SPECIFIC PROCUREMENT NOTICE

Specific Project Title:	**COMPONENTS FOR THE AUXILIARY SYSTEMS [ACTION B.3]**
Contacting Authority:	**ELECTRONIC SYSTEMS S.P.A.**
Countries of implementation:	**ITALY**, **GERMANY**
Macro-Project Framework:	**LIFE TIRE2TIRECYCLE** [ID No.: **LIFE ENV/IT/000496**]
Abstract:	**SUPPLY OF THE COMPONENTS FOR THE AUXILIARY SYSTEMS FOR THE MACHINERIES NECESSARY TO THE IMPLEMENTATION OF ACTION B3**
Proposal Submission Deadline:	**16/01/2022 – h.06:00**

The procurement is related to the Project "LIFE TIRE2TIRECYCLE", which is co-financed by the European Union LIFE Programme, Grant Agreement LIFE ENV/IT/000496. More detailed info in *General Procurement Notice*.

This notice aims at reducing time limits for receipt of tenders: interested operators must inform the contracting authority of their interest in the contract, as the contract will be awarded without publication of a further call for competition. Access to the procurement documents is restricted, additional information can be obtained by contacting the main email address (elsy-acq@pec.intercom.it). Tenders must be submitted to the abovementioned address; proposals shall be submitted in English or Italian no later than 17/01/2022.

Scope of the procurement is the supply of the Components for the Auxiliary Systems for the machineries necessary to the implementation of Action B3.

The only currency accepted for tendering and the subsequent contract is EUR, all payments will be in EUR.

The scope of procurement ultimately shall be installed in a manufacturing plant in Germany. In order to allow the operations necessary to integrate and complete the overall implementation of the machineries for action B3, the delivery of the scope of supply will be at Electronic Systems premises in Momo, Novara, Italy.

Price is not the only award criterion. Quality requirements are strict and weighted accordingly; also, proved experience in the application field (or relatable application) is of high importance during evaluation, which will be carried out by the Contracting Authority project management unit.
Award criteria:

a)	Specific experience of the Contractor related to the assignment	[10 points]
b)	Adequacy of the proposed tender, workplan and post-assistance	[30 points]
c)	Qualification and competence of the key staff	[5 points]
d)	Cost effectiveness in relation to the scope of procurement	[15 points]
	Total:	60 points

The minimum technical score required to pass is 25 points.

This contract is not divided into lots and it is not subject to renewal. This contract will conclude its validity after the successful completion of the scope of procurement by fulfilling all the requirements described in the detailed scope description.

Confidentiality: to protect the high level of innovation and the proprietary design of the machineries in the process, the contractor agrees with the obligation to sign an NDA with, and drafted by, Electronic Systems.

Detailed description of the procurement:

All components listed below, with the exception of cabinets and related cooling, are Siemens product codes.

Nr.11 Cabinets dimension 1.200mm x 600mm x 2.000mm complete with Bases h=200mm Grey RAL7035
Nr.2 Cabinets dimension 400mm x 600mm x 2.000mm complete with incoming Cable and Bases h=200mm Grey RAL7035
For Cabinets cooling: Nr.4 Air conditioner 4.000W complete with temperature sensors type PT100
Main switch mod. 3WL1116-2CB32-1AJ2 / 1.600A Breaking capacity 55KA complete with Power meter PAC 3200 (with Profinet interface)
For Cabinet lighting: Nr.11 Lamps / Earth leakage circuit breakers / Service plugs
For Feeding 24Vdc: Nr.4 Sitop 24V / 40A + Nr.8 Sitop select
Nr.1 Transformer 400V/24V 500VA x Main switch release coil
Nr.1 Transformer 400V/230V 4KVA x AUX
Nr.1 Transformer 400V/230V 3KVA x Brake / Fan
Feeding supply for TCU Gear pump: 400V - 32A
Feeding supply for TCU Extruder – Screw: 400V - 32A
Feeding supply for TCU Extruder – Barrel: 400V - 32A
Feeding supply for TCU Extruder - Feeding rolls: 400V - 32A
Feeding supply for TCU Extruder – Head: 400V - 32A

Motor starter for Hydraulic station cutting unit A – Pump - kW 7,5 - Control: Softstart (Motor’s brake and fan controlled by inverters)
Motor starter for Hydraulic station cutting unit B - Pump - kW 7,5 - Control: Softstart (Motor’s brake and fan controlled by inverters)
Motor starter for Hydraulic station cutting unit C - Pump - kW 7,5 - Control: Softstart (Motor’s brake and fan controlled by inverters)
Motor starter for Hydraulic station Gear pump - kW 7,5 - Control: Softstart (Motor’s brake and fan controlled by inverters)
Motor starter for Hydraulic station Mix-Extruder - kW 11 - Control: Softstart (Motor’s brake and fan controlled by inverters)
Motor starter for Antitack solution mixer - kW 2,2 - Control: CW (Motor’s brake and fan controlled by inverters)
Motor starter for Knife blade air - Fan - kW 0,75 - Control: CW (Motor’s brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #1 Top - kW 0,55 - Control: CW (Motor’s brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #2 Top - kW 0,55 - Control: CW (Motor’s brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #1 OS - kW 0,55 - Control: CW (Motor’s brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #2 OS - kW 0,55 - Control: CW (Motor’s brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #3 OS - kW 0,55 - Control: CW (Motor’s brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #4 OS - kW 0,55 - Control: CW (Motor’s brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #5 OS - kW 0,55 - Control: CW (Motor’s brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #6 OS - kW 0,55 - Control: CW (Motor’s brake and fan controlled by inverters)

Motor starter for Tunnel - Fan #7 OS - kW 0,55 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #8 OS - kW 0,55 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #1 DS - kW 0,55 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #2 DS - kW 0,55 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #3 DS - kW 0,55 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #4 DS - kW 0,55 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #5 DS - kW 0,55 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #6 DS - kW 0,55 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #7 DS - kW 0,55 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Tunnel - Fan #8 DS - kW 0,55 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Brush motor #1 - kW 0,37 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Brush motor #2 - kW 0,37 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Cutting unit - kW 3,0 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Hydraulic station lifting table - kW 3,0 - Control: CW (Motor's brake and fan controlled by inverters)
Motor starter for Pallet Up/Down - kW 0,55 - Control: CW/CCW (Motor's brake and fan controlled by inverters)

Drive Inverter Sinamics G120 for Feeding belt cutting unit A [Kw 1,1] - Inverter cod. PM240-2 + CU250S-2PN Kw 1,5
Drive Inverter Sinamics G120 for Outlet belt (weighing) cutting unit A [Kw 1,1] - Inverter cod. PM240-2 + CU250S-2PN Kw 1,5
Drive Inverter Sinamics G120 for Feeding belt cutting unit B [Kw 1,1] - Inverter cod. PM240-2 + CU250S-2PN Kw 1,5
Drive Inverter Sinamics G120 for Outlet belt (weighing) cutting unit B [Kw 1,1] - Inverter cod. PM240-2 + CU250S-2PN Kw 1,5
Drive Inverter Sinamics G120 for Feeding belt cutting unit C [Kw 1,1] - Inverter cod. PM240-2 + CU250S-2PN Kw 1,5
Drive Inverter Sinamics G120 for Outlet belt cutting unit C [Kw 1,1] - Inverter cod. PM240-2 + CU250S-2PN Kw 1,5
Drive Inverter Sinamics G120 for Belt from cutting unit C to Gear pump [Kw 1,1] - Inverter cod. PM240-2 + CU250S-2PN Kw 1,5
Drive Inverter Sinamics G120 for Gear pump /Feeding screw [Kw 15] - Inverter cod. PM240-2 + CU250S-2PN Kw 18,5
Drive Inverter Sinamics G120 for Gear pump /Rotor [Kw 130] - Inverter cod. PM240-2 + CU250S-2PN Kw 160
Drive Inverter Sinamics G120 for Gear pump /Upper feeding roll [Kw 11] - Inverter cod. PM240-2 + CU250S-2PN Kw 15
Drive Inverter Sinamics G120 for Gear pump /Lower feeding roll [Kw 11] - Inverter cod. PM240-2 + CU250S-2PN Kw 15
Drive Inverter Sinamics G120 for Mix-Extruder /Feeding belt [Kw 1,1] - Inverter cod. PM240-2 + CU250S-2PN Kw 1,5

Drive Inverter Sinamics G120 for Mix-Extruder /Screw [Kw 132] - Inverter cod. PM240-2 + CU250S-2PN Kw 160
Drive Inverter Sinamics G120 for Mix-Extruder /Mixing roll DS [Kw 15] - Inverter cod. PM240-2 + CU250S-2PN Kw 18,5
Drive Inverter Sinamics G120 for Mix-Extruder /Mixing roll OS [Kw 15] - Inverter cod. PM240-2 + CU250S-2PN Kw 18,5
Drive Inverter Sinamics G120 for Batchoff /Inlet conveyor [Kw 3] - Inverter cod. PM240-2 + CU250S-2PN Kw 4
Drive Inverter Sinamics G120 for Batchoff /Dip tank conveyor [Kw 1,5] - Inverter cod. PM240-2 + CU250S-2PN Kw 2,2
Drive Inverter Sinamics G120 for Batchoff /Dip tank pressure conveyor [Kw 0,37] - Inverter cod. PM240-2 + CU250S-2PN Kw 0,55
Drive Inverter Sinamics G120 for Batchoff /Chain [Kw 4] - Inverter cod. PM240-2 + CU250S-2PN Kw 5,5
Drive Inverter Sinamics G120 for Batchoff /Transfer conveyor [Kw 1,5] - Inverter cod. PM240-2 + CU250S-2PN Kw 2,2
Drive Inverter Sinamics G120 for Batchoff /Wig Wag conveyor [Kw 0,55] - Inverter cod. PM240-2 + CU250S-2PN Kw 0,75
Drive Inverter Sinamics G120 for Batchoff /Wig Wag Oscillation [Kw 1,1] - Inverter cod. PM240-2 + CU250S-2PN Kw 1,5
Drive Inverter Sinamics G120 for Batchoff /Pallets transfer [Kw 1,5] - Inverter cod. PM240-2 + CU250S-2PN Kw 2,2

For PLC: CPU S7-1516F-3PN/DP, cod. 6ES7516-3FN02-0AB0 complete with Memory cards
For PLC: modules ET200SP Inside cabinet
For PLC: Nr.3 Switch Ethernet Scalance XC216
For PLC: Profinet connectors and cable

For Main control desk: Desk L=1600mm / Base100mm / Color Grey RAL7035
For Main control desk: Push buttons
For Main control desk: Nr.1 Keyboard Dekorsky
For Main control desk: Nr.1 Monitor 22" Toutch
For Main control desk: modules ET200SP
For Main control desk: Nr.1 Switch Ethernet Scalance XC216
For Main control desk: UPS - 24V Sitop
For Main control desk: Electromechanical (relè, trafic light, horn, ecc.)

For HMI: Nr.2 PC Box 427E Windows 10
For HMI: Nr.2 License WinCC Run time 4096 Tags – Engineering platform TIA V16
For HMI: Nr.2 License WinCC Recipe – Engineering platform TIA V16

Operator panel for Cutting unit A (400x400x210) Grey RAL 7035
Operator panel for Cutting unit B (400x400x210) Grey RAL 7035
Operator panel for Cutting unit C (400x400x210) Grey RAL 7035
Operator panel for Gear pump /Inlet (400x400x210) Grey RAL 7035
Operator panel for Gear Pump /Outlet (600x600x310) Grey RAL 7035 - Complete with arm, modules ET200SP and TP1200
Operator panel for Mix-extruder (600x600x310) Grey RAL 7035 - Complete with arm, modules ET200SP and TP1200
Operator panel for Extrusion Head (500x500x210) Grey RAL 7035
Operator panel for Inlet Batchoff (500x500x210) Grey RAL 7035
Operator panel for Dip tank (500x500x210) Grey RAL 7035
Operator panel for Gripper (500x500x210) Grey RAL 7035

Operator panel for Palletization area (600x600x310) Grey RAL 7035 - Complete with arm, modules ET200SP and TP1200 Nr.10 E-Stop Mushroom Terminal box for Cutting unit A (600x600x310) - Complete with modules ET200SP Inside Terminal box for Cutting unit B (600x600x310) - Complete with modules ET200SP Inside Terminal box for Cutting unit C (600x600x310) - Complete with modules ET200SP Inside Terminal box for Gear Pump /Inlet (500x500x310) - Complete with modules ET200SP Inside Terminal box for Gear Pump /Outlet (600x600x310) - Complete with modules ET200SP Inside Terminal box for Mix-extruder (600x600x310) - Complete with modules ET200SP Inside Terminal box for Extrusion Head (500x500x310) - Complete with modules ET200SP Inside Terminal box for Batchoff inlet (600x600x310) - Complete with modules ET200SP Inside Terminal box for Batchoff Tunnel (600x600x310) - Complete with modules ET200SP Inside Terminal box for Batchoff Gripper (600x600x310) - Complete with modules ET200SP Inside Terminal box for Batchoff palletization area (600x600x310) - Complete with modules ET200SP Inside

Electronic Systems had planned, designed and drawn all the schemes/diagrams that are the basis for the Components for the Auxiliary Systems.

Implementation period should be in five months since awarding the contract. In the adverse event where quality and/or time-based requirements have not been reached, penalties might apply to the Contractor.

This notice is published as official Contract Notice on TED portal (https://ted.europa.eu/) and C.A.'S dedicated section website (http://www.electronicsystems.it/eu-life-project/open-tender).

Interested eligible bidder who wish to be included in the tendering procedure shall check carefully the Specific Procurement Notices to self-assess the compatibility with the required services, prepare the proposal and send it through the contact form or the address below.

Contact: LIFE-Project Management Unit / Attn. Marcora Michele
ELECTRONIC SYSTEMS SPA
S.R. 229 KM 12,2 - 28015 MOMO (NOVARA) - ITALY
Tel: (+39) 0321-928-210 / E-mail: elsy-acq@pec.intercom.it

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