

ANNEX II + III: TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

Contract title: Date Bar Production Line

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Columns 1-2 should be completed by the contracting authority

Columns 3-4 should be completed by the tenderer

Column 5 is reserved for the evaluation committee

Annex III - the contractor's technical offer

The tenderers are requested to complete the template on the next pages:

- Column 2 is completed by the contracting authority shows the required specifications (not to be modified by the tenderer),
- Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words 'compliant' or 'yes' are not sufficient)
- Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offered specifications.

Date Bar Production Line Description

This tender is issued for the procurement of a Date Bars production line, which includes additional components such as oats, nuts, cereal, sesame, puffed rice, and more. The production line should be designed to handle different stages of the production process and should be built to the highest quality standards. In order to ensure consistent and reliable performance, each component of the line is made from high-quality materials and is equipped with best possible technology. The equipment components also should be equipped with high-quality electrical and pneumatic systems, which should be selected to ensure long-term reliability and efficient operation. Additionally, the line should be equipped with a range of features that help to minimize waste and reduce downtime, resulting in improved efficiency and reduced costs. The production line comprises the following units: 1) Homogenizer/Mixer; 2) Transport Conveyor; 3) Extruder for Forming Date Bars; and 4) Packing Unit. In addition, it is requested to provide: training, installation and warranty.

General considerations:

- The Technical Specifications contain the general and particular prescriptions that must be followed from the Contractor during the execution of the supply. These prescriptions should not be considered limitative to the quality, the characteristics and technologies of the equipment offered.
- The Tenderer shall warrant that all supplies have no defect arising from design, materials or workmanship.
- Equipment and materials must be strong enough to resist to any solicitations that can cause deformations or permanent damages during the delivery, the installation and the operation.
- Each of the materials, components, equipment, systems and the activities necessary for a complete installation and putting in operation, must be sustained by the Contractor also in the case of omission in the Tender Dossier.
- Certification, manuals, any other relevant document shall be included in the Tender Dossier.

1. Item number	2. Specifications required	3. Specifications offered <small>(if space is insufficient, it is possible to attach other docs, following this table structure and numbering)</small>	4. Notes, remarks, ref to documentation	5. Evaluation committee's notes
1	<u>General Specifications</u> <ul style="list-style-type: none"> - All machines must be CE (EU) marked products or have equivalent certifications - All machines shall comply with Eurasian regulatory requirements and standards or equivalent standards regarding food safety, environment and other industry-specific standards (e.g. ISO/TC326, ISO 13849-1, IEC 62061, IEC 60204-1:2016+A1:2021, etc.) - The machines should be capable of being stored and to operate continuously in ambient temperature of 20 -50° C and relative humidity of 15-90% - All machines shall be semi-automatic - PLC should be Siemens, Omron or equivalent quality and should not be old generation - Pneumatic parts (valves and cylinders) should be Festo, SMC or equivalent quality - Sticker with the Logo of the Donor (see Pattern below) dim. 103x85 mm, if possible, must be placed on each machine. 			

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2	<u>Documents</u> <ul style="list-style-type: none"> - Service and operational manuals must be provided in English and/or Levantine Arabic in two copies hard and/or soft) - Manuals shall cover the following topics: <ul style="list-style-type: none"> • General description of the line. • Installation instruction. • Spare parts list. • Wiring diagrams. • Maintenance plan. • Adjustments, troubleshooting, calibrations, that describes the complete operations of the equipment, the parts, • the electronic circuits, • Software, • Etc. - Certifications CE or equivalent 			
3	<u>Warranty</u> <ul style="list-style-type: none"> - Warranty period shall last not less than 24 months from the provisional acceptance test. - Warranty shall include regular preventive maintenance / safety and functionality checks / QA as per Manufacturer's recommendations, or at least twice (2) per year if not differently specified by the Manufacturer. - After-sales and maintenance services during warranty and post warranty period must be provided for the supplied equipment by the Contractor or through an authorized local agent. 			

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4	<u>Spare parts and consumables</u> <ul style="list-style-type: none"> - The contractor will guarantee the availability of spare parts during the 5 years following the installation of the equipment. - The contractor shall include in his tender a list of the most common consumables and spare parts, without pricing. 			

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5	<p><u>Delivery, Installation and Testing & Commissioning</u></p> <ul style="list-style-type: none"> - The contractor shall deliver, install, put in perfect operating conditions and ready to use the entire production line. - The contractor shall perform the contract with due care and diligence, providing for the delivery, assembly, testing and start-up of the equipment, including correction of any defects. The Contractor must have skilled manpower equipped with appropriate tools to properly execute the contract. This may include: onsite inspection and evaluation of quality of electric installation; quality of hydraulic installation; Environmental conditions. - The contractor must provide all materials, equipment and devices needed to implement a complete and safe installation and commissioning of the equipment supplied. The contractor should provide all the tools, manpower, technical direction, management/supervision, application services and any other services required, although not expressly stated in the Special/General Conditions of Contract. - The contractor will be responsible for any necessary modifications/changes to existing infrastructure and will be responsible for rectifying any damage resulting from its activity. - After commissioning the extruder, cutting station, and packing machine will be tested to verify if they respect a production repeatability with a maximum error of 2% during one hour of production. 			

6	<p><u>Training</u></p> <ul style="list-style-type: none"> - After installation and commissioning, training must be held locally in English/Levantine Arabic language. A qualified instructor approved by the Contracting Authority should carry out the training. The course shall cover the basic instructions for the use, maintenance, safety and any other relevant aspect needed for the proper functioning of the equipment, where required. - Training shall not last less than the duration necessary to cover all topics recommended by the Manufacturer. - The contractor shall include in his offer a detailed training (users and maintainers) plan and time schedule, and specifying topics, duration and personnel involved. - The location of the training course for users and maintenance technicians shall be the place where the equipment is delivered and installed. - The training course for maintenance technicians shall be theoretical and practical, using the equipment in the configuration, proper instrumentation, testers, simulators and phantoms, and planning simulation and management of the most common problems; the training proposal shall be approved by the Contracting Authority. - The training course for maintenance technicians shall be organized for all the technicians and engineers' expected/planned by the final beneficiary institution for each type/model of equipment installed. - The training course for maintenance technicians shall focus at least on the following topics: <ul style="list-style-type: none"> ➤ General equipment functions, functioning of equipment, specific technical characteristics and alarm signals; ➤ Main electrical and functional schemes; ➤ Calibrations (if required) and periodic maintenance in order to assure the longest equipment life; ➤ Preventive maintenance and its regular recurrence; 			
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	<ul style="list-style-type: none"> ➤ Problem identification and corrective maintenance (to solve the most frequent problems); ➤ Safety and quality controls, where applicable. - A final test shall be organized at the end of the training course in order to verify the know-how acquired and the results shall be delivered to the Contracting Authority. 			
	PRODUCTION LINE			
7	<u>Homogenizer/Mixer:</u> Capacity: 100 to 300 kg/h (variable). Power: 380-415 V, 50 Hz. Construction: Body and blades made of SS304. Safety Features: Equipped with safety carters for all potentially hazardous components and security micro switches that halt machine operation when carters are opened. Emergency Stop: An emergency button for immediate machine stop on each side, with easy access for the operator.	Details		
8	<u>Transport Conveyor:</u> Purpose: To transport the homogenized mixture to the Forming unit. Electric Tension 380-415 V, 50 Hz. Construction: Body made of SS304, Belt must be made of material that complies with the regulations for food production Safety: Equipped with an emergency stop. Belt speed adjustment.	Details		

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9	<p><u>Extruder for Forming Date Bars</u></p> <p>Design: Equipped with double rotary axes and constructed from SS304 material. Electric Tension 380-415 V, 50 Hz. Safety: Safety carters for moving parts with security micro switches to stop the machine when carters are open, and emergency stops near the cutting station and extruder. Production Flexibility: Adjustable production speed, covering a range of 100-300 kg/h, and variable weight between 25 to 80 g/bar. Changeover Features: Easy form and cutting blade changeover, user-friendly disassembly for cleaning at the end of shifts. Control: Machine controlled by a PLC with a minimum 7" HMI. Software: PLC software allows the operator to adjust speed and cutting speed via the HMI. Production Menu: HMI features a production menu for creating different recipes with different production settings (cutting speed, extruder speed, etc.). These settings can be easily recalled by the operator without re-entering data each time. Productivity Counters: HMI features productivity counters resettable by the operator. Quality: Cutting station must adhere to a repeatability of maximum error of 2% in one hour of production. Integration: The outlet point should seamlessly connect with the inlet of the packing machine, eliminating manual handling in between.</p>	Details		

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10	<p><u>Packing Machine:</u></p> <p>Capacity: 3000 parts/minute.</p> <p>Automation: Fully automatic transition from the extruder after the cutting station to the packing machine without human intervention.</p> <p>Electric Tension 380-415 V, 50 Hz.</p> <p>Safety: Security carters for moving parts with security micro switches to stop the machine when carters are open, and emergency stops near the cutting station and extruder.</p> <p>Packing Flexibility: Variable packing width (20 to 60 mm) and variable length (30 to 130 mm).</p> <p>Quality Assurance: Packing machine must adhere to a repeatability of maximum error of 2% in one hour of production.</p> <p>Control: Machine managed by a PLC with a minimum 7" HMI.</p> <p>Pre-Setting: HMI features different pages for system pre-settings and a menu to recall pre-set recipes.</p> <p>Various Packaging film material Such as OPP, PE , OPP/CPP/BOPP Aluminium film etc.</p>	Details		