

ANNEX AGRI/ 17
RESEARCH, EXTENSION AND TRAINING SERVICES

ANNEX AGRI / 17 A - FARM EQUIPMENT AND TEACHING AIDS

Code	Item Description	Unit	Total Qty.	Proposed Allocation			Intended use	Complementary items	Optimal Application Date	Optimal Delivery Date	Target Beneficiaries
				DH K	ERB	SUL					
05-17-00001	Fully equipped mobile extension 4WD vehicle	Unit	3	1	1	1	Agricultural Research and Extension	Extension and Training	Dec.-99	Nov.-99	Extension staff and farmers
05-17-00002	4WD/double cabine/Toyota Hilux Pick-Up 6 cylinder Engine	Pcs	13	3	4	6	Agricultural Research and Extension		Dec.-99	Nov.-99	
05-17-00003	Offset printing press	Pcs	2	0	1	1	Agricultural Extension		Dec.-99	Nov.-99	
05-17-00004	Multi-media Projector	Pcs	22	5	7	10	Agricultural Extension		Dec.-99	Nov.-99	
05-17-00005	Digital Still Camera (Sony)	Pcs	25	6	8	11	Agricultural Research and Extension		Dec.-99	Nov.-99	
05-17-00006	Video in/out card	Pcs	9	2	3	4	Agricultural Extension		Dec.-99	Nov.-99	
05-17-00007	Public announcement system	Lot	16	3	5	8	Agricultural Extension		Dec.-99	Nov.-99	
05-17-00008	Truck	Pcs	3	1	1	1	Agricultural Research	Research station	Dec.-99	Nov.-99	
05-17-00009	Electric generator (100 KVA)	Pcs	3	1	1	1	Agricultural Research		Dec.-99	Nov.-99	
05-17-00010	Soil rotivator	Pcs	3	1	1	1	Agricultural Research		Dec.-99	Nov.-99	

05-17-00011	Laboratory equipment	Lot	3	1	1	1	Agricultural Research	Dec.-99	Nov.-99
05-17-00012	Soil testing equipment	Lot	6	2	2	2	Agricultural Research	Dec.-99	Nov.-99
05-17-00013	Machinery testing equipment	Lot	3	1	1	1	Agricultural Research	Dec.-99	Nov.-99
05-17-00014	Computer complete with laser printer, scanner and accessories	Pcs	3	1	1	1	Agricultural Research	Dec.-99	Nov.-99
05-17-00015	Plant breeding equipment	Lot	3	1	1	1	Agricultural Research	Dec.-99	Nov.-99
05-17-00016	Scientific literature and publications	US\$	124,973	41657	41657	41657	Agricultural Research	n.a.	n.a.

Total Estimated Budget US \$ 2,147,000

Quantity subject to market price and/or reschedule of fund at time of procurement

ANNEX AGRI / 17 B – RENOVATION, FIELD TRAINING AND CAPACITY BUILDINGS (CASH COMPONENT)

Code	Item Description	Unit	Total Qty.	Proposed Allocation			Intended use	Complementary items	Optimal Application Date	Optimal Delivery Date	Target Beneficiaries
				DHK	ERB	SUL					
05-17-00017	Renovation of extension and research infrastructures, demonstration farms, exhibition, extension publications and posters, training sessions for technical staff and farmers.	US\$	1493000	510500	407900	574600	Agricultural Extension and Research Stations	Research and Training Facilities	Dec.-99	Nov.-99	Research and Extension staff and farmers
05-17-00018	Renovation of agricultural workshop, tools equipment, consultancy, training and supplies for farm mechanization.	US\$	300,000	69000	102000	129000	Local capacity building	05-15-00003/11	Sep. 99	Aug. 99	12,120
05-17-00019	Consultancy, training and supplies for Animal Health and production and fish production.	US \$	360,000	70000	90000	100000	improvement of local cattle breed	None	Oct.99	Sept. 99	Livestock farmers

Total Estimated Budget US \$ 2,153,000

Quantity subject to market price and / or reschedule of fund at time of procurement

ANEX AGRI / 17A - BASIC RESEARCH, EXTENSION AND TRAINING SERVICES.

Code	Item Description	Unit	Total Qty.	Proposed Allocation			Intended use	Complementary items	Optimal Application Date	Optimal Delivery Date	Target Beneficiaries
				DHK	ERB	SUL					
05-17-00020	Soil testing materials and equipment	Lot	3	1	1	1	Agricultural Research	Research Stations	March-2000	Feb-2000	Research Stations and farmers

Estimated Budget US\$ 150 000

Quantity subject to market price and / or reschedule of fund at time of procurement

Code	Item Description	Unit	Total Qty.	Proposed Allocation			Intended use	Complementary items	Optimal Application Date	Optimal Delivery Date	Target Beneficiaries
				DHK	ERB	SUL					
05-17-00021	Balance (800gr. capacity)	Unit	3	-	3	-	Agricultural Research and Extension				Extension of staff and farmers
05-17-00022	4 WD 110 HP Agriculture Tractors with 10% fast-moving spare parts.	Pieces	1								
05-17-00023	2 WD 70-80 HP Agriculture Tractors with 10% fast-moving spare parts	Pieces	1								
05-17-00024	Seed drills with 10% fast moving spare parts	Pieces	2								
05-17-00025	Disc ploughs	Pieces	2								
05-17-00026	Seed dresser. As PO# 73299	Pieces	1								
05-17-00027	Disc harrow	Pieces	2								
05-17-00028	Seed cleaner.As PO# 54105	Pieces	1								
05-17-00029	Chopper.As PO# 75375	Pieces	1								
05-17-00030	Combine harvester	Pieces	1								

05-17-00031	Workshop tools and equipment as follows:						Local capacity building			
05-17-00031-1	Combined Welding and Electric Generator:Gen-set.	Lot	1							
05-17-00031-2	Reciprocating Air Compressor Stationary unit with fully-automatic operation (i.e. for automatic starting and stopping).	Lot	1							
05-17-00031-3	Belt Tension Gauge	Pcs	1							
05-17-00031-4	Pressure Tester for Cooling System and Radiator Cap	Pcs	1							
05-17-00031-5	Auto-light tester for checking Agricultural machines, trucks and ignition systems	Unit	1							
05-17-00031-6	Battery Service Kit	Lot	1							
05-17-00031-7	Battery Cell Tester	Unit	1							
05-17-00031-8	Digital multimeter, with accessories	Unit	1							
05-17-00031-9	Tool Assortment for Tractors 71 parts for Rolling tool and Repair. The Tool Assortment to be contained in a (Rolling Tool and Repair Kit, sheet steel structure, with 4 drawers, central locking with pad lock bottom container with tie bar. Loading capacity stationary 500 Kg. Loading capacity mobile 300Kg	Lot	1				Local capacity building			

05-17-00031-10	Tool Assortment for Electricians – 18 parts composed of the following	Lot	1			
05-17-00031-11	Electric column drilling machine up to Ø 22 mm	Unit	1			
05-17-00031-12	Grinding machine (column) Ø stone 200 mm	Unit	1			
05-17-00031-13	Oxy-acetylene welding set with complete accessories	Lot	1			
05-17-00031-14	Differential overhaul stand	Lot	1			
05-17-00031-15	Battery recharger for 2 batt	Lot	1			
05-17-00031-16	Hoist (1.5-2) ton capacity	Unit	1			

Extension of staff and farmers

05-17-00032	Mower (as PO 75434)	Pcs	1				Agricultural Research and Extension			
05-17-00033	Raker (as PO 75434)	Pcs	1							
05-17-00034	Pick-up baler (as PO 75211)	Pcs	1							
05-17-00035	Fruits and vegetables processing equipment/ a pilot plant consist of the following small scale equipment as follows:		1							
05-17-00035-1	a). 100 lt. double jacket cooker/ movable fitted with suitable basket	Unit	1							
05-17-00035-2	b). 120 lt. Steam blancher for Vegetable processing	Unit	1							
05-17-00035-3	c). Exhausting line (2m long and 0.3 m width) a tunnel with conveyer supplied with steam and with changeable speed and thermometers.	Unit	1				Agricultural Research and Extension			Extension of staff and farmers
05-17-00035-4	d). Small filling machine manually operated (capacity 25 Kg) for filling liquid processed foods and jams (manually operated)	Unit	1							
05-17-00035-5	e). 200-300 lt. Capacity steam retort for sterilization of canned foods, complete with basket and other required facilities	Unit	1							
05-17-00035-6	f). 100 ml. Glass Jars with metallic lids of plastic ring	Pcs	2000							

05-17-00035-7	g). 100 lt. vacuum pan for fruit juice concentration, all the parts in contact with the food must be made from stainless steel type AISI 304, complete with all accessories and spare parts for one year operation	Unit	1			
05-17-00035-8	h). Juice pulper (100 Kg/hr) for extracting juice from different fruits and vegetables, complete with all accessories and spare parts for one year operation, all parts in contact with food must made from stainless steel type AISI 304.	Unit	1			
05-17-00035-9	i). Multi purpose kitchen machine ‘ Kenwood” big size with all accessories	Unit	1			
05-17-00035-10	j). Laboratory baking oven (rotary type with six shelves for 12 baking molds) with 24 x 300 gr. metallic baking molds	Unit	1			

05-17-00035-11	k). Laboratory baking incubator (one cubic meter internal volume) with air circulation fan	Unit	1				Agricultural Research and Extension				Extension of staff and farmers
05-17-00035-12	l).0-4 C Refrigerator of 300 lt. with air circulation fan.	Unit	3								
05-17-00035-13	m). -10 to -30 C Freezer of 400 lt. Capacity for freezing fruits and vegetables with air circulation fan.	Unit	2								
05-17-00035-14	n). Filling machine (capacity 250 cans or jars / hr) manually operated all parts in contact with food must be made from stainless steel type AISI 304 suitable for liquid foods	Unit	1								
05-17-00036	Milk processing equipment as follows	Unit	1								
05-17-00036-1	a) 100 lt.Double jacket processing tank.for milk pasteurization,cheese and yogurt making with pump.	Unit	1								
05-17-00036-2	b) Small scale milk separator (100 lt./hr) for producing standardized milk and cream product.	Unit	1								
05-17-00036-3	c)Small scale butter churn (capacity 20 lt).	Unit	1								

05-17-00045	Portable hydraulic power take-off driven dynamometer and spare parts	Unit	3			
05-17-00046	Semi-mounted reversible plough with 10% fast moving spare parts.	Pcs	1			
05-17-00047	Semi-mounted reversible plough with soil packer transport frame & 10% fast moving spare parts	Pcs	1			
05-17-00048	Auto-reset heavy-duty sub-soiler with 10% fast moving spare-parts.	Pcs	2			
05-17-00049	Combinatory Cultivator with 10% fast moving spare parts.	Pcs	2			

05-17-00071	Forest tree seeds (Pinus halepensis var. Brutia).	kg	50			
05-17-00072	Forest tree seeds (Pinus pinea).	kg	50			
05-17-00073	Growth regulators (Ciradex No. 1,2 and 3)	kg	30			
05-17-00074	Egg incubator (capacity 500 eggs for research work)	pcs	20			

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05-17-00075	Engine performance/Cylinder Leakage Tester	Unit	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00076	Large Engine Analyser and accessories	Unit	2	-	2	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00077	Compression Tester (Diesel)	Unit	3	-	3	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00078	Vacuum and Fuel Pump pressure gauge	Unit	3	-	3	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00079	Ignition Timing light tester/probe light	Unit	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers

05-17-00080	Centrifuge for gerber dairy tests	Set	2	-	2	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00081	Incubator	Each	8	-	8	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00082	Compound microscope	Each	4	-	4	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00083	Binocular microscope	Each	8	-	8	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00084	Vertical autoclave	Set	2	-	2	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00085	Universal oven	Set	2	-	2	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers

05-17-00086	Magnifier	Pieces	50	-	50	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00087	Hot plate	Pieces	3	-	3	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00088	Balance compact, portable	Pieces	2	-	2	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00089	Overhead projector	Pieces	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00090	Slide projector	Pieces	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00091	Video camera	Pieces	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers

05-17-00092	Video recorder	Pieces	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00093	Camera	Pieces	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00094	Refrigerator/Freezer for laboratories	Pieces	6	-	6	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00095	Freezer for laboratories	Pieces	6	-	6	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00096	Seimhorst apparatus	Set	2	-	2	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00097	Gas chromatography (with accessories & spare parts)	Set	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers

05-17-00098	Liquid chromatography (HPLC) (with accessories & spare parts)	Set	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00099	Drying oven	Set	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00100	Sieve shaker	Set	2	-	2	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00101	Shaking water bath	Set	2	-	2	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00102	Burner, Bunsen, natural gas	Pieces	10	-	10	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00103	Pipettes (various sizes)	Pieces	50	-	50	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers

05-17-00104	Volumetric flasks (various sizes)	Pieces	60	-	60	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00105	Desicator	Pieces	20	-	20	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00106	Microscope slide boxes	Pieces	10	-	10	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00107	Microscope slide cabinet	Pieces	20	-	20	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00108	Petri dishes	Pieces	100	-	100	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00109	Test receivers/Sieves	Set	3	-	3	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers

05-17-00110	Soil sieve shaker	Set	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00111	Vacuum pump (with spares)	Set	2	-	2	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers

05-17-00112	Glassware – Beakers(various sizes)	Pieces	80	-	80	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00113	Glassware - Erlenmeyer (various sizes)	Pieces	200	-	200	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00114	Glass ware - Funnels(various sizes)	Pieces	150	-	150	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00115	Glass ware - Cylinder (various sizes)	Pieces	200	-	200	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00116	Pipettes - Class A	Pieces	30	-	30	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00117	Diesel engined 26.50 KVA electric generators	Set	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers

05-17-00118	Collecting jars	Pieces	100	-	100	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00119	Host plant press	Pieces	30	-	30	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00120	Dissection kit	Set	5	-	5	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00121	Unit vial tray	Pieces	20	-	20	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00122	Glass screw cap vials	Pieces	2000	-	2000	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00123	Insect collector cabinet	Pieces	10	-	10	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers

05-17-00124	Insect drawers for cabinet	Pieces	120	-	120	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00125	Student insect collection & mounting kit	Kit	10	-	10	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00126	Field bag	Pieces	10	-	10	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00127	Vial cabinet	Pieces	10	-	10	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00128	Light trap	Pieces	60	-	60	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00129	Steel herbarium	Pieces	10	-	10	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers

05-17-00130	Collapsible cages	Pieces	20	-	20	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00131	Toyota Dyna transport and collection vehicle for mobile lab plant pathology field work (with vehicle and spares)	Set	2	-	2	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers
05-17-00132	4WD Heavy duty pick-up truck	Set	1	-	1	-	Agricultural Extension and Research Stations	Research and Training Facilities			Research and Extension staff and farmers