

SCR 986 - Phase VI - AGRO-INDUSTRY
Completion of the Rehabilitation of Harir Fruit Processing Plant - Erbil Governorate

ITEM CODE	DESCRIPTION	Quantity	Unit of measurement
01-09-00001	Washing unit: for washing and eventual sorting of fruits. Universal machine with stainless steel mesh conveyor.	1	Item
01-09-00002	Water recycling and filtering group: made in stainless steel. Consisting of: a centrifugal pump with delayed impeller suitable to suck water with leaves and other suspended coarse materials; a rotating drum filtering system with continuous elimination of the removed coarse material; storage tank for filtered and reintegration water; pump for clean water which can also be used for fruit transport during the pre-washing phase. Spare parts	1	Item
01-09-00003	Elevator: universal unit for transport in elevation of fruit and vegetables. Spare parts	1	Item
01-09-00004	Chopper: Machine suitable for a fine chopping of different fruit such as apples, pears, peaches, apricots as well as vegetables. Spare parts	1	Item
01-09-00005	Expeller: Pitter with rotating drum for the treatment of peaches, apricots and plums. The parts in contact with the product are in stainless steel and special food grade rubber. Spare parts	1	Item
01-09-00006	Screw conveyor: having a "U" cross section suited for the removal of waste material. All stainless steel construction with appropriate width and length. Spare parts	1	Item
01-09-00007	Pulper: single stage device with interchangeable screens, for particularly heavy pulping, refining and pitting operations of ripe, pre-chopped or cooked fruits. All parts in contact with the products made in stainless steel. Spare parts	1	Item
01-09-00008	Small tank: for adjusting product acidity. Made in stainless steel AISI 304. Spare parts	1	Item
01-09-00009	120 liters tank: made in stainless steel AISI 304 with sloped bottom, fitted with level regulator for the automatic start up and stop of a service pump. Spare parts	1	Item
01-09-00010	Sanitary volumetric pump: manufactured in stainless steel, suitable for food products, for heads up to 4.5 bar. Positive pump single screw type with stainless steel screw rotor and food synthetic rubber stator. Driven by mechanical speed reducer adjustable by hand-wheel. Speed reducer coupled in-line with joint. Spare parts	1	Item
01-09-00011	Cooker: continuous cooker for prechopped fruit and vegetables. Heating by direct or indirect steam. Capacity 3 T/h. Spare parts	1	Item
01-09-00012	Pulper: single stage device of big capacity and particular sturdiness. Equipped with interchangeable screens, for particularly heavy pulping, refining and pitting operations of ripe, pre-chopped or cooked fruits. All parts in contact with the products made in stainless steel. Spare parts	1	Item
01-09-00013	120 liters tank: made in stainless steel AISI 304 with sloped bottom, fitted with level regulator for the automatic start up and stop of a service pump. Spare parts	1	Item
01-09-00014	Sanitary volumetric pump: manufactured in stainless steel, suitable for food products, for heads up to 4.5 bar. Positive pump single screw type with stainless steel screw rotor and food synthetic rubber stator. Driven by mechanical speed reducer adjustable by hand-wheel. Speed reducer coupled in-line with joint. Spare parts	1	Item
01-09-00015	3,000 liters sterile tank: high rate sanitary mixing tank, manufactured in stainless steel AISI 304. Sloped cap with manhole, vertical eccentric agitator, level indicator and air valve, sanitation ball placed inside the tank, draining pipe with ball tap. Spare parts	1	Item
01-09-00016	Sanitary volumetric pump: manufactured in stainless steel, suitable for food products, for heads up to 4.5 bar. Positive pump single screw type with stainless	1	Item

	steel screw rotor and food synthetic rubber stator. Driven by mechanical speed reducer adjustable by hand-wheel. Speed reducer coupled in-line with joint. Spare parts		
01-09-00017	Sanitary volumetric pump: manufactured in stainless steel,suitable for food products, for heads up to 4.5 bar. Positive pump single screw type with stainless steel screw rotor and food synthetic rubber stator. Driven by mechanical speed reducer adjustable by hand-wheel. Speed reducer coupled in-line with joint. Spare parts	1	Item
01-09-00018	Deaerator: Unit for the elimination air incorporated in the products by nebulization under vacuum. The aromatic steams are condensed and newly incorporated directly in the product by means of a recovery device supplied with the machine. Spare parts	1	Item
01-09-00019	Electric board: made in stainless steel, with door in order to allow a complete internal inspection. The unit has to include main automatic switch, on/off switches, warning lights, automatic overload cutout to protect the motors. Spare parts	1	Item
01-09-00020	Fittings: Accessories, connections, taps, valves, piping, joints, etc. made in stainless steel; working platforms. Spare parts	1	Set
01-09-00021	Laboratory Equipment: to complete existing equipment. Including Spare parts	1	Set
01-09-00022	Laboratory Glass and material: for routine analysis.	1	Set
01-09-00023	Laboratory Chemicals: for routine analysis.	1	Set
01-09-00024	Cold store refrigerating unit: for temporary storage of 250ml Tetra Pack containers. Local unit type to the service of existing cold store. Equipped with compressor, evaporator, piping, fittings; electric control board with thermostat, electronic control programming device. Spare parts.	1	Set
01-09-00025	Air Compressor: single/double stage reciprocating air compressor. Oil free-moisture free. Complete with gauges, tools, safety devices, motor, drive accessories, guards. Capacity 1000 NI/min. Equipped with high pressure air tanks (2) and gauges, valves (safety , operating, check, control and pressure reducing valves), moisture and oil traps, union flanges, supports etc. Spare parts.	3	Item

HARIR FRUIT PROCESSING PLANT - Miscellaneous equipment and material

01-09-00026	Water Filtration Group: to treat 20 m3/h of raw water. The treated water, with a hardness below 20° F will be temporarily stored and then delivered to the utilities. The following is required: Dosing unit for hypochlorite with tank, dosing pump and pulse sender; stainless steel multi-plug filter; buffer tank for pre-filtered water; antiacid level probe; PVC pneumatic valve; No. 2 stainless steel pumps; valve manoeuvring rack; quartzite filter; No. 2 automatic softners; tank for brine; ejector; No. 2 flow-metrers; No. 1 pulse counter; No. 1 kit for hardness determination; No. 2 skids; No. 2 tank (20,000 L/each) with pump and control level device; Electric control board. Spare parts.	1	Item
01-09-00027	Fork Lift: battery operated truck to move/shift/lift 2 tons palletized load and to stack the pallets at 3.2 m (3 high). It has to be designed for short turning radius. A double set of battery and a battery charger should form part of the supply. Spare parts.	1	Item
01-09-00028	Car: type pickup, 4WD double cabinet, petrol engine, 2700 cc, LHD, complete with accessories, radio and air conditioner. Spare parts.	2	Item

01-09-00029	Hydrogen peroxide: sterilizer for detartarization tanks, 200 L aseptic container and 250 ml Tetra Pack bricks. Concentration 130 Vol.	1,500	Liter
01-09-00030	Bentonite: Pure granulate bentonite, softly alcaline, ivory color for grape juice pre-treatment. Main characteristics should be: Ph 8.5 to 9.5; Specific weight 0.96 to 1.01; Viscosity 120 to 150 "Centipois grade" in 5% solution; heavy metals, up to soluble sodium 1 to 1.2% and calcium 1.5%; protein absorption rate, over 55%; swelling in water (2%) from 30 to 35 ml.	1,000	Kg
01-09-00031	Sodium hypochlorite: for water treatment purpose. Concentration 10%.	2,000	Liter
01-09-00032	Packaging material: 840g net content metallic cans, lithographed, 4 colors. Dimension about 99x119mm.	600,000	Unit