Annex AGRI - 2 Enhanced Domestic Food Production

Sector: AGRICULTURE

Sub sector: VEGETABLE AND FRUIT Provision of PRODUCTION And extension

Activity: seeds seedling fertilizer

Priority within the sector: HIGH

A - CROP AND VEGETABLE SEED.

Code	Item Description and its complementary items	Intended Use	Qty in unit
05-02-00001	Sunflower seed Hybrid variety .	Production of needed seed for cooking oil (sunflowers growers in the Governorates)	500mt
05-02-00002	Cucumber Hybrid - F1	Cucumber production, both in opened and covered fields (vegetable producers in the Governorates)	50mt
05-02-00003	Tomato seed	Tomato production, both in open and covered fields (vegetable producers in the Governorates)	40mt
05-02-00004	Squash seed Hybrid - F1	Squash production in both open and covered fields (vegetable producers in the Governorates)	10mt
05-02-00005	Pepper seed	Pepper production in both open and covered fields (vegetable producers in the Governorates)	8mt

05-02-00006	Onion seed	Onion production in open field (onion producers in the Governorates)	25mt
05-02-00007	Cowpeas	Cowpeas production in open field (vegetable producers in the Governorate)	150mt
05-02-00008	Bean	Bean production in open field (vegetable producers in the Governorate)	150mt
05-02-00009	Eggplant	EggplantBrodbean (vegetable producers in the Governorate)	10mt
05-02-00010	Brodbean	Brodbean production in open field (vegetable producers in the Governorate)	50mt
05-02-00011	Water Melon	Water melon production in the open field (water melon producers in the Governorates)	30mt
05-02-00012	Different Hybrid Seed for green Houses	covered vegetable field and green houses (vegetable producers in the Governorates)	6,000,000 seeds
05-02-00013	Rape	Production of needed seed for cooking oil (sunflowers growers in the Governorates)	200mt
05-02-00014	Safflower	Production of needed seed for cooking oil (sunflowers growers in the Governorates)	200mt

05-02-00015	A) Potato seed (Super elite and elite)	To be distributed to potato breeders	5000MT
		for production of	200 MT
	B) Sourghun-sudan grass seed	class A and B seed	
		To be used for	
		forge production	

	B - FRUIT SEED AND SEEDLINGS:		
Code	Item Description and its complementary items (if applicable )	Intended Use	Qty in unit
05-02-00016	Malus Communis Seed	Stock production for production of seedling to be distributed to the farmers (orchards owners in the Governorates growing the crop)	10kg
05-02-00017	Pyrus Communis Seed	Stock production for production of seedling to be distributed to the farmers (orchards owners in the Governorates growing the crop)	10kg
05-02-00018	Prunus Cerasifera Seed	following seeding, production of stocks in specialized nurseries then seedling distribution to the farmers (orchards owners in the Governorates favorable for this type)	50kg
05-02-00019	Mauls Communes Seedling	Stock production for production of seedling to be distributed to the farmers (orchards owners in the Governorates growing the fruit)	75000seeding

05-02-00020	Pyres communes seedling	Stock production for production of seedling to be distributed to the farmers (orchards owners in the Governorates favorable for this type)	75000seeding
05-02-00021	Prunus Cerasifera Seeding	Stock production for production of seedling to be distributed to the farmers (orchards owners in the Governorates favorable for this type)	25000seeding
05-02-00022	Olive rooted-stem cutting	To install olive orchid project and serving olive producers	4000000
05-02-00023	Routing hormones powder A) IBA B) Serdex No. 3	To be used by farmer and growers of orchids	10X 1Kg 20X0.5Kg 200 X 100gm
05-02-00024	A)Pruning saw B) secateures	To be used by the state board of orchids and growers in the 15 governorates in pruning activities	200 2000
05-02-00025	Mulching polyathelene	To be used by the state board of orchids and growers in the nurseries	10 MT
05-02-00026	Black plastic sac 30 X 30 CM 15 X 30 CM seedling tray	=	20 MT 10 MT 500000 Pcs
05-02-00027	Netting shade Sheding 50% Sheding 75%	=	100000 M2 100000 M2
05-02-00028	Chessel 65 Cm 70 Cm	To be used in land preparation in the state company of orchids and growers	50 50

05-02-00029	Green houses structure	To be used by	200 houses
	500 M2 with accessorie	farmers in winter	200 houses
	180 M2 with accessories (galvanised tubes)	protected vegetable production and also	(approx. 500MT of
	(galvanised tubes)	for orchid	tubes)
		nurseries	cubes

	C - FERTILIZERS		
Code	Item Description and its complementary items (if applicable )	Intended Use	Qty in unit
05-02-00030	Di ammonium phosphate	Will be spread in different fields crops (farmers)	40000mt
05-02-00031	Potassium sulphate	Will be spread in vegetable fields both opened and covered (farmers)	5000mt
05-02-00032	Magnesium Sulphate	Will be used in vegetable fields (farmers)	100mt
50-02-00033	Ferrous Sulfate FeSo4 (Min 19-20 %)	Will be spread in vegetable fields both opened and covered (farmers)	20mt
05-02-00034	Zinc Sulfate ZnSO4 ( 35%)	Will be spread in vegetable fields both opened and covered (farmers)	20mt
05-02-00035	Micro Neturen fouler fertiliser	Will be spread in vegetable fields both opened and covered (farmers)	50mt
05-02-00036	Cupper sulphate CuSO4H2o (35 % Cu )	Will be spread in vegetable fields both opened and covered (farmers)	10mt
05-02-00037	Manganese sulphate MnSO4 3H2O ( 28 % Mn )	Will be spread in vegetable fields both opened and covered (farmers)	25mt

05-02-00038	( TSP ) Citrate and water solubility 46 % P205 .P205 soluble in water not less than 30 % Humidity 1.7 Max.	Will be spread in vegetable fields both opened and covered (farmers)	10000 mt

	D - The installation of new banana nursery		
Code	Item Description and its complementary items (if applicable )	Intended Use	Qty in unit
05-02-00039	Complete green house	For ( 5 ) ha	To install pilot project for banana plantation ( nursery )
05-02-00040	Drip irrigation unit	For ( 5 ) ha	To install pilot project for banana plantation ( nursery )
05-02-00041	Heating and cooling system	For ( 5 ) ha	To install pilot project for banana plantation ( nursery )
05-02-00042	Fibre glass for green house	For ( 5 ) ha	To install pilot project for banana plantation ( nursery )
05-02-00043	Shading net	For ( 5 ) ha	To install pilot project for banana plantation ( nursery )
05-02-00044	Tractor 33 HP with accessories		2 To install pilot project for banana plantation ( nursery )
05-02-00045	80 KVA generators		1 To install pilot project for banana plantation ( nursery )

05-02-00046	Banana seedling	12000	To install
			pilot project
			for banana
			plantation (
			nursery )

	E - 1 : Rehabilitation of the extenion senters .		
Code	Item Description and its complementary items (if applicable )	Intended Use	Qty in unit
05-02-00047	Digital Betacam SP camera complete (DXC-D30P) with portable video cassette recorder (PVV-3P).  Includes: 1.5" viewfinder; tripod adapter; rain cover; extender board and operation / maintenance manual.	2	To support the activity of the state board of extension services in the different extension centers located in the following governorates
05-02-00048	AC Adapter. (AC550CE)	4	=
05-02-00049	Battery Charger for (NI-CD) batteries (BC-1WDCE).	4	=
05-02-00050	Video Cassette recorder Betacam SP (PVW-2800P) .	2	=
05-02-00051	Video Cassette player Betacam SP (PVW-2650P) for editing .	2	=
05-02-00052	Remote Control Editor (RM-450CE), editing control unit .	1	=
05-02-00053	Color Monitor with quad decoder and standard resolution in line slot mask CRT. Digital. (CVS-37-PS) 14".	4	=
05-02-00054	(NI-CD) Batteries (NP1A).	30	=
05-02-00055	Metal type cassettes SP with 20 minute ;30 minute	150	=
05-02-00056	Cables for connections to the editing system	Round	=
05-02-00057	Dynamic microphone (NEKMIC).	4	=
05-02-00058	Video Cassette recorder V.H.S (multi-system) .	5	=

05-02-00059	Television ( multi- system) with remote control .	10	=
05-02-00060	Photograph Camer motors , auto focus . (recently) .	3	=
05-02-00061	Portable Loudspeakers operate with batteries .	5	=
05-02-00062	Portable Audio Recorder .	2	=
05-02-00063	Computer with all the accessories. (recently) .	2	=
05-02-00064	Laser Printer for teaching .	10	=
05-02-00065	Spare parts for all the Audio and Video Equipments .	Round	=
05-02-00066	Slide projector with the screens .	5	=
05-02-00067	Overhead projector with the screens .	5	=
05-02-00068	Editing Unit for Radio Programm	1	=
05-02-00069	Data Show	1	=
05-02-00070	Overhead Transparencies	10	=
05-02-00071	Field Vehicle	10	=
05-02-00072	Field Vehicle for video show	2	=
05-02-00073	Video Unit 40"	2	=
05-02-00074	Field Soil Analysis Unit	6	Kit
05-02-00075	Portable Units to measure grain humidity.	5	=
05-02-00076	Tractor mounted sprayer 400 litters .	2	=
05-02-00077	Color Photo Copying machine with a computer	1	=
05-02-00078	Electric Generator 150 K.V.	2	=
05-02-00079	Water stiles for reservoir	6	nos

	E - 2 Requirement for horticulture labrotaries		
Code	Item Description and its complementary items (if applicable )	Intended Use	Qty in unit
05-02-00079	UPVS pipes according to LSO standard7473-1979 - 110 mm Ø	For green house and Labs. Rehabilitarion	300 m
05-02-00080	aluminum pipes for RO system 15 mm Ø 20 mm Ø 25 mm ?	For green house and Labs. Rehabilitarion	20 m
05-02-00081	Fire extinguisher of capacity: 9 type ABC kg 45 on wheels type ABC kg	For green house and Labs. Rehabilitarion	24 m 200 m
05-02-00082	Supply complete vacuum system with 2 pumps each of 7 1/s discharge . The system shall contain 3001 tank , all necessary valves , gages ,switches & an electrical panel	For green house and Labs. Rehabilitarion	10 Nos 3 Nos
05-02-00083	Vacuum outlets 15 mm Ø	For green house and Labs. Rehabilitarion	1 set
05-02-00084	Complete RO system with distilled unit of total capacity 2 m3 /8h & storage capacity of 5 m3, with all necessary installations, switches, valves, gages, storage tanks, filters, piping, back washing, & disinfection & electrical panel.	For green house and Labs. Rehabilitarion	8Nos

05 00 00005	T- ' 1 G1 ' 1 1	1	-,1	1	. 1
05-02-00085	Liquid Chillers	For green house a	and	1	set
	Air Cooled liquid	Labs.			
		Rehabilitarion			
	100 tons (351.6 kw) Rated				
	at 52c ú outdoor air				
	temperature . The chiller				
	shall be operated with				
	10% by weight ethylene				
	Glycol Solution of				
	inlet/outlet temperature				
	7.5 c ú / 2cú				
	respectively . The use of				
	10% ethylene glycol				
	Solution shall not				
	require a special chiller				
	design . Simply the				
	standard setting				
	equipments in standard				
	water chiller will be set				
	at 2 c ú instead of 4.5 c				
	ú obtained in ordinary				
	water chillers. The				
	chiller shall be suitable				
	for 380v,3ph , 50 hz				
	power supply &outdoor				
	installation				
05-02-00086	Chilled liquid pumps	For green house a	and	2	set
	The chilled liquid pump	Labs.			
	shall be of a capacity	Rehabilitarion			
	54.5 m3 /hr (240 GPM)				
	rated at a head of 28				
	meters of water column &				
	1450 rpm .The pump shall				
	be equipped with suitable				
	mechanical seals that				
	make it leaktight . The				
	pump shall be suitable				
	for 380v,3ph,50hz power				
	Supply				
L	1				

05 00 00007	Dis Dock Heat	Tier	_
05-02-00087	Air Duct Heaters	For green house and	2
	The air duct heaters shall be of the special	Labs. Rehabilitarion	
	<u> </u>	Renabilitation	
	specifications & of		
	capacities as indicated		
	below . The Heaters shall		
	be of the open coil type		
	consisting of bare wire		
	spiral coiled elements,		
	Nickle Chrome resistance		
	wire . The Heaters shall		
	be Supplied complete with		
	sensor , step		
	controllerss, contactors		
	, overloads and		
	protection facilities .		
	Any additionl Components		
	that will make the		
	heaters be computer		
	controlled , shall be		
	furnished . The heaters		
	shall be fabricated to		
	Fit inside the air ducts		
	of Sizes as indicated		
	below		
	Heater (1) cap.(Kw) 12		
	No.of Stage 4 Airflow		
	rate (1/s) 3000 Sliplin		
	Direction H		
	Heater (2) cap.(Kw) 30		
	No.of Stage 5 Airflow		
	/1/-\ 1200 dli-li-		
05-02-00088	Volume flow rate	For green house and	Round
	Controllers	Labs.	
	The volume flow rate	Rehabilitarion	
	controllers shall be able		
	to control any desired		
	air flow Rate from (0-		
	750) 1/s . The controller		
	shall be duct fitted in		
	the supply and exhaust		
	ducts and shall be such		
	equipped that it can be		
	connected and controlled		
	by a central computer		
	system .		

05-02-00089	Fan Coil Units	For green	house	and	Round
	The fan coil units shall	Labs.			
	be of floor mounted	Rehabilita	rion		
	vertical discharge and				
	face return air inlet .				
	The unit shall have the				
	following features:-				
	-Air Recirculation Rate				
	=2574 L / S				
	-Air condaition on coil				
	at minimum room temp=				
	16úC db & 10.5úC wp				
	Air off coil at minimum				
	room temperature of 16 c				
	u = 8 cu db and 6.8 cu				
	wb -Total Capacity (watts				
	) =25330				
	-Sensible Capacity (watt)				
	= 25330				
	-Entering ethylene glycol				
	(10% by weight)				
	temperature = 4 c ú				
	-Ethylene Glycol temperature rise = 5.5 cú				
	The Fan coil shall be				
	of two pipe system				
	complete with three way				
	valve , temperature				
	sensors and actuators				
	that can maintain the				
	desired room temperature				
	acsited room temperature				

05-02-00090	Air Handling Units	For green house and	Dound
03-02-00090	The air handling units	Labs.	Round
	shall be operated with	Rehabilitarion	
	<u> </u>	Renabilitation	
	totally fresh air and		
	they shall have a total		
	static pressare equal to		
	the specfied external		
	static pressure plus the		
	Internal static pressure		
	which shall be specified		
	and added by the unit		
	manufactarer.		
	AHU1 AHU2		
	Air flow rate (1/S)		
	3000 1340		
	Total cooling		
	capacity(KW) 190		
	57		
	Sensible Capacaity(KW)		
	155 56		
	Chilled liquid		
	temperature 2/7.5		
	2/7.5		
	in/out c		
	Air on coil cú db/Wb		
	47/24 2/7.5		
	Air off coil cú db/Wb		
	6/5.6 14/13		
	Apparatus dew point C		
	5 12.5		
	External static pressure,		
	1 - 1 -	_	
05-02-00090	After coil air	For green house and	Round
	temperature range	Labs.	
	controlled by the three	Rehabilitarion	
	way valve 4-18C AHU1		
	Standard range AHU2		
	Power supply available		
	380-3ph-50Hz		
	220-1ph-50Hz		

05-02-00091	05-02-0009105-02-0009205-	-	4
		Labs.	
	0009505-02-00096	Rehabilitarion	
	Steam Humidifiers shall		
	be specified in item (15)		
	and specially specified		
	in of electrically		
	operated humidifiers with		
	a Microprocessor control		
	system and with steam		
	distributing pipes for		
	installation in duct		
	work, The unit shall be		
	such equipped so that it		
	may be controlled by a		
	central computer system		
	suitable humidity sensors		
	and actuators shall be		
	provided - steam out put		
	Range 2-30 Kg/hr - Power		
	consumption 20Kw maximun -		
	Power supply 380V-3Ph-		
	50HZ -		
	220v-1ph-50HZ		

05-02-00092	Main distribution board	For green house a	and 1
	, , , , , , , , , , , , , , , , , , , ,	Labs.	
	4-pole Air circuit	Rehabilitarion	
	breaker 1600 Af, 600		
	Volts with over current		
	and short circuit		
	protection facilities		
	One manual change over		
	switch TP&N 1600A 600		
	Volts - Seven MecB"S		
	100AF 4-pole with		
	settings 100AT, 75AT,		
	75AT, 75T, 75AT, 50AT&		
	30AT respectively. 600		
	Volt ratings - Two		
	MCCB"S 225AF p-pole 600		
	Volts with setting 150AT		
	& 200AT respectively		
	One voltmeter (0-500V)		
	with selector switch (4-		
	Positions) Complete with		
	its potential		
	transformers and		
	protective fuses		
	Three indicating lamps		
	The main distribution		
	board shall be dust and		
	vermin proof manufactured		
	with rigid and compact		
	steel structure of free		
	standing type suitable on		
1		1	

05 00 00000	In 1 11 11 2	I	
05-02-00093	Distribution panel		
	(AC.D.B) consist of -		
	One 4-Pole Load break		
	isolator 1200A 600 Volts		
	(Main isolator) - Four		
	4-pole MCCB"S 100AF,		
	100AT 600Volts -		
	Fourteen 4-pole MCCB"S		
	100AF setted as follows		
	:30AT / No.160AT /		
	No.1275AT/ No.1 - Two		
	single -pole MCB 30A,		
	250V Four single -		
	pole MCB 15A, 250 V		
	Four 100A 3-pole		
	contactor, with thermal		
	over load protection,		
	push- button type		
	One 60A 3-pole contactor,		
	with thermal ovr load		
	protection - TP&N+E		
	busbar system 1200A , 400		
	Volts - Three Ammeters		
	(0-60A) with current		
	transformers (one for		
	each contactor outlet) -		
	one Ammeter(0 - 30 A)		
	with its current		
	transformer (for		
	contactor outlet with		
	30AT setting MCCB) -		
05 00 00003		7	D 1
05-02-00093	- One 4-Pole Load break	For green house and	Round
	isolator 1200A 600 Volts	Labs.	
	(Main isolator) - Two 4-	Rehabilitarion	
	pole MCCB'S 600AF, 450AT		
	600 volts - One		
	indicating lamp for each		
	panel supplying load		
	through contactor device		
	Five indicating		
	lamps for each panel		
	supplying reheater loads		
	(6 panels) fitted with		
	MCCB'S rating 75AT, &		
	5X60AT. The AC.D.B.		
	Specification is the same		
	as item 1 in		
	consideration of its		
	consideration of its		
	Construction .		

05-02-00094	Luminaire (Lighting Fitting) 2X40 w Fluorescent with louver recessed type suitable for falseceiling mounting type (F1) similar to Philips TBS 31ZL or equivalent. Complete with starting gears.lampholders, lamps &power factor capacitor.	For green house and Labs. Rehabilitarion	75
05-02-00095	Ditto -but suitable for direct mounting on walls or surfaces. (type F2)	For green house and Labs. Rehabilitarion	40
05-02-00096	Fluorescent luminaire 220 V,2x40w with rapid starting ballast with universal reflector complete with lamp holders, lamps & power factor correction capacitor. Similar to Philips GM x250 /36-40w. or equivalent.(Type F3)	For green house and Labs. Rehabilitarion	30
05-02-00097	Fluorescent luminaire 220 V,2x40w with prismatic bottom & Side cover suitable for coupling arrangements in row group . complete with lamp holders ,lamps & correction factor capacitor(Type F4)	For green house and Labs. Rehabilitarion	50
05-02-00098	1x 500 mm2 PVC insulated with steel taped armoured cable PVC sheathed for under ground use.	For green house and Labs. Rehabilitarion	300 M. L

05-02-000099	750 KVA 3-pare 400V emergency diesel engine driven generator .with automatic & manual change over system complete with its control panel suitable for outdoor installation in tropical climatic conditions( - 8 C ú to 50 C ú)	For green house Labs. Rehabilitarion	and	1	SET
05-02-00100	24 hours electronic timing switch three-phase 100 A , 400 Volts ratings.	For green house Labs. Rehabilitarion	and		6
05-02-00101	Kiosk type Substation 1000 KVA , 11000/410 /230 Volts consists of the following Section : High tension Side: - One 600 A ,12KV H.T circuit breaker type VCB or SF6 provided switch over lood & short circuit facilities.	For green house Labs. Rehabilitarion	and		1

05-02-00102	- 12 KV 600 A TP busbar	For groon hough and	1 gomplete
02-07-00107	system One Lood	For green house and Labs.	1 complete unit
	break swith 12KV,400A	Rehabilitarion	unit
		Remadification	
	Three ammeters (0-600A)		
	with their current		
	transformers &		
	accenories One		
	voltmeter (0-13KV) with		
	its selector switch (3-		
	position) complete with		
	its potential		
	transformers & the		
	protecting devices One		
	KWH meter One 1000 KVA		
	11000/410 /230 Volt oil		
	immersed naturally cooled		
	transformer with all		
	necessory protecting		
	devices Low tension		
	Side: - One air		
	circuit breaker (ACB)		
	600A 600 Volts with		
	overlood & short circuit		
	protection 2000 A, TP		
	& N + E busbar system 400		
	Volts Two 1600 lood		
	break switch (LBS)		
	tripple-pole 400V One		
	300 AF MCCB tripple-pole		
	400V One 100 AF MCCB		
	tripple-pole 400V		
	F:Improvement of		
	agricultural tractor		
	production and irrigation		
	system		
	-		
CODE NO .	DESCRIPTION	INTENDED USE (AND	QTY IN UNIT
		TARGETED END USER )	
05-02-00103	-Tractor parts 70-80HP	Increase tractors	1000 sets
	with spare parts	production capacity	
05-02-00104	Components and raw	Increase of	500 sets
	material for	irrigation systems	
	solid irrigation systems	production capacity	
05-02-00105	Components and raw	Increase of	400 sets
	material	irrigation systems	
	for mobil irrigation	production capacity	
	systems and spare parts		
-			

05-02-00106	Components and parts for	Increase of	400 sets
	center - pivot	irrigation systems	
	irrigation system and	production capacity	
	spare parts		
05-02-00107	Irrigation pumps with	Increase of	-
	spare parts	irrigation systems	
05-02-00108	Agricultural implements and raw material: hot rolled steel bar / strip	production capacity	2819 tons
05-02-00109	Cleaning sewage sludge truck and spare parts		1
05-02-00110	DUCTILE PIPES DIA: 36 INCHES . TOTAL LENGTH 36000 METERS	MAINTAIN CONTINUETY OF PRODUCING PLASTIC COVERS IN PETROCHEMICAL PLANT	36000 METERS
05-02-00111	BOILER CAPACITY 200 TON/HR PRESSURE 42 BAR	=	1
05-02-00112	SPARE PARTS FOR ETHYLENE TURBINES COMPRESSORS	=	DIFF
05-02-00113	BAGGING MACHINE FOR HDPE , LDPE GRANULES	=	2
05-02-00114	FIRE FIGHTING VEHICLES	=	2
05-02-00115	MOBILE CRANE 10 TONS	=	2
05-02-00116	MOBILE CRANE 25 TONS	=	2
05-02-00117	SPARE PARTS FOR SUNDYND PUMPS GA-6402,GA-6104 PRODUCT	=	DIFF
05-02-00118	COMPLETE PUMP GA-1101 FOR AMINE PRODUCT	=	2
05-02-00119	ETHYLENE PRODUCT PUMP	=	2
05-02-00120	COMPLETE PUMP GA-1201 FOR DEMETHANIZER	=	2
05-02-00121	COMPLETE PUMP GA-8500 FOR COOLING WATER	=	2
05-02-00122	PIPE LINE PUMPS FOR RAW WATER DISCHARGE PRESSURE 1300 KPA . CAPACITY: 3000 M3/HR	=	2
05-02-00123	DIGITAL CONTROL SYSTEM	=	DIFF
05-02-00124	PE COMPOUNDING LINE	=	1
05-02-00125	HEAT EXCHANGER BUNDLE PUSH PULLER	=	1
05-02-00126	TUBE PULLING MACHINE	=	2
05-02-00127	TUBE ROLLING EQUIPMENT	=	2
05-02-00128	HYDRO STATIC TESTING PUMPS	=	3

05-02-00129	L.D.P.E REACTOR MOTOR WITH SPARE PARTS .	=	DIFF
05-02-00130	LIQUID VACUUM TRUCK	=	2
05-02-00131	INSTRUMENT AIR DRYERS	=	DIFF
05-02-00132	DUMP TRUCK 20 TON	=	1
05-02-00133	STUDY OF REVAMPING	=	1
	ETHYLENE UNIT TO DECREASE		
	WASTE OF PROPYLENE FOR		
	ENVIROMENT PROTECTION		
	H : IMPROVEMENT OF		
	FERTILIZERS PRODUCTION		
PLANT 1			
CODE	ITEM DESCRIPTION AND ITS	INTENDED USE	QTY.
	COMPLEMEENTRAY ITEMS (IF		
	APPLICABLE)		
		(AND TARGETED	IN
		END USER)	UNIT
05-02-00134	REHABILITATE 2 (TWO)	TO REHABILITATE	DIFF.
	WASTE HEAT BOILERS FOR		
	SULPHARIC ACID PLANT		
		SULPHRIC PLANT	
05-02-00135	REHABILITATE AMMONIA	TO REHABILITATE	DIFF.
	PLANT		
		AMMONIA PLANT	
05-02-00136	REHABILITATE 2 (TWO)	TO REHABILITATE	DIFF
	BOILER FOR UTILITY PLANT		
		OF	
		UTILITIES PLANT	
05-02-00137	REHABILITE COMPLETE LINE	TO REHABILITATE	2
	FOR PHOSPHORIC ACID PLANT		
		PHOSPHORIC ACID	
		PLAN	
05-02-00138	REVERS OSMOS (R.O) WITH	WATER FOR	3 LINES
	ITS ACCESSORIES AND SPARE PARTS FOR 3 YEARS	INDYSTRIAL USES	
	CAPACITY 200 M3/HOUR +		
	PUMPS + VALVES + PIPES		
05 00 00100		TO DEVISE	
05-02-00139	DEWATERING FILTER CAPACITY 100 TON/HR FOR	TO REHABILITATE BENIFICIATION PLANT	2EA
	ROCK PHOSPHATE SLURRY	DENIFICIALION PLANT	
	BENIFICIATION PLANT		
05 02 00140	TIEVALA EVITENMENTE DITT DOGGE	TO DELIABITATION	O 17.7
05-02-00140	HEAVY EQUIPMENT BULLDOZER + SHOVEL + EXCAVATOR	TO KEHABILITATE	9 EA
	. DITOVEL   EACAVATOR		
		ALKAIM FERTILIZER	
		AUNAIM LEKIIDIZEK	
		COMPLEX	
		COPIL LIEA	

05-02-00141	HEAVY DUTY TRUCK (WATER TANKER , TRUCK WITH CHASSES 6 X 4)	TO REHABILITATE	4EA
		ALKAIM FERTILIZER	
		COMPLEX	
05-02-00142	POLYPROPLEN + P.V.C. SHEER AND PIPES FOR MAINTENANCE	TO REHABILITATE	DIFF
		ALKAIM FERTILIZER	
		COMPLEX	
05-02-00143	MACHIENS FOR WORKSHOP	TO REHABILITATE ALKAIM FERTILIZER	DIFF.
		COMPLEX	
05-02-00144	CARBON STEEL PIPE	TO REHABILITATE	DIFF.
		ALKAIM FERTILIZER	
		COMPLEX	
05-02-00145	TYRES FOR TRUCK	TO REHABILITATE	DIFF.
		ALKAIM FERTILIZER	
		COMPLEX	
05-02-00146	SUBMERSIBLE PUMP (DIFF. SIZES AND DIFF CAPACITY)	TO REHABILITATE	92 EA
		ALKAIM FERTILIZER	
		COMPLEX	
05-02-00147	ACID COOLERS FOR SULPHURIC ACID PLANT	TO REHABILITATE SULPHORIC ACID PLANT	8 EA
05-02-00148	FORKLIFT + MOBILE CRANE + BOBCAT WITH SPARE PART FOR ALL ITEM	TO REHABILITATE	10EA
		ALKAIM FERTILIZER	
		COMPLEX	
05-02-00149	BEARINGS DIFF. SIZES	TO REHABILITATE	DIFF.
		ALKAIM FERTILIZER	
		COMPLEX	
05-02-00150	LABORATORY AND POLLUTION DEVICES	TO REHABILITATE	DIFF.
		ALKAIM FERTILIZER	
		COMPLEX	
05-02-00151	GEAR BOXES FOR DIGESTION TANK 321M55ABC	TO REHABILITATE PHOSPHORIC ACID PLANT	3EA

05-02-00152	MOTORIZED DRUM + SPEED REDUCER	TO REHABILITATE FERTILIZER PLANT	DIFF
05-02-00153	COOPER BEARING FOR FERTILIZER PLANT EQUIPMENT	TO REHABILITATE PHOSPHORIC ACID PLANT OF FERTILIZER PLANT	DIFF
05-02-00154	NALCO	TO REHABILITATE OF UTILITIES PLANT WATER TREATMENT	DIFF
05-02-00155	K.S.B PUMPS PARTS FOR WATER AND STEAM	TO REHABILITATE  ALKAIM FERTILIZER	DIFF.
		COMPLEX	
05-02-00156	GEAR BOX WITH ACCESSOURIES	TO REHABILITATE	2EA
		BENIFICAATION PLANT	
		COMPLEX	
PLANT 2			
CODE	ITEM DESCRIPTION & ITS COMPLEMENTARY ITEMS (IF APPLICABLE)	INTENDED USE (AND TRAGGETED END USER)	QTY. IN UNT.
05-02-00157	COMPRESSORS REVAMPING	REVAMPING OF UREA FERTILIZER PLANT	6
05-02-00158	TURBINES REVAMPING	=	5
05-02-00159	PUMPS REVAMPING	=	30
05-02-00160	DCS REVAMPING	=	1
05-02-00161	COOLING TOWER REVAMPING	=	1
05-02-00162	PRIMARY REFORMER & BOILERS REVAMPING	=	5
05-02-00163	COMPLET PUMPS WITH DRIVERS	=	30
05-02-00164	TUBES FOR HEAT EXCHANGERS	=	BULK
05-02-00165	COMPLET HEAT EXCHANGERS	=	6
05-02-00166	COMPLET GEAR MOTORS & CYCLO DRIVES	=	40
05-02-00167	BOILER FEED WATER PUMPS	=	4
05-02-00168	UREA HANDLING EQUIPMENT REVAMPING	=	BULK
05-02-00169	UREA WEIGHING & BAGGING SYSTEM REVAMPING	=	8
05-02-00170	COMPLET BAGGING SYSTEM	=	2
05-02-00171	VALVES	=	BULK

05-02-00172	INSTRUMENTATION CONTROL	=	BULK
05 02 00172	VALVES WITH ACCESSORIES	_	Bolic
	VIII VIII VIII VIII VIII VIII VIII VII		
05-02-00173	CONTROL & MEASURMENT	=	BULK
03 02 00173	INSTRUMENTATIONS		2021
05-02-00174	VIBRATION MONITORS	=	BULK
05-02-00175	ELECTRICAL MOTORS L.T &	=	30
	H.T.		
05-02-00176	CABLES & ACCESSORIES	=	BULK
05-02-00177	ELECTRICAL EQUIPMENT	=	BULK
	CONTROLLER & PROTECTION DEVICES		
05-02-00178			DIII I
05-02-00178	WORKSHOP EQUIPMENT & WELDING MACHINE WITH	=	BULK
	ACCESSORIES		
05-02-00179	OIL SEALS , MECHANICAL	=	BULK
03 02 00173	SEALS & O-RING		2021
05-02-00180	WELDING RODS	=	BULK
05-02-00181	GASKETS & PACKING	=	BULK
	MATERIALS		
05-02-00182	PIPES & FITTINGS	=	BULK
05-02-00183	BEARINGS	=	BULK
05-02-00184	GOVERNORS , TACHOMETERS &	=	BULK
	T.T.V. FOR TURBINES		
05-02-00185	N2 GENERATOR COMPLET UNIT	=	1
03-02-00183	NZ GENERATOR COMPLET UNIT	_	
05-02-00186	INSTRUMENT AIR COMPRESSOR	=	1
	COMPLET UNIT		
05-02-00187	LABORATORIES EQUIPMENT	=	BULK
05-02-00188	ON - LINE ANALYTICAL	=	BULK
	INSTRUMENTS		
05-02-00189	MECHANICAL INSPECTION	=	BULK
05-02-00190	EQUIPMENT		2
05-02-00190	UPS COMPLET SET  33KV G.C.B. ( SF6 ) &	=	6
03-02-00191	6.6KV C.B.	_	0
05-02-00192	CHEMICALS FOR AMMONIA	=	BULK
	PLANT		
05-02-00193	INDUSTRIAL COOLING SYSTEM	=	BULK
05-02-00194	REVERSE OSMOSIS UNIT	=	1
05-02-00195	ANTICAKING FOR UREA	=	100 TON
05.00.00106	PRILLS PRODUCT		0.2.6
05-02-00196	SHOVELS , CRANES & FORKLIFT	=	2,3,6
05-02-00197	TRAILORS , TANK-CARS ,	=	2,2,2,1
05 02 00157	TIPPER VEHICLES & SKYLIFT		2,2,2,1
05-02-00198	BUSES , PICK-UP TRUCK ,	=	10,2,6,13
	MINI BUS & MINI		
	LANDCRUSER		

05-02-00199	ELECTRIC GENERATOR 10-15 MVA	=	1
05-02-00200	POLY PROBYLINE BAGG	=	5 MILLION
05-02-00201	EJECTORS	=	BULK
05-02-00202	BATTERIES & CHARGERS	=	BULK
05-02-00203	EXPLOSION PROOF LIGHTING EQUIPMENT & FIXTURES	=	BULK
05-02-00204	COMPRESSORS & ACCESSORIES FOR ( PLANT AIR / INSTRUMENT AIR / N2 GENERATORS )	=	3
05-02-00205	CONTROL INSTRUMENTS ( INSTRUMENTATION ) FOR FLOW , LEVEL , TEMP, PRESSURE CONTROL VALVE RELIEVING DEVICES , SWITCHIES , SOLENOIDS	=	BULK
05-02-00206	CONTROL ( DEVICES ) FLOW , LEVEL , TEMP. PRESSURE , CONTROL & MEASURMENT EQUIPMENTS .	=	BULK
05-02-00207	RAW MATERIAL FOR FABRICATION EQUIPMENT	=	BULK
05-02-00208	PIPES , FLANGES , GASKETS , FITTINGS , VALVES	=	BULK
05-02-00209	PUMPS	=	6
PLANT 3			
CODE NO .	ITEM DESCRIBTION & ITS COMPLEMENTARY ITEMS ( IF APPLICABLE )	INTENDED USE (&TARGETED END USER)	QTY. IN UNIT
No.			
05-02-00210	INDUSTRIAL W. WATER TREATMENT PLANT	Maintain continuity of Urea production	
	1- Utilize existing cooling tower blow down quantity (900 m3/h) with (T.D.S.) of (4000~5000mg/l) & full analysis.		
	2- Utilize the waste water from existing plant & cooling tower blow down quantity (1000m3/h) the final water analysis.		

	3- Treatment for the waste water from Ammonia & Urea plants quantity (100m3/h) & full analysis. The quantity remain when applied case (1) to be treated according to the limits of the regulation of the protection of the rivers & public water from the pollution No. 25 for a year 1967.		1
	4- Utilize existing brine water the blow down from (R.O) units, quantity (750 m3/h) (T.D.S) of (6850~7650 mg/L) & full analysis .		
CODE NO .	ITEM DESCRIBTION & ITS COMPLEMENTARY ITEMS ( IF APPLICABLE )	INTENDED USE ( &TARGETED END USER )	QTY. IN UNIT
	Laboratory Equipment	Maintain continuity of Urea production	
05-02-00211	1- PH Meter Bench Type Digital		1
	Up to date.		
05-02-00212	2- E.C. Meter Bench type digital		1
05-02-00213	Up to date  3- Dew point Meter digital		1
	Up to date  Range ( $-70 \text{ C}^{\circ} \sim + 50 \text{ C}^{\circ}$		
05-02-00214	4- Gas Analyzer Portable Digital		1
	Up to date  For detection of Ammonia in Air.		
05-02-00215	5- Carbon Residual Digital Up to date.		1
05-02-00216	6- Spectrophoto Meter Digital Computerized .		1
05-02-00217	Up to date.  7- Karl Fischer Digital Computarized.		1

	Up to date.		
05-02-00218	8 - Gas Chromatography .		1
	Up to date.		
	Advance analytical gas		
	chromatograph to analyse		
	the gases (H2, N2, O2, CH4, CO, CO2, Ar,etc.)		
	CII4, CO, CO2, AI,ecc.)		
05-02-00219	9- Tensile strength.		1
	Up to date.		
05-02-00220	10- Jar tester apparatus.		1
	Contains 6 (six)		
	mixers.		
	Up to date.		
05-02-00221	11- Drop melting of		1
	petroluim, wax		
	including petroluim.		
	Up to date.		
05-02-00222	12- Pour point apparatus		1
	for petroluim Oil.Up to		
	date.		
05-02-00223	13- Flash point digital		1
	computarized.		
05-02-00224	14-Total sulfur in Oil		
	(organic & Inorganic) digital.		
05-02-00225	15- Electric furnace	Maintain continuity	1
	digital	of Urea production	
	TT		
	Up to date.		
	Holding capacity 15 liters or more.		
	Temp. range (0-1600 C ú		
	).		
05-02-00226	16- High temp. gravity		1
05 02 00220	convection oven		_
	Digital.		
	Up to date.		
	Temp. range (50~275 C ú	+	
	).		
05-02-00227	17- Digital density /		1
	specific gravity meter.		
	Up to date.		
	For measuring true		
	density of aqueous		
	liquid.		
05-02-00228	18- Moisture		1
	determination balance		
	digital.		

	Up to date.		
	Auto dry routine save		
05 00 0000	time.		
05-02-00229	19- Constant - temp. horizontal shaking		1
	Bath.		
	Up to date.		
	This horizontal shaking bath uniformly & quitly agitates sample.		
05-02-00230	Glass Ware	Maintain continuity of Urea production	1 SET
	1-( ASTM) STANDARD SIEVE 200 MM STAINLESS STEEL) Stand No. (6,8,10,12,14,16,18,20,25,30,35,40,45,50,60,70,80,100). With 1(one) set cover & receiver each 1(one) piece.		
05-02-00231	2- Gas regulator for (		1 for each
	one for each gas)		gas
	a- Acetylene (C2H2).		
	b- Hydrogen (H2).		
	c- Oxygen (O2).		
05-02-00232	3- Hollow cathod lamps for atomic absorption shimadzu AA-630-12.for each: As,Cd,Co,Ag,Fe,Mn,Ni,Li,V ,Sn		1 for each one
05-02-00233	4- Millipore filter (0.45M ) Mm poresize.		100x(25pkg)=2 500 paper
05-02-00234	- Size 47 mm diameter.		or 250x(10pkg)=2 500 paper
05-02-00235	5- L.D. P.E. washing bottle (Narrow mouth ) Low densitiy Poly Ethylene.		
05-02-00236	Capacity 1 liter		50
05-02-00237	Capacity 500 ml.		50
05-02-00238	6- PE (Poly Ethylene) bottle narrow mouth with stopper.		
05-02-00239	Capacity 500 ml.		50
05-02-00240	Capacity 1 liter.		50
05-02-00241	7-PE bottle wide mouth with stopper.		
05-02-00242	capacity 250 ml.		50

05-02-00243	Capacity 500 ml.		50
05-02-00244	Capacity 1 L.	<u> </u>	25
05-02-00245	Capacity 2 L.		25
05-02-00246	8-Stainless steel gas sampling cylinder for collecting.	Maintain continuity of Urea production	10
05-02-00247	9- Wet test meter for measuring gas flow.		4
05-02-00248	10- Measuring cylinder (special design, 100 ml) capacity for determination of water in liquid Ammonia.		30
05-02-00249	11- Burette calibrated (0~50ml).		30
05-02-00250	12- Absorbing tube (capacity 25ml).		30
05-02-00251	13-High density poly Ethylene rectangular aspirator bottles with spigot outlets.		
05-02-00252	Capacity 5 liters		10
05-02-00253	Capacity 10 liters		5
05-02-00254	Capacity 20 liters		5
05-02-00255	Capacity 30 liters		5
	Lab. Chemical Regrents		
05-02-00256	1- 1-Naphthyl amine (C10H9N) pakage=250g (Analar).		2
05-02-00257	2- Soduim bicarbonate (NaHCO3) pakage=500g (Analar).		3
05-02-00258	3- Squalence for G.C 20 wt%. pakage=100ml		5
05-02-00259	4- Ammonia Acetate (CH3COONH4). pakage=500g		20
05-02-00260	5- Chloro form (G.P.R). pakage=1 liter		20
05-02-00261	6- Active carbon (100 wt%). pakage=100g		5
05-02-00262	7- Tin (Sn) G.R. granuated. pakage=250g		3
05-02-00263	8- Alum (Al2(SO4)3, 18H2O) analar pakage=500g	Maintain continuity of Urea production	2
05-02-00264	9- PH buffer solution (7). Analar pakage=500ml		10

10- Silver Nitrate (AgNO3). Analar pakage=250g		2
11- Manganese sulfate (MnSo4. H2O) analar		3
Or (MnSO4.2H2O) pakage=500g		
12- Liquid paraffin (analar) pakage=500ml		5
13- Methanol 100% (analar) pakage=1 liter		10
14- Mannital CH2(OH). (CHOH)4 CH2OH (analar) (G4P.R) pakage=500g		6
15- Glycerene (Analar). pakage=1 liter		10
Biochemicals For Bacteria Count		
1- Nutrient broth (analar) pakage=500g		4
2- Bacto-peptone (analar) pakage=500g		4
3- Yeast extract (analar) pakage=500g		4
4- Macconkey broth (analar) pakage=500g		4
SUPPLY OF STANDARD GASES CYLINDERS	Maintain continuity of Urea production	
1- Gas mixture 5% Argon, Nitrogen balance.		2
2- Argon (Ar) 6.5 m3 99.999%		2
3- Hydrogen (H2) 6.5 m3 99.999%		2
4- Oxygen (O2) 6.5 m3 99.999%		2
5- Gas mixture 3ppm Oxygen, Nitrogen balance.		2
	1	
	pakage=250g  11- Manganese sulfate (MnSo4. H2O) analar  Or (MnSO4.2H2O) pakage=500g  12- Liquid paraffin (analar) pakage=500ml  13- Methanol 100% (analar) pakage=1 liter  14- Mannital CH2(OH). (CHOH)4 CH2OH (analar) (G4P.R) pakage=500g  15- Glycerene (Analar). pakage=1 liter  Biochemicals For Bacteria Count  1- Nutrient broth (analar) pakage=500g  2- Bacto-peptone (analar) pakage=500g  3- Yeast extract (analar) pakage=500g  4- Macconkey broth (analar) pakage=500g  SUPPLY OF STANDARD GASES CYLINDERS  1- Gas mixture 5% Argon, Nitrogen balance.  2- Argon (Ar) 6.5 m3 99.999%  3- Hydrogen (H2) 6.5 m3 99.999%  4- Oxygen (O2) 6.5 m3 99.999%  5- Gas mixture 3ppm	(AgNO3). Analar pakage=250g  11- Manganese sulfate (MnSo4. H2O) analar  Or (MnSo4.2H2O) pakage=500g  12- Liquid paraffin (analar) pakage=500ml  13- Methanol 100% (analar) pakage=1 liter  14- Mannital CH2(OH). (CHOH)4 CH2OH (analar) (G4P.R) pakage=500g  15- Glycerene (Analar). pakage=1 liter  Biochemicals For Bacteria Count  1- Nutrient broth (analar) pakage=500g  3- Yeast extract (analar) pakage=500g  4- Macconkey broth (analar) pakage=500g  SUPPLY OF STANDARD GASES CYLINDERS  Naintain continuity of Urea production  1- Gas mixture 5% Argon, Nitrogen balance.  2- Argon (Ar) 6.5 m3 99.999% 3- Hydrogen (H2) 6.5 m3 99.999% 5- Gas mixture 3ppm

7- Gas mixture 0.5% ppm Oxygen, Nitrogen balance.		2
8- Gas mixture 5.0% ppm Oxygen, Nitrogen balance.		2
9- Gas mixture 0.5% ppm Nitrogen, hydrogen balance.		2
10- Gas mixture 1.0% ppm Nitrogen, hydrogen balance.		2
11- Nitrogen (N2) 6.5 m3 99.999%		2
12- Gas mixture 0.5% CH4, N2 balance		2
13- Gas mixture 8 % CH4, N2-Balance.		2
14- Gas mixture 12% CH4, N2-Balance.		2
15- Gas mixture 75% CH4, N2-Balance.		2
16- Gas mixture 85% CH4, N2-Balance.		2
17- Gas mixture 10 ppm Co2, N2-balance.	Maintain continuity of Urea production	2
18- Gas mixture 0.5% ppm Co2, N2-balance.		2
19- Gas mixture 3.0% ppm Co2, N2-balance.		2
20- Gas mixture 9.0% ppm Co2, N2-balance.		2
21- Gas mixture 14% ppm Co2, N2-balance.		2
22- Gas mixture 10 ppm Co2, N2 -Balance.		2
23- Gas mixture 0.1% ppm Co2, N2 -Balance.		2
24- Gas mixture 3% ppm Co2, N2 -Balance.		2
25- Gas mixture 10% ppm Co2, N2 -Balance.		2
26- Gas mixture 15% ppm Co2, N2 -Balance.		2
27-Gas mixture 70% CH4, N2 balance		2
28-Gas mixture15% C2H6, N2 balance		2
29- Gas mixture 5% C3H8, N2-Balance.		2
30- Gas mixture 0.5% i - C4H10, N2 -Balance.		2
	Oxygen, Nitrogen balance.  8- Gas mixture 5.0% ppm Oxygen, Nitrogen balance.  9- Gas mixture 0.5% ppm Nitrogen, hydrogen balance.  10- Gas mixture 1.0% ppm Nitrogen, hydrogen balance.  11- Nitrogen (N2) 6.5 m3 99.999%  12- Gas mixture 0.5% CH4, N2 balance  13- Gas mixture 8 % CH4, N2-Balance.  14- Gas mixture 12% CH4, N2-Balance.  15- Gas mixture 75% CH4, N2-Balance.  16- Gas mixture 85% CH4, N2-Balance.  17- Gas mixture 10 ppm Co2, N2-balance.  19- Gas mixture 3.0% ppm Co2, N2-balance.  20- Gas mixture 9.0% ppm Co2, N2-balance.  21- Gas mixture 14% ppm Co2, N2-balance.  22- Gas mixture 10 ppm Co2, N2-balance.  21- Gas mixture 10 ppm Co2, N2-balance.  22- Gas mixture 10 ppm Co2, N2-balance.  23- Gas mixture 10 ppm Co2, N2-Balance.  24- Gas mixture 3% ppm Co2, N2-Balance.  25- Gas mixture 10% ppm Co2, N2-Balance.  26- Gas mixture 15% ppm Co2, N2-Balance.  27-Gas mixture 15% ppm Co2, N2-Balance.  27-Gas mixture 70% CH4, N2 balance  28-Gas mixture 5% C3H8, N2-Balance.  30- Gas mixture 5% C3H8, N2-Balance.	Oxygen, Nitrogen balance.  8- Gas mixture 5.0% ppm Oxygen, Nitrogen balance.  9- Gas mixture 0.5% ppm Nitrogen, hydrogen balance.  10- Gas mixture 1.0% ppm Nitrogen, hydrogen balance.  11- Nitrogen (N2) 6.5 m3 99.99%  12- Gas mixture 0.5% CH4, N2-balance  13- Gas mixture 8 % CH4, N2-Balance.  14- Gas mixture 12% CH4, N2-Balance.  15- Gas mixture 75% CH4, N2-Balance.  16- Gas mixture 85% CH4, N2-Balance.  17- Gas mixture 10 ppm Co2, N2-balance.  19- Gas mixture 3.0% ppm Co2, N2-balance.  20- Gas mixture 9.0% ppm Co2, N2-balance.  21- Gas mixture 10 ppm Co2, N2-balance.  21- Gas mixture 10 ppm Co2, N2-balance.  22- Gas mixture 10 ppm Co2, N2-balance.  21- Gas mixture 10% ppm Co2, N2-Balance.  22- Gas mixture 10% ppm Co2, N2-Balance.  23- Gas mixture 10% ppm Co2, N2-Balance.  24- Gas mixture 10% ppm Co2, N2-Balance.  25- Gas mixture 10% ppm Co2, N2-Balance.  26- Gas mixture 10% ppm Co2, N2-Balance.  27-Gas mixture 15% ppm Co2, N2-Balance.  28-Gas mixture 15% ppm Co2, N2-Balance.  29- Gas mixture 5% CH4, N2 balance  28-Gas mixture 5% CH4, N2 balance  28-Gas mixture 5% C3H8, N2-Balance.  30- Gas mixture 5% C3H8, N2-Balance.  30- Gas mixture 0.5% i -

05 00 00005	101 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
05-02-00305	31- Gas mixture 1.5% n-C4H10, N2-Balance.		2
05-02-00306	32- Gas mixture 0.5% I- C5H12, N2-Balance.		2
05-02-00307	33- Gas mixture 1.0% n- C5H12, N2-Balance.		2
05-02-00308	34- Carbon dioxide (CO2) 99.9999% analar.		2
05-02-00309	35- Nitrous oxide (N2O) pure fule for Atomic Absorption.		2
	INSPECTION EQUIPMENT	Maintain continuity of Urea production	
05-02-00310	1-Digital portable Instr. For combustible gases detection.		4 set
05-02-00311	2-Digital portable Instr. For Ammonia gas percentage detection .		1 set
05-02-00312	3-Portable ultrasonic flow meter for different fluids.		1 set
05-02-00313	4-Diesel operating testing pump.		1 unit
05-02-00314	5- Portable tube press. Test gun kit.		2 set
05-02-00315	6-Digital ultrasonic thickness meter.		2 set
05-02-00316	7-Portable ultrasonic detect detector.		1 set
05-02-00317	8-Electric Furnace.  -Temp. Max. 1600 C / 1800 C .  - Holding capacity 30		2 set
	kg.		
05-02-00318	9-Portable surface temp. measurement		2 set
05-02-00319	10-Thermopoint (Non-contact manual scanning radio-meter) Heat Spy.		2 set
05-02-00320	11-Thermocouple.		12 pcs.
05-02-00321	12-Mask filter for high Ammonia gas concentration.		1000 pcs.
05-02-00322	13-Fast rise power potentiostat.		1 set
05-02-00323	14-Portable digital stroboscope for rotary machines speed check.		2 set

	Tale and the second second		
05-02-00324	15-Microstructure photo		1 set
	scanning unit with		
	exposure control & camera.		
	Camera.		
	PRODUCTION	Maintain continuity	
		of Urea production	
05-02-00325	Revamping of Hydrolysis		for two
	of Urea Plant Process		trains
	Condensate to a Deep		
	Hydrolysis		
	Dl t 1600 m/D / 5		
	Plant Load: 1600 T/D (for		
	each train) Process condensate flow from		
	vacuum system:- (45-50		
	$m^3/h$ ) chemical composition		
	of process		
	condensate feed according		
	to design data:-		
	design data.		
	NH <sub>3</sub> = 4.88 wt%		
	$CO_2 = 2.14 \text{ wt}$ %		
	Urea = 0.51 wt%		
	Water = Balance		
	According to the above	For Operation &	
	data we need to revamp	Maintenance	
	our water treatment		
	section with DEEP		
	HYDROLYSIS system in		
	order to get a quality of		
	treated water to reduce		
	urea conc. To less than		
	(5 ppm) & ammonia to less		
	than (5 ppm) & water		
	conductivity to less than		
	$10 MU / cm^2$		
	The treated water then		
	can be used as a boiler		
	feed water.		
	Revamping of N2		
	generating Unit to get		
	O2 & Ar From weste Gas.		
05-02-00326	TRANSPORTATION		
03 02 00320	BUSES		
	מקמטם		

	Vehicle are equiped with	to transfere	20 bus
	diesel engine , 6 stroke,	employees to & from	
	water cooled, direct	the factory	
	injection pump, air	1	
	condensations, 50		
	persons.		
	MAINTENANCE	Maintain continuity	
		of Urea production	
05-02-00327	Vibration manitoring		1 set
	system.		
05-02-00328	1- Tube for H.E. A 213 TP		134000 m
	304. 3/4 , 5/6		
05-02-00329	2- Piping different size		9500 m
	& Material. SUS 304		
05-02-00330	Fittings / different size		4750 pcs
	& material		
	SUS 316		
05-02-00331	3- Valves (different size		1850 PCS
	& material)		
05-02-00332	4- Tool for H.E.		1985 pcs
			148 set

05-02-00333	5- Bagging Equipment	1	10 set
05-02-00333	Automatic Bagging Line.		IU Set
	nacomacie bagging line.		
05-02-00334	6- Main. Equipment &		15 machine
05 02 00551	Tool.		13 macmine
05-02-00335	7- Waste Heat Boiler for		2 SET
	NH3 Plant E-109.		
05-02-00336	8- Insulation Material.		64500 kg
05-02-00337	1-Ins. Air Com. with	Maintain continuity	1 set
	spare parts.	of Urea production	
05-02-00338	2-Mechanical Seals.		45 set
05-02-00339	3- Uraca (p-501) :-		2 set
	Turque convertor type RL-		
	19 for		
	Ammonia feed pump type KD-		
	815		-
05-02-00340	4- Uraca Pump		2 set
	H.P. Washing Pump		
	Type = KD- 211- S with		
	spare part		
05-02-00341	5- Submerged Pumps		1.0
	Sub. P. size = 1 =		10
05-02-00342	Sub. P. size = 2 <sup>=</sup>		4
05-02-00343	Sub. P. size = 4 <sup>=</sup>		4
05-02-00344	Sub. P. size = 6 =		3
05-02-00345	Sub. P. size = 8 /		3
	heavey duty		
05-02-00346	Sub. P. size = 10 <sup>=</sup> /		3
	heavey duty		
05-02-00347	DI-2-Ethyl hexyl		1000 tons
	phthalate DOP		
05-02-00350	Beet cleaning station		1 set
	with spare parts		
05-02-00356	candle filters		5 units
05-02-00357	cooling water chemicals-	kg	89,915
	chimec 1460 corrosion scale inhibitor		
	scare initiation		
	chimec 7464- cooling water bio-dispersant	kg	3,510
	chimec 7279- micro	1	Г 000
	organism control chemical	kg	5,890
	organism control enemical		
	chimec 1366- corrosion	kq	1,855
	and scale inhibitor for	, kg	1,000
	closed circuit		
05-02-00358	Pumps with motors	Units	13
05-02-00359	Water stiles for	NOS	6
	reservoir		· ·

05-02-00360	Burner for reformers & boiler with spare parts	sets	29
05-02-00361	Complete system for beet laboratory full automatic.	lot	1
05-02-00362	overhauled rotor tag no 107jct	pcs	1