

Annex AGRI - 2

Sector: AGRICULTURE

**Sub sector: VEGETABLE
AND FRUIT PRODUCTION
And extension**

**Activity: Provision of 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	Allocation Criteria	Time frame	
					Field Application	Optimal Delivery Time
05-02-00001	Sunflower seed Hybrid variety .	Production of needed seed for cooking oil (sunflowers growers in the Governorates)	500mt	Area under sunnflower	SPRING	April - June
05-02-00002	Cucumber Hybrid - F1	Cucumber production, both in opened and covered fields (vegetable producers in the Governorates)	50mt	Size of area under cucumbers.	WINTER & SUMMER	April - June
05-02-00003	Tomato seed	Tomato production, both in open and covered fields (vegetable producers in the Governorates)	40mt	Size of area under Tomato	WINTER & SUMMER	April - June
05-02-00004	Squash seed Hybrid - F1	Squash production in both open and covered fields (vegetable producers in the Governorates)	10mt	Area under the squash	WINTER & SUMMER	April - June

05-02-00005	Pepper seed	Pepper production in both open and covered fields (vegetable producers in the Governorates)	8mt	Area under the pepper	WINTER	April - June
05-02-00006	Onion seed	Onion production in open field (onion producers in the Governorates)	25mt	Area under the onion	SPRING	April - June
05-02-00007	Cowpeas	Cowpeas production in open field (vegetable producers in the Governorate)	150mt	Area under the Cowpeas	SUMMER	April - June
05-02-00008	Bean	Bean production in open field (vegetable producers in the Governorate)	150mt	Area under the Bean	SPRING SUMMER	April - June
05-02-00009	Eggplant	EggplantBrodbean(vegetable producers in the Governorate)	10mt	Area under the Eggplant	SUMMER	April - June
05-02-00010	Brodbean	Brodbean production in open field (vegetable producers in the Governorate)	50mt	Area under the Brodbean	WINTER	April - June
05-02-00011	Water Melon	Water melon production in the open field (water melon producers in the Governorates)	30mt	Area under the water melon	SUMMER	April - June

05-02-00012	Different Hybrid Seed for green Houses	covered vegetable field and green houses (vegetable producers in the Governorates)	150kg	Area under the crop	WINTER	April - June
05-02-00013	Rape	Production of needed seed for cooking oil (sunflowers growers in the Governorates)	200mt	Area under the crop	WINTER	April - June
05-02-00014	Safflower	Production of needed seed for cooking oil (sunflowers growers in the Governorates)	200mt	Area under the crop	WINTER	April - June
05-02-00015	A) Potato seed (Super elite and elite) B) Sourghun-sudan grass seed	To be distributed to potato breeders for production of class A and B seed To be used for forge production	5000MT 200 MT	To be distributed to potato breeders in the center and south according to farm size. To be distributed to dairy station and animal breeders.	ALL YEAR	AS SOON AS POSSIBLE

B - FRUIT SEED AND SEEDLINGS:

Code	Item Description and its complementary items (if applicable)	Intended Use	Qty in unit	Allocation Criteria	Time frame	
					Field applicati on	Optimal Delivery Time
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	Seed will be multiplied in specialized nurseries, the seedling will be distributed to farmers	DECEMBER - JANUARY	April - June
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	Seed will be multiplied in specialized nurseries, the seedling will be distributed to farmers	DECEMBER - JANUARY	April - June
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	Seedling will be distributed to farmer on request, size of planted area under the fruit.	DECEMBER - JANUARY	April - June

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)	75000seed ing	Seedling will be distributed to farmer on request area.	DECEMBER - JANUARY	April - June
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)	75000 seeding	Seedling will be distributed to farmer on request area.	DECEMBER - JANUARY	April - June
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)	50000 seeding	Seedling will be distributed to farmer on request area/ and size of area under the crop.	DECEMBER - JANUARY	April - June
05-02-00022	Olive rooted-stem cutting	To install olive orchid project and serving olive producers	5 million	Routed stem will be distributed to farmer on request area and size of area under the crop	All year round	April - June

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	The hormone will be distributed by the state company of orchids to the growers in the governorates	All year round	April - June
05-02-00024	A) Pruning saw B) secateurs	To be used by the state board of orchids and growers in the 15 governorates in pruning activities	500 10000	The saws will be distributed to the company orchids and growers in the 15 governorates	All year round	April - June
05-02-00025	Mulching polyathelene	To be used by the state board of orchids and growers in the nurseries	50 MT	It will be distributed to the company and the growers in the 15 governorates	All year round	April - June
05-02-00026	Black plastic sac 30 X 30 CM 15 X 30 CM seedling tray	=	10 MT 200 MT 500000 Pcs	=	=	April - June
05-02-00027	Netting shade Sheding 50% Sheding 75%	=	50000 M2 50000 M2	=	=	April - June
05-02-00028	Chessel 65 Cm 70 Cm	To be used in land preparation in the state company of orchids and growers	50 50	=	=	April - June

05-02-00029	Green houses structure 500 M2 with accessorie 180 M2 with accessories (galvanised tubes)	To be used by farmers in winter protected vegetable production and also for orchid nurseries	200 houses 200 houses (approx. 500MT of tubes)	Horticulture and forestry company , potato seed producers , vegetable growers in the 15 governorates	=	April - June
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C - FERTILIZERS

Code	Item Description and its complementary items (if applicable)	Intended Use	Qty in unit	Allocation Criteria	Time frame	
					Field Applicati on	Optimal Delivery Time
05-02-00030	Di ammonium phosphate	Will be spread in different fields crops (farmers)	40000mt	State of soil fertility/size of cultivated area.	ALL YEAR ROUND	April - June
05-02-00031	Potassium sulphate	Will be spread in vegetable fields both opened and covered (farmers)	5000mt	State of soil fertility/size of cultivated area	ALL YEAR ROUND	April - June
05-02-00032	Magnesium Sulphate	Will be used in vegetable fields (farmers)	150mt	State of soil fertility/size of cultivated area	ALL YEAR ROUND	April - June
50-02-00033	Ferrous Sulfate FeSo4 (Min 19-20 %)	Will be spread in vegetable fields both opened and covered (farmers)	40mt	State of soil fertility/size of cultivated area	ALL YEAR ROUND	April - June
05-02-00034	Zinc Sulfate ZnSO4 (35%)	Will be spread in vegetable fields both opened and covered (farmers)	40mt	State of soil fertility/size of cultivated area	All year round	April - June

05-02-00035	Micro Neturen fouler fertiliser	Will be spread in vegetable fields both opened and covered (farmers)	50mt	State of soil fertility/size of cultivated area	All year round	April - June
05-02-00036	Cupper sulphate CuSO ₄ H ₂ O (35 % Cu)	Will be spread in vegetable fields both opened and covered (farmers)	20mt	State of soil fertility/size of cultivated area	All year round	April - June
05-02-00037	Manganese sulphate MnSO ₄ 3H ₂ O (28 % Mn)	Will be spread in vegetable fields both opened and covered (farmers)	40mt	State of soil fertility/size of cultivated area	All year round	April - June
05-02-00038	(TSP) Citrate and water solubility 46 % P ₂ O ₅ .P ₂ O ₅ soluble in water not less than 30 % Humidity 1.7 Max.	Will be spread in vegetable fields both opened and covered (farmers)	10000 mt	State of soil fertility/size of cultivated area	All year round	April - June

**D - The installation of new
banana nursery**

Code	Item Description and its complementary items (if applicable)	Intended Use	Qty in unit	Allocation Criteria	Time frame	
					Field Applicati on	Optimal Delivery Time
05-02-00039	Complete green house	For (5) ha	To install pilot project for banana plantatio n (nursery)	Articulator and forestry company and banana plantation owners	The farm will be establish ed in the central part of the country to serve banana producer	April - June
05-02-00040	Drip irrigation unit	For (5) ha	To install pilot project for banana plantatio n (nursery)	Articulator and forestry company and banana plantation owners	The farm will be establish ed in the central part of the country to serve banana producer	April - June

05-02-00041	Heating and cooling system	For (5) ha	To install pilot project for banana plantation (nursery)	Articulator and forestry company and banana plantation owners	The farm will be established in the central part of the country to serve banana producer	April - June
05-02-00042	Fibre glass for green house	For (5) ha	To install pilot project for banana plantation (nursery)	Articulator and forestry company and banana plantation owners	The farm will be established in the central part of the country to serve banana producer	April - June
05-02-00043	Shading net	For (5) ha	To install pilot project for banana plantation (nursery)	Articulator and forestry company and banana plantation owners	The farm will be established in the central part of the country to serve banana producer	April - June

05-02-00044	Tractor 33 HP with accessories	2.00	To install pilot project for banana plantation (nursery)	Articulator and forestry company and banana plantation owners	The farm will be established in the central part of the country to serve banana producer	April - June
05-02-00045	80 KVA generators	1.00	To install pilot project for banana plantation (nursery)	Articulator and forestry company and banana plantation owners	The farm will be established in the central part of the country to serve banana producer	April - June
05-02-00046	Banana seedling	12,000.00	To install pilot project for banana plantation (nursery)	Articulator and forestry company and banana plantation owners	The farm will be established in the central part of the country to serve banana producer	April - June

**E - 1 : Rehabilitation of the
extension centers .**

Code	Item Description and its complementary items (if applicable)	Intended Use	Qty in unit	Allocation Criteria	Time frame	
					Field Applicati on	Optimal Delivery Time
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 .	2.00	To support the activity of the state board of extension services in the different extension centers located in the following governora tes	According to the requirements of extension centers in baghdad , Nenava , Tameem , Wasit , Basrah	All year round	April - June
05-02-00048	Motor cycles	1200 Pcs	=	For Agricultral units working with farmer cooperatives	=	=
05-02-00049	Battery Charger for (NI-CD) batteries (BC-1WDCE).	4.00	=	=	=	=
05-02-00050	Video Cassette recorder Betacam SP (PVW-2800P) .	2.00	=	=	=	=

05-02-00051	Video Cassette player Betacam SP (PVW-2650P) for editing .	200.00	=	=	=	=
05-02-00052	Remote Control Editor (RM-450CE), editing control unit .	1.00	=	=	=	=
05-02-00053	Color Monitor with quad decoder and standard resolution in line slot mask CRT. Digital. (CVS-37-PS) 14" .	4.00	=	=	=	=
05-02-00054	(NI-CD) Batteries (NP1A) .	30.00	=	=	=	=
05-02-00055	Metal type cassettes SP with 20 minute ; 30 minute ; 60 minute	150.00	=	=	=	=
05-02-00056	Cables for connections to the editing system	Round	=	=	=	=
05-02-00057	Dynamic microphone (NEKMIC) .	4.00	=	=	=	=
05-02-00058	Video Cassette recorder V.H.S (multi-system) .	5.00	=	=	=	=
05-02-00059	Television (multi-system) with remote control .	10.00	=	=	=	=
05-02-00060	Photograph Camer motors , auto focus . (recently) .	3.00	=	=	=	=
05-02-00061	Portable Loudspeakers operate with batteries .	5.00	=	=	=	=
05-02-00062	Portable Audio Recorder .	2.00	=	=	=	=
05-02-00063	Computer with all the accessories. (recently) .	2.00	=	=	=	=
05-02-00064	Laser Printer for teaching .	10.00	=	=	=	=
05-02-00065	Spare parts for all the Audio and Video Equipments .	Round	=	=	=	=
05-02-00066	Slide projector with the screens .	5.00	=	=	=	=
05-02-00067	Overhead projector with the screens .	5.00	=	=	=	=

05-02-00068	Editing Unit for Radio Programm	1.00	=	=	=	=
05-02-00069	Data Show	1.00	=	=	=	=
05-02-00070	Overhead Transparencies	10.00	=	=	=	=
05-02-00071	Field Vehicle	10.00	=	=	=	=
05-02-00072	Field Vehicle for video show	2.00	=	=	=	=
05-02-00073	Video Unit 40"	2.00	=	=	=	=
05-02-00074	Field Soil Analysis Unit	250.00	=	=	=	=
05-02-00075	Portable Units to measure grain humidity.	50.00	=	=	=	=
05-02-00076	Aircondioning split units 2~4 Ton	500.00		=	=	=
05-02-00077	Cooler machine (for water)	200.00	=	=	=	=
05-02-00078	Electric Generator 150 K.V.	2.00	=	=	=	=

E - 2 Requirement for horticulture labrotaries

Code	Item Description and its complementary items (if applicable)	Intended Use	Qty in unit	Allocation Criteria	Time frame	
					Field Applicati on	Optimal Delivery Time
05-02-00079	UPVS pipes according to LSO standard7473-1979 -110 mm Ø	For green house and Labs. Rehabilitarion	300 m	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
05-02-00080	aluminum pipes for RO system 15 mm Ø 20 mm Ø 25 mm ?	For green house and Labs. Rehabilitarion	20 m	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible

05-02-00082	Supply complete vacuum system with 2 pumps each of 7 l/s discharge . The system shall contain 300l tank , all necessary valves , gages , switches & an electrical panel	For green house and Labs. Rehabilitarion	10 Nos 3 Nos	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
05-02-00083	Vacuum outlets 15 mm Ø	For green house and Labs. Rehabilitarion	1 set	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible

05-02-00085	<p>Liquid Chillers</p> <p>Air Cooled liquid chillers of a capacity of 100 tons (351.6 kw) Rated at 52c ° outdoor air temperature . The chiller shall be operated with 10% by weight ethylene Glycol Solution of inlet/outlet temperature 7.5 c ° / 2c ° 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 ° instead of 4.5 c ° obtained in ordinary water chillers. The chiller shall be suitable for 380v,3ph , 50 hz power supply & outdoor installation</p>	For green house and Labs. Rehabilitarion	1 set	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
05-02-00086	<p>Chilled liquid pumps</p> <p>The chilled liquid pump shall be of a capacity 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</p>	For green house and Labs. Rehabilitarion	2 set	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible

05-02-00087	<p>Air Duct Heaters</p> <p>The air duct heaters shall be of the special 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</p> <p>Heater (1) cap.(Kw) 12 No.of Stage 4 Airflow rate (l/s) 3000 Sliplin Direction H</p> <p>Heater (2) cap.(Kw) 30 No.of Stage 5 Airflow rate (l/s) 1320 Sliplin Direction H</p> <p>Heater (3) cap.(Kw) 15 No.of Stage 5 Airflow rate (l/s) 750 Sliplin Direction V</p> <p>Heater (4) cap.(Kw) 36 No.of Stage 4 Airflow rate (l/s) 4300</p>	For green house and Labs. Rehabilitarion	2.00	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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05-02-00088	<p>Volume flow rate Controllers</p> <p>The volume flow rate controllers shall be able to control any desired air flow Rate from (0-750) l/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 .</p>	For green house and Labs. Rehabilitarion	Round	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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05-02-00089	<p>Fan Coil Units</p> <p>The fan coil units shall be of floor mounted vertical discharge and face return air inlet . The unit shall have the following features:-</p> <ul style="list-style-type: none"> -Air Recirculation Rate =2574 L / S -Air condaition on coil at minimum room temp= 16°C db & 10.5°C wp Air off coil at minimum room temperature of 16 c ° = 8 c ° db and 6.8 c ° wb -Total Capacity (watts) =25330 -Sensible Capacity (watt) = 25330 -Entering ethylene glycol (10% by weight) temperature = 4 c ° -Ethylene Glycol temperature rise = 5.5 c ° <p>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 within accuracy of +_1c ° maximum.</p> <p>Maintained room air temperature can be setted at any temperature between 16 to 28 c °</p>	For green house and Labs. Rehabilitarion	Round	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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05-02-00090	<p>Air Handling Units The air handling units shall be operated with totally fresh air and they shall have a total static pressure equal to the specified external static pressure plus the Internal static pressure which shall be specified and added by the unit manufacturer.</p> <p>AHU1 AHU2 Air flow rate (l/s) 3000 1340 Total cooling capacity(KW) 190 57 Sensible Capacity(KW) 155 56 Chilled liquid temperature 2/7.5 2/7.5 in/out c Air on coil c° db/Wb 47/24 2/7.5 Air off coil c° db/Wb 6/5.6 14/13 Apparatus dew point C 5 12.5 External static pressure, 15 15 MmH2O Chilled liquid flow rate, l/s 8.3 2.5</p>	For green house and Labs. Rehabilitation	Round	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
05-02-00090	<p>After coil air temperature range controlled by the three way valve 4-18C AHU1 Standard range AHU2 Power supply available 380- 3ph-50Hz 220-1ph-50Hz</p>	For green house and Labs. Rehabilitation	Round	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible

05-02-00091	05-02-0009105-02-0009205-02-0009305-02-0009405-02-0009505-02-00096 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 output Range 2-30 Kg/hr - Power consumption 20Kw maximum - Power supply 380V-3Ph-50HZ - 220V-1Ph-50HZ	For green house and Labs. Rehabilitation	4.00	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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05-02-00092	<p>Main distribution board (M.D.B) consist of - One 4-pole Air circuit 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 operation on 400V, 50Hz 3-phase systems . All steel shall be finally finished with enamel</p>	For green house and Labs. Rehabilitarion	1.00	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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05-02-00093	<p>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) - one voltmeter (0-500V) With its 4-position selector switch, potential transformer and protective fuses (Fitted on the main incoming door).</p>			Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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05-02-00093	- One 4-Pole Load break isolator 1200A 600 Volts (Main isolator) - Two 4-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 construction .	For green house and Labs. Rehabilitarion	Round	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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	75.00	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
05-02-00095	Ditto -but suitable for direct mounting on walls or surfaces. (type F2)	For green house and Labs. Rehabilitarion	40.00	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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	30.00	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible

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	50.00	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
05-02-00098	1x 500 mm ² PVC insulated with steel taped armoured cable PVC sheathed for under ground use.	For green house and Labs. Rehabilitarion	300 M. L	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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 ° to 50 C °)	For green house and Labs. Rehabilitarion	1 SET	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
05-02-00100	24 hours electronic timing switch three-phase 100 A , 400 Volts ratings.	For green house and Labs. Rehabilitarion	6.00	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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 and Labs. Rehabilitarion	1.00	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible

05-02-00102	<p>- 12 KV 600 A TP busbar system . - One Lood break swith 12KV,400A. - 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 necessary protecting devices. - Low tension Side: - One air circuit breaker (ACB) 600A 600 Volts with overload & 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. - Three ammeters (0-1500A) with their current transformers. - One Voltmeter (0-500V) with its selector switch (4-positions) & potential transformers with their protective devices. - One power factor meter.Three</p>	For green house and Labs. Rehabilitarion	1 complete unit	Hort. comp. Tissue culture lab.	All days in the year	As soon as possible
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F: Improvement of agricultural tractor production and irrigation system

Code No.	Description	Intended use (and end user)	Qty in unit	Allocation criteria	Time Frame	
					Filed Application	Optimal Delivery
05-02-00103	Raw materials & components for 500 Agricultural Tractors	Increase Tractors production capacity	1000 tons & 500 sets	improve productivity of tractors	All year round	as soon as possible
05-02-00104	Raw materials for manufacturing nuts & screws (bolts)	Increase Tractors production capacity	1120 tons	improve productivity of tractors	All year round	as soon as possible
05-02-00105	Raw materials for manufacturing irrigation systems	Increase irrigation systems production capacity	2750 tons	improve productivity of irrigation systems	All year round	as soon as possible
05-02-00106	Thermal (fire brick for furnaces	Increase Tractors production capacity	350 tons	improve productivity of tractors	All year round	as soon as possible
05-02-00107	Alloys (Aluminum ,Zinc, Lead , Flux) for thermal galvanizing	Increase Tractors production capacity	400 tons	improve productivity of tractors	All year round	as soon as possible
05-02-00108	Pig Iron	Increase Tractors production capacity	5000 tons	improve productivity of tractors	All year round	as soon as possible
05-02-00109	Dies for manufacturing bolts& nuts with carbide inserts band tap for nut rolling die for bolts	Increase Tractors production capacity	1500 pcs	improve productivity of tractors	All year round	as soon as possible
05-02-00110	ploughshares for agricultural implements	Increase Tractors production capacity	10000 pcs	improve productivity of tractors	All year round	as soon as possible

05-02-00111	Sprayers with spare parts	Increase the capacity of agricultural crops	500 pcs	improve productivity of agricultural sector	All year round	as soon as possible
05-02-00112	Polyethelene shoots for manufacturing irrigation systems	Increase irrigation systems production capacity	5000 tons	improve productivity of irrigation systems	All year round	as soon as possible

G : Improvement of Sugar production

CODE NO.	ITEM DESCRIPTIONS COMPLEMEENTRAY ITEM (IF-PLICABLE)	INTENDED USE (AND TARGETED END USER	QTY IN UNIT	ALLOCATION CRITERIA	TIME FRAME	
					FIELD APPLICATION	AS SOON AS POSSIBLE
05-02-00113	raw Sugar	to increase Efficiency of production	120000Mt. /ton	improve production of Sugar cen factory	All years round	As soon as possible
05-02-00114	Gas Co2 compressor inlet pressure 0.7 kg/cm2 out let pressure 0.9 kg/cm2 gauge Q = 2000/hr cooling water temp. 20-30 C R.P.M for motor 1450.	to increase Efficiency of production	2.00	improve production of Sugar cen factory	All years round	As soon as possible
05-02-00115	portable air compressor actual free air. delivery 10.5 m3 /min Normal operating pressure 7 kg/cm2 full load speed 1750 R.P.M	to increase Efficiency of production	2.00	improve production of Sugar cen factory	All years round	As soon as possible

05-02-00116	Crop Tractors Horse. Power 320 Trance Automatic 5 forward speed 1 revers. Bracke power hydulic with Attachment (harrow, Subsiol, Dittcher) with 15% Spear parts	to woking in farms Suger cane	6.00	improve production of Suger cen factory	All years round	As soon as possible
05-02-00117	Hydraulic Excavtor with the following attachment 1. Earth moving (general, purpose & have duty) 2. Trench with Ejector 3. Ditch cleaner with teeth 4. Ditch cleaner with reversible blade 5. V- line bucket 6. four wheels: 18-19.5 7. Digging depth: 9.5-10Mt. 8. Bucket size:1.5-2.m3	to increase Efficiency of production	6.00	improve production of Suger cen factory	All years round	As soon as possible
05-02-00118	wheel loader diesel Engine :6 cylinder horse power: 260-300, power train troque converter,Voltage :24 Volts, Alternator: 65A/H. heaped capacoity :3 m3. Buckers: 2.5-3.5m3. Steering type: hydrostatic with special rools and 10% spear parts	to increase Efficiency of production	15.00	improve production of Suger cen factory	All years round	As soon as possible
05-02-00119	tipper 12 Cubic meters, Option- Merecdes 6*4. Opting 2- Scania 6*4. Horse power 300-360. Capacity: 12 Cubic meter. (24 ton patload cap)	to increase Efficiency of production	10.00	improve production of Suger cen factory	All years round	As soon as possible

05-02-00120	tipping Trailer. Capacity 25-30. Ton . Diesel engine: Scania or Mercedes Chassis. Option1- Mercedes. Option 2- Scania. Horses power 360. Type: 1200*24	to increase Efficiency of production	10.00	improve production of Suger cen factory	All years round	As soon as possible
05-02-00121	fire fighting unit. Wheel base 3800mm. Water tank: capacity : 25..-3000 liter. Water pump: capacity: 1800 liter/hr. pressure :10bar. Hydraulic Telescopic ladder max. height 9 meter. Foam tank: capacity: 300liters	to increase Efficiency of production	2.00	improve production of Suger cen factory	All years round	As soon as possible
05-02-00122	freight lifter (Fork lift) capacity: 15000 kg at 600 mm. Load capacity to 6160 mm. Lift mast, lift height 40780 mm. Fork length: 200M. Motor: Perkins model 6-3544.cylinder. Type: front drive axle 4 POS 1200x20 rear steer axle 2 Pos 1200x20.optional.	to increase Efficiency of production	4.00	improve production of Suger cen factory	All years round	As soon as possible
05-02-00123	water tubes Steam boiler. Working pressure: 45bars. Temp. of steam: 450C. Max. Flow: 110t/h. continuous 100T/h. Economizer: seamless tubes of big Area for heat transfer and Easy maintenance. Force Draft fan and induced draft fan 4 Burners. Feed water temp. 150C. feed water pumps: two spare parts five years	to increase Efficiency of production	2.00	improve production of Suger cen factory	All years round	As soon as possible

05-02-00124	ambulance	to treatment the Emergency	2.00	to treatment the Emergency Through working	All years round	As soon as possible
05-02-00125	Pick up hilux Duple cabin 2 WD. Long Wheel base. Engin (IRZ) baseType patrol operated 4 cal - 2000 cc Water cooling system Down - Draft - 2 Barrel Single. Carburetor horse power 103 HP. Transmission: 5 speed manual Trans and one reverse. Suspension: Frount = Double wishbone and Torsion bar. rear = front = Disc. Beake = front = Disc.Rear = Drum	to working in farms suger cane consequently increase suger pproduction	24.00	improve production of Suger cen factory	All years round	As soon as possible
05-02-00126	Defernce Vaves (Gate valves , Global Valvs, Batter fly Valve). Caes: case: cast iron. Shaft: St. steel. Gate: cast iron Ring: St. steel. Flange: Not welded	to maintenance Suger Factory	800.00	improve production of Suger cen factory	All years round	As soon as posible
05-02-00127	deferent pumps	to rehabilitate suger factory	40.00	improve production of Suger cen factory	All years round	As soon as possible
05-02-00128	defernet bearings	to maintenance Suger Factory	1,500.00	improve production of Suger cen factory	All years round	As soon as possible

05-02-00129	track-type tractor. Florse power 320 HP. Caterpillar four - storke - sysle. Diesel model weith six cylinder eurbo changed individual adhurstment full inhection pumps with mullets shenk 3 pitch Digging Depth 835mm .Angle dozer: Type> lengfth x Height (4850x1140) with 20% spare parts Special tools	to working in farms suher cane consequently increase suger pproduction	6.00	improve production of Suger cen factory	All years round	As soon as posible
05-02-00130	suger beet seeds	to increase Suger QTY	100ton	improve production of Suger beet factory	All years round	As soon as posible
05-02-00131	air compresor	to increase Efficiency of production	4.00	improve production of Suger beet factory	All years round	As soon as posible
05-02-00132	Electriccal motor	to increase Efficiency of production	45.00	improve production of Suger beet factory	All years round	As soon as posible
05-02-00133	P.P woven bag and thread	to increase Efficiency of production	2000000 bags & 8000 cons	improve production of Suger beet factory	All years round	As soon as posible
05-02-00134	Anion risen	to increase Efficiency of production	30000 liter	improve production of Suger beet factory	All years round	As soon as posible
05-02-00135	general Activitad carbon	to increase Efficiency of production	100 ton	improve production of Suger beet factory	All years round	As soon as posible

05-02-00136	Anti foam	to increase Efficiency of production	100 ton	improve production of Suger beet factory	All years round	As soon as posible
05-02-00137	filter cloth	to increase Efficiency of production	1,000.00	improve production of Suger beet factory	All years round	As soon as posible
05-02-00138	diesif irrigation complete machine pump	to be used in the plantaition area for sugar beat	500.00	improve production of Suger beet factory	during the srason	As soon as posible

H: Improvement of fertilizers production**PLANT 1**

CODE	ITEM DESCRIPTION AND ITS COMPLEMEENTRAY ITEMS (IF APPLICABLE)	INTENDED USE (AND TARGETED END USER)	QTY. IN UNIT	ALLOCATION CRITERIA	TIME FRAME	
					FILED APPLICA-TION	OPTIMAL DELIVERY
05-02-00139	REHABILITATION OF BENEFICIATION (ONE LINE)	To revamping the beneficiation plant	1EA	To Increase capacity of beneficiation plant		as soon as possible
05-02-00140	REHABILITATION OF PHOSPHORIC ACID (ONE LINE)	To revamping the H3PO4 plant	1EA	To Increase capacity of P2O5 plant		as soon as possible
05-02-00141	REHABILITATION OF NPK FERTILIZER (TWO LINES)	To revamping fertilizer unit	2EA	To Increase capacity of fertilizer andimprovet the quality		as soon as possible
05-02-00142	REHABILITATION OF AMMONIA	To revamping ammonia plant	1EA	to re- product liquid ammonia for the fertilizers production		as soon as possible
05-02-00143	REHABILITATION OF FERTILIZER STORE AND HANDLING	To revamping fertilizer handling unit	1EA	To Increase capacity of sacking		as soon as possible
05-02-00144	REHABILITATION OF COOLING TOWER	to revamping Cooling water unit	1EA	to increase capacity of the unit		as soon as possible
05-02-00145	REHABILITATION LEFT PUMP STATION	to revamping pump station	Diff.	to increase capacity of the water pumping		as soon as possible

05-02-00146	REHABILITATION OF DEMINI. WATER	revamping of demini. Water unit	2EA	to increase capacity of the Dimini. Water		as soon as possible
05-02-00147	REHABILITATION COMPRESSOR UNIT	revamping of air compressors unit	1EA	to increase capacity of instrument and plant air		as soon as possible
05-02-00148	NEW GYPSUM STACK LINING	to revamping utility unit	Diff.	to store the effluent industrial		as soon as possible
05-02-00149	REHABILITATION OF SLIM AND GYPSUM DISPOSAL UNIT	to revamping utility unit	Diff.	to store the effluent industrial		as soon as possible
05-02-00150	RECYCLING INDUSTRIAL WATER TREATMENT	to revamping utility unit	Diff.	to re-use industrial water		as soon as possible
05-02-00151	TREATMENT OF SOIL AND FOUNDATION OF ALKAIM COMPLEX	to re-inforce the soil and foundation	Diff.	to re-inforce the soil and foundation		as soon as possible
05-02-00152	PROCESS BLOWERS	to revamping sulphuric acid	Diff.	to increase capacity of sulphuric acid		as soon as possible
05-02-00153	CLINKER BRICKS & CEMENT	to revamping sulphuric acid	Diff.	to increase capacity of sulphuric acid		as soon as possible
05-02-00154	CATALYST	to revamping sulphuric acid	Diff.	to increase capacity of sulphuric acid		as soon as possible

05-02-00155	CERAMIC PACKING	to revamping sulphuric acid	Diff.	to increase capacity of sulphuric acid		as soon as possible
05-02-00156	BUNDLE + PIPING + COILS & ACCESOREIS	to revamping sulphuric acid	Diff.	to increase capacity of sulphuric acid		as soon as possible
05-02-00157	HOT PLATE	to revamping sulphuric acid	Diff.	to increase capacity of sulphuric acid		as soon as possible
05-02-00158	INSTRUMENTATION	to revamping sulphuric acid	Diff.	to increase capacity of sulphuric acid		as soon as possible
05-02-00159	PUMPS AND AGITATOR	to revamping sulphuric acid	Diff.	to increase capacity of sulphuric acid		as soon as possible
05-02-00160	LINING SULPHURIC ACID TOWER	to revamping sulphuric acid	Diff.	to increase capacity of sulphuric acid		as soon as possible
05-02-00161	VALVES	to revamping sulphuric acid	Diff.	to increase capacity of sulphuric acid		as soon as possible
05-02-00162	HAVY DUTY WATER TRUCK AND CHASSIS TRUCK	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	4 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00163	ALLOY STEEL AND ST.STEEL TUBE	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	DIFF.	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible

05-02-00164	FORK LIFT 3 TON WITH SPARE PARTS	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	8 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00165	HYDRAULIC CRANE 20TON WITH SPARE PARTS.	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	5 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00166	COMPLETE BOBCAT WITH SPARE PARTS	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	5 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00167	BULLDOZER D8K OR EQUIVALENT AND WHEELED LOADING SHOVEL WITH SPARE PARTS	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	12 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00168	UNIVERSAL EXCAVATOR DRAGLINE	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	2 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	FILED	as soon as possible
05-02-00169	SEMLESS TUBES FOR CONDENSER C3/C2 & RHP	TO REHABILITATE OF UTILITIES PLANT	4000 EA	TO INCREASE CAPACITY OF UTILITIES PLANT	FILED	as soon as possible
05-02-00170	BEARINGS	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	DIFF.	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00171	PORTABLE SCREW MOBILE COMPRESSOR	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	4 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION		as soon as possible
05-02-00172	CARBON STEEL PIPE	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	100000 MTR	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible

05-02-00173	VALVES	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	DIFF	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00174	VALVES	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	DIFF.	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00175	SPARE PARTS FOR CHAIN ELEVATOR	TO REHABILITATE FERTILIZER PLANT	DIFF.	TO INCREASE CAPACITY OF FERTILIZER PLANT	=	as soon as possible
05-02-00176	GEAR BOXES	TO REHABILITATE FERTILIZER PLANT	62 EA	TO INCREASE CAPACITY OF FERTILIZER PLANT	=	as soon as possible
05-02-00177	L.V MOTORS	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	DIFF.	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00178	DUMP TRUCK AND CHASSIS TRUCK	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	29 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00179	FULL FILLING TRUCK	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	2 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00180	CONCERET MIXER TRUCK	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	1 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00181	TOURIST BUS	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	20 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible

05-02-00182	HYDRAULIC EXCAVATOR AND WHEELED EXCAVATOR	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	5 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00183	HEAVY DUTY LOW LOADER	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	2 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00184	DESIEL GENERATOR AND PORTABLE UTILITY LIGHT	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	10 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00185	SEAMLESS TUBES	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	2000 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00186	SEAMLESS TUBE FOR BOILER	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	DIFF.	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00187	AMBULANCE	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	2 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00188	SAFETY EQUIPMENTS	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	DIFF.	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00189	MACHINE FOR WORKSHOP	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	4 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00190	SILO FOR CEMENT	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	1 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible

05-02-00191	GAR BAG TRUCK	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	2 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00192	CONTROL VALVES	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	91.00	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00193	TYRES.	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	124 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00194	CONVYER BELTS	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	DIFF.	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00195	H.V MOTORS 6.6 KV	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	26 NOS.	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00196	SPARE PARTS FOR CRUSHER	TO REHABILITATE OF MINE PLANT	DIFF.	TO INCREASE CAPACITY OF MINE PLANT	=	as soon as possible
05-02-00197	WHEEL LOADER 992B OR EQUIVALENT	TO REHABILITATE OF MINE PLANT	2 EA	TO INCREASE CAPACITY OF MINE PLANT	=	as soon as possible
05-02-00198	POWER TRANSFORMER	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	16 EA	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00199	CONTROL VALVE	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	DIFF.	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible

05-02-00200	LABRATOR AND POLLUTION DEVICES	TO REHABILITATE ALKAIM FERTILAZER COMPLEX	DIFF.	TO INCREASE CAPACITY OF FERTILAZER PRODUCTION	=	as soon as possible
05-02-00201	COMPLETE SWING HAND WITH SPARE PARTS	TO REHABILITATE OF FERTILIZER PLANT	DIFF.	TO INCREASE CAPACITY OF FERTILAZER PLANT	=	as soon as possible
05-02-00202	COMMUNICATION SYSTEM	TO REHABILITATE TO EXPANSION OF EXISTING SYSTEM	2 EA	TO INCREASE CAPACITY OF OF THE OLD SYSTEM	=	as soon as possible
05-02-00203	MIST ELEMINTOR	TO REHABILITATE OF SULPHURIC ACID PLANT	DIFF.	TO INCREASE CAPACITY OF OF SULPHURIC ACID PLANT	=	as soon as possible

PLANT 2

CODE NO.	ITEM DESCRIPTION & ITS COMPLEMENTARY ITEMS (IF APPLICABLE)	INTENDED USE & ITS TARGETED END USER	QTY. IN UNIT	ALLOCATION CRITERIA	TIME FRAME	
					OPTIMAL DELIVERY	FIELD APPLICATION N
05-02-00204	PRODUCTION DEPT. NALCO	MAINTENANCE CONTINUITY OF UREA PRODUCTION	DIFFERENT QTY.	FOR AMMONIA UNITS IN UREA PLANT	AS SOON AS POSSIBLE	ALL YEAR AROUND
05-02-00205	MEMBRANE		1,000.00			
05-02-00206	RESIN		44000 Litre			
05-02-00207	CATALYST		90 Cubic meter			
05-02-00208	MAINTENANCE DEPT.					
05-02-00209	TUBES FOR H. E.		DIFFERENT QTY.			
05-02-00210	TOOLS FOR H. E.		3,605.00			
05-02-00211	PIPES & FITTINGS		DIFFERENT QTY.			
05-02-00212	Steel plate		174 tons			
05-02-00213	Valves of various types like Ball valves, Globe valves, Check valves, Needle valves etc, alongwith related spare parts		1809 NOS			

PLANT 3

CODE	ITEM DESCRIPTION & ITS COMPLEMENTARY ITEMS (IF APPLICABLE)	INTENDED USE (AND TRAGGETED END USER)	QTY. IN UNT.	ALLOCATION CRITERIA	TIME FRAME	
					OPTIMAL DELIVERY	FIELD APPLICATION N
05-02-00214	COMPLETE HIGH PRESSURE CARBAMATE CONDENSER	REVAMPING OF UREA FERTILIZER PLANT	1.00	INCREASE PRODUCTION OF UREA	URGENT	ALL YEAR ROUND
05-02-00215	TRANSFER LINE 107D		1.00			
05-02-00216	TUBE SHEET FOR 101C & NOZZEL FLANGES		BULK			
05-02-00217	COMPRESSORS & TURBINES		4.00			
05-02-00218	TUBES FOR HEAT EXCHANGERS		BULK			
05-02-00219	VALVES		BULK			
05-02-00220	CONTROL & MEASURMENT INSTRUMENTATIONS		BULK			
05-02-00221	HIGH TENSION MOTORS		4.00			
05-02-00222	CATALYST FOR AMMONIA PLANT		BULK			
05-02-00223	REVERSE OSMOSES UNIT 200 m3/hr (R-O)		1.00			
05-02-00224	GEAR BOX FOR COOLING TOWER FANS		10.00			

I : Improvement of agricl tural plastic cover production

CODE NO.	DESCRIPTION	INTENDED USE & TARGETED & USER	QTY IN UNIT	ALLOCATION CRITERIA	FRAME TIME	
					OPTIMAL DELIVERY	FILED APPLICATION N
05-02-00225	BOILER CAPACITY 200 TON/HR PRESSURE 42 BAR	Maintain continuety of producing plastic covers in petrochemical palnt	1.00	For plastic cover production with in the petrochemical plant	as Soon as possible	All Year round
05-02-00226	PE COMPOUNDING LINE	=	1.00	=	=	=
05-02-00227	ETHYLENE PRODUCT PUMP	=	1.00	=	=	=
05-02-00228	HEAT EXCHANGER TUBES CARBON STEEL C.S		DIFF	=	=	=
05-02-00229	VALVES ,PIPES AND FITTING C.S	=	DIFF	=	=	=
05-02-00230	PLATES FOR GENERAL PURPOSES	=	5,000.00	=	=	=
05-02-00231	CRACKING HEATER PIPES AND ACCESSARIES	=	DIFF	=	=	=

J: Requirements for Agricultural Bulletins, Magazines, Pamphlets for research and extension

CODE NO.	DESCRIPTION	INTENDED USE (AND TARGETED END USER)	QTY IN UNIT	ALLOCATION CRITERIA	TIME FRAME	
					FILED APPLICATION	OPTIMAL DELIVERY
05-02-00232	Peper different sizes	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	30 Tons	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00233	Cartoon paper for filing different sizes	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	50 Each	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00234	Carbon paper for typing	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	60 Boxes, 50 pack each	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE

05-02-00235	Stensil paper for typing	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	60 Boxes, 50 pack each	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00236	Writing ink (Coulor Blue + Black)	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	5000 Bottle	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00237	Correcting ink (While)	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	2000 bottle	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00238	A) Pins	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	5000 Pack	For Ministry of Agriculture and state board of extension printing activities	l year arou	AS SOON AS POSSIBLE
	B) Clips		5000 Pack			
	C) Clippers different types		2000 Pack			

05-02-00239	Printing ink different colores	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	200 Kg	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00240	Computer papers different types	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	1500 Pack	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00241	Different cartridges and ribbins for computer printers	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	1500 Pcs	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00242	Printing plet different sizes	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	300 Pcs	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE

05-02-00243	Binding materia different sizes	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	6000 M2	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00244	Glue for binding	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	100 Kg	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00245	Ink for photo copy machines	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	500 pack	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00246	Rechargable hand light	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	150 Pcs	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00247	Chemicals for typing	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	100 Kg	For Ministry of Agriculture and state board of extension printing activities	1 year arou	AS SOON AS POSSIBLE
	A) Developers					
	B) Correction		100 Kg			
	C) Replex		100 Kg			

05-02-00248	Paper shredder	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	70 Pcs	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00249	Electrical cleaning machine	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	70 Pcs	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00250	Stand-by emergency lamp + Batteries	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	200 Pcs	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00251	Colore sperator with accessories	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	2.00	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00252	Film processor with accessories	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	2.00	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE

05-02-00253	Software for colore sperator	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	4.00	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00254	Card printer with spare parts and accessories	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	3.00	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00255	Digital camera (Computer connectable)	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	4.00	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00256	Computer system with accessories	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	3.00	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE

05-02-00257	Printing scanner	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	3.00	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00258	Computer laser printer	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	5 Pcs (2 Colored + 3 ordinary)	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00259	Resiograph printer with accessories and ink, films, rolls	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	2.00	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00260	Plet developer machine 50X70 cm	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	2.00	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE

05-02-00261	Map printer machine (roll type 90 cm)	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	2.00	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00262	U.V. dryer for packing (50X70cm)	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	2.00	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00263	Golden foiling machine with accessories and powder	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	2.00	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00264	Photo copying machines with accessories and spare parts	To be used in printing Agricultural Bulletins, Magazines, Pamphlets for research and extension	205 Each	For Ministry of Agriculture and state board of extension printing activities	All year a	AS SOON AS POSSIBLE
05-02-00265	Typewriter machines		100 Each			
05-02-00266	Boric Acid H3BO3		20 tons			