

**MINISTRY OF AGRICULTURE, ANIMAL INDUSTRY, AND FISHERIES  
P. O. Box 102 Entebbe – UGANDA**

**UGANDA CLIMATE SMART AGRICULTURAL TRANSFORMATION PROJECT  
(UCSATP)**

**ITEM SPECIFICATION FOR THE PRODUCTION INPUTS AND AGRICULTURAL  
EQUIPMENT FOR REGUGEE BENEFICIARIES UNDER THE UCSATP.**

SN.	LOT	ITEM	ITEM DESCRIPTION
1	Lot 28	<b>Seed and cuttings (Sorghum Cassava, maize, groundnuts, cowpea, pigeon peas, tomatoes, cabbages, egg plants, okra, Sukuma)</b>	
		Maize	Hybrid drought tolerant maize varieties suited for mid altitude areas Certified seed of minimum germination 90%
		Sorghum	Drought tolerant sorghum varieties suited for mid altitude areas Certified seed of minimum germination 80%
		Beans	Drought tolerant beans varieties Certified seed of minimum germination 85%
		Cassava	<ul style="list-style-type: none"> <li>• Mature cuttings of 9-12 months</li> <li>• Varieties: NAROCASS 1, NASE 19, NASE 14 and NASE 3</li> <li>• Free of pests and disease</li> <li>• Packed in polypropylene bags</li> <li>• Length of cuttings, 15cm</li> <li>• About 600 cuttings per bag</li> </ul>
		Ground nuts	Drought tolerant ground nut varieties. Certified seed of minimum germination 80%
		Cowpeas	Drought tolerant ground nut varieties. Certified seed of minimum germination 80%
		Pigeon peas	Drought tolerant ground nut varieties. Certified seed of minimum germination 80%

		Vegetable seed (Tomatoes, Onions, Carrots, Cabbages, Spinach, Egg plants, Pumpkin, Okra, Sukuma, Amaranths)	Certified seed of minimum germination 75%
2	Lot 29	Fertilizer	<ul style="list-style-type: none"> <li>• Granular fertilizers <ul style="list-style-type: none"> <li>- NPK blend (15:3:26 + (28S + 3Mg + 0.3B),</li> <li>- NPK (20: 5;5),</li> <li>- NPK blend (20:20:18),</li> <li>- NPK blend (23:17:12 + (+3S+2Mg),</li> <li>- NPK blend (11:29:23),</li> <li>- NPK (17:17;17),</li> <li>- DAP,</li> <li>- CAN,</li> </ul> </li> <li>• Registered Foliar fertilizers</li> <li>• Registered organic fertilizers</li> </ul>
3	Lot 30	<b>Agro chemicals (Pesticides, Fungicides, Herbicides &amp; pheromone traps)</b>	
		Herbicides	<ul style="list-style-type: none"> <li>• Glyphosate and Glyphosate IPA salts</li> <li>• 2,4-D amine, mesotrione + Nicosulfuron,</li> <li>• Mesotrione+terbuthylazine + Nicosulfuron,</li> <li>• Nicosulfuron,</li> <li>• Pendimethalin,</li> <li>• Glufosinate ammonium,</li> <li>• Bentazone 15.5%,</li> <li>• Bentazone sodium salt 436g/l + MCPA potassium salt 71.4g/l</li> </ul>
		Fungicides	<ul style="list-style-type: none"> <li>• Tebuconazole 25%,</li> <li>• Tebuconazole 500g/kg + Trifloxystrobin 250g/kg,</li> <li>• Tebuconazole 200g/l + Trifloxystrobin 100g/l</li> <li>• Metalaxyl 8% + Mancozeb 64%,</li> <li>• Copper oxychloride 50-85%,</li> <li>• Carbendazim</li> </ul>
		Insecticides	<ul style="list-style-type: none"> <li>• Thiamethoxam 14.1% + Lambdacyhalothrin 10.6%,</li> <li>• Profenofos 40% + Cypermethrin 4%, imidacloprid 20%,</li> <li>• Emamectin benzoate 5%,</li> <li>• Imidacloprid + bifenthrin</li> <li>• Pirimiphos methyl 16g/kg + Permethrin 3g/kg</li> <li>• Aluminium phosphide 56%-</li> </ul>

			57%, <ul style="list-style-type: none"> <li>• Malathion-2%D,</li> <li>• Flubendiamide 480g/l,</li> <li>• Indoxacarb 85g/l + Emamectin benzoate 15g/l</li> </ul>
		Pheromone traps	Fruit fly traps made using methyl eugenol or MAT blocks
4	Lot 31	Tractor hire services	<ul style="list-style-type: none"> <li>• 1 axle tractors (8-12HP)</li> <li>• 2 axle tractors (45 -95HP)</li> </ul>
5	Lot 32	<b>Piggery (piglets, feeds, vaccines and drugs)</b>	
		Pigs	<p><b>GILTS / FEMALE PIGS</b></p> <ul style="list-style-type: none"> <li>• Breed: large white, landrace, comborough, duroc or their crosses</li> <li>• Sex: Female</li> <li>• Identification: all must be ear tagged</li> <li>• Purity: Not less than 75% of above breeds</li> <li>• Age: at least 3-4 months old</li> <li>• Live weight: at least 30-40kg</li> <li>• Normal body condition score of above 3</li> <li>• Healthy coat (skin)</li> <li>• Strong legs</li> <li>• Good sight</li> <li>• Symmetrical well-developed teats (12 -16 teats evenly paired - 6-8pairs)</li> <li>• Free from disease or parasite infestations</li> </ul> <p><b>BOAR / MALE PIGS</b></p> <ul style="list-style-type: none"> <li>• Breed: large white, landrace, combo rough, duroc or their crosses</li> <li>• Sex: male</li> <li>• Identification: all must be ear tagged</li> <li>• Purity: Not less than 75% of above breeds</li> <li>• Age: at least 5-7 months old</li> <li>• Live weight: at least 30-40kg</li> <li>• Normal body condition score of above 3</li> <li>• Healthy coat (skin)</li> <li>• Strong legs</li> <li>• Good sight</li> </ul>

			<ul style="list-style-type: none"> <li>• Testicles: Symmetrical and well pair</li> <li>• Free from disease or parasite infestations</li> </ul>
		<b>Pig Vaccines and Drugs</b>	<ul style="list-style-type: none"> <li>• Multivitamins 1000g packets powder water soluble</li> <li>• <b>Dewormer:</b> Lavamisole 30% 100g packets, and or ivermectin and albendazole.</li> <li>• <b>Anticoccidial:</b> <u>Amprolium</u>, Toltrazuril and <u>Sulfadimidine</u> in 100g packet</li> <li>• Disinfectants: 1 litre package containing hydrogen peroxide or peroxyacetic acid or potassium peroxymonosulphate or dodecyl dimethyl ammonium chloride</li> <li>• <b>Note:</b> therapeutic drugs will be provided upon diagnosis of specific diseases by qualified veterinarians</li> </ul>
		Piggery feeds	<ul style="list-style-type: none"> <li>• Category: Growers feed</li> <li>• Protein content: 14-16% crude protein</li> <li>• Metabolisable energy content: 3500kilo cal/kg</li> <li>• Moisture content: not more than 10%</li> <li>• Amino acid levels; lysine 0.9-2.15, Methionine 1.4%</li> <li>• Crude fibre 4%</li> <li>• Not moldy</li> <li>• Packaged in 50kg or 25kg bags</li> <li>• Free from pests</li> <li>• Powderly or rumbles or pellets BUT not caked</li> <li>• Dry, not watery</li> <li>• Clearly labelled bags with the content, expiry date, date of manufacture, product, weight and feed composition.</li> <li>• Feeds must be certified accompanied by a quality assurance certificate signed by an authorized officer</li> </ul>
<b>6</b>	<b>Lot 33</b>	<b>Farm structures (pig sty, poultry house, laying nests, piggery drinkers &amp; feeders)</b>	
		Pig sty	<ul style="list-style-type: none"> <li>• 12 meters by 4 meters iron sheet roofed</li> </ul>

			<ul style="list-style-type: none"> <li>• The sty should be portioned into feeding and sleeping areas and drinking and exercising area</li> <li>• With 4 partitions for boar, sow and piglets and male and female grower pigs</li> <li>• The sty should have inbuilt easily drainable drinkers and easy to clean feeders per partition.</li> <li>• The floor should be concrete</li> <li>• With a chain link perimeter fence and foot bath at entry</li> </ul>
		Poultry House	<ul style="list-style-type: none"> <li>• 25 ft by 30 ft in measurement</li> <li>• Iron sheet roofed</li> <li>• Gable roofed iron sheet over hanging by 1.5 m to prevent raining into the house</li> <li>• Wall: 1-meter solid wall (bricks or sheet) and</li> <li>• 1.5-meter wire strong wire mesh</li> <li>• Concrete floor and Litter provided</li> </ul>
		Laying nests	<p>Constructed in the poultry house</p> <p>With 4 potable wooden nest each with 10 nest boxes /slots and @ slots for 5 birds. Each slot is 30cm wide, 32 cm high, 30cm deep, 20cm high entrance, 12cm (min) scratch plate height. The roof should not allow roosting</p>
7	Lot 34	<b>Poultry (Chicks, feeds, drinkers, feeders, vaccines and drugs)</b>	
		Poultry drinkers	<ul style="list-style-type: none"> <li>• Size: at least 10 litre capacity</li> <li>• Material: plastic</li> <li>• Design: Manual drinkers</li> <li>• Easy to clean and stable not easy to tip</li> </ul>
		Poultry feeders	<ul style="list-style-type: none"> <li>• Size: at least 10kg capacity</li> <li>• Material: plastic</li> <li>• With top handle, lid and anti-waste features</li> </ul>
		Poultry feeds	<ul style="list-style-type: none"> <li>• Category: boiler finisher</li> <li>• Protein content: 18-20% crude protein</li> <li>• Metabolisable energy content: 3500kilo cal/kg</li> <li>• Moisture content: not more than</li> </ul>

			<ul style="list-style-type: none"> <li>10%</li> <li>4%</li> <li>Not moldy</li> <li>Packaged in 50kg or 25kg bags</li> <li>Free from pests</li> <li>Powderly or rumbles or pellets BUT not caked</li> <li>Dry not watery</li> <li>Clearly labelled bags with the content, expiry date, date of manufacture, product, weight and feed composition.</li> <li>Feeds must be certified accompanied by a quality assurance certificate signed by an authorized officer</li> </ul>
		Poultry vaccines and drugs	<ul style="list-style-type: none"> <li>Newcastle lasota vaccine stored and delivered in cold chain temperature between 2 to 8degrees Celsius</li> <li>Multivitamins 100g sacket powder water soluble</li> <li>Dewormer: Levamisole 30% 100g sacket</li> <li>Anticoccidial: Amprolium 100g sacket</li> <li>Disinfectants: 1 litre package containing hydrogen peroxide or peroxyacetic acid or potassium peroxymonosulphate or dodecyl dimethyl ammonium chloride</li> <li>Note: therapeutic drugs will be provided upon diagnosis of specific diseases by qualified veterinarians</li> </ul>
		Poultry (pullets and cockerels)	<ul style="list-style-type: none"> <li>Sex: Males and females</li> <li>Age: 1 month old</li> <li>Breed: Hybrid (Sasso or Kuroiler or rainbow rooster)</li> <li>Sourced from reputable poultry breeder and hatched from parent stock eggs</li> <li>Should be vaccinated from Marek's, infectious bursal disease, Newcastle and infectious bronchitis as scheduled</li> <li>Should be healthy and free from ectoparasites and without abnormalities</li> </ul>

8	<b>Lot 40</b>	Beehives	<b>KTB</b> (Kenya Top Bar Hive)  Body made out of durable timber of 2" (thickness) from pine or Grevellia or Cyprus or 'Musizi', measuring 31" - 35" length and 9" - 12" height. Identification mark – Abbreviation of project name (UCSATP)
9	<b>Lot 41</b>	Apiary management equipment	
		Bee smokers	Made from galvanised steel sheet of gauge 28; Fire box diameter 4"; height 11"; smoker bellows 5" by 8"
		Hive knife	Blade Material: Stainless Steel; Handle Material: Wood; Blade Length: 8"; Sharpness: Single Edge
		Hive tool	Blade Material: Stainless Steel; length 9.5"; width 1"
		Bee brush	Gentle but firm bristles to brush bees off the comb cells; measures 16" long with a wooden handle
		Airtight bucket	White food-grade air-tight bucket with a capacity to hold 25kg of honey
		Overall and veil	Khaki; Drill material; size: M, L, XL and XXL; Identification marks: i. at the back- Name of the project; ii. At the front- Logs for Government of Uganda (MAAIF & World Bank)
		Bee gloves	Elbow Length cloth ending with elastic; Elbow Length cloth ending with elastic; size: M, L, XL, and XXL; Identification mark – Abbreviation of project name (UCSATP)
		Gumboots	Identification mark – Abbreviation of project name (UCSATP)
10	<b>Lot 42</b>	Black Soldier Fly (BSF) farm tools and equipment	
		Love cage	Aluminium cage of 120 by 80 by 140 cm with a plastic removable bottom plate and polyester netting material (40 kg m <sup>-3</sup> ) on the sides
		Cotton wool	100% cotton; 500g; and non-sterile

		Rectangular basins	Shape: rectangular; Material High-Density Polyethylene (HDPE); 20litre capacity
		Pest traps	Dome-shaped plastic trap that can hold 200 mls of a mixture of water, soap, and oil
		Hygiene equipment	
		Liquid soap	With Cleansing detergent
		Scrubbing brushes	Stiff and firm bristles of 6 " long with a wooden handle of 100 -120 cm
		Rubber squeezers	Rubber edge that contacts the floor; wooden handle of 100-120 cm
		Brooms	Natural gentle but firm bristles
		Egg stage requirement	
		Eggies	Made of wood and cardboards (25cm x 5cm x 0.3cm)  Each eggies consists of five clean, thin wooden sheets, separated with thinner cardboards
11	<b>Lot 43</b>	Construction of BSF farm structures	Should have compartments for larval and pupal stages, and the adult stage.
		Solar driers	Type: active-type hybrid solar-biomass dryer; Loading capacity: 300kg per drying batch; Drying temperature range: 30°C-60°C; Operation: automatic control of drying conditions
12	<b>Lot 44</b>	Tri-cycles	Remodelled motor/tricycle to carry 500-700kgs
13	<b>Lot 45</b>	Polythene material	1000-gauge
		Hand-held sprayer	CP- brand; 15 litre capacity
		Tarpaulin	Strong fabric that resists varying temperatures; 20 X 13 ft
		Digital weighing scales	Digital scale - Wash down digital scale, Large & clear LCD.  Weighing pan – Large and square detachable stainless steel, minimum 232mm (W) x 192 mm(D), Portable,



			<p>with Stability Indicator, Battery Operation and AC Adapter.</p> <p>Capacity- (5000 g x 1g)</p>
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