function : To dry Low Fat Desiccated coconut powder Capacity of motor: 10HP ,3phase induction motor Capacity of machine :100Kg/ Hour. Type : Steam radiation and tray dryer</p>	1 No

	<p>Additional</p> <p>1. Provide additional heating coil arrangement for heating.</p> <p><u>Additional Specifications:</u></p> <ol style="list-style-type: none"> 1. Provide temperature adjustment Devices for dryer. 2. Feeding of desiccated coconut: Manual or Automated <ul style="list-style-type: none"> - For manual feeding at top, provide stair. - For Automated feeding ,show the mechanism (if you have both type, show them separately in tender). 3. Steam required for drying is about 1400 Kcal/Hour at 7 Kg/ square cm. 4. Steam supplied at boiler and make separate pipe line for them. 5. Ensure the structural stability, noise and vibration are within the tolerable limit. 6. Operating console with voltmeter and ammeter, digital thermometer with probes and SS braided cable. <p><u>Attachment Required:</u></p> <ol style="list-style-type: none"> 1. Catalogue or diagram of the Machine 2. Overall Size of the machine. 	
3.	<p><u>Cooling Tower</u></p> <p>Capacity : 50 TR 440 V, 3Phase</p> <p><u>Additional Specifications:</u></p> <ol style="list-style-type: none"> 1. FRP Induced Draught Counter Flow Cooling tower Square type with ABS fills, Water distribution arrangement and fixed PP non clog type Nozzles, Statically and dynamically balanced axial flow fan. 2. FAN DRIVE MOTOR : it is available in T.E.F.C weatherproof, IP-55 it is made of FRP segments and is structurally strong enough to withstand various forces and impact. 3. Make up and quick fill arrangement, over flow and drain connections 4. INSPECTION / ACCESS WINDOW: It is provided for maintenance and periodical checking of the various segments of the cooling tower, without disturbing the normal working of the cooling tower. <p><u>Attachment Required:</u></p> <p>Brochure of the Cooling tower.</p>	1 No
4.	<p><u>Water tank capacity 1000 liters</u></p> <p>Triple layered plastic, white colored</p> <p>One layer serves as the outermost layer, the second layers serve as UV protection and the third layer serves for better visibility.</p> <p><u>Attachment Required:</u></p> <p>Catalogue of water tank</p>	1 No
5.	<p><u>Multi stage compressor (Oil Free)</u></p> <p>Power : 10 HP, 3 phase 415 V</p> <p><u>Additional Specifications:</u></p> <p>Reciprocating Multi stage compressor</p> <p>CFM range 30 – 50</p> <p>Pressure range 10 – 12 bar</p> <p>No of Stages: Two Stage, No. of Cylinders :3 cylinders</p> <p>1st Stage - 2 & 2nd stage - 1</p> <p>Total Tank capacity – 1000 Liters (It may provide by 2 tank)</p> <p><u>Attachment Required:</u></p> <p>Brochure of the compressor</p>	1 No

6.	<p><u>Supply of Water shower - Retort machine capacity - 450 pouches / batch</u></p> <p><u>Additional Specifications:</u></p> <ul style="list-style-type: none"> a. Pouch size : 150 mm X 200 mm X 25 mm – 450 Nos b. Sterilization Chamber 1000mm D X 1500 mm L c. SS304 pipeline for steam, Air, vent and water d. Solenoid valves for automatic operation e. Bypass valve for manual Drain and vent f. Pressure switches for safety purpose g. Redundant safety valve (IBR certified) h. Vacuum breaker i. PT 100 (R TD) j. 54 M³, process water circulation pump with flow transmitter and VFD k. Pressure transmitter and (4-20mA) l. Bi color Level indicator with transmitter (4-20mA) m. SS Trolley and SS Basket n. 10" color HMI and PLC based control system with Epson printer o. SS 304 Basket – 750L X 600BX40 H – 60 Nos p. SS 304 outer four wheel Trolley 750 L X 600B X 30H – 4 Nos q. SS Base inner trolley: 750 L X 600 B 30 H – 4 Nos r. Gasketed PHE, 180 deg C, 8 bar <p><u>Attachment Required:</u></p> <ul style="list-style-type: none"> 1. Catalogue or diagram of the machine 2. Overall size of the machine, 	1 No
7.	<p><u>Homogenizer (Specially for Coconut milk processing)</u></p> <p>Capacity - 250 Its / hour</p> <p><u>Additional Specifications:</u></p> <p>Length : 40 mm</p> <p>Capacity : 250 LPH</p> <p>No. of Stages : Two</p> <p>Application : Coconut Milk</p> <p>Plunger Dia : 16 mm</p> <p>Max.Pressure : 250 Bar (3555 PSI)</p> <p>Max. Operating Pressure : 200 Bar (2844 PSI)</p> <p>Type of operation: Manual</p> <p>No. of Plungers : 3 Nos.</p> <p>M O C of Plunger : Special Alloy with hard chrome plated</p> <p>Homogenizer Speed : 235 SPM (Suitable for Continuous duty)</p> <p>Electric Drive Motor : 5 HP 3 ph: 960 RPV (Kirloskar/Crompton)</p> <p>Motor Starter : DOL starter will be provided</p> <p>Drive Mechanism : Direct Belt drive (Dynamically balanced)</p> <p>Pressure Gauge : Flat diaphragm type (0-400 Bar)</p> <p>M O C of all fluid Contact surface : AISI 316 (S.S)</p> <p>The Body : the body of the Homogenizer casing is made out of Cast Iron.</p> <p>M O C of Homogenizer Valve & Seat : Imported Stellite (Germany)</p> <p>M O C of suction & dis. Valve : AISI 316 with Satellite Seating</p> <p>Homogenizer covering/ Gladding : Teflin coated SS 304 enclosure</p> <p>End connections : 25x25 mm SMS dairy standard</p> <p>Pulsation Dampeners : Will be provided both Inlet & Outlet Line</p> <p>Homogenizer legs : 4 Nos. with adjustable SS ball</p> <p><u>Attachment required</u></p>	1 No

	<ol style="list-style-type: none"> 1. Catalogue or diagram of the Machine 2. Overall size of the machine, 	
8.	<p><u>Retort pouch filling machine,</u> Volumetric fillings <u>Additional Specifications:</u> Semi automatic filling machine for coconut milk Semi -Automatic Piston type paste / Liquid filling machine Both filling volume and filling speed can be adjusted Material of construction SS304 Filling head adopts anti-leakage Hopper capacity 35L Range: 100 – 1000 ml Power supply : 230 V AC <u>Attachment required</u> <ol style="list-style-type: none"> 1. Catalogue of the machine 2. Overall size of the machine, </p>	1 No
9.	<p><u>Continuous band sealing machine</u> <u>Additional Specifications:</u> Power – 2500 W, 230 V 50 Hz Sealing speed 0 -12 m/min Sealing width 6 -12 mm Temperature Range 0-300 o c Maximum conveyor loading – 3 Kg Printing category – steel wheel printing <u>Attachment required</u> <ol style="list-style-type: none"> 1. Catalogue or diagram of the machine 2. Overall size of the machine, </p>	1 No
10	<p><u>High Pressure impulse Sealing Machine.</u> Power: 2000VA <u>Additional Specifications</u> <ol style="list-style-type: none"> 1. Jaw :Each jaw (OIL COOL TRANSFERMER) high thermal conductive & dielectric strength. 2. Sealing :single band of 10mm (approximate) 3. Sealing length :320mm effective/jaw 4. Pressure :6kg/sqcm 5. Air : 130 lpm/jaw@6 stroke/ min, 6. Operation :foot switch. 7. Cooling : Forced water (controlled cooling) 8. Cycle time :8-10 sec per retort pouch. 9. Control :individual programmable timer controller heat & cool time, nc sensing. 10. Other features :power-on,cycle-on, seal – on 11. Painting.: special coating & painting to suit any environment 12. Material of construction : crca,ms,pp,Teflon, aluminium. <u>Attachment required</u> <ol style="list-style-type: none"> 1. Catalogue or diagram of the Machine 2. Overall size of the machine. </p>	1 No.
11	<p><u>Erection of mechnieris and integrating & commissioning of various machines for the coconut processing plant.</u> <u>Additional Specifications:</u></p>	Approx.* 65 meters

<ol style="list-style-type: none"> 1. Fabricating of steam pipe line (seamless pipe), 1.5" dia, with all mounting and accessories and accoeries (Non return valve, Pressure reducing valve, Heavy duty (safety valve, Flow control valve/ Globe valve lever operated, Bourden tube pressure gauges, range, 0 -14 Kgf / sq cm etc.) from boiler to all steam required machineries in the plant. 2. Water tank (triple layerd plastic) capacity 1000 Ltr 3. AES Reflective foam insulation shield, Heat shield Thermal insulation for chilled water tank. 4. All steam carring pipe lines should be insulated by Glasswool and aluminium cladding 5. Fabrication of suffient u PVC pipe line (,1.25",7 Kg/sq cm) for chilled water supply in the plant. 6. Fabrication of suffient pvc pipe lines, ¾ " (5kg/sq cm) for water supply at all required points of the plant. 7. Provide stream trap at required places of the machineries. <p><u>Attachment Required:</u> Provide cateloges for pipes , pipe fitting, all valves, Traps, flanged couplings, Non return valve, pressure reducing valve, heavy duty (safety valve), flow control valve/Globe valve lever operated. Bourden tube pressure gauges, range, 0 - 14 Kgf /sq cm.</p> <p>*Quantity of 65 meters shown above is only approximate. Payment for this item will be regulated as per actual length of pipeline</p>	
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1. EMD required :: Rs.86,000/-
2. Cost of Tender Documents :: Rs.23,340/- (Including GST)
3. Mode of submission of Tender :: Tender should be submitted online in etenders.kerala.gov.in.
4. KCCPL reserves the right to reject any or all tenders without assigning any reason thereof.
5. For Critical dates, Please refer www.etenders.kerala.gov.in e-Portal.
6. Tender closing date 31.08.2021 at 4.00 PM
7. Technical bid opening date 02.09.2021 at 11.00 AM

Sd/
MANAGING DIRECTOR