



TILAHUN CHALA IMPORT & EXPORT
Bidding Documents

International Competitive Biddings (ICB)

Subject of Procurement:

**INVITATION OF INTERNATIONAL COMPETITIVE BIDDING
FOR THE SUPPLY OF ADVANCED MACHINERY & EQUIPMENT
FOR KRAFT PAPER MILL & CORRUGATED CARTON BOX
MACHINERIES**

Procurement Reference Number: ICB/01/2023 G.C

Bid Closing DATE & TIME: October 31, 2023 G.C 8:00 local time/ 2: PM

Bid Opening DATE & TIME: October 31, 2023 G.C 8:30 local time/ 2:30 PM

Addis Ababa, Ethiopia

September, 2023

Procuring entity	Tilahun Chala Import & Export
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Attention	Mr Tilahun Chala
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Dear Prospective Bidders,

We are pleased to announce the launch of an international tender for the supply of cutting-edge technology for waste paper recycling; Kraft paper and printing paper manufacturing setup with an integrated five ply corrugated carton box production lines.

Waste paper recycling & paper mill requires a comprehensive set of machineries and equipment to process Input mixed brocks or OCC into paper. The capacity of the Mill is 100 TPD and a complete corrugated carton Box manufacturing line is also 100TPD capacity.

Though , the major objective of the project is to produce corrugated carton box by integrating paper recycling & Kraft paper line, bidders are still required to explore & indicate alternative products to be produced using the same setup to optimize & diversify the out puts as requires. Printing paper shall be among the proposal.

Hence, a brief technology description of main machineries & flexibility is expected to be proposed by each participant.

1. RECEIPT OF BIDS

Bids must be received at the Tender submission Address by the Tilahun Chala Import and Export prior to one month deadline.

Any Bids received after specified dead line will be rejected & returned to the bidder unopen.

2. BID SECURITY

- The Amount of Bid Security shall be announced by the buyer, if needed
- The type of Bid security may be in the form of:
Unconditional; Bank Guarantee or Cash Payment Order (CPO)
- The bid Security shall dominate in freely convertible currency acceptable to the Purchaser OR currency of payment of the contract in accordance with the portion of Contract price. Security issued by the foreign banks or Financial institutions shall be Counter –Guaranteed by the Ethiopian Banks

2. SCHEDULE OF UNIT PRICE

The bidder shall offer both unit prices and lump sum for single or both plants Project.

In case of the unit price, the bidder must submit a schedule of unit and respective prices. The price shall be appropriate & include calculated value of profession of fees, overhead, & the bidder's contingency allowance.

The bid price is fixed over the time of accomplishment of the whole project or installation of the plant.

3. DELIVERY SCHEDULE FORM

The bidder shall indicate the schedule of manufacturing of equipments, shipment and installation based on sequential activities.

4. TECHNICAL CAPABILITY

The bidder shall furnish, as part of its bid, document establishing the bidder's qualification to perform the project if its bid is accepted.

The document evidence of the bidder's qualification to perform the contract shall be established to client's satisfaction.

- a) The bidder experience in similar project implementation and its performance.
- b) The bidder staffs and their capability to perform the project.
- c) The bidder financial capability necessary to perform the project

5. TECHNICAL & TECHNOLOGICAL ASPECTS OF THE TENDER

- A. The plant and machinery proposed shall incorporate the latest advancements in technology that ensure high performance, can deliver quality of product and productive (produced with minimized waste).
- B. Bidders are encouraged to propose the integration of locally-sourced components to enhance local technical capacity & minimize the cost of machinery & technology.
- C. Emphasis will be placed on environmentally friendly machines that prioritize energy efficiency and have minimal impact on the environment.
- D. Bidders must provide effective waste water recycling and waste treatment solutions, promoting responsible and sustainable manufacturing practices including management & utilization of sludge.
- E. Knowhow transfer programs should be included to enable local technicians and operators to master the operation and maintenance of the whole plant.
- F. Bidders are expected to offer a comprehensive spare parts and consumables package, ensuring efficient maintenance and reducing downtime for at least two years.
- G. Machines shall build high quality materials; with extended technical life spans will be favored, ensuring a long-term return on investment.

- H. Process control Systems both software, and hardware shall be user friendly, easily to manage and monitor plant operation.
- I. Relevant Layouts, detail technical specification, and Drawings
- J. Safety and Compliance facilities
- K. Maintenance and Support systems & investment
- L. Indicate required labor, material & utility i.e. water, electricity & others in qty per ton of input or output.
- M. Indicate size of building i.e. width, height, length, including storey type, steel structure or other civil work, land required, lay out etc.
- N. Integrate Possibilities of using internally generated waste like sludge for boiler fire or energy source, if any.
- O. All other parts like pipelines, valves, connectors, cables, power distribution boards, power system controlling , instrumentation lines and all setups including sensors, transmitters and controllers, HMI, SCADA, mechanical fittings, screws, nuts, washers etc should be included along main equipment
- P. Utility supplies like water treatment unit, water pumps, boilers, condensate collector and pumps, steam distribution heads, fuel feeding system with all facilities, waste water treatment and circulation system, electrical forklifts, trolleys, weigh bridge and balances, slitting and rewinding machines, final product packaging m/c, etc... shall be incorporate in the technical offer.

6. MAIN PARAMETERS FOR KRAFT LINER PAPER MILL PROJECT

Paper grade	Kraft liner, test liner, fluting paper
Max paper width	5600mm
Base weight range	45 - 260gsm
Day capacity	100 TPD

7. MAIN PARAMETERS FOR CARTON BOX PROJECT

Kraft Paper base weight	120 to 240 GSM
Maximum width	2100 meters
Daily capacity	100TPD
Printing unit	5+1
Layers and flutes	5, E, B and C

8. SUPPLY AND SERVICES REQUIRED FOR KRAFT PAPER PROJECT

The scope of supply including but not limited

- General plant design and lay out
- Stock preparation unit machinery and equipments and pipe networks
- Kraft Paper machine and equipments and pipeline networks
- OCC and broke paper cleaning and fiber preparation system
- Fresh & white water supply, treatment and recycling system
- Paper fiber dewatering, Vacuum and press system
- Steam supply and condensate recovery system
- DCS (distributed control system)
- Compressed air supply system
- Surface Sizing agent cooking system
- Pipe lines, fittings & valves
- Fresh Water treatment and sludge separation system
- Boilers or steam generation system
- All cables, boards and power supply lines
- MCC system (motor control center or central control room)
- Cranes for maintenance and operation
- QCS (quality control equipments and tools)
- Fork lift, trolleys other material handling system
- Steel structures, checker plates, ladders and stairs
- HMI and its application software
- Input data for civil construction works
- Detail information about Name and Model of OEMs
- Proposed spare parts detail

9. SUPPLY AND SERVICES REQUIRED FOR CORRUGATED CARTON BOX PROJECT

The scope of supply of corrugated carton box plant including but not limited

- General plant design and lay out
- Glue cooking and dispatch system
- Corrugators and glue application systems
- Overhead bridges and drying system
- Printing scoring and folding system
- Gluing and wire stitching system
- Creasing and scoring machines
- Die cutting system with die preparation tools
- Finished carton box Packaging system
- Pre- printing setups
- Steam supply and condensate recovery system
- DCS (distributed control system)
- Compressed air supply and distribution system
- Pipe lines, fittings & valves
- Boilers or steam generation system

- All cables, boards and power supply lines
- MCC system (motor control center or central control room)
- Cranes for maintenance and operation
- QCS (quality control systems and tools)
- Fork lift, trolleys other material handling system
- Steel strictures, checker plates, ladders and stairs
- HMI and its application software
- Input data for civil construction works
- Detail information about Name and Model of OEMs
- Proposed spare parts detail

10. FORMAT & REQUIREMENTS FOR SUBMITTING TECHNICAL BID FOR MACHINERY & EQUIPMENT TARGETING 100 TON KRAFT PAPER MILL. AND 100TPD CORRUGATED CARTON BOX PLANT PROJECT

A. Supplier/Bidder_____

B. Address _____

1. KRAFT PAPER MILL PROJECT

s/no	Machinery& equipment	Capacity (ton)	Technical specifications	Power requirement	Qty	Unit cost	Total cost
1	Main machinery & equipment for Kraft Mill						
1.1	Waste Paper recycling & preparation (detail all machinery by process unit sequentially)	150					

1.2	Stock preparation (detail all machinery by process unit sequentially)	100					
1.3	Paper Mill (detail all machinery by process unit sequentially)	100					
1.4	Paper finishing and packing (detail machineries for preparation of small rolls, sheets and packaging)						
2	Utility supplies and Others						
2.1	electrical and process control system						
2.2	Lightening arrester and earthling system,						
2.3	chemical preparation and distribution units						
2.4	Boiler, and steam network system						
2.5	Water and waste water treatment and recycling plants						
2.6	Step down Transformer						
2.7	weigh bridge and small weighing scales						
2.8	A complete set of lab & quality testing equipment						
2.9	Relevant Maintenance shop equipment						
2.10	Electrical operating forklifts, electrical overhead crane and small trolleys						
2.11	Stand by diesel generator						
3.	civil engineering work & building						
3.1	Indicate size, length, width and height requirement for factory including chests, stores, lab & others including storey building.						

3.2	Proposed construction material, structures and load						
4.	Erection & commissioning						
4.1	Cost incurred during erection, trial test and commissioning cost						
4.2	training cost (indicate by type)						
5	insurance, handling, freight & other charges						
6	TOTAL COST (C.I.F DJIBOUTI)						

2. CORRUGATED CARTON BOX PROJECT

s/no	Machinery& equipment	capaci ty(ton)	Technic a specifica tions	P o w e r r e q u i r e m e n t	q t y	unit cost	t o t a l cost
1	Main setups for Corrugated carton Box manufacturing						
1.1	Glue cooking or preparation and feeding unit (detail machinery and process units)						
1.2	Corrugations and carton sheet making and board cutting and stacking units (detail all machinery by process unit sequentially)						
1.3	Corrugated carton box printing unit (detail specification of printing techniques machineries and systems)						
1.4	Scoring, folding, and die cutting units (detail specification of each units)						
1.5	Wire Stitching and gluing unit (detail specification of machineries)						
1.6	Pre-printing unit like graphic design computers, CTP machine and accessories, die making tools and machines, etc..						
1.6	Spares to maintain the normal operations of each machine for two years						
2.	Utility supplies and Others						
2.1	electrical and process control system						
2.2	chemical preparation and distribution units						
2.3	Boiler and steam distribution and return system						

2.4	Water supply and treatment plants						
2.5	Step down Transformer						
2.6	weighing scales						
2.7	Stand by Diesel generator						
2.8	A complete set of lab & quality testing equipment						
3	Relevant equipment						
3.1	Electrical operating forklifts electrical overhead crane and small trolleys						
3.2	Lightening arresters and electrical earthing system						
4.	civil construction work & building						
4.1	Indicate size, length, width and height requirement for factory including stores, lab & office buildings						
4.2	Proposed construction material and load						
5.	Erection & commissioning						
5.1	Cost incurred during erection trial test and commissioning cost						
5.2	training cost (indicate by type)						
6	insurance, handling, freight & other charges						
	TOTAL COST (C.I. DJIBOUTI)						

NOTE: Bidders can use the above or similar format for providing the offer

11. OTHER REQUIRED CONDITIONS

The following conditions should also be considered as vital components to be included or detailed while submitting the financial & technical proposal

- a. Compliance with the client requirements
- b. Quality assurance and relevant certification from international recognized institute.
- c. Inspection & testing facilities and procedure.
- d. Warranty and after-sales support details.
- e. Supplier's track record and experience in similar projects.
- f. References and customer testimonials.
- g. Insurance and liability coverage.
- h. Environmental and safety compliance.
- i. Audited financial statement (especially balance sheet) for three years
- j. Delivery, packing, shipping, and payment terms etc conditions & schedule
- k. Lists of proposed parts supplier or its sources

Bidders are encouraged to highlight any other conditions which may serve as unique selling points & qualify their competency.

We look forward to receiving your comprehensive proposals and all efforts for a mutually beneficial partnership. The deadline for submitting bids is October 31, 2023. Should you have any questions or require further information, please contact us at

Thank you for your interest in participating in this international tender.

Sincerely