SCR 986 - Phase VI - OSRO/IRQ/903/DHA No.2 AGRO-INDUSTRY Rehabilitation of Erbil Baby-Food Processing Plant - Erbil Governorate

Code	Item Description	Quantity	Unit
	ERBIL BABY-FOOD PROCESSING PLANT - Carrot puree preparation	line (500 Kg/h)	
01-14-00001	Elevator: Inclined belt conveyor manufactured in food grade synthetic	1	Item
	rubber with stainless steel buckets and hopper.		
01-14-00002	Rotating washer: equipped with showers and rubbing facilities for	1	Item
	tubers.		
01-14-00003	Rotating washer: equipped with showers.	2	Item
01-14-00004	Sorting device for carrot tipping. Equipped with belt conveyor made in	1	Item
01 14 00007	appropriate food degree rubber and speed variator.	1	Τ.
01-14-00005	Abrasion peeling system for tubers and carrots, particularly.	1	Item
01-14-00006	Sorting line for tubers. Equipped with belt conveyor made in appropriate food grade rubber and speed variator.	1	Item
01-14-00007	Bucket elevator: inclined belt conveyor made in food grade synthetic	1	Item
01-14-00007	rubber and with stainless steel buckets.	1	Hem
01-14-00008	Chopper: suitable to achieve a thin chopping of carrots by means of the	1	Item
01-14-00000	combined action of different tools.	1	Item
01-14-00009	Continuous cooker: thermobreack type, suitable for prechopped fruit	1	Item
	baby-food products, particularly. Thermomechanic process using direct	_	
	and/or indirect steam.		
01-14-00010	120 L tank: made in stainless steel AISI 304. Sloped bottom type, fitted	1	Item
	with level regulator for the automatic start up and stop of the service		
	pump		
01-14-00011	Volumetric pump: manufactured in stainless steel. Positive pump, with	1	Item
	stainless steel screw rotor and food grade synthetic rubber stator. Driven		
01 14 00012	by mechanical speed variator.	2	T.
01-14-00012	Pulper: with beaters and sieve to process carrots. Equipped with hopper	2	Item
01 14 00012	and screw, washing device, sieve pushing cover.	4	T4
01-14-00013	200 L tank with wheels	1	Item
01-14-00014	Electric control board: made in stainless steel and including main automatic switch, on/off switches, warning lights, automatic overload	1	Item
	cutout to protect the motors. Complete with electromechanical		
	programming device suitable for automatic production processes.		
01-14-00015	Fittings: Accessories, connections, taps, valves, piping, joints, etc. made	1	Set
01 11 00010	in stainless steel; working platforms.	-	200
ERBIL BAB	Y-FOOD PROCESSING PLANT - Additional machine for leafy vegetable	les (capacity up t	o 500 Kg/h)
01-14-00016	Sorting line: for washing vegetables (leaves), with belt conveyor made	1	Item
	in PVC. Lateral plans for cut and selection, cleaning system, working		
	table, stairs and footboards.		
01-14-00017	Drum separator: to discharge wastes and other materials. Equipped	1	Item
	with rain washing system.		
01-14-00018	Washing device: with belt elevator, blower air distribution system, water	1	Item
	recycling pump, brushes and showers		
01-14-00019	Washing device: like above and complete with steam injector, valves	1	Item
01.14.00026	and manual steam regulator with thermometer.		T.
01-14-00020	Disk cutter with belt ocnveyor: to receive the leaves and cut them in	1	Item
01 14 00021	order to reduce the volume.	1	T,
01-14-00021	Screw conveyor: to collect the cutted leaves	1	Item
01-14-00022	200 L tank: with wheels	4	Item

Code	Item Description	Quantity	Unit
01-14-00023	Electric control board: made in stainless steel and including main	1	Item
	automatic switch, on/off switches, warning lights, automatic overload		
	cutout to protect the motors.		
01-14-00024	Fittings: Accessories, connections, taps, valves, piping, joints, etc. made	1	Set
	in stainless steel; working platforms.		
	ERBIL BABY-FOOD PROCESSING PLANT - Meat cooking line (cape	ucity 500 Kg/h)	
01-14-00025	200 L Batch pans on wheels, with earthed up scale	5	Item
01-14-00026	Graund scale: capacity up to 500 KG	1	Item
01-14-00027	Lifter: to lift/tilt the pans into the cooking kettles.	2	Item
01-14-00028	Up to 800 L cooking kettles: fixed type. Equipped with special stirrer	2	Item
	for baby-food. Manufactured in stainlees steel AISI 304. Fittings and		
	valves.		
01-14-00029	Water group: automatic dosing group up to 10000L/h	2	Item
01-14-00030	Scaffolding: structure to support processing equipment. Made in	1	Set
	stainless steel, aluminium and carbon steel.		
01-14-00031	Electric control board: made in stainless steel and including main	1	Item
	automatic switch, on/off switches, warning lights, automatic overload		
	cutout to protect the motors. Complete with electromechanical		
	programming device suitable for automatic production processes.		
01-14-00032	Fittings: Accessories, connections, taps, valves, piping, joints, etc. made	1	Set
	in stainless steel; working platforms.		
ERBIL BABY	7-FOOD PROCESSING PLANT - Mixing line: puree, sugar syrup,		
micro-nutrier			
01-14-00033	Pneumatic pumps: to transfer thick and viscous liquids from aseptic	2	Item
	aluminium bags to the stocking tank. Made in stainless steel AISI 304.		
01-14-00034	1000 L mixing tank: made in stainless steel AISI 304. Equipped with:	2	Item
	slow eccentric stirrer, level indicator with transparent pipe, all required		
	fittings.		
01-14-00035	Volumetric pump: manufactured in stainless steel. Positive pump, with	2	Item
	stainless steel screw rotor and food grade synthetic rubber stator. Driven		
	by mechanical speed variator.		
01-14-00036	Water group: automatic dosing group up to 10000L/h	1	Item
01-14-00037	1000 L mixing tank: made in stainless steel AISI 304. Equipped with:	1	Item
	slow eccentric stirrer, level indicator with transparent pipe, all required		
	fittings.		
01-14-00038	Scaffolding: structure to support processing equipment. Made in	1	Set
	stainless steel, aluminium and carbon steel.		
01-14-00039	Volumetric pump: manufactured in stainless steel. Positive pump, with	1	Item
	stainless steel screw rotor and food grade synthetic rubber stator. Driven		
	by mechanical speed variator. Filtering group is included.		
01-14-00040	Dosing preparation group: for baby-food product. Consisting of steril	1	Item
	mixing tank fitted with magnetic sensors for presetting the weighing		
	cycle.		
01-14-00041	Electro-pneumatic valve group: equipped with filter and by-pass to	1	Item
	intercept the water flux in order to feed, in appropriate way, the dosing		
	preparation group.		
01-14-00042	Heating/cooling tank: made in stainless steel AISI 304.	2	Item
	Thermoinsulated tank equipped with plate excenger to heat or cool the		
	product by means of steam or water circulation; cover, eccentric stirrer.		
01-14-00043	Centrifugal pumps: made in stainlees steel 316, coupled with motor.	2	Item
01-14-00044	200 L plastic tank: for mixing purpose.	1	Item
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Code	Item Description	Quantity	Unit
01-14-00045	Centrifugal pump: made in stainlees steel 316, coupled with motor.	1	Item
	Equipped with filtering group.		
01-14-00046	Hot water preparation system	1	Item
01-14-00047	Heated table: made in stainless steel AISI 304. Equipped with plates for hetaing/cooling product like butter	1	Item
01-14-00048	Butter fuser: of adequate capacity	1	Item
01-14-00049	200 L tank: with wheels.	2	Item
01-14-00050	Electric control board: made in stainless steel and including main automatic switch, on/off switches, warning lights, automatic overload cutout to protect the motors. Complete with electromechanical programming device suitable for automatic production processes.	1	Item
01-14-00051	Fittings: Accessories, connections, taps, valves, piping, joints, etc. made	1	Set
	in stainless steel; working platforms.		
	ERBIL BABY-FOOD PROCESSING PLANT - Mixing Lin	ie	
01-14-00052	600 L heated mixing tank: made in stainless steel AISI 304. Equipped with: slow eccentric stirrer, level indicator with transparent pipe, all required fittings.	2	Item
01-14-00053	Volumetric pump: manufactured in stainless steel. Positive pump, with stainless steel screw rotor and food grade synthetic rubber stator. Driven by mechanical speed variator.	2	Item
01-14-00054	Colloidal mill: for fine grinding and homogenizing baby-food product, particularly.	2	Item
01-14-00055	600 L heated mixing tank: made in stainless steel AISI 304. Equipped with: special stirrer for baby-food, level indicator with transparent pipe, all required fittings.	1	Item
01-14-00056	Volumetric pump: manufactured in stainless steel. Positive pump, with stainless steel screw rotor and food grade synthetic rubber stator. Driven by mechanical speed variator.	1	Item
01-14-00057	Deaerator: to eliminate air incorporated into the product by nebulization under vacuum and rotating disk. The aromatic steams are condensed and re-incorporated into the product by a recovery device.	1	Item
01-14-00058	Pre-heater: Heat excenger with scraped vertical surface for heating/cooling product operations. Equipped with motor and speed variator.	1	Item
01-14-00059	Piping metal detector: to eliminate metallic particules from the product.	1	Item
01-14-00060	Double filtering group	1	Item
01-14-00061	Electric control board: made in stainless steel and including main automatic switch, on/off switches, warning lights, automatic overload cutout to protect the motors. Complete with electromechanical programming device suitable for automatic production processes.	2	Item
01-14-00062	Fittings: Accessories, connections, taps, valves, piping, joints, etc. made in stainless steel; working platforms.	1	Set
ERBIL BAB	Y-FOOD PROCESSING PLANT - Filling Line (new and/or recycled-ster 100 g.)	rile glass jars: 5	000 jars/h of
01-14-00063	Rotating table: for temporary accumulation of jars to feed filling line.	1	Item
01-14-00064	Belt conveyor: suitable for jars. Adjustable sides and speed variator.	1	Item
01-14-00065	Washer/blower: for recycled/used glass jars. 4 different steps should be provided: pre-washing, washing (hot water with detergent), rinsing (cold water) and final rinsing. Steam instrumentation and fittings. Blower for new jars.	1	Item

Code	Item Description	Quantity	Unit
01-14-00066	Ranging belt conveyor: suitable for jars. Adjustable sides and speed	1	Item
	variator.		
01-14-00067	Inspection device: for the electronic checking of the jars before filling	1	Item
	operations. The system should work by means of a camera.		
01-14-00068	Belt conveyor: suitable for jars. Adjustable sides and speed variator.	1	Item
01-14-00069	Tunnel pre-heater: to heat empty jars in order to avoid thermal choc of	1	Item
	glass jars during filling operations. Steam operated.		
01-14-00070	Volumetric filler: for baby-food. Two filling head for 100 g to 1000 g	1	Item
	jars.		
01-14-00071	Automatic capper: to close jars in a steam vacuum environment.	1	Item
	Capacity up to 6000 caps/h. Suitable to close caps type: deep twist-off,		
	regular and medium twist-off, pry-off, press-on, combo plastic-twist and		
	pry-twist. Electronic device to measure vacuum level.		
01-14-00072	Belt conveyor: suitable for jars. Adjustable sides and speed variator.	1	Item
01-14-00073	Basket loader: semi-automatic loader (for square baskets). Consisting	1	Item
	of: conveyor for basket feeding; row pusher; plastic guide to facilitate		
	moving.		
01-14-00074	Electric control board: made in stainless steel and including main	1	Item
	automatic switch, on/off switches, warning lights, automatic overload		
	cutout to protect the motors.	_	
01-14-00075	Fittings: Accessories, connections, taps, valves, piping,	1	Set
	joints, reducers, bends, tees, manual sanitary valves, pipe holders and		
	support etc. made in stainless steel to connect utilities to the process		
	equipment. Working platforms are also included.		
	ERBIL BABY-FOOD PROCESSING PLANT - Sterilization		
01-14-00076	Sterilizing autoclave: horizontal type, completely automatic. Designed	3	Item
	to cover plant requirements. Micro, mechanical and pressostatic safety		
	devices are required. Equipped with all fittings and accessories, with		
	instruments for temperature/pressure/time recording data including		
	adequate amount of recording paper, and electric-pneumatic control		
	board. Adequate amount of baskets and inserts for the baskets, made in		
	stainless steel, are required.	1:	
01 14 00077	ERBIL BABY-FOOD PROCESSING PLANT - Quarantine	1	Itam
01-14-00077	Basket unloader: semi-automatic unit for square baskets. Consisting of:	1	Item
	conveyor for layer discharging; pusher; lifting group; motor with speed variator; electric board.		
01-14-00078	Belt conveyor: suitable for jars. Adjustable sides and speed variator.	1	Item
01-14-00078	Washer/Drier unit: suitable to wash and dry filled jars before labelling.	1	Item
01-14-000/9	Equipped with thermostat to adjust themperature	1	пеш
01-14-00080	Belt conveyor: suitable for jars. Adjustable sides and speed variator.	1	Item
01-14-00080	Special device to eliminate jars with insufficient vacuum level.	1	псш
01-14-00081	Belt conveyor: suitable for jars. Adjustable sides and speed variator.	1	Item
01-14-00081	Palletizer: for filled jars. Jars will be palletized for inspection. Capacity	1	Item
01-14-00082	more than 6000 jars/h.	1	Item
01-14-00083	Electric control board: made in stainless steel and including main	1	Item
01-14-00083	automatic switch, on/off switches, warning lights, automatic overload	1	Itelli
	cutout to protect the motors.		
01-14-00084	Fittings: Accessories, connections, taps, valves, piping,	1	Set
01-14-00064	joints, reducers, bends, tees, manual sanitary valves, pipe holders and	1	SCI
	support etc. made in stainless steel to connect utilities to the process		
	equipment. Working platforms are also included.		
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Code	Item Description	Quantity	Unit
	ERBIL BABY-FOOD PROCESSING PLANT - Final packagin	g line	
01-14-00085	Depalletizer: for inspected filled jars. Capacity more than 6000 jars/h.	1	Item
01-14-00086	Belt conveyor: suitable for jars. Adjustable sides and speed variator.	1	Item
	Special device to eliminate jars with insufficient vacuum level.		
01-14-00087	Belt conveyor: suitable for jars. Adjustable sides and speed variator.	1	Item
01-14-00088	Labelling machine: automatic machine equpped with fix store, cold	1	Item
	glue. Wrapping body label on cylindrical glass containers of 100 g.		
01-14-00089	Ink jet coding machine: one head	1	Item
01-14-00090	Sleever: equipped with unroller of simple reel; retracting tunnel with	1	Set
	automatic and pneumatic raising. Including consumable material for		
	sleever for one year of operation.		
01-14-00091	Belt conveyor: for cartoning	1	Item
01-14-00092	Roller: Non motorized roller system	1	Item
01-14-00093	Rotating table: for temporary accumulation of jars.	1	Item
01-14-00094	Electric control board: made in stainless steel and including main	1	Item
	automatic switch, on/off switches, warning lights, automatic overload		
	cutout to protect the motors.		
01-14-00095	Fittings: Accessories, connections, taps, valves, piping,	1	Set
	joints, reducers, bends, tees, manual sanitary valves, pipe holders and		
	support etc. made in stainless steel to connect utilities to the process		
	equipment. Working platforms are also included.		
01.11.00005	ERBIL BABY-FOOD PROCESSING PLANT - C.I.P. Washing	system	
01-14-00096	CIP station: Cleaning-in-place station suitable to wash by means of hot	1	Item
	basic detergent (75°C), hot acid detergent (60°C) and to rinse by means		
	of water with economizer. Equipped with two thermo-insulated mixing		
	tanks; water economizing tank; pressure pump; system to heat basic and acid detergent, adjust its concentration and recover the detergent;		
	distribution pneumatic valves operated by programmer; electric control		
	board with synoptic display.		
01-14-00097	Centrifugal pump: coupled with electric motor. Made in stainless steel	5	Item
01-14-00077	AISI 316	3	Item
01-14-00098	Hydrocleaner: movable group working with hot water (170 bar up to	2	Item
	85°C) or steam (50 bar up to 150°C). Equipped with pressure pump,		
	burner, spraying gun and pipe.		
01-14-00099	Fittings: Accessories, connections, taps, valves, piping,	1	Set
	joints, reducers, bends, tees, manual sanitary valves, pipe holders and		
	support etc. made in stainless steel to connect utilities to the process		
	equipment.		
	ERBIL BABY-FOOD PROCESSING PLANT - Miscellaneous equipme	nt and material	
01-14-00100	Twenty tons weighbridge: supplied with recorded weighting card for	1	Item
	gross weight and empty truck.		
01-14-00101	Floor scale: to weigh raw material, ingredients and finished products.	3	Item
	Capacity Kg 1000, division 500 g.		
01-14-00102	Scale to weigh ingredients: capacity 100, division 500 g	1	Item
01-14-00103	Trans-pallet: Hydraulic, manually operated, portable trolley to lift,	2	Unit
	move and shift up to 1.5 ton load on pallets. Manufactured with two		
	fixed and one swivel wheel, hydraulic pump, oil.		
01-14-00104	Fork lift: battery operated truck to move/shift/lift three tons of palletized	1	Item
	load and to stack the pallets at 3.2 m (4 height). Short turn in radius type.		
	Equipped with double set of battery and battery re-charger.		

Oli-14-00105 Mechanical tool box with: pliers, pincers, hammers, hacksaw, spanners (ring and open), adjustable wrenches, vice, screw drivers, torque wrench, hole punch, gasket cutter, flaring tools, grease guns.	Code	Item Description	Quantity	Unit
hole punch, gasket cutter, flaring tools, grease guns.	01-14-00105		2	Set
Diright Diri		(ring and open), adjustable wrenches, vice, screw drivers, torque wrench,		
ammeter, tong tester, lamp tester, fuse coil, connectors, lugs terminals, hacksaw, portable drilling machine. 01-14-00107 Plumber tool box with: wrenches, BSP dies, tools from 12 to 100 mm, gasket cutter, pipe cutter, hacksaw, pipe chain, vice, Teflon tape. 01-14-00108 Office furniture and equipment: Desk, chairs, cabinet, calculator, photocopier, fax machine, stationary, etc 01-14-00109 Administrative and marketing data processing equipment: Computer type Pentium II equipped with accumulator/stabilizer, printer and adequate programs. 01-14-00110 Detergent: Adequate amount of detergent for, CIP station, sanitary movable machine, and in particular: acidic disinfectant based on hydrogen peroxide and parasitic acid (P3-oxonia active 30); acidic disinfectant based on inorganic acid-phosphoric- and inhibitors of corrosion (P3-PE4 special A); detergent based on caustic alkalis, special polyphosphates and organic sequestrates (P3-super CS); and as well specific detergent required for baby food equipment and materials. 01-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. 01-14-00112 Seasoned wooden pallets: for mechanical handling of cartons, raw material crates and finished products. 01-14-00113 Packaging material: 100 g glass jars with lids (two colors). 3,000 1,000 pack 01-14-00114 Packaging material: labels for several products 3,000 1,000 pack 01-14-00115 Micro-nutrients: starch 2,000 Kg. 01-14-00116 Micro-nutrients: L-ascorbic acid 1,000 Kg. 01-14-00117 Micro-nutrients: Poly-vitaminic compound 250 Kg. 01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with		hole punch, gasket cutter, flaring tools, grease guns.		
hacksaw, portable drilling machine. 12 to 100 mm, gasket cutter, pipe cutter, hacksaw, pipe chain, vice, Teflon tape. 01-14-00108 Office furniture and equipment: Desk, chairs, cabinet, calculator, photocopier, fax machine, stationary, etc 01-14-00109 Administrative and marketing data processing equipment: Computer type Pentium II equipped with accumulator/stabilizer, printer and adequate programs. 01-14-00110 Detergent: Adequate amount of detergent for, CIP station, sanitary movable machine, and in particular: acidic disinfectant based on hydrogen peroxide and parasitic acid (P3-oxonia active 30); acidic disinfectant based on inorganic acid-phosphoric- and inhibitors of corrosion (P3-PE4 special A); detergent based on caustic alkalis, special polyphosphates and organic sequestrates (P3-super CS); and as well specific detergent required for baby food equipment and materials. 01-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. 400 Kg.	01-14-00106		2	Set
Plumber tool box with: wrenches, BSP dies, tools from 12 to 100 mm, gasket cutter, pipe cutter, hacksaw, pipe chain, vice, Teflon tape. Set				
12 to 100 mm, gasket cutter, pipe cutter, hacksaw, pipe chain, vice, Teflon tape. Office furniture and equipment: Desk, chairs, cabinet, calculator, photocopier, fax machine, stationary, etc O1-14-00109 Administrative and marketing data processing equipment: Computer type Pentium II equipped with accumulator/stabilizer, printer and adequate programs. O1-14-00110 Detergent: Adequate amount of detergent for, CIP station, sanitary movable machine, and in particular: acidic disinfectant based on hydrogen peroxide and parasitic acid-phosphoric- and inhibitors of corrosion (P3-PE4 special A); detergent based on caustic alkalis, special polyphosphates and organic sequestrates (P3-super CS); and as well specific detergent required for baby food equipment and materials. O1-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. O1-14-00112 Seasoned wooden pallets: for mechanical handling of cartons, raw material crates and finished products. O1-14-00113 Packaging material: 100 g glass jars with lids (two colors). O1-14-00114 Packaging material: labels for several products O1-14-00115 Micro-nutrients: starch O1-14-00117 Micro-nutrients: L-ascorbic acid O1-14-00118 Micro-nutrients: Poly-vitaminic compound Cartons: of adequate size to pack 80 to 100 jars (in two layers), with O1-000 Date and material, and pack and parasitic acid on the products of adequate size to pack 80 to 100 jars (in two layers), with				
Teflon tape. Office furniture and equipment: Desk, chairs, cabinet, calculator, photocopier, fax machine, stationary, etc O1-14-00109 Administrative and marketing data processing equipment: Computer type Pentium II equipped with accumulator/stabilizer, printer and adequate programs. O1-14-00110 Detergent: Adequate amount of detergent for, CIP station, sanitary movable machine, and in particular: acidic disinfectant based on hydrogen peroxide and parasitic acid (P3-oxonia active 30); acidic disinfectant based on inorganic acid-phosphoric- and inhibitors of corrosion (P3-PE4 special A); detergent based on caustic alkalis, special polyphosphates and organic sequestrates (P3-super CS); and as well specific detergent required for baby food equipment and materials. O1-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. O1-14-00112 Seasoned wooden pallets: for mechanical handling of cartons, raw material crates and finished products. O1-14-00113 Packaging material: 100 g glass jars with lids (two colors). O1-14-00114 O1-14-00115 Micro-nutrients: starch O1-14-00116 Micro-nutrients: citric acid O1-14-00117 Micro-nutrients: L-ascorbic acid O1-14-00118 Micro-nutrients: Poly-vitaminic compound Cartons: of adequate size to pack 80 to 100 jars (in two layers), with Office furnitare and equipment: Computer of printer and adequate programs. O1-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with	01-14-00107		2	Set
Office furniture and equipment: Desk, chairs, cabinet, calculator, photocopier, fax machine, stationary, etc				
photocopier, fax machine, stationary, etc 01-14-00109		1		
Administrative and marketing data processing equipment: Computer type Pentium II equipped with accumulator/stabilizer, printer and adequate programs. 1	01-14-00108		1	Set
type Pentium II equipped with accumulator/stabilizer, printer and adequate programs. 01-14-00110 Detergent: Adequate amount of detergent for, CIP station, sanitary movable machine, and in particular: acidic disinfectant based on hydrogen peroxide and parasitic acid (P3-oxonia active 30); acidic disinfectant based on inorganic acid-phosphoric- and inhibitors of corrosion (P3-PE4 special A); detergent based on caustic alkalis, special polyphosphates and organic sequestrates (P3-super CS); and as well specific detergent required for baby food equipment and materials. 01-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. Seasoned wooden pallets: for mechanical handling of cartons, raw material crates and finished products. 01-14-00113 Packaging material: 100 g glass jars with lids (two colors). 3,000 1,000 pack 01-14-00114 Packaging material: labels for several products 3,000 1,000 pack 01-14-00115 Micro-nutrients: starch 2,000 Kg. 01-14-00117 Micro-nutrients: L-ascorbic acid 1,000 Kg. 01-14-00118 Micro-nutrients: Poly-vitaminic compound 250 Kg. 01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with				
adequate programs. O1-14-00110 Detergent: Adequate amount of detergent for, CIP station, sanitary movable machine, and in particular: acidic disinfectant based on hydrogen peroxide and parasitic acid (P3-oxonia active 30); acidic disinfectant based on inorganic acid-phosphoric- and inhibitors of corrosion (P3-PE4 special A); detergent based on caustic alkalis, special polyphosphates and organic sequestrates (P3-super CS); and as well specific detergent required for baby food equipment and materials. O1-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. O1-14-00112 Seasoned wooden pallets: for mechanical handling of cartons, raw material crates and finished products. O1-14-00113 Packaging material: 100 g glass jars with lids (two colors). O1-14-00114 Packaging material: labels for several products O1-14-00115 Micro-nutrients: starch O1-14-00116 Micro-nutrients: citric acid O1-14-00117 Micro-nutrients: L-ascorbic acid O1-14-00118 Micro-nutrients: Poly-vitaminic compound Cartons: of adequate size to pack 80 to 100 jars (in two layers), with O1-01-01-01-01-01-01-01-01-01-01-01-01-01	01-14-00109		1	Set
Detergent: Adequate amount of detergent for, CIP station, sanitary movable machine, and in particular: acidic disinfectant based on hydrogen peroxide and parasitic acid (P3-oxonia active 30); acidic disinfectant based on inorganic acid-phosphoric- and inhibitors of corrosion (P3-PE4 special A); detergent based on caustic alkalis, special polyphosphates and organic sequestrates (P3-super CS); and as well specific detergent required for baby food equipment and materials. O1-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. 400 Kg.		type Pentium II equipped with accumulator/stabilizer, printer and		
movable machine, and in particular: acidic disinfectant based on hydrogen peroxide and parasitic acid (P3-oxonia active 30); acidic disinfectant based on inorganic acid-phosphoric- and inhibitors of corrosion (P3-PE4 special A); detergent based on caustic alkalis, special polyphosphates and organic sequestrates (P3-super CS); and as well specific detergent required for baby food equipment and materials. 01-14-00111				
hydrogen peroxide and parasitic acid (P3-oxonia active 30); acidic disinfectant based on inorganic acid-phosphoric- and inhibitors of corrosion (P3-PE4 special A); detergent based on caustic alkalis, special polyphosphates and organic sequestrates (P3-super CS); and as well specific detergent required for baby food equipment and materials. 01-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. 400 Kg. 01-14-00112 Seasoned wooden pallets: for mechanical handling of cartons, raw material crates and finished products. 01-14-00113 Packaging material: 100 g glass jars with lids (two colors). 3,000 1,000 pack 01-14-00114 Packaging material: labels for several products 3,000 1,000 pack 01-14-00115 Micro-nutrients: starch 2,000 Kg. 01-14-00116 Micro-nutrients: citric acid 1,000 Kg. 01-14-00117 Micro-nutrients: L-ascorbic acid 1,000 Kg. 01-14-00118 Micro-nutrients: Poly-vitaminic compound 250 Kg. 01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with 10,000 Unit	01-14-00110		1	Set
disinfectant based on inorganic acid-phosphoric- and inhibitors of corrosion (P3-PE4 special A); detergent based on caustic alkalis, special polyphosphates and organic sequestrates (P3-super CS); and as well specific detergent required for baby food equipment and materials. O1-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. Seasoned wooden pallets: for mechanical handling of cartons, raw material crates and finished products. O1-14-00113 Packaging material: 100 g glass jars with lids (two colors). O1-14-00114 Packaging material: labels for several products O1-14-00115 Micro-nutrients: starch O1-14-00116 Micro-nutrients: citric acid O1-14-00117 Micro-nutrients: L-ascorbic acid O1-14-00118 Micro-nutrients: Poly-vitaminic compound O1-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with O1-000 Kg.				
corrosion (P3-PE4 special A); detergent based on caustic alkalis, special polyphosphates and organic sequestrates (P3-super CS); and as well specific detergent required for baby food equipment and materials. O1-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. O1-14-00112 Seasoned wooden pallets: for mechanical handling of cartons, raw material crates and finished products. O1-14-00113 Packaging material: 100 g glass jars with lids (two colors). O1-14-00114 Packaging material: labels for several products O1-14-00115 Micro-nutrients: starch O1-14-00116 Micro-nutrients: citric acid O1-14-00117 Micro-nutrients: L-ascorbic acid O1-14-00118 Micro-nutrients: Poly-vitaminic compound Cartons: of adequate size to pack 80 to 100 jars (in two layers), with O1-000 Kg.				
polyphosphates and organic sequestrates (P3-super CS); and as well specific detergent required for baby food equipment and materials. 01-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. 01-14-00112 Seasoned wooden pallets: for mechanical handling of cartons, raw material crates and finished products. 01-14-00113 Packaging material: 100 g glass jars with lids (two colors). 01-14-00114 Packaging material: labels for several products 01-14-00115 Micro-nutrients: starch 01-14-00116 Micro-nutrients: citric acid 01-14-00117 Micro-nutrients: L-ascorbic acid 01-14-00118 Micro-nutrients: Poly-vitaminic compound 01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with 01-000 Kg.				
specific detergent required for baby food equipment and materials. O1-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. O1-14-00112 Seasoned wooden pallets: for mechanical handling of cartons, raw material crates and finished products. O1-14-00113 Packaging material: 100 g glass jars with lids (two colors). O1-14-00114 Packaging material: labels for several products O1-14-00115 Micro-nutrients: starch O1-14-00116 Micro-nutrients: citric acid O1-14-00117 Micro-nutrients: L-ascorbic acid O1-14-00118 Micro-nutrients: Poly-vitaminic compound O1-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with O1-000 Kg.				
01-14-00111 Glue: Adequate amount of glue for carton (packing) and labels. 400 Kg. 01-14-00112 Seasoned wooden pallets: for mechanical handling of cartons, raw material crates and finished products. 300 Unit 01-14-00113 Packaging material: 100 g glass jars with lids (two colors). 3,000 1,000 pack 01-14-00114 Packaging material: labels for several products 3,000 1,000 pack 01-14-00115 Micro-nutrients: starch 2,000 Kg. 01-14-00116 Micro-nutrients: citric acid 1,000 Kg. 01-14-00117 Micro-nutrients: L-ascorbic acid 1,000 Kg. 01-14-00118 Micro-nutrients: Poly-vitaminic compound 250 Kg. 01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with 10,000 Unit				
O1-14-00112 Seasoned wooden pallets: for mechanical handling of cartons, raw material crates and finished products. 300 Unit 01-14-00113 Packaging material: 100 g glass jars with lids (two colors). 3,000 1,000 pack 01-14-00114 Packaging material: labels for several products 3,000 1,000 pack 01-14-00115 Micro-nutrients: starch 2,000 Kg. 01-14-00116 Micro-nutrients: citric acid 1,000 Kg. 01-14-00117 Micro-nutrients: L-ascorbic acid 1,000 Kg. 01-14-00118 Micro-nutrients: Poly-vitaminic compound 250 Kg. 01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with 10,000 Unit		· · · · · · ·		
01-14-00113 Packaging material: 100 g glass jars with lids (two colors). 3,000 1,000 pack 01-14-00114 Packaging material: labels for several products 3,000 1,000 pack 01-14-00115 Micro-nutrients: starch 2,000 Kg. 01-14-00116 Micro-nutrients: citric acid 1,000 Kg. 01-14-00117 Micro-nutrients: L-ascorbic acid 1,000 Kg. 01-14-00118 Micro-nutrients: Poly-vitaminic compound 250 Kg. 01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with 10,000 Unit	01-14-00111	, , , ,	400	Kg.
01-14-00113 Packaging material: 100 g glass jars with lids (two colors). 3,000 1,000 pack 01-14-00114 Packaging material: labels for several products 3,000 1,000 pack 01-14-00115 Micro-nutrients: starch 2,000 Kg. 01-14-00116 Micro-nutrients: citric acid 1,000 Kg. 01-14-00117 Micro-nutrients: L-ascorbic acid 1,000 Kg. 01-14-00118 Micro-nutrients: Poly-vitaminic compound 250 Kg. 01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with 10,000 Unit	01-14-00112	Seasoned wooden pallets: for mechanical handling of cartons, raw	300	Unit
01-14-00114 Packaging material: labels for several products 3,000 1,000 pack 01-14-00115 Micro-nutrients: starch 2,000 Kg. 01-14-00116 Micro-nutrients: citric acid 1,000 Kg. 01-14-00117 Micro-nutrients: L-ascorbic acid 1,000 Kg. 01-14-00118 Micro-nutrients: Poly-vitaminic compound 250 Kg. 01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with 10,000 Unit				
01-14-00115 Micro-nutrients: starch 2,000 Kg. 01-14-00116 Micro-nutrients: citric acid 1,000 Kg. 01-14-00117 Micro-nutrients: L-ascorbic acid 1,000 Kg. 01-14-00118 Micro-nutrients: Poly-vitaminic compound 250 Kg. 01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with 10,000 Unit	01-14-00113			
01-14-00116 Micro-nutrients: citric acid 1,000 Kg. 01-14-00117 Micro-nutrients: L-ascorbic acid 1,000 Kg. 01-14-00118 Micro-nutrients: Poly-vitaminic compound 250 Kg. 01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with 10,000 Unit				
01-14-00117 Micro-nutrients: L-ascorbic acid 1,000 Kg. 01-14-00118 Micro-nutrients: Poly-vitaminic compound 250 Kg. 01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with 10,000 Unit		Micro-nutrients: starch	2,000	Kg.
01-14-00118Micro-nutrients: Poly-vitaminic compound250Kg.01-14-00119Cartons: of adequate size to pack 80 to 100 jars (in two layers), with10,000Unit	01-14-00116	Micro-nutrients: citric acid	1,000	Kg.
01-14-00119 Cartons: of adequate size to pack 80 to 100 jars (in two layers), with 10,000 Unit	01-14-00117	Micro-nutrients: L-ascorbic acid	1,000	Kg.
	01-14-00118	Micro-nutrients: Poly-vitaminic compound	250	Kg.
sanarator	01-14-00119	Cartons: of adequate size to pack 80 to 100 jars (in two layers), with	10,000	Unit
Separator.		separator.		
01-14-00120 Polyethylene wrapping material: for pallets 2,000 Rolls	01-14-00120	Polyethylene wrapping material: for pallets	2,000	Rolls
ERBIL BABY-FOOD PROCESSING PLANT - Laboratory		, , ,	y	•
01-14-00121 Equipment: No. 4 s.s. Refractometers from 0 to 35 and from 40 to 80 1 Set	01-14-00121	Equipment: No. 4 s.s. Refractometers from 0 to 35 and from 40 to 80	1	Set
B; No.1 s.s. Refracolor refractometer 0 to 50; No. 1 Unirefrex				
refractometer; No. 1 Reflexometer; No.1 essential oil distiller; No.1 glass		refractometer; No. 1 Reflexometer; No.1 essential oil distiller; No.1 glass		
miniconcentrator complete Rotavapor; No.1 analytical electronic scale,				
80 g capacity and with a sensitivity of 1/tenth of mmg, digital reading;		80 g capacity and with a sensitivity of 1/tenth of mmg, digital reading;		
No.1 table centrifuge up to 5300 rpm, and equipped with 24 test-tubes of				
10 cc each; No.1 Bricktester for testing cardboard seal; No.2 hand				
vacuum-meters for testing cans; No.1 can tester for testing seaming;		vacuum-meters for testing cans; No.1 can tester for testing seaming;		
No.1 jar tester for testing caps sealing; No. 1 table pH-meter, with		No.1 jar tester for testing caps sealing; No. 1 table pH-meter, with		
microprocessor for measuring pH, mV and temperature. Standard scale		microprocessor for measuring pH, mV and temperature. Standard scale		
display; No.1 thermostatic stove; No.1 consistometer; No.1 magnetic		•		
mixer with heating plate, speed regulator and magnetic anchor; No.1		- ·		
"Aercontrol" for oxygen residue determination, No. 1 SO2 analyzer,				
No.1 complete Kit for bacteriological analyses, No. 1 distilled water				
generator; No.1 glass and material sterilizer.				

Code	Item Description	Quantity	Unit
01-14-00122	Glass: No. 1 glass kit complete of: No. 10 glasses, No. 5 flasks, No. 4	1	Set
	graduated cylinders, Burettes all in Pyrex, No. 1 Bunsen, No. 1 set of		
	Pasteur pipettes, No. 1 set of graduated pipettes, No. 2 funnels, No. 2		
	parafilm, No. 2 thermometers, No. 2 set of required glasses for		
	bacteriological analysis.		
01-14-00123	Chemicals: all required chemicals to conduct the analysis for two years.	1	Set
	ERBIL BABY-FOOD PROCESSING PLANT - Utilities syst	tem	
01-14-00124	Electric power generation: complete diesel air cooled generator unit	1	Set
	with automatic change over system in case of main power failure.		
	Pumps, piping, valves, joints, breaker, reservoir, fittings are		
	included. Capacity of 1.5 time plant requirements, but not less than 500		
	KVA.		
01-14-00125	Electrical power distribution: including transformer to step down	1	Set
	voltage to 410-420; main distribution board with incoming and outgoing		
	Switch Fuse Unit to individual plant sub-boards and to lighting etc, as		
	well as all other non-plant power consumption points; electric wiring to		
	all process equipment and non-plant power consumption points.		
	Capacitors for power factor improvement.		
01-14-00126	Compressed air system: including 2 Nos. 75% capacity single/double	1	Set
	stage reciprocating air compressors, oil-free/moisture-free; No. 1 high		
	pressure receiver of adequate pressure and volume capacity; distribution		
	material with piping, valves, drum oil traps, gauges, etc		
01-14-00127	Steam generation and distribution: complete furnace steam	1	Set
	generation/distribution and control system, using regular highway Diesel		
	as fuel. Capacity of 4,000 Tons/h,10 bar. Fire tube steam boiler with		
	horizontal body, valves, regulation and control panel, safety devices,		
	electric control panel, water feeding group with tank of adequate		
	capacity. The supply will include: heavy oil burner, water softening		
	treatment, single wall chimney in stainless steel, steam manifold and		
	distribution network, condensate recovery system.		
01-14-00128	Cooling tower system: including blowers, supports, pumps, piping,	1	Set
	joints and all required fittings adquate to recycle (150 m ³ /h).		
01-14-00129	Potable water preparation group: for water processing utilization. A	1	Set
	treatment cycle should include at least: a first rough filtration, a second		
	one with activated carbon and a final clarification. Capacity 500 L/h.		
01-14-00130	Water /steam mixing group: equipped with nozzle and complete of all	2	Set
	accessories. Working temperature of the water 20 to 70 °C.		
	BABY FOOD PROCESSING PLANT - Spare parts		
01-14-00131	Spare parts: According to the experience of the equipment	1	Lot
	manufacturer, required spare parts will be provided. Reference is made		
	to processing equipment, laboratory, utilities system and miscellaneous		
	equipment.		