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OCCASION

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**UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION**

**CATALOGUE OF
AGRICULTURAL AND FOOD TECHNOLOGIES**

**Published by
Industrial and Technological Information Bank of UNIDO
in cooperation with
Technology Exchange,
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This document has not been edited

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INTRODUCTION

This catalogue has been compiled by The Technology Exchange from material supplied by the Industrial and Technological Information Bank (INTIB) of UNIDO on the technology offers and requests of both the developed and the developing countries.

Most of the entries have been coordinated by the UNIDO/INTIB national network in each country and by The Technology Exchange Ltd.

The catalogue is not simply a guide to the Techmart Africa '92 Fair in Bulawayo, although many of the organizations who have submitted items for it will be attending the Bulawayo Fair as exhibitors or visitors, but it is intended primarily to be used as a handbook to stimulate contacts between technology sources and those with technology needs. Contact may be made by letter, telephone, telex or by fax and we have included all these details, where available, in the directory section at the back of the catalogue.

We hope that you will use this information to make contact either directly or via INTIB, but we do ask that you should only request information on licence and joint-venture offers if you, or your organization, has a positive need for the technology and could have access to the necessary resources to employ or to manufacture and market the item on offer. When making request to the source you should describe your organization, its size, products and resources, both human, physical and financial, and state your intentions with regard to both the manufacture and marketing of the product or process, this will enable the source of the offer to decide which responding organizations are best placed to exploit the technology in each region.

Before any confidential technical information is sent out by the source to any person or organization, it may be necessary to obtain a signature on a confidentiality agreement, particularly if the item is not fully protected by patent or otherwise publicly available.

Offers and requests for technology relevant to the needs of the developing countries are welcome and can be submitted for publication in later editions of the catalogue which will be published in advance of each UNIDO Techmart Fair. Each offer or request should relate to a specific technology. General offers of services or consultancy will not be accepted for publication.

If you would like to have specific technology offers or requests from your own organisation listed in a future edition of this catalogue please write or fax for details of future Techmart Fairs and request submission forms from either UNIDO or The Technology Exchange Ltd.

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This catalogue is divided into 5 sections.

A) OFFERS of Technology:

1. Agriculture
2. Food Processing

B) REQUESTS for Technology:

3. Agriculture
4. Food Processing

C) Addresses of the organizations to which you should address your enquiries.

It is recommended that all enquiries made should seek a full description of the technology being offered or requested and neither UNIDO nor The Technology Exchange can accept any responsibility for any misunderstandings or loss incurred as a result of using this catalogue.

Both the Technology Offers and Requests are coded into licence (L), joint venture (J) or patent sales (S).

In many cases both offers and the requests involve the purchase of equipment and the need for technical assistance. Although the coding does not specifically indicate this, you should bear this possibility in mind when reading this catalogue.

Perhaps more important, we have indicated the stage of development of each technology offered or requested if this has been made known to us. A full description of the codes is given in the following section.

EXPLANATION OF CODING SYSTEM

At the head of each entry you will see the following:-

Ref No **Org No** **Staus** **Offer** **Source**

Ref No: The unique catalogue reference number given to each item which should be quoted on each entry.

Org No: Gives the identity of the organization from which the item originates and (eg 21.15) should be quoted on each enquiry. The first two digits (eg 21.) indicate the intermediary to whom enquiries should be addressed. The full contact address can be found in the directory at rear of catalogue. The second two digits (eg. 15) indicate the name of the original source. See "Index of Organizations by Number".

Status: Indicates the stage of development of the technology or process:-

	Code
Patent or Design only	P
Laboratory Model	M
Working Prototype	W
Pre-production units available	U
In current production	F
Commercialised	C

Offer/

Request: Indicates the type of agreement or co-operation being offered or sought:-

	Code
Manufacture under licence	L
Design and/or patent for sale	S
Joint venture offer	J

Note: Codes L and J may also include the supply of manufacturing equipment and technical assistance.

Source: Indicates the type of organisation making the offer.

	Code
Limited Company	C
Educational Institution	U
Independent Research Organisation	R
Government Research	G
Private Individual	P

OFFERS

CATEGORY 1: AGRICULTURE

Ref.No. Org.No. Status Offer Source

5045 106 C L G
FERTILISER SYSTEM FOR HIGH YIELD OF LUCERNE SEED Mode of irrigation for seed lucerne depending on weather conditions and conditions of herbage giving increased yield.

5090 70 M L U
HOT PEPPER VARIETY A hot pepper variety named 'Matikas' was developed using line selection method. Matikas matures in 85 to 90 days. It is characterised by an upright growth habit and long tapering fruits, very pungent and with high pigment content. It yields 8 to 10 tons per hectare. A gram of seeds contain about 195 seeds.

5112 35 M L R
GROUND NUT VARIETY Variety of peanut named 'BPI-PN2' or 'Mithi' is a cross between ACO-12 and Gadjah. Features: dry season; average maturity (days) 101; mean yield of shelled beans (T/HA) 1.9; nutritional content (per cent) protein 22.49; fat 45.60. Wet season: average maturity (days) 97; mean yield of shelled beans (T/HA) 1.7; nutritional content (per cent) protein 22.489; fat 38.60.

5121 41 P L R
LOW LIFT DIAPHRAGM PUMP The pump consists of a light sheet metal cylinder, divided into two chambers. Rubber flap valves control the intake and discharge ports. Two diaphragms are made of automobile tyre tubes. Pumping is effected by one person pressing two pedals alternately and rhythmically. It is suitable for pumping water from irrigation channels, canals, river and shallow wells.

5163 183 C S C
GENETICAL PRODUCTS in two species: pig and cattle semen, embryos, living animals. Products for pig and stock breeders.

Ref.No. Org.No. Status Offer Source

5267 218 W L G
LOW COST LARGE SIZE COPRA DRYER
 The machine can dry a batch of 3,000 to 5,000 coconuts in 34 to 36 hours using coconut husk and shell as fuel.

5281 211 P L C
AQUATIC WEED HARVESTING AND CHANNEL CONTROL For use on boat, land and amphibian platforms involving removal of surface floating, rooted submerged and emergent weeds.

5326 298 C L C
PULP FROM SISAL WASTE Pulp is produced from sisal waste for the purpose of producing paper. The production of pulp is done through a chemical pulping of sisal waste and is suitable for a small scale high value added pulp production process. It is also useful in the sense of providing a use for sisal waste which is otherwise useless in the sisal industry.

5362 255 W S G
MAJENGO HAND PUMP This is a hand operated deep well pump suitable for raising water from ground wells. Being hand operated does not require fuel and it can uplift water from sources up to 200 metres deep.

5415 303 W S C
THE TECHNOLOGY FOR PRODUCING SOLAR DRYERS Solar dryer with high performance designed for small holder. Can be used for producing dried greens, fruits, coconuts.

5441 314 W J U
AUTOMATIC IRRIGATION SYSTEM It can operate up to 16 outputs (solenoid valves). Low cost system with sensors and without humidity sensors.

OFFERS

CATEGORY 1: AGRICULTURE

Ref.No. Org.No. Status Offer Source

5460 322 F S G
HAND LAPHRAGM PUMP

5475 1 P L/S G
ADVANCED DATA LOGGER A modular system has been developed, initially for draught animal work, to measure a range of variables under realistic conditions. By the use of sensors and hi-tec electronics; speed, force, heart rate, breathing rate, etc. can be recorded with greater accuracy than before. This development undoubtedly has many other applications.

5476 6 F S G
KERATIN EXPANDING MACHINE TO PRODUCE ANIMAL FEED A one step process to convert duck feather into expanded keratin powder suitable for animal feed. Nutrition value surpasses rape seed cake and approaches fish meal. Palatable, non-scorching, and non-mildew.

5478 13 C L C
KNOW-HOW AND EQUIPMENT APPLIED TO INTENSIVE FISH FARMING The offered package is very profitable (pay back periods of one to three years). Growth, population and health of bred fish is controlled efficiently, risk for infection is minimized. Offered for all countries except Peoples Republic of China, Greece, Singapore, Hong Kong, Australia and United States.

5480 20
DRY FODDER FOR FISH Enzymes feed for breeding fish and other animals consisting of slaughtered animal by-products and possibly additional vegetable substances.

Ref.No. Org.No. Status Offer Source

5493 30 U L G
IMPROVING DOMESTIC YAK Semen taken from captured wild yak was frozen and used to inseminate domestic yak. Conception rate was improved to 90%, average weight increased by over 31% and the butterfat content of yak milk was raised to 7%

5495 31 M J C
SYSTEM FOR INTENSIVE GROWING OF GRASS Closed controlled environment of illumination, temperature and humidity minimises personnel involvement and atmospheric contamination. Provides planned growth of animal feed stuff. Suitable for use in geographical areas where natural climate does not permit such growth.

5609 112 P L U
PROTECTION OF SWINE AGAINST PLEURONPNEUMONIA The respiratory mucosa of swine are sensitised for the production of protective IgA antibodies on infection by prior administration of a vaccine.

5614 112 P L U
MOLD GROWTH PREVENTION The growth of mycotoxin-producing molds on seeds and nuts is controlled by applying edible inorganic phosphate slats of condensed phosphates.

5618 112 F L U
AUTOMATIC SAFETY BRAKE ACTUATION TONGUE FOR TOWED VEHICLES Relative movement causes an emergency brake control means to be released and moves to its breaking position only when the draw-bar is disconnected.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

5623 113 L
POTATO PRESERVATIVE A simple dip or spray method for preventing the 'greening' which takes place in raw unpeeled potatoes exposed to light. The treatment leaves an edible transparent film which permits the retailer to display his goods.

5627 113 L
SYSTEM FOR APPLYING SULPHUR DIOXIDE FOR FORAGE Apparatus and methods for the treatment of forage and silage with liquid sulphur dioxide or liquid anhydrous ammonia. These treatments sterilize the forage and minimize the loss of nutritional value while in the stack or silo. This technology also allows the storage of high moisture content barley and corn without expensive pre-drying.

5632 113 L
DETECTION OF INTERNAL DEFECTS (HOLLOW HEARTS) IN POTATOES AND OTHER FARM PRODUCTS This ultrasonic device is capable of inspecting and detecting voids and other internal defects in farm products such as potatoes. Can be incorporated into an automatic selection system and it offers considerable advantages in economy and safety over other native methods and devices.

5636 113 L
BIOLOGICAL METHOD FOR THE CONTROL OF FRUIT TREE CROWN AND ROOT ROT This invention describes the use of a specific strain of *Enterobacter Aerogenes* for the control and prevention of crown and root rot of fruit trees, caused by *Phytophthora* species.

Ref No. Org.No. Status Offer Source

5641 128 M L U
MOLLUSCIDICIDE TRAP The trap comprises a waterproof upper layer and a lower substrate impregnated with molluscicide and slug attractant. Humidity is maintained beneath the trap to ensure attraction and poisoning of slugs feeding on the substrate. The trap is designed to ensure protection of the molluscicide from the effects of rain.

5645 133 P L P
MULTIPLE PLANT IRRIGATION SYSTEM An automatic device that attaches to a faucet and features a series of tubes to water a number of plants at one time.

5654 136 C L C
CUTTING AND JUICING OF CITRUS - INTEGRAL AUTOMATIC DEVICE
 Allowing total automation of the process.

5668 151 L
SELECTION OF CEREALS USING IN-VITRO CULTURE AND IN-VITRO TECHNIQUES for maize, rice, wheat, barley etc with the possibility of establishing different stress situations and selecting tolerant and resistant cell lines and regenerated plants.

5672 67 C L R
CONTROLLED RELEASE AGROCHEMICALS Proprietary micro-encapsulation and microporous-bead technologies provide constant release rates of pesticides. Formulations show better control of target pests, lower toxicity, cost advantages.

5861 210 P L R
LAND IMPROVEMENT The technology of phytomelioration of desert and semi-desert regions using plants from Middle Asia to create all year pastures, block degradation of pastures to salted areas.

OFFERS

CATEGORY 1: AGRICULTURE

Ref.No. Org.No. Status Offer Source

5886 317 P L/J G

MULTICROPTHRESHER has got a designed capacity of 10 quintals/hr (on wheat). The system consists of a raspbar type drum, easily adjustable concave, efficient straw walker of sufficient separating capacity, a cleaning blower and replaceable sieves with three stage sifting facility. The thresher can be trailed by animal or tractor and can also be driven by an engine or by tractor. The design has now been completed, very shortly a working prototype will be manufactured.

5936 337 P L G

INTENSIVE GROWING OF SUMMER BARLEY Technology includes pre-sowing activation of seeds, complex agrochemical cultivation of soils, optimum thickness of productive stemming, methods of integrated protection of plants, technological regimes and adjustment of combines and economic analysis.

5947 337 Y L G

INTRODUCTION OF DUSTY MEDIORANTS into soil during cultivation. For plant growing small irregularity of scattering the meliorants, high yield.

104961 42 L

NEW DEVELOPMENT IN THE BARLEY FIBRESEPARATOR FIELD A unique project consisting of a machine for separating barley fibres (patented), and an official body for agriculture has undertaken tests on the machine with satisfactory results. This machine removes the fibre from the barley grain into two parts, first one is low in fibre and the second rich in fibre with resulting advantages.

Ref.No. Org.No. Status Offer Source

104963 42 L

NEW EQUINE RUB THAT LEAVES OTHERS BEHIND 'SPRINT' A formulation based on lactose (which comes from milk) brings quick temporary relief and relaxation to muscular discomfort, stiffness and strains due to over exertion, in easy to use form. Colourless, odourless, non-staining, contains no oils.

104972 42 L

'AUTOTROUGH' A product that allows one to feed their own poultry or game, not wild birds and vermin. Stops wild birds or vermin taking the feed, reducing the risk of avian diseases.

105025 96 C S/J C

POULTRY RAISING egg production, production of broilers and breeders.

105061 57 C L C

IPIL-IPIL SEED DERIVED GUM ADDITIVE FOR PAPER MAKING A gum additive to paper is produced from ipil-ipil seeds, a low concentration of the ipil-ipil seed gum can be applied to pulp furnish to produce dry-strengthened paper. The gum powder is produced by fine grinding of the ipil-ipil seeds. The gum suspension additive is prepared by cooking the gum powder in water, mass by volume ratio of 1:80 at approximately 70 degrees C for 30 min.

105088 65 M L U

NEW CORN VARIETY A new corn variety uses a series of half sib family selection method from Suwan 2 and IPB Var 1. The new variety is known as 'PSBCN 90-1' or 'IPB Var 5'. It matures earlier than IPB Var 1 and is more tolerant to pests and diseases.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

105099 75 M L U
CHIPPER-SHREDDER FOR AGRICULTURAL WASTE The machine components are: hopper, main body, cover, chipper and concave sieve or drum with stationary pegs. It comes with an anti-clog, measures 100 x 102 x 60 cm and weighs 37 kg.

105109 34 M L G
SOYBEAN VARIETY The new variety, named 'PSBSY-1' and popularly known as 'La Carlota Soy 1', is a cross between Clark 63 and AGS 129. The variety has the following features: yield (ton/HA) dry season 1,937; wet season 2,851; maturity (days) dry season 89; wet season 95; plant height (cm) dry season 47; wet season 88. An early maturing variety with uniform maturity and is found to have a good nutritional value and eating quality.

105115 39 C L C
LIVESTOCK AND POULTRY PRODUCTION Livestock and poultry management covering beef cattle, hog and poultry production suitable for developing countries. Industry and market studies, project feasibility and feasibility studies, design of production infrastructure and project site evaluation and monitoring.

105118 65 M L U
NEW STARAPPLE VARIETIES New starapple varieties known as 'Lila' and 'Lunti' are propagated by marcotting and cleft grafting. 'Lila' has an average weight of 315 g and its diameter is 8 cm. It has a purple skin and the colour of its flesh is cream-white to purple. While 'Lunti' has an average weight of 460 g, diameter is 9 cm. Its skin colour is green and has a cream-white flesh.

Ref No. Org.No. Status Offer Source

105136 26 W L U
PEDAL OPERATED DIAPHRAGM IRRIGATION PUMP Small pump operated by feet to lift and transport water over a height of 8 metres. To be used for irrigation of vegetable gardens.

105263 227 C L R
NUT CRACKER MACHINE A multi-channel breaker which can be operated and maintained easily and continuously with a low rate of nut damage.

105272 234 C L C
DRUM TYPE CORN SHELLER Main components are shelling cylinder with perforated concave, shelled grain bucket elevator, coband grain separating unit and dust removing fan. The machine can shell dried corn up to a moisture content of 16% wb with an efficiency of 2 tons per hour.

105277 223 C L U
VEGETABLE OIL EXTRACTION BY CONTINUOUS FLUIDISATION TECHNIQUE Oils in vegetable seeds or rice bran are extracted continuously by hexane. More than 98% of the oil is removed in five stages of fluidised bed. The multi-column counter current operation technique is used.

105299 226 C L C
MODULAR DAIRY PLANT This is available in modules which can be placed individually as an extension to an existing dairy or built together to a complete dairy plant. The system is mobile and easy to re-arrange according to requirements. All mounting is made before shipment, including own power supply and water treatment plant.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

105318 291 C S G

HANDOPERATED MAIZE PLANTER AND FERTILISER APPLICATOR This is a maize planting device based on the traditional hand hoe with improvement for row marking. It is suitable for planting cereals concurrently with fertilizer application.

105363 255 W S G

MANURE (COWDUNG) SPREADER This is a special design of an ox drawn cart that can be used for spreading manure on a farm. It eases transportation and application of manure for small and medium scale farmers.

105407 292 W S G

SOLAR VEGETABLE AND FRUIT DRIER This is a design of drier which operates on hot air currents. It is suitable for drying vegetables, grains as well as fruits.

105424 306 C J C

MANUAL PLANTER FOR FRUIT TREES Apparatus for individual use for planting fruit trees in small agricultural holdings.

105427 306 C J C

MANUAL PLANTER Apparatus for individual use for planting grains (corn, groundnuts, soya) in small agricultural holdings.

105431 309 C L C

BRIQUETTING PLANT for agro-forestry wastes.

105432 309 C L C

AGRO INDUSTRIAL DRYERS

105459 322 C S G

WIND PUMPS

Ref No. Org.No. Status Offer Source

105477 11 U J C

VORTEX TOOL MOTOR Compressed air energised, hand held, mechanical brake controlled tool motor (US Pat. 4,141,671) for dentist, medical, aircraft, spacecraft, machinshop, hobby, jeweller metal, milling, drilling, carving, rasping, engraving, polishing etc. at 25000 to 100000 rpm.

105479 20

HOT FERMENTATION OF MANURE Installation capable of continuously fermenting dung to a high grade manure within four to six days.

105481 20

SUB-INTENSIVE FISH BREEDING SYSTEM Development of a floating net-like pen using a shielding device made of special synthetic foil consisting of a warm/cold water shield for climatizing in winter - respectively summertime and a collecting funnel for the removal of excess fodder and excrements from the breeding water.

105482 20

RESTING INSERT FOR FISHING NET-LIKE ENCLOSURES Tubes through which fresh water flows and which, seen in flowing direction, become smaller towards the end to such an extend the excrement and fodder residues are flushed out. Higher population densities are possible.

105483 20

EXTENSIVE METHOD TO GROW GREENERY ON ROOFS Self supporting vegetation on a thin substrate developed into a continuous lasting mat. Water and nutrients are supplied through natural processes only.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

105484 20
ECOLOGICAL NOISE PROTECTION WALL Noise protection wall consisting of pre-fabricated frames and pre-grown elements - self supporting, no fertilizing or trimming - needs low requirement of space and is tolerant to thawing salts.

105485 22 C L C
TRACTOR Highly versatile high quality tractor for forestry markets.

105486 29 F L C
COMPUTER CONTROLLED AUTOMATIC WATERING SYSTEM FOR LAWNS AND GARDENS French company offers automatic irrigation system for farms and greenhouses that adapts the watering cycle according to the plants' water requirements determined by sensors; additional features: possibilities for adding fertilizers, pipe rinsing after each cycle, anti-water hammer device.

105488 30 C/F J G
MIST IRRIGATION SYSTEM Saves water and energy while improving quality and yield of fruit, vegetables and tea. Mist irrigation increases humidity and adjusts temperature to give fast growth and high profit and is half the cost of drip irrigation.

105489 30 F/G J G
ANTIGEN IMPROVES FECUNDITY Oil soluble, protein hormone antigen injected into ewes improves fecund rate 10-20%. Experiments in several countries prove the reliability of the process.

105490 30 C/F L G
GRAFTING TOOL Used to produce royal jelly and in beekeeping generally, this tool is made of ox horn and bamboo slip and does not contaminate products.

Ref No. Org.No. Status Offer Source

105491 30 C/F L G
POLLEN TRAP This plastic product enables pollen to be collected from a honeybee after it has visited a flower.

105494 30 P L C
STEPLESS ELEVATING DEVICE Field work machinery specially developed for and used to lift the cabin chair. It can be stopped at any position very easily, and locked automatically.

105496 31 M J C
LOW ENERGY GREENHOUSE FOR COLD CLIMATES Efficient growing unit to suit site conditions. Thermal storage by use of eutectic salts. Controlled illumination and ventilation. Use intended in Northern European latitudes or similar. 75% reduction in energy used when compared with a single glazed greenhouse (50% reduction when compared with triple glazed greenhouse).

105497 42 W L P
AUTOTROUGH POULTRY/GAME FEEDER A unique design that allows one to feed your own poultry, pigeons, game etc., a shutter is motivated when animal steps on a pedal, mice, rats, chipmunks, squirrels, etc cannot activate the device, as well can be altered to feed ducks geese and other animals, where ever wild birds and other vermin are troublesome.

105498 42 F L C
A PORTABLE GRANULAR SPREADER 'Tail-gator' tm. an affordable, effective granular spreader will readily fit on any pickup truck to broadcast sand, salt fertilizer etc. specifically designed to permit access to areas that in the past could only be done by hand eg Shopping Centres, loading ramps, sidewalks, fire lanes, driveways. Tail-gator is designed to hang freely on the tailgate of any sized pickup truck.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No.	Org.No.	Status	Offer	Source
105499	59	C	L/J R	
PROTEIN HYDROLISATE FROM SLAUGHTERHOUSE BLOOD				
The method has up to 70 percent hydrolysis-degree. The product obtained is powder-like, balanced as to aminoacids (up to 10 percent alfa2 amino nitrogen) and is suitable for applications in veterinary medicine practice for speeding the growth of animals and in the pharmaceutical industry etc.				
105508	68	P	L U	
INSECTICIDES AND CHLOROESTERASE INHIBITORS				
Novel compounds which deteriorate into non-insecticides after a comparatively short period of time when exposed to hydrophilic solvents. This substantially eliminates a serious problem of pesticide residue in large scale spray. The enhanced activity against insects reduces the risk of negatively affected livestock present in the sprayed area while the comparatively low mutagenic activity compounds substantially reduce the risk of breeding insect strains which are resistant to them.				
105509	69	P	S U	
THE PREPARATION OF N-ARYL FORMAMIDES FROM ARYL ISOCYANATES				
A one step process using common reagents and mild reaction conditions (unlike existing processes). A product of at least 98% purity is obtained. Process involves low raw material and processing costs, minimum energy consumption and negligible waste generation. Applications- solvents in polymer, pharmaceutical, agricultural, and waste treatment industries.				

Ref No.	Org.No.	Status	Offer	Source
105513	85	P	J G	
PEANUT BREEDING				
The development of new peanut varieties with high yield/big pods, high taste quality, and tolerance to temperature stress. A new product involves the development of a high temperature tolerant variety which could be cultivated in countries near the equator.				
105526	85	W	J P	
LARGER AQUACULTURE YIELDS WITH SEX REVERSAL TECHNIQUE				
A practical technology for the conversion of male shrimps into functional females has been developed. This method makes a substantial intensification of aquaculture practices possible, increasing yields by up to one third.				
105527	85	W	J P	
PROFESSIONAL FARM MANAGEMENT SUPPORTED BY SOFTWARE SYSTEMS				
Software packages for the management of different branches of agricultural production. The most popular are: dairy herd management system, orchard system and also a system for irrigation management, a system to monitor cotton production during the growing season, a module for the management of goat herds, and one designed for beekeeping operations.				
105536	85	P	L C	
CONSTRUCTION OF PLANTS RESISTANT TO VIRAL INFECTIONS				
Plant anti-viral factor (AVF) human beta-interferon and several plant anti-viral nucleotides are in various stages of purification, gene isolation and cloning, in order to produce, by means of genetic engineering, virus-resistant plants.				

OFFERS

CATEGORY 1: AGRICULTURE

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
105544	88		U		105572	101	P	L	U
CABBAGE PROTEINASE INHIBITORS A plant-specific phytochemical isolated from cabbage and having a specific inhibitory response to proteinases in the larvae of the imported cabbage worm (<i>Pieris rape</i>) and the cabbage looper (<i>Trichoplusia Ni</i>) can be the basis of a protective product.					TURKEY PARVOVIRUS VACCINE				
105545	88		U		105580	112	F	L	U
BRUISES ON FRUIT An apple handling and sorting device using machine vision for bruise detection and classification to USDA grades. Included are the mechanisms for handling and imaging the fruit, apple image processing algorithms and the general approach to pattern recognition of apple bruises.					IMPLEMENT HITCH Device for connecting an implement to a tractor. The mating engagement of male plug within female shell automatically connects the implement drive train to the power take-off of the tractor and its hydraulic system to the tractor's.				
105554	88		U		105581	112	F	L	U
APPLE TREE ROOTSTOCK A new and distinct cultivar of apple tree Novole, resistant to pine voles, meadow voles, and crown rot and being easily propagated by cuttage.					SOIL TESTING Inexpensive device to accurately measure the Couiomb parameters of the soil. Includes an instrument to test soil shear strength to which several weights have been added.				
105562	88		U		105590	112	F	L	U
DETERMINING SEED VIABILITY Non-viable seeds of the family crucifu eg cabbage, cauliflower, broccoli, etc leak a compound, sinapine, which fluoresces under uv light. A seed coat is used to trap sinapine from hydrated crucifu seeds. Viable dried coated seeds are separated based on no n-viable seeds based on fluorescence.					FLUID PRESSURE ACTUATED NET WEIGHING DEVICE WITH PNEUMATIC TARING When a load is applied on the device, the volume displacement of the air chamber is small relative to the volume displacement of the liquid in the upper chamber. The volume of the air chamber thus remains substantially constant so that the gauge indicates directly the net weight of the applied load.				
105563	88		U		105599	112	P	L	U
DEVILLED EGG PROCESS A layer of homogenised liquid egg white is put into a half egg mould and a portion of chopped, cooked, seasoned egg yolk floated therein. After steam cooking a second portion of the yolk mixture is placed on top of the cooked yolk portion fixed into the c ooked egg white.					METHOD OF DETECTING MOLD TOXIN INFECTED GRAINS This involves obtaining a gaseous sample from the grain which is representative of the volatiles produced within the grain, and thereafter determining by gas chromatographic analysis if the grain contains volatiles known to be produced by mold toxin infected grains.				

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

105604 112 P L U
ROSE PLANT A new variety characterised by its profuse production of medium-sized blooms having a generally cardinal red colour with the petal surface irregularly variegated with stripes or patches of varying hues of white, rose and light red colouring. This new rose is further distinguished by its ability to transmit the characteristic colour striping or streaking of its flower petals to its own seedlings and by its resistance to low winter temperatures and the high night-time temperatures of summer.

105622 113 L
LOW TEMPERATURE THERMAL-CHEMICAL PRETREATMENT PROCESS FOR PEAT DEWATERING A low cost, low temperature chemical process, for the treatment of wet peat, which assists the subsequent mechanical pressing to eliminate 60-65% of the original water. Since mechanical pressing of untreated wet peat eliminates only 30% of the original water, the savings can be substantial.

105640 121 W L C
SPRAYING SYSTEM Device prevents very fine particles forming, which normally detach themselves from the spray pattern and drift away. The result is a clearly defined, transparent, wide angled spray pattern.

105663 136 C L C
UNPALLETING OF FRUIT CONTAINERS Machine that empties fruit containers or boxes by means of a hydraulic handling arm, followed by a fruit unloading system on to a conveyor belt. Main feature is that its average production is 20 to 30 U/h and an 8 kw installed capacity.

Ref No. Org.No. Status Offer Source

105820 42 L
RICE SEEDING MACHINE EQUIPPED WITH SOIL COVERING DEVICE This machine makes it possible to sow rice seeds at a desired depth in the irrigated rice field together with covering up by soil. Result, it can prevent sown seeds from uneven germination and floating root phenomenon resulting from drifted seeds caused by wind or irrigation drainage. Healthy rice plants can be grown under uniform germination.

105934 337 M L G
SELECTION OF YOUNG PIG STOCK for breeding stock. Selection of species on the basis of cytogenetic testing with the use of the method of counting the chromosome aberration in leucocytes of peripheral blood of pigs at the age of 3-4 months. Produces a qualitative transformation of breed.

204981 42 L
TECHNOLOGY OF COMPLEX MANURE PROCESSING Technology consists of four steps: methanation, separation of solids from fermented liquid manure, deammonisation, aerobic treatment of deammonised water. Integrated into the energy saving technological system. Unlike the other steps which are currently used in practice, the deammonisation step uses the process and equipment as based on the original results of research in separation processes. Has a highly positive impact on the environment as compared with present methods.

204992 42 L
AROMATIC COMPOUNDS AS POTATO SPROUT INHIBITORS Inhibits sprouting of tubers, several aromatic aldehydes and alcohols have been found to be more advantageous to inhibit tuber sprouting, rotting and fungal growth with increased effectiveness over known methods and compounds.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

205014 82 W L C

GRAIN PROTEIN REGULATION TECHNOLOGY Ensures crop's quality improvement and increases field's productivity. The technology uses ecologically harmless substance - Plant Growth Regulator (PGR) and includes specific know-how. Being applied to cereals like barley, wheat and forage grain at appointed vegetation period it allows to alter protein content.

205050 43 P L R

SNAIL CULTURE The technology developed culture snails in a canal-network of free flowing water on a half-hectare of land. The snails are fed with rotted rice straw, vegetable refuse and water cabbage. The fattened snails are gathered, crushed and mixed with rice bran and fed to pigs, ducks and pigeons. Releasing ducks into rice fields stocked with snails has also been tested.

205086 65 M L U

SQUASH VARIETY The variety is named A-193-1-1. It is selected from 11-99. It is adapted to wet and dry seasons, flowering after 80 days and 50 days, respectively. A plant bears about 5 fruits which can be harvested four months after planting. Its fruits are large, flat, deeply ridged and smooth-skinned. Its flesh is yellow-orange, thick and of good eating quality.

205097 73 M L U

PRODUCTION OF ORCHIDS BY EMBRYO CULTURE The process developed is for producing orchids at embryo culture. The process involves: sterilising immature green fruits over flame, sectioning the fruits with sterile scalpel, scraping off embryos and culturing the embryos in a medium of agar, sugar and water.

Ref No. Org.No. Status Offer Source

205139 26 W L U

FLEXIBLE NON-PUNCTURE WHEELS Wheels with rubber tyres but not pneumatic. Has flexibility of pneumatic tyres but cannot get punctures. Can be produced locally, are relatively cheap. Avoids main problem of punctures.

205268 236 C C

MINI DAIRY PLANT A complete plant with heating and cooling systems, cold store, laboratory, milk can, tools and spare parts. It can be extended with packing equipment, cheese processing equipment, cream separator and butter churn, equipment for making solid stirred yoghurt.

205320 294 W S P

HAND OPERATED PLANTERS This is a hand operated planter designed for use in the rural. It is suitable for planting various types of seeds such as maize and millet.

205364 253 W S G

SOLAR CABINET CROP DRYER Consists of a wooden cabinet with bottom holes and a glass cover to allow solar radiation into the box. A platform made from expanded metal wire supports the crops to be dried. The back of the dryer has a door for introducing the crops.

205382 242 C S U

SEED CLEANER is made out of a clean cut wood/steel of hopper, shoes, screens, a fan, air chamber and exit spouts, all mounted on a metal stand. The fan drive is electric motor driven.

205391 243 C L C

BULLOCK PLOUGH This is an animal, one furrow, steel mould board plough with metal hanoies. Furrow width 12-20 cm and furrow depth 6-8 cm approximately. Efficient and cheap.

OFFERS

CATEGORY 1: AGRICULTURE

- | Ref No. | Org.No. | Status | Offer | Source | Ref No. | Org.No. | Status | Offer | Source |
|--|---------|--------|-------|--------|--|---------|--------|-------|--------|
| 205472 | 327 | W | L | P | 205535 | 85 | P | L | C |
| PRODUCTION OF INGOTS OF CAST IRON, BRONZE, BRASS AND ALUMINUM FOR AGRICULTURE and also some spare parts using natural binders such as Eucalyptus free glue and burnt oil (olia) for sand moulding, complete patterns are made of wood. | | | | | AUXIN DERIVATIVES FOR IMPROVING THE ROOTING OF PLANT CUTTINGS The novel auxins significantly increase the rooting percentage, thus enabling the rooting of species or cultivars which until now have shown poor rooting ability. Several derivatives are cheaper than the currently used IBA. | | | | |
| 205474 | 1 | P | L/S | G | 205553 | 88 | | | U |
| WELL JETTING RIG This rig is designed to jet wells down to 12 metres and install a lining of corrugated drainage pipe. The hole is backfilled with gravel to act as a filter, and the plastic pipe can be sleeved with polythene to stop surface water contamination. Operated by two people, the rig works best on alluvial soils. | | | | | APPLE CULTIVAR This new cultivar was selected from a cross made in 1958 of NY 18491 pollinated by NY 49821-46. It was selected for further trial, and first propagated in 1965. It has been extensively tested since that time under the number NY 58553-1. | | | | |
| 205487 | 30 | C/F | J | G | 205571 | 101 | P | L | U |
| SPRINKLER IRRIGATION SYSTEM Pumps are automatically controlled to keep output pressure and flow rate constant, thus saving 25% energy. This safe system spreads the water well to improve cash and grain crops on hills or plains, and incorporates all necessary components. | | | | | VACCINE Nonpathogenic Babesia bovis strain. | | | | |
| 205492 | 30 | S | J | G | 205598 | 112 | P | L | U |
| ANTI-DROUGHT CROP TREATMENT Increases the resistance to drought, frost and disease of wheat, corn, peanut, mulberry, hemp, cotton and fruits to raise yield and quality. The anti-transpirant can be mixed with pesticides. | | | | | ANIMAL HEAD RESTRAINER Restrainer for an animal confined in a chute. It permits the head to be raised, lowered, tilted and turned to the desired position. | | | | |
| 205517 | 85 | M | J | G | 205613 | 112 | P | L | U |
| ROBOTIC SYSTEMS FOR SELECTIVE HARVESTING OF FRUITS AND VEGETABLES Commercial advantages: the system will integrate the sensing, image processing, gripping and manipulating sub systems necessary to demonstrate the potential of selective harvesting with robots. It will be able to sort the agricultural products harvested into size and quality groups. | | | | | EGG INOCULATION DEVICE A device is shown for inoculating eggs. Inoculant fluid is forced into a chamber abutting one end of the egg and through the pores of the shell to the interior, without causing damage to the shell. | | | | |
| | | | | | 205631 | 113 | | | L |
| | | | | | EXTRACTION OF BOTH CAROTENOIDS AND PROTEIN FROM CRUSTACEAN WASTES This invention concerns the extraction, from shrimp or other crustacean wastes, of carotenoproteins which may be used as tissue colorant feed supplements in the rearing of salmon, trout, or lobster. These carotenoproteins have better stability and nutritive value than previous products. | | | | |

OFFERS

CATEGORY 1: AGRICULTURE

Ref No	Org.No.	Status	Offer	Source
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205642	136	C	L	C
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ABSORBENT GRAINS IMPREGNATED WITH PESTICIDE Original technique for pesticide formulation, starting from a natural mineral which by means of an adequate treatment permits the obtention of a regular grained absorbent product. This basic product is then impregnated with pesticide or herbicide.

205658	136	P	L	U
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IMPROVEMENT OF TOMATO AND MELON VARIETIES Bank to obtain salinity resistant tomato and melon varieties.

205667	151		L	
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DIRECT GENETIC TRANSFER in plants with the aid of various transformation methods, aimed at cultivating defined changes in plants.

205676	97	F	L	C
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GIBBERELIC ACID FOR PLANTS GROWTH AND DEVELOPMENT Product of giberella fujikuroi metabolism. Involves dramatic increase in the cultivations yield. Production process includes bacterial strain generation and reproduction, biosynthesis separation of the fermentation, broti and giberellic acid sorption.

205881	305	U	J	C
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REPELLENT FROM TROPICAL PLANTS AGAINST MOSQUITOES AND SIMULID The invention relates to the product, obtained by extraction from common tropical plants. Presented as lotion or spray, protects humans against insect bites for at least six hours.

205892	336	W	L	U
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PALM NUT CRACKING MACHINE Design and fabrication of a palm nut cracking machine with drive and cracker integrally connected.

Ref No.	Org.No.	Status	Offer	Source
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205943	337	W	L	G
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REFRIGERATOR VEHICLES FOR AGRICULTURE Unit, ammonia refrigerator vehicles on the basis of piston and rotational compressors. Fruit and vegetable stores with autonomous cooling of the storage chambers.

304967	42	C	L	
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KNOW-HOW FOR INTENSIVE FISH FARMING Offer consists of complete supplies and services including know-how, feed formulations, start up assistance for production and management.

304976	42		L	
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COMPUTERISED DAIRY HERD AND REPRODUCTIVE HEALTH STATUS MANAGEMENT Computerised dairy herd and reproductive health status management with the integrated monitoring of progesterone in milk is offered. Software is designed to process the most important data on reproduction and by health status in dairy herds. Daily sets of instructions on individual heat detection, prophylactic, diagnostics and therapeutic care. Output includes detailed analytical information.

304985	42		L	
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BACTERIAL ATTENUATION METHOD AND VACCINE Method for producing a live salmonellae vaccine that could be used for oral administration. The methodology has been applied to salmonellae in swine and is applicable to swine and cattle.

305030	96	C	S/J	C
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AGRICULTURE Large scale production of food crops, cereals and mechanised industrial farming.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No.	Org.No.	Status	Offer	Source
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305059	55	P	L	C
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TOBACCO CURING BARN A tobacco curing barn that can be constructed either as a conventional barn for small scale curing or bulk barn for large scale curing. The conventional barn having evenly spaced concrete floor holes connected by underfloor air passages to a single set-up of outside groundhole chambers which are the firing, air inlet and the blower chamber. The bulk barn to which floor holes are connected to a multiple set-up of outside ground hole chambers or to a single set-up of bigger ground hole chambers.

305066	3	M	L	C
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PREVENTION OF PRAWN DISEASE IN BRACKISHWATER PONDS The process developed involves: pond preparation before stocking and after harvesting for extensive, semi-extensive and intensive prawn culture, determining of stocking densities per colour system, pond maintenance. The process also provides suggestions on how to detect prawn disease.

305095	25	M	L	U
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NEW WHITE CORN VARIETY SMARC 1283, a new corn variety was developed using open-pollination technique. It has the following features: average yield (T/HA) 4.97; maturity (day) dry season 104; wet season 107. The new variety has a higher tolerance to comborer than IPB Var 2.

305101	65	C	L	U
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NEW CASSAVA VARIETY The new variety is a local cross of MCL 1684 and UPL CV-1, using clonal selection method. It has a height of 191 cm, a smooth light brown of root skin, white root flesh colour and moderately branching habit. More resistant to scale insect and spider mite than the two check varieties.

Ref No.	Org.No.	Status	Offer	Source
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305110	34	M	L	G
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MUNGBEAN VARIETY The new variety named 'BPI-MG7' is a cross between CES ID-21 and EG MG-16. It has the following features: yield (T/HA) wet season 1.53; maturity (days) wet season 62; dry season 63; pods per plant wet season 14; dry season 14; weight (G/100 seeds) wet season 6.5; dry season 6.8. The new variety is resistant to cercospora leaf spot and rust and is moderately resistant to powdery mildew.

305122	78	M	L	U
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INTEGRATED MANAGEMENT BANANA FUNGI An integrated management technique appropriate for banana cultivation have been developed. The technique involves: setting suckers, destroying infected plant material, spraying with insecticide, removing dead matter, harvesting carefully and at appropriate times, hygienic measures, packaging and storage.

305264	228	C	S	C
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PROCESSING PLANTS FOR DRIED MILK PRODUCTS Involves homogenising, membrane filtration, concentration, liquid feed handling, spray drying and fluid bed drying/cooling. Plants include multi effect evaporators with thermal/mechanical recompression, spray dryers with rotary or nozzle atomisation and fluid beds acting as after dryer, coolers and agglomerators.

305291	204	M/W	L	R
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MEAL PRODUCTION Process for producing a sour sorghum meal for instant preparation, involving inoculation with starter. Followed by fermentation, solar drying of slurry and pulverising into a powder.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

305311 285 U J U
FAST HOLE DIGGER is a category 2 tractor mounted and powered digger capable of digging, in agricultural soil, up to 1000 holes per hour with one auger installed. Machines of 1, 2, or 3 augers are available. Some 35 billion trees are planted annually worldwide. Auger diameters up to 60 cm are available and hole depth is adjustable up to 45 cm. The unit requires 60 hp and will operate on any terrain accessible to the tractor.

305357 258 W S G
BATCH DRIER This is a design of a drier suitable for drying vegetables/grain/fruits on a batch process. It is suitable for rural areas.

305365 252 C L C
FISHING BOATS These are commercialised sea going fishing boats, constructed to Ghanaian hardwood and fitted with diesel marine engines of different power according to boat capacity. Robust, low cost and efficient.

305506 63 W L U
FOREST RESOURCE MANAGEMENT SYSTEM Computer-based information management system for the evaluation of resources in forested ecosystems. It consists of a relational data base system, a geographic information system with wildlife habitat, timber application models, and a growth simulation model.

305507 68 P I U
PLANT HORMONE QUANTITATION Method for the production of antibodies to two important plant hormones, indole-3-acetic acid (IAA) and zeatin riboside (ZR). The ZR antibody is polyclonal and the IAA antibody is monoclonal. These antibodies are currently being used in enzyme-linked immunosorbent assay (ELISA).

Ref No. Org.No. Status Offer Source

305516 I P L C
INDUCTION HEATING TECHNIQUE FOR ROTARY ELECTRIC DRYERS Which concentrates the heat inside the device, and also heats the ribs of the internal fixed axis. The currents are produced within the internal walls of the dryer, without rotating electrical contacts. The resistance has been multiplied by 10 in relation with the internal wall to reinforce the thermal accumulation effect. The shell of the stainless steel dryer behaves like the secondary coil winding of a transformer, the laminated core of which is represented by elements captive in shell.

305524 85 M L U
BIOLOGICAL PESTICIDES Use of encapsulated micro-organism for agricultural and horticultural use minimises ecological damage. Good results with melons and carrots.

305525 85 W J P
AUTOMATIC TRANSPLANTER The automatic transplanter which is capable of transplanting up to 6 seedlings per second each row (4 km/hr) has been developed. Quality transplanting can be performed in any type of soil, either dry or wet and through plastic mulch.

305534 85 P L C
FORTIFIED COMPOST WITH ENHANCED DISEASE FIGHTING POTENTIAL A novel method of composting agricultural wastes (slurried cattle manure or grape marc) to produce a cheap and efficient alternative to peat moss, whose resources are dwindling worldwide, also effective in suppressing soil borne plant pathogens.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
305542	88		U		305579	112	F	L	U
INSECT REPELLANT FATTY ACIDS Certain acyl fatty esters of short to medium length acids (C5 to C12) with glucose have been discovered to repel insects from the surfaces of plants when applied thereto.					BALE HANDLING AND SHREDDING Vehicle trailer-type apparatus capable of loading, transporting and shredding a large bale of material. Shredded material is blown or moved into an auger for discharge into a feed bunk or storage bin.				
305543	88		U		305588	112	F	L	U
INSECT ANTIFEEDANTS A novel class of organic nitriles which exhibit potent antifeeding activity toward the fall armyworm, <i>Spodoptera frugiperda</i> , and European corn borer, <i>Ostrinia nubilalis</i> .					METHOD FOR MEASURING MECHANICAL DAMAGE TO GRAIN (1) Involves taking a small sample and applying a solution of a substance which will selectively adhere only to the exposed surface of the interior of the damaged grain and not to the seed coat. Excess solution is rinsed away; thereafter, a solvent which will dissolve the substance adhering to the exposed internal parts of the grain is applied. The amount of recovered material brought back into solution is then measured; and the measurement is representative of the mechanical damage to the grain.				
305552	88		U		305589	112	F	L	U
RED SEEDLESS GRAPE Red seedless grape NY 63.878.1 'Einset'.					METHOD FOR MEASURING MECHANICAL DAMAGE TO GRAIN (2) Treated samples are ground to a uniform fineness, spread over a pre-determined area and exposed to ultraviolet light. Induced fluorescence is measured. The output of the measuring system is linearly related to and thus a measure of the mechanical damage of the sample.				
305560	88		U		305597	112	P	L	U
BOVINE MASTITIS VACCINE A vaccine for the prevention and/or control of gram-positive cocci, induced bovine mastitis infections and to an immunological method, an Elisa for assaying the humoral immune response of the lactating bovine mammary gland to detect antibody variables associated with the vaccinated or suspected infected bovine.					PLANT GROWTH INHIBITOR Method of inhibiting plant height growth without having any significant impact on flowering.				
305561	88		U		305608	112	P	L	U
PREGNANCY MARKER A method for determining pregnancy, and distinguishing actual from pseudopregnancy, in a dog or cat, measures relaxin levels in body fluids or tissues which carry relaxin during pregnancy, the presence of significant amount of relaxin being indicative of pregnancy.					NOVEL SOY-BEAN LINES (3) Methods for the production of soy-bean varieties and lines with linolenic acid contents of less than about 2.5% of the total fatty acid composition as determined by gas chromatography.				
305570	101	P	L	U					
FOLIAR APPLIED NUTRIENT Solution for enhancing mycorrhizal development of crop plants.									

OFFERS

CATEGORY 1: AGRICULTURE

Ref.No. Org.No. Status Offer Source

305617 112 F L U
GRAIN DRYING Low-temperature grain drying/aeration system. Includes a controller to respond to inputs representing initial conditions such as harvest date, harvest moisture and air flow rate. The controller responds to control outputs to provide humidistatic control of fan and heater operation. It automatically transfers operation from the drying mode to an aeration mode to provide periodic ventilation of the stored grain.

305626 113 P L G
ROUND BALE PROCESSING The design of a round bale processing machine is available for license. The machine transports the bales and provides a feed product acceptable to the animals. Companies requesting to see the complete set of design drawings will be asked to sign a confidential disclosure agreement.

305635 113 F L/J G
ORNAMENTAL WHITE SPRUCE A new variety of white spruce has been developed. This, normally green, spruce has bright yellow spring foliage and a slower than normal growth rate. These characteristics identify a tree with potential value for ornamental use.

305644 133 P L P
PLANT WATERING AND FEEDING SYSTEM Designed to simplify the process of supplying water and nutrients to plants with a timer action and which automatically removes excess water from plants.

305662 136 C L U
GENETIC IMPROVEMENT OF PIGS AND RABBITS Computer programme. The multicharacter BLUP system is used to valueate each breeder using all data from its relatives and correcting environmental effects.

Ref.No. Org.No. Status Offer Source

305675 94 W L U
MICROCAPSULAR BIOPESTICIDE DELIVERY SYSTEM *Bacillus thuringiensis* toxins are encapsulated with full retention of insecticidal activity and may be released in a sustained or triggered fashion. The microcapsules may include one or more adjuvants which enhance wall strength, assist in solvent separation, protect the toxin from photodegradation, or contribute to buoyancy.

305822 1 L
VARIABLE FLAP GRADER for strawberries, gooseberries, apples, greengages, pears, apricots, peaches, plums, potatoes, baby carrots, cauliflower florets, button mushrooms. Designed to handle the product in the most gentle way possible, these machines are adjustable to any grading size required and will divide the product into up to four different grade sizes in one pass.

305849 163 C L G
GRAIN PROCESSING MACHINERY Fabrication, installation and maintenance of grain processing machines such as dehuller, destoner, dryer etc.

305858 225 C J G
MANUAL SOYABEAN SEED PEELER The equipment has a hopper capacity of 15 Kg and a peeling capacity of 15 Kg per minute and a roll diameter of 115 mm. It is used to peel soyabeans to make Rempch (soyabean fermented food) and Tabu (soyabean cake).

305905 329 C L G
MAIZE SHELLER designed to be operated manually or driven by an electric motor or a small engine for effective shelling of maize which had been dried on the cob. The cobs are dropped into the machine one at a time in a succession. The sheller, when operated mechanically, can shell 100 kg/hr.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

305939 337 W L G

ESTIMATING RESISTANCE OF WHEAT ETC Phytopathologic method of revealing and estimating partial resistance of wheats to corrosion, rice to pyricularioze, potato to phluoroze. We have revealed and described mutual relations between the field and laboratory methods of determining the said sign. There are basic criteria characterising the sign of partial resistance in the field and laboratory conditions, and on this basis the wheats have been classed as to the resistance level.

305941 337 W L G

TRANSPLANTATION OF EMBRYOS Scheme of polyovulation, methods of washing out, device for extracting embroyos, assessment, storing and transplantation of embryos of cattle.

404969 42 L

SOMERSET FRUIT GATHERING MACHINE A range of pedestrian controlled and tractor mounted, fruit gathering machines. Suitable for applies, as well as citrus and other fruits and nuts. As well can be used for collecting golf balls, beach litter etc. Virtually eliminates fruit damage while dramatically increasing productivity and works in a wide range of surface conditions even in long grass. Patented.

404987 42 L

WINDFOIL FENCING A fencing system that is rot free, maintenance free, made of stiles which interlock and are pre-stressed to release at particular wind velocities, thus avoiding the fence blowing over in strong winds or panels dislocating and causing damage.

Ref No. Org.No. Status Offer Source

405093 24 M L U

NEW SWEET POTATO VARIETIES The two potato varieties developed are VSP 4 and VSP 5, suitable for use as raw materials for starch production using polycross breeding technique. The varieties are also recommended as sources of animal feed. They are not recommended as human food as they have high moisture content.

405107 65 M L U

NEW WHITE POTATO HYBRID The new variety developed is a cross between C-112 and India 1058-B coded 379410. It is an early to medium maturing variety, (75 to 85 days) with a fast bulking rate, especially when grown in low elevations. T-204 is moderately resistant to bacteria wilt, late blight and early blight, but is susceptible to root-knot nematode thrips and mites.

405113 65 U L U

NEW AVOCADO VARIETIES Two new varieties named 'Calma' and 'De Leon' have been developed: 'Calma' has the following characteristics: weight 500 G; length 149.4 mm; width 99.25 mm; edible portion 75.18; protein 1.47; crude fat 6.40; crude fiber 2.49. While 'De Leon' has the following characteristics: weight 330 G; length 104 mm; width 84.55 mm; edible portion 67.19; protein .88; carbohydrates 6.09; crude fat 7.07 and crude fiber 1.76.

405116 24 M L U

INTERCROPPING CORN WITH CASSAVA Two planting techniques tested. Intercropping corn with cassava gives a net income higher than obtained with a cassava monocrop.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

405134 107 F L/J R
POLYCHLORO-THIOKOL ALUMINIUM TUNGSTATE ORGANIC SEWAGE FLOCCULANT This flocculant is obtained by polymerisation of inorganic aluminium ions, featuring high basicity and high polymerisation power. It is a multi-purpose organic sewage flocculating and purifying agent. 80-85% of treated water can be re-used in industrial production.

405348 259 C L C
TRACTOR These are 12 HP, 14 HP and 118 HP tractor models suitable for agricultural activities like land tilling, harrowing, planting and even driving irrigation pumps.

405356 258 W S G
ANIMAL FEED MIXER This is a design of a grinding and mixing equipment for chicken feed. It is mechanically operated.

405384 242 C S U
WOOD STOVES Design modification to existing wood stoves enables wood stoves to use forestry and saw mill residues as fuel eg twigs, slabs and edgings. Produces good heat, efficient and cheap to run.

405515 1 U LU CL
INTEGRAL DRIP TUBE FOR DROP-BY-DROP IRRIGATION Integrates in one single stage the water distribution tube with the drip feed system. A high performance product can be obtained at a very low cost, enabling countries with a minimum investment

Ref No. Org.No. Status Offer Source

405533 85 M L C
HIGH EFFICIENCY GENERATION OF POULTRY LINES EXPRESSING FOREIGN DNA SEQUENCES Simplifies the generation of transgenic poultry, yielding high percentages of transgenic animals with minimal effort. The introduction of foreign genes into chickens can result in better lines with faster growth, immunity to infection by specific viruses etc.

405551 88 U
VARIETAL WHITE GRAPE Varietal white grape NY 65.444.4 'Melody'.

405578 105 P J U
PLANT PACKAGING A novel container system developed to overcome difficulties of transportation and display and to provide an environment for controlled growth and acclimatisation of seeds and plantlets. The technology is applicable both to consumer products and also for larger scale commercial growers.

405596 112 P L U
METHOD FOR DETERMINING BODY WEIGHT OF A NEWBORN CALF Weight is determined by equating it to the body weight of the newborn calf in the control group having the closest hoof circumference to that measured for the calf of unknown body weight.

405603 112 P L U
METHOD FOR INDUCING LABOUR AND PARTURITION IN ANIMALS In term or near term animals are treated with a labour and parturition inducing quantity of corticosteroid.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

405612 112 P L U
HEAD MOUNTED STEREOTAXIC APPARATUS Stainless steel apparatus for precise localisation of probes/cannulas in selected regions of the mammalian brain. Novel aspects of this apparatus include versatility in placement of probe/cannula in selected sites of the brain, mobility of the animal after attachment of the apparatus to the frontal bone, and repeated use of the same instrument on different animal species.

405621 112 P L U
COMBINATION OF GROUND AND FOLIAR APPLICATION OF FERTILISER Legume grain crops growing under field conditions are supplied exclusively with nutrients from the ground (N,P,K and S) until the seeds start to fill and then are sprayed with an aqueous fertiliser solution providing these nutrients. Seed yields are appreciably increased. The method is particularly applicable to soy-beans.

405625 113 L
AGGLOMERATION OF PROTEINACEOUS SOLIDS Finely divided proteinaceous solids derived from cereal grains or legume seeds are caused to agglomerate by contacting the organic suspension liquid with an immiscible bridging liquid. The agglomerated solids can now be recovered from the liquid by conventional means.

405630 113 L
PEDOTECHNICAL SOIL SAMPLING SPADE A portable soil sampling pedotechnical instrument for use in remote locations is described. A saw toothed blade, cross linked to a second handle provides a measured volume sample from the desired depth of the test hole. Accurately mounted accessories are used to test soil compactibility, soil fragmentation and resistance to tillage machinery.

Ref No. Org.No. Status Offer Source

405639 113 L
PEDOTECHNICAL SOIL SAMPLING SPADE A portable soil sampling pedotechnical instrument for use in remote locations is described. A saw toothed blade, cross linked to a second handle provides a measured volume sample from the desired depth of the test hole. Accurately mounted accessories are used to test soil compactibility, soil fragmentation and resistance to tillage machinery.

405653 136 P L C
DRY EGG CLEANING Industrial system that removes dirt adhering to eggshells in a non-humid environment.

405657 136 C S C
AUTOMATIC WEIGHING PACKING AND LABELLING MODULE For sphere-like products (citrus fruits) for all kind of products (garlic, nuts, peppers, potatoes) and for delicate fruits.

405671 30 C L/S/J R
METHOD FOR CALCULATING OPTIMUM AMOUNT OF FERTILISER This method, using prior year data, enables the optimum amount of fertiliser to be calculated accurately without the need for soil analysis. Can save up to 25% of nitrogenous fertiliser compared with conventional methods.

405831 102 F J G
BIOGAS-RENEWABLE ENERGY UNITS Utilise cow dung - animal and farm wastes to generate biogas for cooking, lighting and electricity production and can also be utilised to power small industrial units in the Sahel and other regions. Micro-hydro units can also be set up based on specific requirements.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

405833 49 P L U
ROTARY FLASH DRYER FOR WET PADDY The components of the dryer include: hopper, rotary drying cylinder, rice hull furnace, flue gas inlet, radial type blower, paddy cooler and discharge chute. The equipment is fueled by agri-wastes. Wet paddy is heated by conduction as it passes through the hot rotating cylinder. Cooling is accomplished on oscillating screens by forcing ambient air. Tests showed that grains with an initial moisture content ranging from 20 to 27 per cent can be flash dried by 5 to 6 per cent per pass in 90 seconds. The capacity varies from 150 to 75 KG/H.

405835 70 C L U
CUCUMBER VARIETIES The three non-bitter cucumber varieties developed are: UPL CU-6, FI-1616 and FI-1618. Varieties FI-1616 and FI-1618 have a field resistance to downy mildew and powdery mildew, while UPL CU-6 is moderately resistant to downy mildew and watermelon mosaic virus. The fruits of three varieties are blocky in shape, dark green and stippling, with white spines.

405903 329 C L G
SEED PLANTER The planter is suitable for the planting of maize, melon seed, sorghum and other small seeds. Its operation is manual. The fabrication of the seed planter is within the competence of a small mechanical workshop due to its simplicity.

405930 337 W L G
GROWING OF CROPS BY DIRECT SEEDING AND MINIMUM SOIL CULTIVATION For water erosion areas on sloping grounds. Precludes water drainage.

Ref No. Org.No. Status Offer Source

405957 337 P L G
OPEN FOREST TREE NURSERIES Charts of requirements of nursery soils in fertilizers; a complex of measures to protect the coniferous plants.

504962 42 L
'VETICHOL' SUPERIOR ANIMAL STIMULANT FOR CATTLE, HORSES, GREYHOUNDS AND SHEEP A new legitimate veterinary product with similar ingredients to its illicit counterpart, having a high percentage of alcohol but with an additive of a suitable denaturant which has been approved by authorities. Product has had scientific biological tests consistent with international standards. For the treatment of sick cattle, horses, sheep and greyhounds. 'Not for human use'.

505008 42 L
AGRICULTURAL MACHINERY Major producer of agricultural fertiliser distributors for their unique program of fertiliser dosing and spreading systems, also is seeking products pertaining to the agricultural machinery.

505044 106 C L G
NEW VETERINARY PREPARATIONS FOR TREATMENT OF COW MASTITIS Therapeutic effect of furahin and sulfabicitrin is higher than that of masticid 2.

505055 79 P L U
MULTI-CROP SEEDER ATTACHMENT FOR POWER TILLER The all steel implement consists of a seed hopper, furrow opener, seed tubes, a groundwheel with chain and sprocket drive, furrow closers and the power tiller attachment assembly. For sowing maize, soya bean and mung bean. The equipment can seed two rows per pass.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

505062 58 C L C
TOILET SOAP BARS FROM TOPPED DISTILLED COCO FATTY ACID The process for the manufacture of the invented soap bars include partially saponifying the topped, distilled coco fatty acid, so as to produce a superfatted soap, containing free topped, distilled coco fatty acid, removing water from the partially saponified topped, distilled, coco fatty acid, mixing the superfatted soap with adjuvant(s), cutting the bar to lengths and pressing individual lengths to final bar or cake form.

505073 10 P L C
PINEAPPLE PRODUCTION Production of pineapple destined for canning including site selection, land design, preparation and erosion control, crop variety selection, field maintenance and management, flowering induction, harvesting and fruit quality control.

505091 70 C L U
TOMATO VARIETIES The two varieties - Marikit and Maligaya have been developed. Marikit is an all season variety. Maturity ranges from 85 to 90 days from sowing. Fruits are small or medium, hemispherical and orange to red in colour, yield of 20-30 tons per hectare, Maligaya is heat tolerant variety with an all season adaptability, yield ranges from 20 to 34 tons per hectare. It matures from 75 to 80 days during the wet season. Its fruits are small, round with pink colour.

505265 217 C L C
PLASTIC MICRO IRRIGATION SYSTEM This has an on-line deipper which can be installed directly into polyethelene laterals and highly resistant to chlorine and most commonly used fertilisers plus precision two piece micro spray jets with colour coded bases to determine spray patterns.

Ref No. Org.No. Status Offer Source

505269 221 C L/J P
CATTLE LICKS A mineral block which does not allow wastage of minerals and is thus cost effective and economical.

505296 209 P L C
ANIMAL FEEDS System for mixing of concentrates such as maize grains, ground nut cake and soya beans meal and their crushing, final mixing, bagging, stitching and labelling. Standard capacity: 1,000 tons a year.

505358 258 W S G
IRRIGATION WATER PUMP This is a locally designed and fabricated irrigation water pump. It is suitable for rural areas where electricity is not available as it can run on diesel.

505367 250 M S G
PLANTS MUTATION BLEEDING This is application of ionising radiations in work aimed at producing new and improved varieties of crops having some desirable characteristics such as higher yield per acre, resistance to disease pest and early maturing etc.

505385 242 C S
HAND CORN SHELLERS It is made out of mild steel truncated cone with lateral ribs welded to the inside walls of cylindrical cone. Cheap, efficient and durable.

505393 245 C L C
AGRICO PEDAL THRESHER Suitable for rice, wheat, sorghum and millet. Consists of a frame supporting a hoop peg drug, which is rotated on a horizontal axis by means of a foot operated treadle board.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

505504 69 M L U
DNA FINGERPRINTING AS AN IDENTIFICATION TOOL IN ANIMAL BREEDING PROGRAMMES Between 8% and 12% of the animals involved in national breeding programmes are misidentified reducing accuracy of evaluation of potentially superior sires and effecting the level of genetic improvement that can be achieved. Use of DNA restriction fragment length polymorphisms (RELPs) allows positive identification of relationships among animals.

505505 62 W L U
BLOW-FLY BAIT-TIN Low cost method to assist in the selective reduction of blow-fly involved in the severely damaging occurrence of 'fly strike' in sheep flocks. The bin is reusable and the flies that enter are destroyed chemically.

505514 83 C J G
PRODUCTS FOR DOGS, CATS AND HORSES WELFARE Animal welfare covering products for dogs and cats in the following areas: disinfection, removal of parasites, nutrition, cosmetics and shampoo.

505522 85 U L C
FRUIT PICKING DEVICE Operates automatically when sensing the fruit. Device cuts the fruit stem in a controlled manner and correct length.

505523 85 M L/J U
ENCAPSULATION OF HERBICIDES Systems for reducing the loss of applied herbicides from water leaching, evaporation and photochemical and biological degradation.

Ref No. Org.No. Status Offer Source

505532 85 M L C
MICRO-PROPAGATION OF PATHOGEN-FREE BULBS AND CORMS IN GEOPHYTE SPECIES BY THE USE OF BIOREACTORS (LARGESCALE LIQUID CULTURES) This method will enable large scale, rapid and disease-free propagation of various vegetable and ornamental geophyte species and will reduce prices in vitro plant products. Suitable for rapid biomass production.

505540 88 U
PRESERVATION OF FISH The keeping time of fresh fish is greatly improved by killing surface bacteria through the use of a short hot water dip and/or a bactericidal dip (eg chloride dioxide or potassium sorbate). The fish is then stored in a super-chilling ice/salt mixture. Five weeks shelf life is possible.

505541 88 U
PLANT PROPAGATION Cutting propagation wherein a portion of a plant skin is banded with velcro, whose protruberances appear to enhance the rooting phenomenon. This band can be done with prior etiolation and enhances rooting by cutting generally and allows consistent rooting of plant materials which previously have resisted such efforts.

505550 88 U
STRAWBERRY A strawberry plant which has large fruit, all-round performance and good fruit quality.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
505559	98			U	505595	112	P	L	U
EQUINE INFLUENZA VACCINE A method and resulting temperature-sensitive (ts) reassortant virus produced by modifying wild-type equine influenza viruses by utilising mutagenised human influenza viruses possessing ts lesions and shut off temperatures in the area of 37.5C - 39.5C, preferably 37.5C - 38.5C. When utilised as a vaccine for equines these recombinant viruses protect against infectious equine influenza disease.					DETECTION OF PREGNANCY IN DOMESTIC FARM ANIMALS A transducer is placed in contact with the uterine artery of the animal and the velocity of blood flow in the uterine artery is measured. An increase of flow is an indication of pregnancy.				
505568	101	P	L	U	505602	112	P	L	U
INCREASED FERTILITY Increased reproduction rate in gilts.					TREATMENT AND CONTROL OF MILK FAT DEPRESSION IN LACTATING COWS 1,3-butanediol is orally administered. The method is particularly useful where the lactating cows are being fed a high energy, low roughage ration.				
505569	101	P	L	U	505607	112	P	L	U
VETERINARY CARE - STERILISATION Intratesticular drug to suppress spermatogenesis but not steroidogenesis.					NOVEL SOY-BEAN LINES (2) Method for producing soy-bean varieties and lines with palmitic acid contents of at least 18.0% up to 25.0% or more.				
505577	101	P	L	U	505620	112	P	L	U
NO-TILL PLANTER Design using a streamline horizontal shoe.					METHOD OF MANAGING CATTLE BREEDING HERDS Herds are managed for accelerated time-controlled calving using groups predicted to calve within a period of 10 days. 1,000 to 10,000 units of purified porcine relaxin are administered intra-muscularly or intra-cervically. Auxiliary agents may also be administered. Within the selected group, parturition can be limited to time periods as short as 24 to 48 hours or accelerated from 2 to 10 days.				
505586	112	F	L	U	505634	113		L	
COMBINATION TRACTOR AND FARM IMPLEMENT HITCH MEANS Enables farm implements to be lifted and towed in tandem fashion, or each implement to be individually lifted or towed by a single tractor.					ASSESSING THE RISK OF STEM ROT IN CANOLA CROPS This is a description of a method for forecasting sclerotinia stem rot in canola (rapeseed) crops. It allows improved disease risk assessment and helps to decide whether spraying against stem rot is needed. Testing kits for use by farmers can be developed and have been used in an experimental study.				
505587	112	F	L	U					
RECORDING SOIL PENETROMETER A scribe completes a depth-penetration resistance graph on recording paper as the probe of the device penetrates the soil.									

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

505643 133 P L P
IMPROVED GARDEN HOE Long handled garden tool that features an angled, curved head with highly sharpened edges for increased effectiveness at weeding and cultivating.

505648 136 C J C
BIOLOGICAL FERTILISER WITH MICROELEMENTS Product that acts as catalyser of the soil biological activity. It is a compound of microorganisms (bacteria, algae) which reinforce the nitrogen fixation biological activity, compensating the lack of balance produced by the excessive use of chemical fertilisers, improving the soil yield.

505652 136 P J R
CULTURE OF PHYTOPLANKTON, ZOOPLANKTON, MOLLUSCS, CRUSTACEA AND FISH Live bait production techniques for the first development stages of cultured species, including the exploitation of saltworks and bioreactors (the latter is still being prepared). The offer includes luring induction techniques for fish, molluscs and crustacea; egg quality control of the cultured species and of the *Artemia* cyst; techniques to carry out metabolic and nutritional studies. Also on offer - diagnosis of infectious diseases, advising on general preventative measures and treatments.

505661 136 W L U
GENETIC IMPROVEMENT OF HORTICULTURAL SPECIES Development of plant regeneration by means of explants, cells and protoplasts, of different horticultural species and application of 'in vitro' selection, of somatoclonal variation, protoplast fusion and genetic transformation to the genetic improvement of the mentioned species, with contrasted experiences on cucurbitaceous plants (cucumber, melon).

Ref No. Org.No. Status Offer Source

505666 136 U L C
'IN VITRO' CULTURE OF VEGETABLE CELLS AND TISSUES Permits the clonal propagation (micropropagation) of aromatic, medical and forest plants as well as the genetic improvement of these species and the in vitro production of medicinal or aromatic compounds.

505670 28 C/F L C
BIOLOGICAL FERTILISER Microbiological process converts hens droppings and other wastes from animal husbandry into high quality biological fertiliser (compared with conventional drying or composting procedures at lower cost, with less environmental pollution and with a higher content of nutritive substances).

505679 146 P L U
AMPHIPHILIC BLOCK COPOLYMERS Novel terminally functional (ie telechelic) polymers having a polyisobutylene are described. The end groups are styryl and can be reacted with conventional monomers to form copolymers having unique physical properties. Copolymerizations with N-vinyl-2-pyrrolidone produce amphiphilic polymers which are useful in the areas of medicine and agricultural chemicals.

505819 1 P L/S G
VERMICULTURE SYSTEM FOR CONVERTING DOMESTIC AND AGRICULTURAL WASTE INTO COMPOST This plant which has been operated successfully for several years on a continuous basis converts organic waste into a fine granular compost for horticultural use and generates a worm surplus which is converted to high protein animal feed. An ingenious breaker bar design is used to break up the digested material into granular form for discharge and this has other applications.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

505889 42
LIQUID MANURE HANDLING Processes and products for the handling of manure based on liquid manure and sludge ie tenders, pumps, mixers, equipment for spreading and burying etc, clean and handle waste water, processing waste products separation of manure into liquid and dry components etc.

505910 329 C L G
CONTINUOUS GRAIN DRYER The dryer consists of four units: vertical drying chamber, heat exchanger, steam generator and air blower. The dryer is a rectangular box, 3m x 0.8m x 0.4m, containing 10 shelves inclined at 43 degrees to the horizontal to allow the drying material to slide down from shelf to shelf. Other data: theoretical capacity (1m3), maize-in-cob (0.6 tons), grain depth (on shelf) (9 cm), maximum steady temperature (40 - 55 degrees C). For the mechanical drying of grains (food) and cobs fed continuously from the top.

505937 337 C L G
SELECTION IN POULTRY BREEDING Proceeding from the duration of embryonic development at breeding a homogeneous flock is formed. On the 120 to 126 days of life initial lines and pairs are selected with due regard for DED and the length of hypnotic response. Gives early selection of highly productive species, homogeneity of flock, compatibility of original forms, maximum realisation of genetic potential of poultry.

505946 337 C L G
RECIPE OF COMBINATION FODDER for cows and calves with 45% reduced corn mass. Low cost of concentrates.

Ref No. Org.No. Status Offer Source

604964 1 L
FRUIT STRIGGER Designed to remove stalks, twigs, leaves and remains of flowers from deep frozen currants. Undersized fruit is separated providing a clean undamaged product 2-4 tonnes per hour 5 mm screen size.

604971 42 L
WILD MUSHROOM The trend in Europe is towards more natural and exotic food, considerable research has been done in mastering the production of wild mushrooms. The most promising results are: Pleurotus Ostreatus, a licence agreement for this product would cover production of bales and the know-how of farming.

604982 42 L
PYRETHROID INTERMEDIATES Highly selected catalysis of addition reactions of polyhaloalkanes to olefins is applied in the industrial synthesis of pyrethroids. The variety of raw materials enables the selection of synthetic route according to local and market situation. The variability of synthetic routes opens possibilities for improvements of current process.

605035 100 L
DI CALCIUM PHOSPHATE The essential ingredients required animal/cattle/poultry feed (it is also used in toothpaste, tooth creams, food and pharmaceutical industry).

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

605060 56 C L C
LAMINATING PLYWOOD AND OTHER BOARDS MADE FROM WOOD AND OTHER AGRICULTURAL FIBRES A process of protecting plywood and other boards made from wood and agricultural fibres comprising the steps of laminating plywood using aluminium, steel, stainless steel, copper, tin, tin plates and other metals in sheets or foils. A motor driven conveyor feeds said plywoods to a cleaning mechanism ensuring plies to be free from dirt, a glue spreader mechanism, a roller presser and feeding the plies to a roller conveyor to come out as a finished product.

605089 65 C L U
NEW BEAN VARIETIES Two new bush bean varieties 'PSB PSI' and 'PSB BS2', and a new pole bean variety 'PSB PS1'. All three bean varieties were developed using the pedigree method. All varieties are highly tolerant to rust and fusarium wilt and moderately resistant to mosaic virus.

605102 77 C L G
CABBAGE VARIETY A new breed of cabbage, known as 'AVRDC 62' is a cross between two open pollinated lines E-7 and B-18. The average diameter is 11.86 cm and its length is 17.65 cm. It matures in 43 days with an average yield of 17.20 tons during the dry season and 13 tons during the wet season. Recommended for year round planting either in low or high elevation. Moderately resistant to soft rot, and diamond black moth.

605238 124 C L C
BONE MEAL It is used in the formulation of animal feed, poultry feed and manure. Raw bones, sodium hydroxide, hydrochloric acid are the raw materials. For a production capacity 20 tons per month 300 sq mt covered area is required.

Ref No. Org.No. Status Offer Source

605270 235 F L G
ESSENTIAL OIL DISTILLATION UNIT A steam distillation unit for distilling essential oils from cinnamon leaf, citronella, lemongrass and other sources.

605313 257 W S G
AGRICULTURAL PUMPS This is a locally made pump suitable for small scale agricultural activities like irrigation. It is made from local material and can run on diesel or electricity.

605350 259 C L C
CHICKEN FEED MIXING MACHINE This is a chicken feed production system designed to grind and mix various inputs which are required for a standard feed for various types of chicken (eg broiler, layers etc).

605359 256 C S C
ANIMAL FEEDSTUFF The technology involves the grinding and mixing of ingredients to form uniform sized particles at large scale. The product is a balanced diet providing carbohydrates, protein, fat, minerals and vitamins for chicken.

605368 249 W S U
FUEL FROM ANIMAL WASTE Biogas digester similar to Chinese design has been constructed and is being tested with various feedstocks, principally cowdung and mixtures of cowdung with grass, cassava peelings.

605394 245 C L C
AGRICODISC HARROW A standard tractor mounted off set disc harrow, consisting of two gangs of discs, with six discs, each set on spools on a shaft. The gangs are mounted on bearings in a heavy rectangular steel frame; one gang is located behind the other and follows the front gang.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

605395 245 C L C
AGRICO DISC PLOUGH This is a standard tractor mounted disc plough, consisting of disc blades, complete with standards individually mounted on a rectangular hollow plough beam with accessories.

605513 76 C L/S P
PLASTIC COATED STEEL FRAMES FOR GROW BAGS Raised platform allows excess water to drain and air to circulate and supports canes for growing plants.

605531 85 F L R
POLYETHYLENE BASED FILM FOR AGRICULTURAL USE PE based polymeric compositions containing special additives and polymers to transform into films for use as covers for growing plants or crop. The formulations improve the optical properties of the films by increasing the light absorption in the area of the spectrum of IR.

605558 88 U
APPLE CULTIVAR A sport of 'Empire' which is significantly redder than 'Empire' but otherwise substantially identical to 'Empire'.

605576 101 P L U
CROP PLANTER A mini-ridge forming crop planter for cool, moist soils.

605594 112 M L U
IMMUNOASSAY FOR ANTIBODIES Swine serum is tested for antibodies to pseudorabies (PR) virus by an immunoassay using a specific supernatant-elaborated PR virus antigen which is antigenically distinct from the lectin-binding glycoproteins of PR virus.

Ref No. Org.No. Status Offer Source

605611 112 P L U
HYDROLYSIS OF FATS AND OILS Triglyceride oils are enzymatically hydrolysed to fatty acids and glycerol by liquid phase contact with moisture de-hulled oat seeds (oat caryopses).

605616 112 F L U
FRONT AXLE SUSPENSION SYSTEM FOR A VEHICLE CHASSIS The pivotal connections of the links are so arranged that the instantaneous centre of the suspension system will always be below and rearward of the front wheel centreline.

605629 113 F L G
PROCESS FOR LONG-TERM STORAGE OF JERUSALEM ARTICHOKE TUBERS A process for 12 months storage of Jerusalem artichoke tubers. The details of this low-cost, know-how process will be revealed to those companies requesting and signing a confidential disclosure agreement.

605638 113 L
ELEVATOR FOR HARVESTING DELICATE AGRICULTURAL PRODUCTS This device will elevate without damage delicate agricultural products, particularly those having irregular size or shape such as potatoes, from the digging bed of a harvester to a height suitable for loading onto a vehicle.

605647 135 M L U
IMMUNODIAGNOSTIC TEST FOR BOVINE MASTITIS Currently in laboratory EIA format but suitable for transfer to one step cow-side assay. Monoclonal antibody detects novel mastitis specific antigen in milk - 98% correlation with somatic cell counts from 100,000 cells up thus detecting subclinical or clinical mastitis.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

605656 136 C S C

VEGETABLE AND FRUIT MACHINERY
Including box washing machines, sizing, selecting, fruit packing and pre-packing machines, box piling and unpling machines, and pallet netting.

605665 136 U L C

PREPARATION OF ACTIVATED COALS
Starting from vegetable waste, animal waste (skins) or organic polymers, the most suitable activated coal for a filtering process can be obtained.

605674 85 C J P

ERECTION OF CONTROLLED RELEASE NPK FERTILISER PLANT The new slow release controlled release fertiliser (SR-CRF) due to its relatively low cost might be used not only in the hobby and professional gardening market, but also in the horticultural sector, greenhouses, open field cash crop vegetables and ornamentals.

605935 337 C L G

IMPROVING BREEDING, FATTENING AND MEAT QUALITY OF SWINE BREED BY SELECTION In breeds 'white', 'landras', 'Welsh' there are special species and lines with high breeding and fattening qualities which are used in hybridation systems for intensive production of pork.

704973 42 L

AUTOMATIC TRANSPLANTER This unique transplanter is capable of fulfilling the market's requirements for automatic transplanting of seedlings in the field. A configuration was developed after analysing modern agricultural trends towards transplanting of seedlings and evaluating the limitations of current equipment.

Ref No. Org.No. Status Offer Source

704984 42 L

AUTOMATIC WATERING CONTROLLER WITH MOISTURE SENSOR Automatically water a garden, the moisture sensor senses the shortage of water in the ground and can be adjusted by the user to decide the suitable frequency of watering. Compact, can be set anywhere needed, sprinklers or watering mechanisms can be attached, weather-proof housing. For gardening and agricultural use.

704991 42 L

NEW DEVELOPMENT IN THE BARLEY FIBRE SEPARATOR FIELD Unique project consisting of a machine for separating barley fibre, patented. Removes the fibre from the barley grain into two parts, the first one is low in the fibre and the second is rich in fibre. Advantages: nutrient value of animal feed is improved and many other features.

705015 82 W J C

POLYSVETAN FILM FOR GREENHOUSES Polysvetan is polymer optical convert film which is able to convert ultra-violet radiation into red radiation. This is equivalent to increasing film transparency in the 580-750 nm range up to 70-85%. Compared with glass or conventional polymer film greenhouses, vegetable crops show the following increase (in %): tomatoes, 50-90%; cucumbers, 15-50%, green peppers and lettuce, 15-20%. Growing periods are 3 to 15 days shorter.

705022 92 C L C

MULTICROP THRESHERS for small scale agriculture.

705040 102 W J G

MAIZE MILL with fodder chopping machine. Dual function prototype, besides milling maize, is ideal for cutting fodder/maize stalks to prepare animal feed.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

705087 65 M L U
WHITE SQUASH VARIETY The variety is known as 'tambuli'. It is a product of mass selection from an open pollinated variety. It is an early maturing variety, with the first marketable harvest being ready in 82 days. It is claimed to produce 12 fruit/plant. The potential yield is 15-20 tons per hectare. The fruits are light, green in colour or/and white succulent flesh.

705105 32 L C
BAMBOO PROPAGATION The process involves inducing bamboo branchlets to grow roots by marcotting rather than propagating them from stem cutting. The selected branchlets are marcotted in individual plastic bags and developed in nurseries for several months before being transplanted to the field.

705108 65 M L U
NEW CASSAVA VARIETY The new variety developed by the Rootcrops Breeding Group, is named 'UPL CV-3' and is popularly known as 'Sultar 1'. It is a cross between Bogor 397 and SIP 24-2. It has the following features: yield (tons/HA) open field - 55.9, under coconut trees - 15.9, maturity (days) 224.

705111 65 M L U
GROUNDNUTS VARIETY FOR PARTIAL SHADE PLANTING The new variety is called 'UPL-PNB (Biyaya)'. It is a cross between CES 101 and PI 298115 varieties. It is a 3 seeded variety, has a pink seed coat, an average content of 24.28 to 27.71 per cent protein, 25.09 per cent carbohydrates and and 45.09 to 47.52 per cent fats. Suitable for partial shade planting such as under coconut trees.

Ref No. Org.No. Status Offer Source

705114 34 M L R
TOMATOES FOR PROCESSING New variety named 'BPI TMP-1 (or 'Bukodtangi')' is a large, intense fruit that is resistant to cracking. It matures in 60 days and has an average yield of 36 tons per hectare. The new tomato is susceptible to bacterial wilt and is recommended as a second crop after lowland rice.

705123 39 C L C
CUTFLOWER PRODUCTION Technical know-how for the production of anthurium, roses, tropical orchids, chrysanthemums and other ornamental plant varieties including varietal selection, site selection and preparation, farm design, pest and disease management, nutrition and fertilisation, postharvest handling, preparation or project pre-feasibility and feasibility studies and industry and market studies.

705165 180 C S C
PLASTIC COVERED GREENHOUSES Plastic covered greenhouses designed for professional use. A wide range of structures from a single tunnel to a 9m width multispan. Full range of equipment includes natural static and dynamic ventilation systems.

705266 237 P L G
SPIRULINA ALGAE This microscopic plant, a type of alga that grows in fresh water. Contains up to 70% of protein, 8% lipids and 16% carbohydrates and is kept in aseptic condition in the laboratory in flasks. By serial transformation they are cultured in larger and larger vessels under artificial illumination unit ready to be transferred to outdoor culture. The Algae are grown in open ponds in a nutrient medium helped by regular mechanical agitation to increase photo-synthetic yields.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

705275 222 U J G
CONTROLLED ATMOSPHERE GRAIN STORAGE TECHNIQUE A pest control technique wherein bagged grains are stored in a well sealed plastic enclosure. It is basically a fumigation method. The process involves disinfecting the grain with the use of CO₂ or PH₃ gases and preventing reinfestation.

705324 296 W S G
LOW COST PADDY THRESHING MACHINE this is a locally developed technology for threshing paddy into rice. It is a simple mechanical system, manually operated and ideal for small scale farming.

705351 258 W S G
PADDY THRESHER This is a design for the rice threshing equipment. It is manually operated and ideal for rural areas.

705360 255 W S G
DOUBLE FURROW PLOUGH with seeder attachment. This is a design of a dual purpose farm implement for simultaneous ploughing and planting using one operator. It is suitable for small scale farming.

705378 239 C S G
TCC FRUIT STRIPPER It consists of a metal cage with holes and a belt driven shaft. Metal rods welded to the shaft serve as beaters. The whole assembly is raised off the ground so that stripped nuts can be collected under the cage.

Ref No. Org.No. Status Offer Source

705502 60 M L U
BIOLOGICAL CONTROL OF INSECTS Genetic manipulation of Baculoviruses for improved control of insect pests. Using recombinant DNA technology to construct baculoviruses with improved efficacy or killing power, for insects. Genes, coding for proteins which have insecticidal activity or genes coding for insect, are cloned into the baculovirus genome. When the virus begins to replicate these genes are expressed producing protein products which are toxic to the insect or disrupt biochemical process and ultimately kill the insect.

705503 60 W L U
JET AND AIR-LIFT PUMP CLAM HARVESTING AIDS Harvesting of clams via traditional hand methods is slow, hard work. Preliminary results with air-lift (for water depths of four feet or greater) and jet (for any depth) pumps show great promise for harvest mechanisation.

705512 71 M L/S G
PLANT FOR INTENSIVE FISH REARING The plant ensures fish rearing the whole year round without climate dependence because of closed cycle of water-supply with high quality of purification and preparation of reclaimed water. The device saturates reclaimed water with oxygen.

705520 85 P L U
SPECIFIC INHIBITORS OF TISSUE-DEGRADING ENZYMES For control of post-harvest diseases of fruit and vegetables - an R & D project to upscale for commercial development.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
705521	85	W	J	U	705566	94	W	L	U
FASTHOLE DIGGER Machine for continual drilling of exactly measured holes high digging rate. Is hitched to and powered by a standard tractor. Operates in most types of soils and conditions. For use in planting and replanting of trees in forests and plantations.					INSECTICIDAL BIOGEL DELIVERY SYSTEM The invention provides a novel biological insecticide delivery system which overcomes current delivery and environmental degradation problems.				
705530	85	W	J	P	705567	98	U	J	C
TURN-KEY PROJECT FOR THE PRODUCTION OF EXOTIC MUSHROOMS This system is based on the exploitation of cotton plant stalks and straw as a substrate for the cultivation of fungus.					PROCESS TO PRODUCE PULP AND CHEMICALS FROM CEREAL STRAWS The process separates out all the saleable components of the straw, giving much greater utilization of the raw material than before. The sugar and lignin by-products which are extracted leave a lower proportion of the material to be disposed of as effluent. Simplified methods of production reduce requirements for water and energy.				
705539	88			U	705575	101	P	L	U
REMOVING ANTIBIOTICS FROM MILK A method of removing antibiotics from contaminated milk by passing it through an ultrafiltration membrane wherein the antibiotic products are small enough to pass through the membrane as a part of the permeate. The larger soluble components of milk are retained in the retentate.					PREFERENTIALLY PRESSURISED JETTING SYSTEMS To particularly pulverise parts of plant products.				
705548	88			U	705584	112	F	L	U
PURPLE RASPBERRY A purple raspberry plant having good resistance to aphids and fruitworms, bearing large fruit of good quality.					CORN SHELLING DEVICE Comprises a support structure, a plurality of rollers for shearing off the kernels and power means for rotating each individual roller at a different speed.				
705549	88			U	705585	112	F	L	U
RED RASPBERRY A red raspberry plant bearing fruit of good quality with outstanding overall characteristics.					GUIDANCE SYSTEM FOR TOWED VEHICLES Automatic system comprising a marker, a position sensor, an electronic operational amplifier circuit, an electrical servo controlled hydraulic valve, and a hydraulically controlled swinging draw bar hitch.				
705557	88			U					
APPLE CULTIVAR A distinct apple cultivar exceptional for its large size fruit, attractive bright red finish, good yellow flesh color, good eating quality and high fruit yields.									

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

705593 112 P L U
GRAVITY TABLE AUTOMATION Any misalignment or deviance of the movement of control particles is detected and adjustments can be made to the operation of the table. The separation process can then be controlled to bring about optimum efficiency.

705606 112 P L U
NOVEL SOY-BEAN LINES (1) Method for producing soy-bean varieties and lines with low palmitic acid contents of less than about 6.0% of the fatty acid composition down to about 3.5% or lower.

705615 112 P L U
ROSE - 'BUCAROO' A new variety of shrub rose plant distinguished by its tolerance of low winter temperatures, its resistance to foliar diseases such as Blackspot and Powdery Mildew and its continuous production of large flowers of light red-purple coloration.

705624 113 L
DEHULLING OF RAPE OR MUSTARD SEED DEFATTED MEALS An improved process for separating rape or mustard seed meals into flour and hulls. The flour is of higher quality with a lower fibre content than has been hitherto obtained. Also, a lower proportion of the oil is lost with the hulls.

705642 128 M L U
REVTMENT BLOCKS RESISTANT TO JAPANESE KNOTWEED A novel design of revetment block for river bank stabilisation. Conventional flood revetment blocks are rapidly disrupted by growth of Japanese knotweed. The new revetment blocks prevent growth of tall perennials, but their microporous structure allows grass to establish an aesthetically pleasing cover.

Ref No. Org.No. Status Offer Source

705660 136 W L U
NEW TOMATO VARIETIES Development of five lines and one hybrid, all of them parthenocarpic, able to produce fruits during winter time without the need of hormonal treatments or heated hotbeds.

705821 42 L
AUTOMATED ONE STEP OUTFLOW DEVICE Two of the most common soil physical properties are: 1) the soil water desorption curve and 2) soil hydraulic conductivities. Such data is difficult to obtain and provides at best only estimates. One step outflow device has been designed for use with numerical procedure to obtain continuous estimates of these soil hydraulic properties in approximately one tenth of the time.

705839 64 M L U
PRODUCTION AND PROCESSING OF SALAGO FIBRES A technology package for the production and processing of salago fibre have been developed. The package includes techniques for propagating the salago plant as well as information on fibre extraction.

705891 336 W L U
WHEEL-BARROW A modified wheel-barrow on three wheels incorporated with a tilting mechanism, for easy materials handling and off-loading.

804975 42 L
WATER ABSORBING POLYMERS FOR AGRICULTURAL AND GENERAL USE Non-toxic, FDA approved, crystals which hold and retains oil moisture. Used for household plants, home gardens as well as large scale farming, enhancing the effect of these plant growth supplements.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

804986 42 L

A DIAGNOSTIC TEST FOR INCREASED PROLIFICACY IN PIGS Method of identifying pigs with the likelihood of producing large litter sizes, by detecting a genetic marker associated with large litter size. This method manufactured as a kit, is essential to cut costs of both swine producers and breeders, reduce reproductive inefficiency.

805020 91 C L/J C

HIGH GRADE BASIC SEED POTATO PRODUCTION Minitubers are produced from microplants grown in a unique, patented, photoautotrophic manner and handled by a patented semi-automatic system. The minitubers are field grown to produce a seed potato crop.

805067 4 P L C

CAPTURE FISHERY TECHNOLOGIES Including: project planning and development, feasibility study and detailed design preparation, construction and technical supervision, operations management and training of personnel. The working language is English.

805094 24 M L U

NEW SWEET POTATO VARIETY VSP 6 a new sweet potato variety was developed through polycross breeding technique of US X Japan 73 varieties. It is a creeping type with moderately round tuber with purple skin and yellow flesh. It has acceptable quality for human as well as animal consumption.

Ref No. Org.No. Status Offer Source

805117 24 M L U

GROUND NUT PRODUCTION Steps: preparing land 13 days prior to planting by 15 cm ploughing, selecting high yielding seed variety, pre-planting pesticide seed treatment, planting at 10 cm intervals in rows 35 cm deep, fertilising in 3 cm drills a day prior to planting, side dressing with calcium sulphate at 300 KG/HA after planting, spraying with herbicide, pesticide and fungicide, cultivation 14 days after planting, hilling at 45 days after planting and harvesting.

805138 26 W L U

OX CART Ox cart with plain bearings, wooden bearing blocks and flexible non-puncture wheels. Can be maintained, repaired and produced locally. Avoids the main problem of punctures.

805280 230 C L C

SMALL SCALE MANUAL VEGETABLE OIL PRESS A universal press capable of processing different types of seeds as well as palm fruits, palm nuts, advocadas and coconuts. The oil extraction output of the press is 85%. The press can be fabricated in a workshop with the help of a welder and a turner.

805293 206 C L/S/J C

OIL SEED MILLING/EXPELLER/SOLVENT EXTRACTION PLANTS capacities 10 - 500 TPD.

805361 255 W S G

AIR TIGHT STORAGE BINS This is a technique of storing bins for various grain produce. It is simple to use and is chemical free with a reasonably low capital cost.

OFFERS

CATEGORY 1:

ICULTURE

Ref No. Org.No. Status Offer Source

805397 246 P S G
HYDRAULIC RAM PUMP The pump is actuated by force from drive water passing through drive pipes. Wastes and delivery valves open and close alternately. The water in the accelerator under the drive head obtained by a dam created at the drive side of the pump to activate pump.

805511 71 F/P L/S G
POLYMERIC MATERIAL FOR COVERING GREENHOUSES A polymeric material comprising a light-transparent polymer and at least one compound of f-element as the additive capable of absorbing the UV component of the daylight and of fluorescing within the orange-red range of the spectrum. Main use: agriculture, mainly relates to greenhouse facilities.

805538 88 U
SOYBEAN MEAL This process produces a debittered soybean product which contains a minimal fat content and which has increased water solubility utilising a first extraction of bitter principles from soybeans with a polar solvent followed by a succession of non-polar extraction rinses to remove essentially all of the fat content.

805556 88 U
FIBRELIGHT RESISTANT ROOTSTOCKS A series of fibrelight resistant rootstocks are available for testing and selection in anticipation of naming, releasing and licensing.

805574 101 P L U
PLANT DISEASE FORECASTING Leaf wetness emulator to be used in plant disease prediction or forecasting.

Ref No. Org.No. Status Offer Source

805592 112 P L U
AUTOMATION OF AN AIR-SCREEN SEED CLEANER Sensors assess the quantity of under-sized material separated by the screen and the quantity of lighter materials separated by the air-lift. The signals generated are received by a processing unit, which adjusts the extent of separation by the screen and by the air-lift to achieve the desired efficiency of the system.

805601 112 P L U
FEEDING CATTLE FOR MAXIMISED PROTEIN UTILISATION This is achieved by feeding rumen-protected protein having a negative Urea Fermentation Potential (UFP) together with other unprotected protein-providing feed materials having a net positive UFP and urea.

805610 112 P L U
PRE-EMERGENCE WEED CONTROL Corn gluten meal is used as a natural pre-emergence herbicide.

805619 112 P L U
VACCINES FOR COUNTER-ACTING INHIBITION OF NEUTROPHIL DEGRANULATION The vaccines can be used with cattle to increase resistance to certain infections and related symptomatic complex.

805633 113 L
PHENOLIC SAFENERS FOR GLYPHOSATE HERBICIDES This invention includes a method for protecting crop plants from the effect of glyphosate herbicides by selected phenolic compounds used to treat the seeds, the soil or seedlings and is an alternative to genetic engineering approaches.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

805637 113 L
CONTINUOUS TREE HARVESTER This machine, designed to harvest poplar trees, 2 to 6 inches in diameter, moves continuously down the row, cutting trees, stacking them and dropping the bundles. The machine leaves a clean healthy stump which promotes regrowth and minimises disease.

805651 136 P L R
CITRUS FRUITS PICKING By means of a vision system, detects oranges in the tree and then with a robotised arm picks them and takes them to a fruit handling and pallet storing system. The system contains: conveyor machine with hydrostatic traction and auto-guiding system; vision equipment with CCD cameras and image analyser for the location of citrus in the tree; controlled robotised arm with 5 degrees of freedom for fruit picking; fruit handling and storing system in the machine with loading and unloading system.

805655 136 C L C
VEGETABLE TISSUE CULTURE Specifically meristems culture and 'in vitro' micropropagation.

805669 1 M S P
ALGAE REDUCTION FOR PONDS OR RIVERS A non-toxic, dilute, easily applied solution which when introduced into ponds or rivers, reduces algae formation and promotes the growth of plants, fish etc. It has also been noted to improve the germination of seeds.

Ref No. Org.No. Status Offer Source

805678 115 W L C
PARA-NITROPHENOL AND PARA-NITRO-META-CRESOL INTERMEDIATES FOR PESTICIDES Process for making either of these is essentially the same: nitration of phenol or m-cresol in nitric-sulfuric mixed acids in the presence of nitrogen tetroxide. Nitrogen tetroxide is present to provide nitrous acid. In the presence of nitrous acid, nitration of phenol or m-cresol occurs predominantly in the para position. The nitrophenols or cresols are intermediates in the manufacture of a variety of important compounds, particularly pesticides. Information available: process information.

805848 181 C S C
INDUSTRIAL, FOOD AND AGRICULTURAL EQUIPMENT Agro-food engineering; equipment assembly, technical assistance/training.

805884 317 P L/J G
MOULDS, PRESS TOOLS, JIGS AND FIXTURES for agricultural and food processing machine production. It is currently undertaking tooling projects for national, private and government clients. Tooling has a vast contribution for mass production of machines in agro and food processing sectors.

805904 329 C L G
PALM NUT CRACKING MACHINE Mechanical cracking of palm nuts to release the palm kernels. To achieve cracking with the machine, the nuts are whirled around a circular path in an enclosed chamber and are flung, by centrifugal action, against a hard casing where the brittle kernel shell is shattered. The centrifugal force is calculated to ensure that the kernel or seed does not get smashed.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

805933 337 W L G
UTILISATION OF DRAINAGE WATER for irrigating fodder. Basic elements of ecologically safe technology of utilising drainage water of cellulose for irrigating fodder. Gives high yields.

805940 337 W L G
PASTURING MILCH COWS ON MODEL RANCH where the cows are pastured fastened or free the technology consists in the following: zoo hygienic parameters of the premises and pastures or feeding sites and site of the manure; technology of preparation, distribution of fodder, milking cows of different ages and condition, formation of cow groups and their place for the whole cycle of reproduction.

805942 337 C L G
NEW UKRAINIAN RIDING SPORT HORSES Huge, massive riding horse, well built and with excellent exterior. 4 year old horse measures: stallion - 164-164-190-21, mares - 162-162-188-20.5.

904970 42 L
LANGOIS MODULE TRANSPLANTER A tractor towed plant module transplanting machine suitable for all horticultural and forestry applications. Simple device, 7 moving parts, reliable and easy to adjust. Planter width is easily the lowest available, permitting row spacing down to 13 inches and plant spacing can be adjusted over an exceptionally wide range in a few seconds. Compact, low manufacturing cost.

Ref No. Org.No. Status Offer Source

904977 42 L
TURN-KEY PROJECT FOR THE PRODUCTION OF EXOTIC MUSHROOMS World mushroom markets have reached 1.3 m tons per annum with a rate of growth of 8% per annum. A new system for the production of exotic mushrooms have been developed. This innovative system is based on the exploitation of cotton plant stalks and straw as a substrate for the cultivation of fungus.

904995 1 L
PNEUMATIC SEPARATOR provides an efficient and simple means of separating leaf, pod and similar debris from peas or beans fresh from the vincer/harvester. Five ton and ten ton per hour versions are available.

905038 102 W J G
PALM OIL EXTRACTION UNIT Low cost simple equipment (can be manufactured/ maintained at village level) to process palm fruit for extracting oil. Equipment simplifies bunch stripping/oil extraction process.

905047 106 M L G
PROTECTION OF CEREAL CROPS Protection of hard wheat from diseases and pests by use of 2,4D-amine salt, dialen, baileton, vofatox and their tank mixtures in growing of summer hard wheat. Gives increased economic effect due to decrease of preparation expenditure rate and yield increase.

905056 51 P L P
MULTI-PURPOSE FARM TRACTOR The component of multi-purpose farm tractor consists of a rectangular chassis, differential, drive assembly, front wheels, steering wheel, speed selector lever, clutch, brake, accelerator pedals, back seat, swing arm suspension mechanism, cage wheel, battery alternator ignition. The farm tractor can be made to an ordinary passenger-carrying vehicle.

OFFERS**CATEGORY 1: AGRICULTURE**

Ref No. Org.No. Status Offer Source
 905092 72 M L U
ESTRUS SYNCHRONISATION IN BREEDING BUFFALO The technology involves: inducing the buffalo to come to heat by injecting protoglandin twice at an 11 day interval and artificially inseminating animals showing estrus within 72 to 96 hours after protoglandin injection with semen from good quality bulls.

905100 27 C L C
ANAEROBIC DIGESTORS Design and construction of complete anaerobic digestors and reactors based on efficient bio-augmentation technology for the recovery of energy from agricultural and industrial wastes.

905298 208 C L G
PRODUCTION PROCESS FOR N-TRIACONTANOL This is a process for isolating a pure form of n-Triacontanol, a plant growth promotor, which can be isolated from tea waste and sugar cane press mud by solvent extraction.

905300 229 C C
FLASH STEAM PEELING SYSTEMS This system, utilising high pressure steam to lift the skin from the vegetable, ensures that even awkwardly shaped products are evenly peeled. The final operation is to brush or wash loosened skin off in the after peeler. Low yield loss is a feature.

905316 289 C S G
BAMBOO PIPE FOR WATER CONVEYANCE Bamboos are used as pipes for water conveyance. The technology involves the process of selecting and treating suitable bamboos for conveying water. The pipes are suitable for low pressure water systems such as irrigation. It is suitable for rural areas due to its low cost and adaptability.

Ref No. Org.No. Status Offer Source
 905352 258 W S G
GRAIN CLEANER This is a design for a grain winnower. It is manually operated and suitable for different types of grains.

905500 60 W L U
TRACTOR-PULLED EQUIPMENT FOR ERECTION OF LARGE ROW CROP COVERS Double row plastic covers can be erected using a mechanical structural aid mounted on a 3-point hitch. The machine forms two raised beds, stretches plastic mulch tightly over each bed, dispenses bi-wall plastic irrigation pipe, dispenses pipe frames so th at two workers can set them in and places, dispenses, and buries one edge of the plastic skin. Wire trellising is also dispensed over each bed for tomatoes and vine crops. Greenhouses can be erected up to 500 meters in 8 hours with a 3-man crew

905501 60 W L U
FISH SORTING ON BASIS OF AERODYNAMIC SHAPE A mechanical system has been developed to automatically separate flat fish from 'round' ones in a mixed catch by utilising differences in projected area and aerodynamic properties. A continuous stream of mixed fishes are moved rapidly along an inclined belt, nose first. At the end of the belt conveyor, a blast of air from a commercial blower set at 45 degrees projects flat fish over a longer trajectory so that 95% separation is effected. Sorting by shape/weight on land or at sea is inexpensive

905510 69 P S U
INSITU METHOD FOR REMOVAL OF CONTAMINANTS FROM SOIL Geo composite mat with outer impermeable and inner permeable layers is placed over affected area. Steam piped into soil and a vacuum are used to draw pollutants into lower layer of mat. Invention may be applied to any road, railway, or airfield spillage quickly and easily.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source
 905519 85 P J G
KENAF VARIETIES AS RAW MATERIAL FOR PULP PRODUCTION Kenaf can be used as a source of cellulose for the production of newsprint. This project focuses on the development of higher quality varieties. Applications: 1. Production of newsprint. 2. Seed for edible oil production. Seed cake for fodder.

905528 85 U J P
YOGEV - AN UNMANNED AUTOMATIC ULTRALIGHT AIRCRAFT FOR CROP SPRAYING AND OTHER AGRICULTURAL USES A programmed computerised system permitting the system to spray agricultural areas. Usable day and night, it will allow treatment of fields quickly at their critical time, cause less pollution, more cost-efficient.

905529 85 C J P
ADOLAC Adolac is a ruminant feed additive composed of calcium salts of fatty acids in granulate form, that dramatically increases milk production, especially during the first month after calving. The product can be added directly to livestock feed or compounded into pelletised feeds.

905537 88 U
IMPROVED CHEESE YIELDS The flavor stability of milk is enhanced by heating fresh milk at a temperature long enough to significantly lower its bacterial count. Further, the yields in a conventional cottage cheese or quarg making process improve when milk is similarly heat treated and then aged prior to use.

Ref No. Org.No. Status Offer Source
 905546 88 U
ULTRASOUND GRADING OF MEAT Carcasses or live animals are evaluated for fat thickness and muscle area by ultrasound. Measurements are made by a digitizer, analysed by computer and results printed out.

905547 88 U
RED RASPBERRY New and distinct variety of summer-bearing red raspberry which is exceptional for its large fruit, its high yield potential, and its well-displayed and easy to harvest crop.

905555 88 U
VOLE-RESISTANT APPLE TREES The vole-resistant rootstock has a characteristic modifying distinct interstem interposed between the apple bearing scion and the rootstock. Alternatively, a composite stocksystem, uses a non vole-resistant stock below ground and a novel vole resistant stock above ground.

905564 88 U
FIRMER VEGETABLE AND FRUITS A method for markedly increasing the firmness of commercially canned fruits and vegetables by controlling the blanching temperature/time in the range of about 130 degrees to 160 degrees F for about 30 minutes before conventional sterilization. Acid pH and/or calcium addition also enhance firmness.

905565 88 U
BIRD FEEDER A bird feeder which uses a necked container for example a 2 litre soft drink bottle as a feed container. It can be readily molded from plastic. An ideal promotional give-away or mass market product.

OFFERS**CATEGORY 1: AGRICULTURE**

Ref No.	Org.No.	Status	Offer	Source
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905573	101	P	L	U
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ANIMAL FEED Improvement by chlorination prior to ammoniation.

905582	112	F	L	U
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CONCENTRATE METERING APPARATUS

Designed for removing toxic liquid concentrates from their shipping and/or storage containers, mixing selected amounts of such concentrates with water, and rinsing the containers when they are empty, in a manner that avoids exposure of users to such concentrates.

905583	112	F	L	U
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ROTARY TILLER SLOT PLANTER

Comprises a subsoiler shank position to engage the soil and make a trench. Rotating tiller blades chop the debris which may be along the trench and throw soil backwards so as to cover the planted seed. Shorter rotary blades on the tiller wheels are shaped to throw debris and the upper one-half inch of soil sideways away from the row.

905591	112	F	L	U
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DOSING SYPHON

Designed for hydraulic transport of livestock and poultry wastes, this comprises a water reservoir with a bell compartment of alternative configurations.

905600	112	P	L	U
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PROCESS FOR CONVERTING WHEY PERMEATE TO OIL-CONTAINING YEAST

The solids of whey permeate obtained by ultrafiltration are converted to a triglyceride oil-containing yeast cell mass by fermentation with fat-producing strains of *Candida curvata*.

905605	112	P	L	U
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GENETIC EVALUATION OF ANIMALS

A method of genetically evaluating animals by using mitochondrial DNA.

Ref No.	Org.No.	Status	Offer	Source
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905628	113		L	
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PRODUCTION OF PURIFIED PROCINE IMMUNOGLOBULINS The invention provides a method for the continuous production of a purified procine immunoglobulin preparation which is employed in the formulation of milk replacers for neonatal pigs. The milk replacers confer passive disease immunity to the piglets and allow them to be raised from birth removed from the sow. Survival rates for piglets can be substantially increased and Specific Pathogen Free pigs can be raised under practical commercial conditions.

905646	133	P	L	P
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TELESCOPING STEEL FENCE POST

Which can be raised to facilitate the cutting of grass under the fence and then lowered for normal use.

905650	136	P	L	R
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PRODUCTION OF LONG LASTING HORCHATA

Two processes of elaboration of chufa orgeat: elaboration of protein enriched chufa orgeat stabilised by means of a mild heat treatment that minimises the physical, chemical and sensorial changes and long lasting orgeat powder obtention process.

905659	136	W	L	U
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IMPROVEMENT OF ORNAMENTAL SPECIES OF IN VITRO CULTURE TECHNIQUES

The basis for clonal propagation and/or multiplication of interesting practical genotypes have been established. This technology also permits advantages to be taken of the somatoclonal variations and protoplast fusion to obtain types that do not exist in the market.

OFFERS

CATEGORY 1: AGRICULTURE

Ref No. Org.No. Status Offer Source

905664 136 C J C
MICRO-IRRIGATION SYSTEMS

Development of a drip irrigation system that is easily dismountable and presents a turbulent flow to avoid settlings inside the dropper. It presents a long laying length and is manufactured with a special thermoplastic specifically developed for this application.

905673 71 M L G
METHOD OF PREPARATION OF

CALCIUM POLYPHOSPHATE Phosphite of any sort is treated with the mixture of phosphoric and sulphuric acids at 80 - 100 deg. C. The obtained pulp is dried and granulated at 140 - 200 deg. C. The granules are calcinated at 260 - 320 deg. C. Main use: phosphoric fertiliser of pro longed action.

905677 113 L
OILSEED PROCESSING

This invention provides a process for the production of a high quality crude rapeseed oil, substantially free from contaminants, which is suitable for direct physical refining. It also provides a process for the production of a high-protein low-fibre meal from a Brassica or Crambe type oilseed having high nutritive value as a feed for livestock.

905825 81 F/C L/C C
NEW GENERATION FARM MACHINERY

Like rotavators, post hole diggers, rotaslashers, front end loaders, seed cum fertiliser drill etc, which use the tractor power and are versatile easy and are quick and efficiently made with technical collaboration from Thrige Agro Howard group of companies, Europe.

Ref No. Org.No. Status Offer Source

905841 108 U L/J C
AN INNOVATION OF THE GARDEN HOE/

CHANGKUL A multi-purpose construction tool, agriculture implement and doubles up as a small boat anchor, which has mechanical advantages as a hoe, pick-axe, denailer, lever, simple shovel for chipping flooring, demolition of brick walls, hacking holes for piping, tilling and warehouse usages etc.

905870 206 C L/J/S C
HYDROGEN GENERATION PLANTS

Hydrogen required by vegetable oil hydrogenation units is manufactured by electrolysis of water.

905900 331 C L U
MAIZESHELLER

for the mechanical shelling of maize on cobs and other related grains for grain production in agro-allied industries. The sheller has a maximum breakage of about 0.001 percent and with the right moisture content an output of about 1.5 tonnes per hour.

905929 337 W L G
EFFECT OF FERTILIZERS

on fruits and berries. Low energy consumption. System of utilisation of fertilizers for fruits and berries enabling the recovery of the soil fertility and marked increase of yield of the plants. Used in preparing container grown plants.

905931 337 C L G
FODDER PRODUCTION AND MEADOW

CULTIVATION Undersowing of beans and other valuable grasses in improvement of meadow herb. Surface cultivation of sod of low product on meadow by undersowing of high energy grass seeds. Allows speedy sowing of grass, high productivity (1.5 to 1.8 times).

OFFERS**CATEGORY 1: AGRICULTURE**

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
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905938	337	M	L	G					
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PHOSPHOROUS FERTILIZERS Method of receiving dicalciumphosphate. Phosphogypsum is treated under certain conditions by phosphor containing drainage waters.

905949	337	M	L	G					
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PRODUCTION OF ORGANO-MINERAL FERTILIZERS on city drainage water deposits. Technology of preparation of straw-silt, turf-silt and other composts. Introduction of various micro-elements together with micro-fertilizers.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source
 4979 42 L
MALTED GRAIN FIBRES FOR NEW PRODUCTS By product from the brewing of beer, is found to possess excellent nutritious and economic potential. These fibres are rich in vitamins, albumen and minerals and an ideal basic ingredient in the process of a wide variety of everyday items of food from bread and biscuits to range of extruded cocktail or party snacks, salted or sweetened. Products are much easier assimilated by the human organism of essential minerals.

4990 42 L
SEASONING PRODUCTS using a sophisticated process of extracting and concentration of taste and flavour from natural food, powdered and liquid form products are produced.

4997 1 L
FROZEN PRODUCT BLOCK BREAKER Breaks up blocks of frozen product into manageable sizes with following features: rugged construction, hygienic design, high efficiency, safe design, (interlocking guarding) direct inline operation, no operational skills required, stainless steel contact.

5009 42 L
MICROBIAL PRODUCTION OF L-ALTROSE the non-nutritive sweetener L-altrose is obtained from extracellular polysaccharides elaborated by certain strains of the bacterium *Butyrivibrio fibrisolvens* when grown on a carbohydrate containing nutrient medium. L-altrose has not previously been found in nature.

Ref No. Org.No. Status Offer Source
 5018 89 M S G
PROCESSING AND UTILISATION OF PLANTAINS AND TUBERS Plantains, yams, sweet potatoes and cocoyams have been processed into flours. Locally known products such as 'foufou' porridges, fritters, biscuits have been made from these flours. The flours obtained are of good quality with an energy content comparable to that of cereals.

5027 96 C S/J C
AGRO-FOOD INDUSTRIES Baking plants, biscuit and rusk plants, pasta, animal feed.

5036 100 L
GELATINE Basic raw material for producing hard gelatine capsules. Used in the various projects for enhancing protein in food industry etc.

5054 48 P L C
PORTABLE ELECTRIC GRILLER The construction of a portable electric griller of the open air type consists of a rectangular housing formed by opposed end walls, a front wall and a rear wall, the improvement comprising a heating element detachably held within the housing, the housing which is of skeletal type has an open bottom provided with peripheral bottom support; a grid iron detachably supported on the said supporting flanges and an oil drip pan detachably supported on said peripheral bottom support. For roasting and broiling foods.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

5063 61 P L C

HIGH COMPRESSION FORMULATED FEED PELLETISING APPARATUS The invention relates to a feed pelletising apparatus designed to produce highly compressed feed pellets. Comprises a pelletising body fixedly secured on a conventional grinding machine having plurality of bores provided, a rotating shaft with a pellet cutter secured on one end and to the other is secured the rotatable main screw of a feed grinding machine.

5072 5 M L U

SMOKING GREEN MUSSELS The process developed involves: washing off extraneous materials, from live green mussels, boiling in 3 per cent brine solution or steaming in plain water for 10-15 mins until shells open, picking meat from shell completely or leaving half shell on, smoking for one hour at 40 degrees C in a specially designed smokehouse, cooling, packing, storing by freezing.

5081 17 M L U

FERMENTED NON FAT DRINK CONCENTRATE The drink called 'lactojuice' is based on skim milk powder, refined sugar, citric acid and lemon extract. The process involves: dissolving skim milk powder in warm water, treating mixture to simmering temperature in boiling water bath, cooling heated mixture to lukewarm temperature, refrigerating overnight, adding citric acid and then heating the mixture to simmering temperature in boiling water bath, cooling in lukewarm temperature and adding lemon extract and cooling. To prepare 'lactojuice', one part of concentrate is mixed with three parts of water.

Ref No. Org.No. Status Offer Source

5103 23 M L U

FISH SMOKING Fresh, cleaned fish is washed thoroughly, soaked in brine solution for 30-40 minutes. Pre-cook soaked fish, either by boiling or steaming. Drain and place in a cabinet solar dryer for 30 minutes to remove moisture. Put the fish in smoking trays in a wood or woodwaste fuelled smokehouse. The smoking process lasts from 30 minutes to one hour.

5105 17 M L U

CHEESE SPREAD FROM CURD The process involves utilising curd rather than cheese as raw material. Curd is cured for a week at room temperature and then seasoned with salt, sodium citrate, annato, bell peppers and, if desired, meat products.

5124 109 L G

THE PROCESS OF RIBOFLAVIN (VITAMIN B2) PRODUCTION The method is based on the use of the bacterial strain of *Bacillus subtilis* as a producer which is constructed using gene engineering procedures. After 60-65 h fermentation at 40 degrees C the method makes possible the production of 8-10 g/l of riboflavin using nutritional medium which contains molasses, sugar or glucose as a carbon source.

5130 110.05 M J R

EXTRACTION OF SAPONINS FROM BALANITES AEGYPTIACA This will give steroids to be used medicinally and as animal fodder. Economically viable. Availability of raw material gives an advantage.

5142 26 W L U

OX DRIVEN MAIZE MILL Maize mill driven by animal traction suitable for rural areas of developing countries. Capacity higher than with hand operated equipment. Not dependent on availability of fuel.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

5151 123 F L/J C
EXTRACTS FROM PINEAPPLE CANNING WASTE The technology uses cores and peels from pineapple canning waste to produce juices and wine. Equipment includes juice extractor mixture heater, pasteuriser and steam bath heater.

5160 188 F J R
TECHNOLOGY FOR PROCESSING GRAINS eg millets and sorghums into meal for human consumption. Machinery uses abrasive carborundum disks to decorticate grain and separates the bran from the grain prior to milling into flour.

5181 163
PALM WINE Process technology, equipment and machinery to preserve and bottle palm wine for long shelf life.

5213 124 C L C
FISH PROCESSING The ready to serve fish products are very common like fish pickles etc. Raw materials: fish, brine. Covered area: 500 sq mt. Production capacity: 300 kg.

5227 124 C L C
KHANDSARI Khandsari sugar is hard and white dry crystals used in food, sweetening of food stuffs, manufacturing of syrups etc. Raw materials: lime, castor seed, gunny bags. Production capacity: 17 metric tons/month. Covered area: 1000 sq mt.

5245 124 C L C
VINEGAR mainly used for improving tastes and flavour of food products and in the preparation of pickles etc. Raw materials: fruit waste juice, yeast kms sugar colour. Production capacity: 1600 litres/month. Covered area: 200 sq mt.

Ref No. Org.No. Status Offer Source

5249 124 C L C
STARCH SYRUP used for making confectionery; fish paste products; medicaments or for industrial use making syrup. Raw materials: cassava starch. Covered area: 100 sq mt. Production capacity: 75 tons/month.

5327 280 C L C
BREAD AND CONFECTIONERY Bakers and confectioners, makers of breads, Italian, English, Portuguese, cakes, pies, sausage rolls and pastries.

5353 258 W S G
CORN SHELLER. This is a design of a manually operating corn shelling equipment. It is suitable for rural areas and can be modified to operate on electricity/ diesel.

5371 238 C S G
COMPOSITE FLOUR FORMULATION Wheat flour is mixed with a certain proportion of corn flour and baking trials carried out to determine the suitable proportion of the mixtures.

5389 243 C L C
KONKONTE CRACKER A heavy duty hammer mill, consisting of a hopper, metal hammers fixed on a horizontal rotating shaft and a screw, enclosed in a sheet metal casing. Power to the shaft is by an electric motor or a diesel engine through a belt.

5398 247 M S U
DEVELOPMENT OF PRECOOKED FOODS Cowpeas were cleaned and left to germinate in a beaker. The sprouts were broken off the seeds, dehulled, sun dried and milled into flour specified proportions of the cowpeas flour and cornmeal in a blender and steamed in an exhaust box for 20 minutes etc.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

5401 248 C L C
TCC CLARIFYING TANK This is essentially similar to the cooking kettle but in place of the sliding gate is fitted a pipe with faucet to discharge clear oil. Also the perforated cage is eliminated.

5402 248 C L C
TCC POUNDER A hopper installed on a cylindrical drum serves as the feeding point for boiled nuts. The drum contains a rotating screw shaft with rods welded uniformly around the circumference to serve as beaters etc.

5403 300 U J C
SCREW EXPELLER for the extraction of vegetable oils, Capacity: 40-50 kg/hr power requirement; 4 kw; residual oil content in cake: 10%; weight of machine: 230 kg. Handling of machine and opening of cage very simple. Novel cone adjustment system plus screw design allows processing of most oil seeds and nuts. Ideal for villages.

5404 299 F L C
MANUFACTURING PLANT Plant for manufacture of cakes/biscuits on basis of expanded cereals. Medium sized continental bakery. Plant for manufacture of waffles (sugar - sweet - fruit).

5405 184 F S P
CEREAL STORAGE Unloading and ventilation system for flat bottom silos concrete, metallic eg new mistral process patented allowing increased unloading flow rates by ventilation, polyvalency of storages for all types of cereals.

Ref No. Org.No. Status Offer Source

5406 287 C L/J P
OIL MILL has an integrated system consisting of a decorticator, boiler, expeller, pump and filter press, powered by either a 7.5 - 10 HP electric motor or diesel engine. The mill enables unrefined edible oils to be manufactured from a variety of oilseed crops.

5419 305 P J C
PULPER MACHINE to remove the pulp from palm nuts. Designed for individual users in small level farms.

5420 305 P J C
MACHINE FOR OPENING CACAO PODS The plant allows to open cacao pods and separate seeds from waste. Designed for individual users in small level farms (250 kg/h) easy to move.

5421 305 P J C
METHOD OF PROCESSING GREEN VEGETABLES Technology for producing and preserving green vegetables (vernonia a, Amaranthus h). Leads to industrial production of this basic item in equatorial Africa.

5423 305 P J C
TOMATO WITH CONDIMENTS technology for preparing tomato sauce with condiments from local spices. Avoids importing raw materials for producing tomato sauce.

5425 306 C J C
GRAIN MILL (hammer) machine for crushing grains (corn, mil, soya) for individual use by small producers.

5426 306 C J C
MACHINE FOR SHELLING MAIZE Manual corn sheller. Particularly convenient for small African farmers.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

5428 306 C J C
COFFEE DEPULPER Apparatus for individual use which permits to depulp arabica coffee. The apparatus is greatly appreciated by users for its high performance.

5438 312 C L G
SWEET YAM FLOUR A nutrition centre offers reconstituting or milling to obtain sweet yam flour.

5439 312 C L G
WEANING FOOD preparation including:- Harilac - based on rice. Patina - based on sweet potato. Ignamine - based on yam. Sorgolina - based on sorghum. Lactoma - based on maize.

5440 312 C L G
TUBER AND PLANTAIN FLOURS The process to obtain plantain and yam flour used for fritters, biscuits, porridge and cakes is offered.

5443 313 C L C
MANUFACTURE OF SHORTENING ie hardened fat for baking or deep frying. Starting from refined oils, processes include hydrogenation and blending. Brand name: ZAMBEKA.

5458 322 F S G
OX DRAWN OIL PRESS

5586 30 C J R
FOOD SUPPLEMENT Made from a plant extract, amino acid and trace elements, this nutrient helps humans to resist senility, to improve and adjust immune functions, to increase high density fat protein, prevent arteriosclerosis and to resist and prevent cancer.

Ref No. Org.No. Status Offer Source

5690 30 C L G
DEZHOU GRILLED CHICKEN Is carefully prepared from fresh chicken by a special process involving sixteen different ingredients. It has an attractive appearance and aroma, and may be eaten hot or cold.

5703 38 U S/J C
NEW LIQUEURS - US MARKET New Liqueur products developed primarily, but not exclusively, for the U.S. market seek a licence/distribution agreement. They are built on strong concepts fully supported by market research information. They are presented with a quality image in specially designed packaging materials. Recipes are BATF approved.

5706 42 F L C
CUSTOM CONE MACHINE A portable cone machine producing fresh baked tasty cones cooked in full view of customers, baked with variety mixes compatible with food being served in the cones, no handling, simple and easy to use.

5709 59 C L/S/J R
WHITE EGG LYSOZYME PRODUCTION for food industry and for pharmaceuticals based on batch method. Pilot installation productivity is 5000 kg/year. Purity of lysozyme - not less than 95% for food grade; not less than 97% for pharmaceutical grade. Activity - not less than 17 000 IE accord to SHUGAR.

5718 71 F L/S G
MULTICYCLONE PLANT In the potato starch processing the hydrocyclone plant replaces centrifuges for potato juice extraction, sifters for washing starch out of potato pulp, centrifuges for liquid separation and multicyclones for starch milk purification. By-products-pulp and potato juice are fully separated in the form suitable for cattle feeding.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

5730 85 F J P

EMULSIFIERS AND STABILISERS - SYNERGISM AND PHYSICAL PROPERTIES FOR THE FOOD INDUSTRY

In the food industry, stabilising agents - emulsifiers, proteins and hydrocolloids are taking an essential part in determining the quality of processed food.

5736 87 P L U

POLLUTION RESIDUES IN FOOD STUFFS

Development of monitoring systems.

5739 88 U

FERMENTED MILK PRODUCTS

A fermentation starter composition for fermented milk products formed from an inherently buffered, concentrated milk protein concentrate, a retentate formed by ultrafiltering milk and a milk fermenting, acid production causing bacteria. The compositions maintain a predetermined pH range for a substantial time period.

5760 88 U

APPLE CULTIVAR A distinct apple cultivar exceptional for its large size fruit, attractive bright red finish, good yellow flesh color, good eating quality and high fruit yields.

5772 113 L

INFANT FORMULA WITH LOW β -LACTOGLOBULIN CONTENT

The invention describes a method of preparation of whey protein concentrate with reduced β -lactoglobulin content. Since human milk contains none or very small amounts of β -lactoglobulin, this low β -lactoglobulin protein concentrate is suitable for incorporation into humanized infant formulae with defined proportions of casein, fats, carbohydrates, vitamins and minerals.

Ref No. Org.No. Status Offer Source

5790 113 L

PROCESS FOR PREPARING LOW-CALORIENUTS

A process for preparing nuts (eg peanuts) of reduced calorific value by optimised pretreatment and carbon dioxide partial extraction of oil from the kernels. The process is safe, non-toxic and avoids breakage or splitting of the nuts. The recovered oil is of premium cold pressed quality.

5793 113 L

HORIZONTALLY EXPANDING FLAME DEFLECTOR

A flame deflecting device designed to retard the spread of fire in a building through open or broken windows. However, this deflector expands horizontally from a retracted position and is designed for buildings with vertically closely spaced windows.

5809 136 C L C

RAISED DOUGH TO BE FRIED

Doughs, formulated from grain and other ingredients, which are preformed, partially jelled, cooled and frozen. Wide range of formats, covers and stuffing. Conservation: 21 days at a temperature between 5 C and 100 C and 2 to 3 months at a temperature of - 20 C. Final elaboration: frying for 30 seconds (cooled) or for 60 seconds (frozen), giving a crunchy surface product with a tender stuffing and exquisite edibility. Formulation, process, installation and quality control systems available.

5816 136 C L C

UNPALLETING OF FRUIT CONTAINERS

Machine that empties fruit containers or boxes by means of a hydraulic handling arm, followed by a fruit unloading system on to a conveyor belt. Main feature is that its average production is 20 to 30 t/h and an 8 kw installed capacity.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

5818 156 C L C
PERFUMES, FRAGRANCES, FLAVOURS, ESSENTIAL OILS ETC An established company is offering a distribution agreement, technology transfer, manufacturing licence, and/or joint venture agreement for its range of products and services. These include industrial perfumes and fragrances, aromatic extracts, agrochemicals, fine chemicals etc together with biotechnology developments in plant propagation, cell culture and virus-free plants.

5834 18 M L U
BLUE VEINED CHEESE Cow's milk is pasteurised at 63 degrees C. Calcium chloride solution S. Lactis and S. Cremoris culture starters are added and mixed. A water suspension of the blue mold spores is incorporated into the mixture and added within five mins. The coagulum is cut into cubes and allowed to firm up by turning it over on either side. The curd is partially drained and then hooped. The hooped curd is drained overnight and regularly salted for 5 days. The cheese is cured and is ripened for 8-10 days.

5845 190 W L/J U
BAKING OVENS FOR RURAL BAKERIES Fuel efficient ovens suitable for rural baking projects. The ovens are low cost and made of used oil drums.

5854 124 C L C
VERMICELLI a low cost nutritious supplementary food and is an acceptable convenience food. Raw materials: wheat flour (maida). Production capacity: 6.25 metric tons/month. Covered area: 150 sq mt.

Ref No. Org.No. Status Offer Source

5879 244 C L C
CASSAVA PRESS Consists of two heavy screws threading through an upper member. The lower end of the screws carry a wood board while the upper ends are provided with metal handles for turning the screws. As the handles are turned, the screws move downward and press the material beneath the fixed metal plate against a beam below.

5890 1 L
CANNERY EQUIPMENT, BRINER-SYRUPER efficient and economic method of adding brine or syrup to filled cans of potatoes, carrots, peas, plums and similar produce. Also suitable for some meat production lines for example canned frankfurter, sausages.

5897 334 C L/J C
FOOD PROCESSOR Comprises a) yam boiling pot (electrically operated); b) yam pounding/grinding pot; c) stew ingredient grinder; d) power unit/electric motor (to drive a & b). Pounding of yam and grinding (comminution) of ingredients for stew making. Construction materials are mainly scrap aluminium and ordinary mild steel.

5909 329 C L G
GARI PROCESSING MACHINERY comprising cassava peeling machine, cassava grating machine, pulp dewatering screw press, depulping machine, gari frying machine, gari screening machine (shaker and rotary), cyclone unit. Daily production capacity of 1 1/2 tons of gari. A dry, coarse flour and carbohydrate food from cassava root tubers. Items of the processing machinery are separate and available on unit operational basis.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

5911 330 C L G

MECHANISED PRODUCTION OF CASSAVA STARCH Technological specifications are provided for the processing of starch from cassava tubers, complete with the identification and availability of processing machines and equipment, some of which are also required for gari production.

5918 330 C L G

VILLAGE GARI FRYING STAND is an all-metal construction, with a thick-walled aluminium frying-pan luted with clay. The recommended fuel is coal, but wood or sawdust, can be used. It has a capacity to produce 60kg of gari daily. The frying stand is smokeless and cools while in use. It is designed for ownership by one person and is movable for indoor or outdoor use. No serious maintenance is required.

104999 1 L

CAN CRUSHER Designed primarily for position in line with the can opener/emptier, can crusher will reduce cans to a compact mass continuously without attention. Toughness and safety, the most important attributes for this type of equipment.

105007 42 L

MACHINE INDUSTRY AND ELECTRICAL INDUSTRY, ENVIRONMENTAL SECTOR AND FOOD PROCESSING SECTOR Offering licence for automatic cleaning equipment for small and large tanks (on trucks, ships etc) and equipment for environmentally friendly cleaning of roofs made from slates containing asbestos fibres.

Ref No. Org.No. Status Offer Source

105016 89 M S G

TRANSFORMATION AND CONSERVATION OF LOCAL VEGETABLES Green leafy vegetables including C. Olorotiu, S. Nigrum, Amaranthus, Gnetum, Vernonia and Cassava leaves have been processed into dried forms as well as OKRA and hot pepper. Tomato has been processed into flours. Their shelf life has improved several fold.

105034 99 W S G

TROPICAL DRIED FRUITS Pieces of mango and papaya sun dried are produced from an indirect solar drier. Treatment before drying, final moisture content and packaging are defined in order to store the end products during at least 6 months.

105052 45 W L C

POULTRY AND SWINE FEED SUPPLEMENT The feed supplement consists of the following: Vitamins A, D, E, K, B1, B2, B6, B12, Niacin, pantothenic acid, folic acid, biotin, choline bitartrate, glycine, cobalt and copper sulfate. The feed supplement is highly assimilable and is fortified with vitamins and minerals to meet the nutrient requirements of poultry and swine.

105070 8 P L C

FISHPOND CONSTRUCTION Design, detailed engineering and construction supervision for water supply systems, drainage systems, perimeter fences, hatchery and rearing ponds, pond auxiliary building, access roads.

105127 110.01 C J C

STEAM BOILERS Package boiler with automatic burner capacity 2.00 cu m/hr; 4500 lbs/hr. Simple design and technology. To replace the obsolete and non-economic boilers. Maximum working pressure 150 psi 60 units a year to be produced. Market available.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref.No. Org.No. Status Offer Source

105133 110.04 C J P
OIL PRESS WITH 500 KG/DAY CRUSHING CAPACITY For pressing sesame or other seeds containing oil. No heat addition needed. 100 units can be produced a year.

105166 179 F S C
CIRCUIT WEIGHERS, BAGGING MACHINES, AUTOMATIC METERING SYSTEMS Electronic or mechanical used in varied fields: cereals, fertilisers, cattle feed, flours, sugar, chemistry, cement.

105184 163 C L G
PRODUCTION OF GINGER POWDER concentrates and oleoresins.

105218 124 C L C
ICE MANUFACTURE Ice is used for preserving high perishable commodities such as marine foods, fresh meat, poultry products etc. Raw materials: brine. Covered area: 150 sq mt. Production capacity: 165 mt tons per month.

105236 124 C L C
DEHYDRATION OF FRUITS AND VEGETABLES a process of food preservation. The preserved fruits and vegetables can be used for future purposes. Raw material: fresh fruits and vegetables, chemical and preservatives, packing materials. Covered area: 400 sq mt. Production capacity: 10 tons of different fruits and vegetables.

105241 124 C L C
DEHYDRATED VEGETABLES are consumed by army and hotel industry. Raw material: vegetables, chemical and preservatives, packing material. Covered areas: 500 sq mt. Production capacity: 7000 per month.

Ref.No. Org.No. Status Offer Source

105250 124 C L C
STARCH FROM TAPIOCA Tapioca/cassava is used in textile/paper/jute mills and for conversion into glucose/liquid glucose and the dextrins. Raw materials: tapioca roots. Covered area: 1000 sq mt. Production capacity: 75 tons/month.

105254 124 C L C
SALT REFINING Raw materials: crystalline, solid white, crude common salt, pale pink or light grey. Covered area: 250 sq mt. Production capacity: 60 metric tons/month.

105294 206 C L C
MINI VEGETABLE OIL PLANTS Plants for the refining of vegetable oil, manufacture of shortening and hydrogenation of oil. Capacities 1 TPD to 25 TPD, though much larger sizes available.

105301 208 C L C
SIMPLE WHEAT MILLING PROCESS FOR BAKERY FLOUR AND CHAPATHI/ ROTI ATTA The process is a low capital investment project and up to 95% of the grain with almost all the nutrients can be utilised for human consumption.

105310 282 C L/J C
STEAM COOKERS, PASTEURISERS, STERILISERS for all foodstuff and packagings (cans, bottles, flexible trays, pouches). Static retorts from 1 to 6 baskets diameters 1200/1300/1400 mm. Rotary retorts from 1 to 5 baskets diameters 1300/1600/1800 mm. Pilot units / simulators for research and development purposes.

105319 293 W S G
WOOD/CHARCOAL FIRED FISH DRYING KILN This is a design of an energy saving and environmentally friendly fish drying kiln. It is suitable for small scale fish drying operations.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No.	Org.No.	Status	Offer	Source
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105354	258	W	S	G
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OIL EXPELLER This is a design of manually operated oil expeller with a production capacity of 5 litres/hour. It is suitable for pressing various types of seeds and it is easily portable and hence suitable for rural areas.

105372	238	C	S	G
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PRODUCTION OF COWPEA FLOUR Cowpea is soaked in water over night. Dehulled and dried. It is milled, sieved and packed into polythene pouches which are heat sealed and stored.

105381	240	C	L	C
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FATECO BATCH TOASTER Consists of a steel on top of which is mounted a geared motor driving an inclined pair of shafts. The toaster is mounted over a hearth usually built of bricks. The hearth is provided with a chimney which may be constructed of bricks on site.

105390	243	C	L	C
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DOUGH ROLLER The roller consists of basically three steel rollers, complete with a gearing unit, all mounted in a metal caging. The rollers are independently operated by electric motors.

105399	247	M	S	U
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DEVELOPMENT OF VITAMIN RICH ORANGE JUICE To 30 gm fresh well ripened orange fruit peel was added dilute citric acid solution and homogenated was centrifuged at 3000 RPM for 30 minutes. The peel juice is kept at low temperature for few hours and the solidified residual oil separated with a spatula etc.

105414	302	P	L	C
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HIGH PROTEIN COW BLOOD POWDER The technology for producing high protein cow blood powder by a thermal process. The powder is used for supplementing animal or human feeding.

Ref No.	Org.No.	Status	Offer	Source
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105416	304	P	S	C
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METHOD OF PRODUCING AVOCADO (PEAR) OIL Processing conditions for the production of clear light coloured avocado oil based on the extraction of oil.

105417	304	P	S	C
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MECHANISED DEVICE FOR PROCESSING (CUTTING, SLICING) GREEN VEGETABLES with leaves and other vegetables. Facilitates the process of producing dried or bottled vegetables.

105418	305	M	J	C
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TECHNOLOGY FOR PRODUCING PURE BANANA FLOUR from unripe banana plantain. Developed processing conditions for the production of flour based on the extraction of plantain starch. Plantain flour is used in preparation of cakes, baby food.

105422	305	U	J	C
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CLEAR LIGHT COLOURED SPICE OILY EXTRACT An inventive process for producing a brilliantly clear light, delicately naturally flavoured oily spice extract which may be concentrated without deposition of any sediment. Extract can be obtained for spice, hot pepper, ginger, mint.

105429	307	F	L	C
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CANNED PRODUCTS OF VARIOUS TYPES and willing to produce under licence. Products include lake fish, corned beef, baked beans, pineapple chunks etc. Products available for export market.

105433	308	C	L/J	C
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SPICE OLEORESINS production offered.

105434	310	C	L	C
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THE MANUFACTURE OF WAFER BISCUITS and allied food products.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source
 105435 310 C L C
BISCUITS, BREAD AND CONFECTIONERY Turn key projects for food industry with special reference to biscuits, bread and confectionery or setting up/servicing of any small scale industry.

105442 313 C L C
MARGARINE Starting from refined oils, butter fat or milk powder. Process include hydrogenation, blending and emulsification. Brand names: SPRING and MERIT.

105444 313 C L C
EDIBLE OIL REFINING Starting from crude oil, processes include degumming, refining, winterizing, bleaching and deodorising. Current brand name: SALADI.

105452 324 C L/J C
BREADMAKING OR PROCESSING TECHNOLOGY

105457 322 F S G
HAND MAIZE SHELLER

105461 322 U S G
HAND GRINDER

105462 322 C S G
TDAU RAM-OIL-PRESS

105464 320 C L C
PROCESSING OF TOMATO, MANGO AND ORANGE with process flow charts to produce tomato paste and ketchup, orange squash and marmalade and tomato chilli sauce.

Ref No. Org.No. Status Offer Source
 105466 320 C L C
CLEAR GUAVA JUICE process of producing clear and almost colourless guava juice. The juice can be used in still drinks or fermented to produce alcohols; it can also be carbonated. Products from this juice do not exhibit sedimentation.

105473 328 F L/J C
PRODUCTION OF ALL TYPES OF PASTA PRODUCTS

105681 9 P S/J C
MONITORING AND CONTROL IN FOOD STERILISATION PROCESSES Italian company operating in food industry instrumentation and control offers advanced sterilization system design.

105699 38 W L C
HOP ANALYSIS STANDARDS Analysis of hop bittering compounds is routinely conducted by high performance liquid chromatography. The technique relies on the use of high purity standards. Synthetic techniques have been developed for the provision of these standards for the accurate analysis by the hop/beverage industry.

105712 60 M L/J U
MEASUREMENT OF COLOUR INTENSITY IN FOOD PRODUCTS Four newly reported sources of anthocyanins are red pigments. These unusual anthocyanins feature new chemical structures, which have required the development of new laboratory techniques that combine colour measurement with chemical analysis. The new pigments have been extracted and used to colour a simulated beverage. The research team is testing the stability of the pigments under commercial storage conditions and under the varied temperatures of processing.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref.No. Org.No. Status Offer Source
 105715 66 F L G
FERMENTED MILK BEVERAGE WITH VITAMIN B12 AND FOLACIN The two vitamins are essential growth factors of every living cell. Regular consumption of the product enhances the resistance of organism against infection diseases, it exhibits a beneficial effect to the digestive organs and stimulates the formation of red blood cells. These properties determine its suitability for use in hospitals and medical institutions as well as in kindergartens and schools.

105721 71 F/P L/S G
TECHNIQUE OF KEFIR MANUFACTURE
 The method of kefir manufacture for obtaining an acidified milk product consumed as a nutritive product by people, including children, sick or weak. Yogurt and other acidified milk productional lines may be used for kefir manufacture.

105724 71 F L/S G
COFFEE PREPARING SET The set includes: mill with a folding handle, coffee pot with a removable handle, packing cup with cover which may be used for coffee-beans keeping; cup with cover for keeping milled coffee; burner for coffee preparing, when travelling, with dry fuel.

Ref.No. Org.No. Status Offer Source
 105727 I P L/J C
BIO-INDICATOR FOR FOOD PROCESSING CONTROL Confirms the quality of products after sterilization or pasteurisation. It addresses the food and pharmaceutical industries and canning factories already use it extensively for routine autoclave sterilisation tests. The device is a sphere containing 95% of aqueous gel within which specific micro-organisms have been encapsulated, for instance *Bacillus stearothermophilus* spores. The sterile surface prevents any contamination of products being tested, has excellent mechanical, thermal resistance.

105733 85 M L C
PRODUCTION AND UTILISATION OF A SPECIFIC ENDO-BETA-GLUCOSIDASE
 For the food, wine and perfume industries and with possible applications in industrial fuel production: potential for improving wine aroma and juice aroma of various fruits, increasing the efficiency of fruit concentrates and improving the flavour of beverage such as tea, coffee, cocoa and beer.

105742 88 U
STABILISATION OF GRAPE JUICE OR WINE Fresh, pasteurised or fermented grape juices are color stabilised by the use of honey or a color stabilising protein extract of honey as a stabilising agent. This method can replace the use of sulfites.

105745 88 U
POULTRY PRODUCTS Ground and/or deboned meat is laminated between two slices of poultry meat to provide an attractive lower cost substitute for sliced poultry.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

105748 88 U
ULTRASOUND GRADING OF MEAT
 Carcasses or live animals are evaluated for fat thickness and muscle area by ultrasound. Measurements are made by a digitizer, analysed by computer and results printed out.

105751 88 U
PURPLE RASPBERRY A purple raspberry plant having good resistance to aphids and fruitworms, bearing large fruit of good quality.

105754 88 U
VARIETAL WHITE GRAPE Varietal white grape NY 65.444.4 'Melody'.

105757 88 U
APPLE TREE ROOTSTOCK A new and distinct cultivar of apple tree Novole, resistant to pine voles, meadow voles, and crown rot and being easily propagated by cuttage.

105763 88 U
COFFEE WHITENER A powdered, high protein, low fat and sodium, and reduced lactose dairy coffee whitener, equal in whitening power to non-dairy coffee creamer, made from decreamed milk ultrafiltration retentate and a minor whitening powder of riboflavin or beta carotene or a mixture thereof.

105766 90 C L/J C
CONVENIENCE FOODS An offer licence to manufacture 32 extremely successful lines of healthy convenience foods ranging from savouries to cakes. All lines produced by this innovative company occupy a place at the leading edge of nutritional research: being vegan (dairy and egg-free), organic, sugar free, wheat free and gluten free.

Ref No. Org.No. Status Offer Source

105769 101 P L U
PROCESS FOR SEPARATING AND RECOVERING CRYSTALLINE SUGARS
 from the crude product obtained from the acid hydrolysis lignocellulosic materials.

105775 113 L
HIGH-PROTEIN SNACK FOODS A simple two-step method of producing nutritious deep-fried chips from the flour of certain legume seeds. The product is crisp and puffy, and its initial blandness makes it easy to flavour.

105778 113 L
PROCESSING AQUEOUS-TREATED CEREALS This is a mild but effective process that does not involve conventional milling for treating cereal grains to give products substantially free of embryo, bran and aleurone tissues without damaging the starch grains or denaturing the proteins. The process is especially well suited for treatment of oats and gives a high yield of a genuine refined oat flour extremely suitable for human consumption.

105781 113 L
DEACTIVATION OF TANNINS IN SEEDS
 Some seeds, particularly grains like sorghum and barley, or legumes like beans and peas, contain toxic amounts of tannins. The invention provides a chemical modification method for deactivating the tannin content and reducing it to nutritionally desirable levels.

105796 113 L
MODIFIED ATMOSPHERE PRESERVATION METHOD FOR FOOD
 This method relates to food-preservation in contained modified atmosphere at temperatures ranging between -6°C to -12°C. It can be applied to preserving fruit pieces, fish or meat. Adequate preservation can be achieved with obvious energy-savings.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

105799 113 L
PROCESS FOR PREPARING LOW-CALORIE NUTS A process for preparing nut (eg. peanuts) of reduced calorific value by optimized pretreatment and carbon dioxide partial extraction of oil from the kernels. The process is safe, non toxic and avoids breakage or splitting of the nuts. The recovered oil is of premium cold pressed quality.

105802 136 P L R
HOMOGENEOUS QUALITY XIXONA NOUGAT MANUFACTURING PROCESS The developed technology consists in the identification of the intrinsic changes experienced by the raw materials in the nougat manufacturing process in order to be able to act on them.

105827 80 U/W S/J G
INSTANT FLOUR FROM DIOSCOREA DUMETORUM Development of processing condition for the production of bakery product, weaning foods from sweetyam based on peeling, drying and grinding of sweetyam tubers. Improvement of the raw material base of flour for which the traditional raw material is cereals.

105836 33 M L U
SMALL SCALE COCOA BEAN PROCESSING An improved technology for small scale processing of cocoa beans into cocoa tablets have been developed. The process involves the following: seven day fermentation of the cocoa bean in bamboo or rattan baskets, grinding the fermented beans (with wooden pallets) and shaping the resulting paste into 'tablets'. The product is less affected by bacteria and has a longer shelf life.

Ref No. Org.No. Status Offer Source

105838 34 M L R
LOW COST RICE HULLER The huller is of the centrifugal type. It is made of wood, cast iron and steel. It consists of hopper, chute and centrifugal huller. It can be powered by two persons or by a 1-HP motor. When powered by motor, it revolves at 4,000 rpm and has an efficiency of about 80%. Estimated construction cost is USD 350 per unit, excluding the motor.

105863 197 C L C
SPICE PROCESSING Processing of spices of all kinds, particularly from India, Thailand, South Africa and Tanzania mixing, blending to prepare popular and well established flavours and the creation of exclusive blends.

105899 332 C L C
SUGAR SYRUP FROM SORGHUM Development of processing conditions for the production of sugar syrup from sorghum based on the extraction and hydrolysis of sorghum starch. To improve the raw material base for sugar syrup for which the traditional raw material is corn.

105907 329 C L G
STEAM COOKER The steam cooker is designed and constructed for the quantity cooking of foods, particularly moi-moi which is a cowpea or bean based Nigerian delicacy, usually subjected to simple boiling in water. It has the capacity to steam-cook 800 items of raw moi-moi in about 45 minutes, the steaming period for a batch.

105945 337 M L G
REFRIGERATORS Manufacture of thermo-electric modules for refrigerators. Technology of assembling thermo-electric modules with possible automation.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

105954 337 C L G
PRODUCTION OF ALCOHOL Processing of starch containing raw material to receive enriched malt grain. Procurement of batch through replacement of water by a filtrate of malt grain, preparation of concentrated must with preliminary warm treatment, brewing of must through multiple use of amilolytic ferments and yeast biomass. Reduction of specific output of malt grain by 25-30%. Heat and energy saving by 10-20%. Water saving by 25-30%. Better food quality by 40-50%. Ecologically clean.

204965 42 L
TANNING OF FISHSKINS This tanning process obtains its raw fish skins from the fish processing industry making it possible to produce fish leather industrially and be carried out in any tannery as it requires the same machinery.

204974 42 L
HIGH SPEED SPACE SAVING REFRIGERATION SYSTEM New patented fast chilling or freezing process. Operates much faster and uses less energy than conventional systems. Takes up less space. Non medical applications include freezing of delicate foods such as fish, beverage cooling, for convenience stores and at sports and entertainment events etc.

204983 42 L
FERMENTED MILK BEVERAGE WITH VITAMIN B12 AND FOLACIN The two vitamins are essential growth factors of every living cell. Regular consumption of the product enhances the resistance of organism against infection diseases, beneficial effect to the digestive organs and stimulate the formation of red blood cells. Suitable for use in hospitals, medical institutions as well as in kindergartens and schools.

Ref No. Org.No. Status Offer Source

205005 1 L
DESIGN AND CONSTRUCTION OF FRUIT AND VEGETABLE PLANTS Master list of complete machinery and equipment with reference numbers indicating file number for further information with regard to any product or products of interest.

205023 93 C S/J C
FRUIT AND VEGETABLE PROCESSING of all equipment and machinery necessary to process fruits and vegetables. Know-how of fruits, jam, juices and nectars, fruits in syrup, fruits dehydrated product vegetables: canning, preparation before freezing and dehydration.

205032 99 W S G
TROPICAL FRUIT JAM Several kinds of jams are made from papaya, mango, goyava and forest fruits such as Detarium senegalensis. The produce has a high vitamin A and C content and can be packed in glass jar or in polyethene bag. The process is simple and local fruit can be used to substitute citric acid and pectin manufactured industrially.

205041 102 W J G
GARI PRODUCING UNIT for manufacturing Gari (Cassava flour) by processing Cassava which is perishable. Gari has a longer shelf life and widely used in different parts of Africa region. Promotes food security goals.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No.	Org.No.	Status	Offer	Source
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205068	5	M	L	U
SMOKEHOUSE FORCED RECIRCULATION AIR The main chamber of the smokehouse is made of mild steel plates insulated with rigid fibreglass. Smoke originates from two drawer boxes. Air/smoke recirculation is controlled by adjustments to inlet and outer louvres and by means of a 3 speed, 51-CM fan. 80 degrees C, can be obtained by six independent 800 W electric heating coils. When the smoke producers function without heat, the smokehouse operates at 1-3 degrees above ambient temperature.				

205079	16	M	L	U
DRIED MANGO Strips of ripe, firm fruits are heated in medium syrup with sodium metabisulphite and steeped for six hours. The strips are then rinsed with water and dehydrated in open trays in a forced conventional dryer for 18 hours. They are cooled to room temperature, packed and sealed in desired packaging material.				

205178	163	C	L	G
CASSAVA CONVERSION Technology, machines and equipment to produce gari, fufu, starch and others from cassava.				

205214	124	C	L	C
FLAVOURED MILK Raw material: milk, sugar, colour, flavour. Covered area: 250 sq mt. Production capacity: 6660 litre per month.				

205223	124	C	L	C
OIL MILL (PALM OIL) used for cooking purposes. Raw materials: palm fruit, boiler fuel (coal). Covered area: 500 sq mt. Production capacity: 360 tons/month.				

Ref No.	Org.No.	Status	Offer	Source
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205232	124	C	L	C
BREAD AND BISCUIT PLANT These are important items of mass consumption with large nutritional value. Raw materials: baking powder, oil. Cover area: 750 sq mt. Production capacity: 30 tons per month.				

205259	124	C	L	C
POTATO FLOUR Raw materials: potatoes. Covered area: 350 sq mt. Production capacity: 6 mt tons/month.				

205286	199	C	L	C
FOOD PACKAGING Packaging of beans/pulses of many varieties, sugar and of tea foods which include popcorn, peanuts, rice, salt and soya.				

205295	215	P	L	R
COCOA PROCESSING Method of processing cocoa into butter and powder for manufacture of beverages, confectionery and other products.				

205302	208	C	L	C
MINI MAIZE MILL This is a compact unit which can process maize into several products like fine semolina, medium semolina and flour.				

205355	258	W	S	G
SUGAR CANE CRUSHER This is a motor driven sugar cane crusher designed to produce sugar cane juice. It is ideal for small quantity, batch operations.				

205685	30	P/F	I/J	G
FOOD ANTIOXIDANT Natural plant product extends the shelf life of fat and oil containing foods. Vita-polypheriol is safe, edible and, dissolved in alcohol, water or emulsifying agent, is added to food as 0.04 to 0.60% by weight of oil or fat component. Vita-polypheriols of fective mass is lower than BHT, PG or VF.				

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

205694 38 W L/S/J C
YOUNG PEOPLE'S DRINK Novel beverage with a young trendy image available for a licensed production/distribution agreement. The product contains 1.5% alcohol, spirit based, and is carbonated to complement its marketing concept. It is envisaged that it will be packaged and consumed on a single serve basis.

205784 113 L
HUMECTANTS TO PRESERVE MEAT PRODUCTS This invention involves conveniently manufactured protein hydrolysates for use as humectants in meat and fish products. Problems associated with taste, saltiness, or the effects of hypertension of previous humectants are circumvented. The humectants are nutritious, safe, colourless, and relatively bland to the palate.

205787 113 L
MODIFIED ATMOSPHERE PRESERVATION METHOD FOR FOOD This method relates to food-preservation in contained modified atmosphere at temperatures ranging between 6°C to 12°C. It can be applied to preserving fruit pieces, fish or meat. Adequate preservation can be achieved with obvious energy-savings.

205804 136 P L R
VACUUM DISTILLATION OF LOW ALCOHOL WINE Product that satisfies soft drink consumer demands, competing with beers and coolers.

205811 136 C L C
HIGH FIBRE CONTENT BRAN Modified bran whose main features are high content of fibre (97%); low content of phytin phosphorus (< 250 mg/100 gss) high edibility; low microbiological count (< 10.2 ufc/g) and excellent conservation. It also has an improved fat and water absorption and retention capacity.

Ref No. Org.No. Status Offer Source

205829 99 W S G
'PAIN RICHE' TYPE OF BREAD made from millet (15 to 30%) and wheat flour mixture. The process leads to a well appreciated flavour and a good specific weight. This bread is richer in iron and keeps its organoleptic quality longer than wheat bread.

205840 109 L G
STRAIN OF BACILLUS AMYLOLIQUEFACIENS producing thermostable alpha-amylase of *Bacillus licheniformis*. Obtained with technique of recombinant DNA. Contains a plasmid with the structural gene of thermostable alpha-amylase of *Bacillus licheniformis*. Hydrolysed starch is the main raw material. Enzyme activity is about 4500-5000 units Novo/ml culture broth after 70-77 h of fermentation. Thermostable alpha-amylase is widely used in food and textile industries.

205856 124 C L C
SACCHARIN a sweetening agent used in soft drink manufacturing industries and also for sweetening other food products. Raw materials: potassium di-chromate, hydrochloric acid, activated carbon. Covered area: 200 sq mt. Production capacity: 2500 kgs/month.

205865 198 C L C
PRODUCTION OF FOODS FROM MAIZE AND SORGHUM for human and animal consumption from maize: (white and yellow) and sorghum for human consumption a variety of maize meals, maize rice, maize grits and sorghum meal (mabela). Animal foods for horses, cows, pigs, chickens, cattle licks.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

205883 312 C L G
DRIED VEGETABLES A nutrition centre offers the process and know how to dry okra, pepper, onion and tomato powder and the leaves of cassava, solanum nigrum, Colitorius, amanth, veronia and onetum.

205916 330 C L G
PRODUCTION OF MODIFIED STARCH

A modified starch of low viscosity was prepared from cassava starch by acid hydrolysis and neutralisation. The product was then recovered by physical means, dried, milled and blended to produce powdered modified starch for light textile finishing and as a sizing material. Gives a good film forming quality, paste stability to prolonged heating, low degree of crystallization, resistance to microbial degradation, is cost saving due to short preparation time and easy to apply.

205925 330 W L G
DRY MILLING OF MILLET preliminary

conditioning with 3 - 4 percent water and resting for 10 - 15 minutes is adequate. The Buhler mill which is a form of roller mill can be used for millet processing if only fine and very white flour is required. The grain huller and the rice polishers are found to be effective in the husking of millet. The hammer mill is recommended if grinding the debranned grits into flour of different particle size is desired.

205952 337 C L G

PRODUCTION OF PECTIN Procurement of pectine products from specially treated apple and citrus squeezes with subsequent acid hydrolysis, procurement of pectine extract, its purification, concentration, depositing of pectine, washing of coagulant hard phase and drying to give higher output and better gel-forming properties. Used for tinned food and confectioner food production, prophylactics food.

Ref No. Org.No. Status Offer Source

304994 1 L
SURGE HOPPERS AND TANKS Designed and built to meet every users application, line capacity, and space limitations, discharge screw of size and pitch to give the desired discharge speed.

305003 1 L
SPILLAGE FREE ELEVATING Capacity of 0-12 tonnes per hour, very hygienic design, low maintenance costs, fully enclosed, no spillage, simple interlock guarding, product is contained and controlled, no spillage.

305012 42 L
WHIPPED TOPPING FORMULATION A low cholesterol, low fat whipped topping formulation is described comprising about 12.5-40% non-fat dry milk solids, 1-30% non dairy edible oil, 50-85% water, a sweetener and optionally a flavouring agent, can be frozen, for storage, can be defrosted and whipped into a stable foam food topping.

305048 86 C S P
OILS AND OIL BASED TECHNOLOGY Sale of technology and manufacture of machinery to oils and oil based industries for the manufacture and refining of vegetable oils and others. Assistance given for setting up the plant, modernisation and servicing of existing plants.

305077 16 M L U
MANGO PUREE The process for making mango puree involves passing small pieces of ripe mango through a pulper or blender. Citric acid and sodium metabisulphite are added and the mixture heated in steam jacketed container. The puree is then packed in enamelled cans or glass containers, exhausted and sealed, sterilised and cooled.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

305084 23 W L U
BABY FOODS FROM SEAWEEDS The product is made of gel from seaweeds, mashed banana, white sugar and water. The process involves the following steps: peeling bananas, removing the seeds blending until smooth, heating seaweed gel and bringing it to boil until the texture is smooth, dissolving sugar in water and adding to the boiling gel-water mixture, stirring in the blended banana, pour hot mixture into sterilised bottles and pasteurising bottles for 15 minutes.

305104 19 M L U
BAKERY PRODUCTS FROM SWEET POTATO FLOUR Steps involved in sweet potato flour production: peeling, chipping or grating, submerging in boiling water. The flour can be used immediately or stored. Yellow and orange varieties are rich in vitamin A. Sweet potato flour as wheat flour substitute in various concentrations: 10-20 per cent in yeast bread, 50 per cent in muffins and 66 per cent in cookies.

305140 26 C L U
MODIFIED BIELENBERG RAM PRESS Presses oil out of sunflower seed, used at village level. Simple, no other treatments of seed are required.

305161 185 C S C
MILK PROCESSING UNITS (for fresh and reconstituted milk) for use in villages. Simple equipment and process, cheap and of modular type, complete from milk reception to packaging of the finished product. (Yoghurts - pasteurised milk - cream - butter - fresh cheese etc). Design, manufacture and installation of units of 600 L to 2000 L/day.

Ref No. Org.No. Status Offer Source

305228 124 C L C
KATTHA & CATECHU produced from khair wood. It is widely used in medicinal and ayurvedic preparations and in paan. Raw materials: khair wood. Production capacity: 125 kg/month, 400 kg respectively. Covered area: 500 sq mt.

305237 124 C L C
BANANA PROCESSING Dehydrated pipe bananas popularly known as banana figs are used as snack food. Bananas, sulphur, sodium carbonate and citric acid are the raw materials. For a production capacity of figs 8 tons and powder 2 tons per month, 4000 sq mt covered area is required.

305246 124 C L C
TOMATO KETCHUP SAUCE prepared from tomato which is used as ready made side dish for snack items. Raw materials: Tomatoes, sugar. Production capacity: 12.5 metric tons/month. Covered area: 350 sq mt.

305255 124 C L C
RICE FLAKES consumed in different forms - breakfast or snack food. It is popularly called 'Poha'. Raw materials: paddy. Covered area: 150 sq mt. Production capacity: 10 metric tons/month.

305260 124 C L C
POTATO CHIPS Raw materials: potatoes, sulphur dioxide, sodium metabisulphate. Covered area: 300 sq mt. Production capacity: 60 tons/month.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
305321	295	W	S	G	305720	71	F	L/S	G
BIELENBER RAM PRESS This is a specifically invented vegetable oil extraction press capable of extracting oil from a variety of vegetable seeds such as sunflower, sesame and ground nuts. It is manually operated and ideal for rural areas where electricity is not available. It weighs 65 kg and can extract up to 75% of oil from the seed.					PRODUCTION OF AN ACIDIFIED MILK PRODUCT 'GEROLACT' 'Gerolact' is intended for dietetic nutrition of generally aged people. It has high nutritive value due to the content of proteins involving valuable amino acids, calcium, essential fatty acids, micro elements and vitamins. Industrial manufacture of 'Gero lact' may be organised at milk factories using standard machinery.				
305373	238	C	S	G	305723	71	F	L/S	G
REFINING OF PALM KERNEL OIL Using 4%, 6% and 8% filler earth the palm kernel oil can be refined by deodorisation and decolourisation techniques.					PRODUCTION OF AN ACIDIFIED MILK PRODUCT 'BIPHILIN' 'Biphylin' allows for obtaining a product approximately equal to humanised milk in its constituents containing live biphytobacteria cells. It is intended for curative nutrition of babies from first days of life till one year. Main use: as a nutritive product for sick or weak babies.				
305374	238	C	S	G	305753	83			U
REFINED AND DEODORISATION OF SHEA FAT Using laboratory equipment and chemicals, shea fat was melted and decolourised using fuller's earth. The refined oil was deodorised by passing steam through the oil to remove the objectionable volatile.					STRAWBERRY A strawberry plant which has large fruit, all-round performance and good fruit quality.				
305680	1	M	L/S	P	305813	136	C	L	C
SELF-CLARIFYING FERMENTATION VESSEL A plastic or glass fermentation vessel incorporating an automatic sediment collecting section which enables wines and other liquids to be clarified quickly and with minimum loss of liquid. It minimises filtering operation time and cost.					BOILED HAM MOULD DRAWER Automatic machine prepared for different types of moulds. Its aim is to take the boiled ham out of its mould without manual intervention, due to the fact that the machine works automatically separating the ham from its mould. The machine is prepared to have a washing train installed at the exit of emptied moulds.				
305702	38	U	L	C	305869	203	C	J	C
COOLED BEER ENGINE Designed for dispensing traditional cask beers at a pre-set temperature. The unit is of modular design and includes a temperature valve and heat exchanger.					MILK PASTEURISATION AND PACKAGING Automatic control of pasteurisation followed by bottling in 250 ml, 500 ml and 1,000 ml plastic bottles.				

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

305876 256 C S C
SPICES MIXING Spices are cleaned, dried and mixed with the use of electrical grinder and mixers before packing. The technology involves the technique of grinding and blending the spices on large scale before packing.

305885 317 P L/J G

OIL EXPELLER with a designed capacity of 1.3 ton/day. It consists an oil expeller unit, a filter press and a pump. The system was designed to handle different types of oil seeds, viz Nigger seed, ground nut, sunflower etc. Simplicity of maintenance, ease of operation and high interchangeability of parts are major features of the machine. The design has now been completed; very shortly a working prototype will be manufactured.

305894 335 W L R

CASHEW MEAL CHOCOLATE
 Establishment of process technology for the production of enriched cashew meal blend chocolate, resulting in chocolate of improved nutritional quality.

305914 330 C L G

PRODUCTION OF TABLE VINEGAR using palm wine as a raw material. The process involves double fermentation, alcoholic and acetons, using a mixed microbial culture seeding technique. The technology is an improvement on the slow and generator processes conventionally employed for the production of table vinegar. The technology is complete with the availability of the required equipment.

Ref No. Org.No. Status Offer Source

305923 330 W L G
MANUFACTURE OF GLUCOSE FROM CASSAVA STARCH The principal operations involved are hydrolysis (conversion), neutralization, purification, concentration or evaporation under reduced pressure, crystallization and rotary drying. Estimated yield is 95 - 97 percent.

305950 337 M L G

DIVISION OF LIQUID MIXTURES by evaporation through semi-permeable membrane For food, medical, chemical industry.

305959 I C L/J C

EASY TO OPEN FLEXIBLE PACKAGE BagBuster is the flip-top of flexible packaging. Easy-snap levers are separated with a simple action to open packages which would otherwise require scissors or knives. Samples are available heat sealed in high density polyethylene onto low density polyethylen. packages, but can be used on all flexible packaging materials with other fixing methods.

404978 42 L

FRESH BOX An ideal bag to keep bread, onions, potatoes, garlic, cookies etc, really clean and delicious, made of 100% natural cotton, inside a special active breathing foil. This combination provides an outstanding atmosphere of freshness.

404996 I L

ROD CLEANER for peas, beans, corn, sliced and diced products, peeled beetroot, chiefly used to wash produce after blanching and will remove split skins, skin seeds and similar foreign matter efficiently. Highly effective as a siver remover in the production of frozen chips.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
405001	1		L		405064	44	C	L	C
RETORTS AND RETORT INSTALLATION ALL TYPES OF CANNED FOODS round, square vertical and horizontal, using highest grade materials, using lid safety bolts.					SALT FREE HERBAL BLEND FOOD ESSENCE SEASONING A herbal blend food seasoning consists of the following: onion, garlic, parsley, celery seeds, black pepper, white pepper, oregano, langkawas, bell pepper, basil, marjoram, thyme, coriander seeds, coriander leaves, mustard, orange peel, ginger, bay leaf, citric acid and cayenne pepper. The leaves are washed, cut and dried either by sun or oven.				
405010	42		L		405075	14	W	L	C
PRODUCTION OF STARTING MATERIAL FOR RESTRUCTURED MEAT The invention is drawn to various aspects of automated excision of undesirable materials (and optionally excision of bone) from meat, and automated production of starting material for restructured meat.					FOOD CROP DRYING SYSTEM A dehydration system suitable for drying food crops without subjecting them to high temperature. The technology involves freezing followed by vacuum chamber dehydration wherein pumps extract vapour. The system can evaporate 10 L of water per hour with a 2.5 HP motor. Fruits retain their natural colour, taste, aroma, texture and vitamin content and is 12.5 more energy efficient than traditional drying.				
405028	96	C	S/I	C	405082	19	M	L	U
MILLING COMPANY is responsible for the management of milling complexes throughout the world with a total production capacity of 300,000 tons a year.					KETCHUP FROM SWEET POTATO The process employed is a modification of the one used for processing banana or tomato into ketchup. The ingredients used are vinegar, sugar, water, salt, spices such as ginger, bulk onion, chili, white pepper, cinnamon and cayenne pepper and yellow and red colourants. The technology can be scaled up to commercial level.				
405039	102	W	J	G	405125	109		L	G
SEAFOOD/FISH SMOKING UNIT Convenient cassette design suitable for uniform smoking of seafoods. Prolongs storage/resale value of seafoods in hygienic form. Ideal for coastal countries in Africa region and others. Reduces wastage by moulds etc.					STRAINS OF SACCHAROMYCES CEREVISIAE producers of ethanol. These were created S. cerevisiae strains which are capable to secrete glucoamylase and in this way to ferment the starch. The strains are thermostable and it permits to make fermentations at 28-38 degrees C. Yield of alcohol is about 66,5 dal per 1 ton of starch.				
405046	106	W	L	G					
PRODUCTION OF PECTIN FROM VEGETABLE RAW MATERIAL Vegetable raw material is poured over with extragent, hydrolised, and then pectin is extracted, extract is separated from remains of vegetable raw material purified by mechanical and chemical methods. Technology does not depend on the type of processed vegetable raw material.									

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
405128	110.02	C	J	C	405219	124	C	L	C
<p>'DILKA' is our product: made from cooked sorghum, perfumes and smoked. Good for the massage of body and gives good colour and smell.</p>					<p>ICE CREAM Popular snack in summer all over the world for cooling and refreshing effect. Raw materials: sugar, milk cream or butter, skim milk powder. Production capacity: 288,000 gal per month. Covered area: 600 sq mt.</p>				
405131	110.03	M	J	R	405220	124	C	L	C
<p>EXTRACTION OF SENNOSIDES FROM CASSIA ACUTIFOLIA For the production of laxative preparations.</p>					<p>INSTANT FOOD MIXES Production of instant food mixes are used for the preparation of different food stuffs eg idli, sambar etc. Raw material: citric acid, sodium acetate, lentils. Covered area: 250 sq mt. Production capacity: 10 metric tonnes.</p>				
405164	182				405224	124	C	L	C
<p>BARRELS AND TANKS scientifically designed to give the consumers all the advantages of the traditional barrel without its failures. Quicker wood tanins and saps spreading natural gases exchange owing to its large beech bung allowing the wine to breathe.</p>					<p>MUSHROOM PROCESSING Mushroom is edible vegetarian food rich in minerals and vitamins. It is suitable substitute for meat and eggs etc. Raw materials: sodium sulphate, salt. Covered area: 200 sq mt. Production capacity: 1200 kg/month.</p>				
405179	163	C	L	G	405233	124	C	L	C
<p>BENISEED EXTRACTION Process technology, equipment and machinery for extracting oil from beniseed for domestic and industrial uses.</p>					<p>CANNING OF POTATOES Canned potatoes are used in preparing food stuff in restaurants, hotels and defence supplies. Raw material: potatoes salt chemicals. Cover area: 500 sq mt. Production capacity: 6 metric tons per month.</p>				
405182	163	C	L	G	405242	124	C	L	C
<p>PRODUCTION OF POTABLE ALCOHOL using palm wine or ripened fruits. The same process may also be used to get potable alcohol using molasses. All necessary technology machines and equipment are available.</p>					<p>EXTRUSION OF COOKED PRODUCTS used for the production of extruded products of soya or wheat or rice etc which are popular snack foods. Raw material: tapioca starch, flavour. Covered area: 75 sq mt. Production capacity: 15,000 kg per month.</p>				
405215	124	C	L	C	405251	124	C	L	C
<p>GHEE produced from fresh milk is rich in fat and is used for producing various dairy based products. Raw materials: milk. Covered area: 250 sq mt. Production capacity: 3750 kg per month.</p>					<p>SOYA SAUCE BREWING PLANT Soya sauce produced from soya bean is rich in protein. Raw materials: assorted fruits, sugar, bottles, chemicals and preservatives. Covered area: 150 sq mt. Production capacity: 675 litres.</p>				

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

405273 234 C L C
DRUM TYPE CORN SHELLER Main components are shelling cylinder with perforated concave, shelled grain bucket elevator, coband grain separating unit and dust removing fan. The machine can shell dried corn up to a moisture content of 16% wb with an efficiency of 2 tons per hour.

405278 232 C G
CANANGA OIL DISTILLATION EQUIPMENT A steam distillation device for extracting oil from the flowers of cananga and ylang-ylang tree (*Canangium Odoratum* Baill). The equipment can handle 500 kg of fresh flowers and produce 2,000 litres of oil per day. The recovered oil contains a multitude of organic substances, including sesquiterpenes, linalool, geraniol, eugenol and methyl salicylate.

405303 208 C L C
MANUFACTURE OF FRUIT BARS A novel method to process tropical pulpy fruits such as mango, banana and guava into ready to eat fruit bars, having good shelf-life.

405304 208 C L C
FRUIT JUICE CONCENTRATE/PASTE A process for converting tropical and temperate fruits such as mango, pineapple, orange, grapes guava and apple into their respective juice/pulp concentrates.

405383 242 C S U
CASSAVA CHIPPER Consists of a hopper, a horizontal rotating chipping drum, complete with shearing or chipping knives strategically imbedded longitudinally around drum circumference and a belt pulley drive unit, all mounted on a wooden supporting frame etc.

Ref No. Org.No. Status Offer Source

405392 245 C L C
AGRICO PALM OIL PRESS This 60 ton press, hydraulically operated. A press cage support and collector tray for the press cage crank to adjust level of press cage support and a robust metal frame.

405684 13 C L C
FRESH MILK PRODUCTS including yoghurt, cereal curd. The company has developed a tasteful range of products, sold very successfully in Germany. Available all countries except Germany, Canada, Japan, Netherlands, Belgium, Switzerland and Austria.

405689 30 C S C
'YISHOVL' BRAND WINE Based on one of Shandong's noted spirits, this amber coloured wine blended with herbs has a rich taste and fine bouquet.

405693 38 U L/S/J C
NEW LIQUORS - US MARKET New liquor products developed primarily, but not exclusively, for the US market seek a licence/distribution agreement. They are built on strong concepts fully supported by market research information. They are presented with a quality image and specially designed packaging materials. Recipes are BATF approved.

405698 38 W S C
FLAVOUR ASSESSMENT COMPUTER PACKAGE, developed by a company with many years experience of sensory analysis for conducting taste tests. It is particularly suited to flavour profile work but can be tailored to meet individual company's needs. The software will run on IBM compatibles or purpo se-made hardware can be supplied.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

405705 42 F L C
DAIRY PRODUCTS License know-how offered in following areas: Ultra high temperature long life milk. Fast food dairy restaurants, Dairy Dell specialities, ice cream, frozen yogurt and ice cream deserts, ice lollies, ice cream bonbons, ice cream bombs, cakes, novelty bars of various ice cream flavours, whipped cream, mousse, chocolate and nuts.

405708 59 C L/J R
PRODUCTION OF CLEAR FRUIT AND VEGETABLE JUICES AND SEMI-CONCENTRATES with minimum heat treatment of the product. Membrane methods are used for clearing, concentrating and stabilising. The composition of the juice obtained is close to that of the raw material. In 1989 this technology was granted the International Technology Award.

405711 60 M L U
DUST REMOVAL FROM EQUIPMENT BY DRY POWDERS Dust particles have selective affinity to particulates of various species. They can, therefore, be removed from equipment and containers' surfaces by 'washing' with an appropriate powder without using any liquid. The powders with the absorbed dust can then be removed and disposed of by incineration for example to eliminate dilute liquid waste.

405726 71 M L/S G
PEPTID PREPARATION PRODUCTION FROM CHROM-CONTAINABLE LEATHER SCRAPS The technology allows, making use of tanned leather production scraps, to obtain a discrete product of white-yellow colour. The preparation is used as a protein source for agricultural cattle in the form of edible 2-3% additions in fodder with the purpose of increasing its nutritious properties.

Ref No. Org.No. Status Offer Source

405729 1 C S C
KNOW-HOW IN THE FIELD OF MINERAL WATER AND BEVERAGE BOTTLING In addition to the specific bottling area, the company's competence includes: - activities upstream of bottling: hydrology, spring catchment, water analysis, production of plastic bottles etc, - activities downstream of bottling: packaging, warehousing, quality control, transportation etc.

405732 85 C J P
SODIUM OR CALCIUM STEAROYL LACTILATE (SSL OR CSL) SSL is a leading emulsifier and dough conditioner in the baking industry. The product is a free flowing powder that is derived from two raw materials of natural origin: lactic acid and fat.

405738 88 U
SOYBEAN MEAL This process produces a debittered soybean product which contains a minimal fat content and which has increased water solubility utilising a first extraction of bitter principles from soybeans with a polar solvent followed by a succession of non-polar extraction rinses to remove essentially all of the fat content.

405741 88 U
CLARIFICATION OF FRUIT JUICE The method uses honey to clarify and remove hazes from fresh, pasteurised, and fermented fruit juices. Tannin and honey are used to clarify natural fruit juice whose tannins is low. Furthermore, these processes can be used in conjunction with presently used ones, such as enzyme treatment, to quicken the clarification.

Ref No. Org.No. Status Offer Source

405744 88 U
FRUIT PACKAGING SYSTEM A microatmosphere packaging system for fruit comprising for example a plastic tray with rows of staggered cavities to receive the fruit and a plastic wrapping film to cover the tray.

405750 88 U
RED RASPBERRY New and distinct variety of summer-bearing red raspberry which is exceptional for its large fruit, its high yield potential, and its well-displayed and easy to harvest crop.

405756 88 U
APPLE CULTIVAR This new cultivar was selected from a cross made in 1958 of NY 18491 pollinated by NY 49821-46. It was selected for further trial, and first propagated in 1965. It has been extensively tested since that time under the number NY 58553-1.

405759 88 U
FIBRELIGHT RESISTANT ROOTSTOCKS A series of fibrelight resistant rootstocks are available for testing and selection in anticipation of naming, releasing and licensing.

405762 88 U
DETERMINING SEED VIABILITY Non-viable seeds of the family crucifu eg cabbage, cauliflower, broccoli, etc leak a compound, sinapine, which fluoresces under uv light. A seed coat is used to trap sinapine from hydrated crucifu seeds. Viable dried coated seeds are separated based on non-viable seeds based on fluorescence.

Ref No. Org.No. Status Offer Source

405765 88 U
FIRMER VEGETABLE AND FRUITS A method for markedly increasing the firmness of commercially canned fruits and vegetables by controlling the blanding temperature/time in the range of about 130 degrees to 160 degrees F for about 30 minutes before conventional sterilization. Acid pH and/or calcium addition also enhance firmness.

405771 112 P L U
MEAT SEPARATION Apparatus and process for separating bone fragments, gristle and sinews from meat as the meat is being ground.

405774 113 L
DEHYDRATED POTATO GRANULES A method which maintains uniform granule quality at high output rates by converting the cooked potato to a state that permits rapid and even drying through a hitherto troublesome moisture range. This step is performed at a relatively low temperature, minimizing undesirable cell-structure changes.

405780 113 L
AGGLOMERATION OF PROTEINACEOUS SOLIDS Finely divided proteinaceous solids derived from cereal grains or legume seeds are caused to agglomerate by contacting the organic suspension liquid with an immiscible bridging liquid. The agglomerated solids can now be recovered from the liquid by conventional means.

405783 113 L
CLEAR LIGHT-COLOURED PEAR JUICE A process for producing a brilliantly clear, very light almost colorless, delicately flavoured pear juice which may be concentrated up to 72 Brix without deposition of any sediment. The same process may also be used to produce high quality apple juice.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

405786 113 L
MICROWAVE PUFFING OF CEREAL GRAINS, FLOURS OR DOUGHS This is a description of a process for the preparation of snack-food items containing starch in their raw materials. It describes a new method for the initial preparation of half-product, of desired shape and dimensions, that are shelf-stable without pre servatives. The half-product can be expanded by convection or microwave energy to a fully-expanded snack-food. The natural stability and relative small-volume of the half-products are a definite advantage.

405789 113 L
METHOD OF MEASURING THE FIRMNESS OF MEAT This method for determining an indicator of firmness as a ratio of rebound-to-compression of a given sample allows the design and construction of apparatuses to instantly measure the firmness and texture of fish fillets, muscular food and a variety of other food products.

405792 113 L
METHOD OF MEASURING THE FIRMNESS OF MEAT This method for determining an indicator of firmness as a ratio of rebound-to-compression of a given sample allows the design and construction of apparatuses to instantly measure the firmness and texture of fish fillets, muscular food and a variety of other food products.

405795 113 L
CLEAR LIGHT-COLOURED PEAR JUICE A process for producing a brilliantly clear, very light almost colourless, delicately flavoured pear juice which may be concentrated up to 72° Brix without deposition of any sediment. The same process may also be used to produce high quality apple juice.

Ref No. Org.No. Status Offer Source

405806 136 P L R
PRODUCTION OF LONG LASTING HORCHATA Two processes of elaboration of chufa orgeat: elaboration of protein enriched chufa orgeat stabilised by means of a mild heat treatment that minimises the physical, chemical and sensorial changes and long lasting orgeat powder obtention process.

405815 136 C L C
CUTTING AND JUICING OF CITRUS - INTEGRAL AUTOMATIC DEVICE Allowing total automation of the process.

405824 1 L
STEAM PEELING SYSTEMS with exhaust, hopper, accumulator, control panel and sensors, valves, weight head, vessel, drive and bearings, after peeling and discharge units. Providing clean efficiently peeled products with low yield loss. Utilises high pressure steam, ensure that given awkwardly shaped product is evenly peeled.

405842 114 L C
TINY SUGAR CUM JAGGERY PLANT Crystal sugar and jaggery both can be produced in the farm itself without the use of sulphitation process. So natural sugar is obtained without any chemical contamination. Suitable for 100 acre sugar plantation.

405860 213 C S C
CITRUS FRUIT Know-how and expertise from citrus cultivation to export marketing.

405867 201 C L C
FOOD FROM MAIZE AND WHEAT Process of production of foods from maize and wheat and from their by-products.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source
 405878 238 C S G
PRODUCTION OF KIPPERS FROM HORSEMACKEREL Kippers were produced using fresh horse mackerel (Kpanla). The kippers are kept in refrigerated storage at 4-5 degrees C.

405887 244 C L C
KEBAB ROASTER This is a circular coalpot in the form of a bowl, complete with removable wire mesh top, a lid and chimney connected to it. The bowl is mounted on a metal stand. An opening at the bottom of the bowl admits draught air to fan the fire.

405912 330 C L/S G
PRODUCTION OF GARI Upgrading and mechanisation of traditional method for production of gari, a staple Nigerian food, from cassava. Design of a 450 kg per hour gari processing machine and equipment is available which produces a consistently high quality product with improved flavour and shelf life and higher degree of safety when consumed.

405919 330 C L G
ALE AND BEER CONCENTRATES FROM GINGER ROOTS The production of soluble ale and beer concentrates from ginger roots grown in Nigeria by peeling, washing, drying, milling, solvent extraction, evaporation etc. For use as flavourings by the beverage industry, bakery industry, confectionery industry and pharmaceutical industry. It allows production of ginger powder for use as a condiment, ginger oleoresin or essential oils and other ginger concentrates for application in the preparation of ginger beer and ginger ale soft drink.

405921 330 C L G
BREWING BEER The invention relates to the brewing of European type lager beer wholly from 100% sorghum malts involving active participation of enzymes.

Ref No. Org.No. Status Offer Source
 405932 337 W L G
CONVERSION OF JERUSALEM ARTICHOKE (earth pear) into fruit sugar, ethanol, biogas. Ferment-microbiological method of obtaining fruit sugar. It is proved that the raw for obtaining the ethanol may be cyclodextrin production wastes.

405948 337 W L G
BASIC ALUMINIUM SULPHATES Original raw aluminium hydroxide and sulphuric acid is delivered to closed reactor and mixed. While mixing at certain parameters high concentrate alloy of main aluminium sulphate is obtained. Depending on place of the consumer the melt is dissolved in water or crystallized. For preparation of drinking water, purification of transport washing water in sugar production, cellulose and paper industry.

504980 42 L
SEPARATION OF FURFURAL FROM PLANT MATERIALS HYDROLYSATES Separation of furfural from diluted aqueous solutions using a bed of chemically inert polymer adsorbent. In the alcohol solution obtained during the regeneration, furfural is contained in concentration much higher than that in the original aqueous solution. The solvent used for the adsorbent regeneration can be recycled. Substantially more efficient, separates furfural economically from very diluted solutions containing less than 1% of furfural.

504989 42 L
TEA EXTRACT Powdered and grain products of following grades of tea are produced by a sophisticated process, Gyokuro, Green Tea, Roasted Green Tea, Black Tea, Oolong Tea and Barley Tea.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

504998 1 L
CAN OPENER/EMPTIER provides for a fully automatic means of discharging concentrate such as tomato from cans for the production of sauces used in beans, spaghetti and similar products, self-contained unit comprising infeed/discharge conveyor for cans, opening/emptying mechanism, catch tank for contents.

505019 89 M S G
PROCESSED WEANING FOODS BASED ON LOCALLY AVAILABLE RAW MATERIALS based on local cereals (maize, sorghum and rice) and tubers (yam and sweet potatoes) supplemented with cowpea and a small amount of milk have been developed.

505026 96 C S/J C
DAIRY PLANTS UHT milk, yoghurt, cheeses, fresh cream, ice creams, fruit juices.

505037 100 L
WINE/BEER INDUSTRIES Complete plant and technology may be provided on 'turn key' basis.

505080 17 M L U
CREAM CUSTARD The process involves: cleaning the pumpkin, removing the seeds, condensing fresh cow's milk and adding sugar to the beaten egg, pouring the mixture into the pumpkin and cooking on low fire until done, cooling and cutting the pumpkin lengthwise. Preparing cream custard in a pumpkin that serves both as cooking vessel and is itself part of the dessert, is claimed to be a novel and nutritious innovation.

Ref No. Org.No. Status Offer Source

505119 39 C L C
TROPICAL FRUIT PROCESSING The services offered include preparation of both pre-feasibility and feasibility studies, and the development of production and packaging designs. The firm has completed a pre-feasibility project for pineapple and banana processing plants in Malaysia.

505137 26 C L U
HAND OPERATED GROUNDNUT SHELLER Simple tool to shell groundnuts by pressing them through a mesh wire. Mainly used together with modified Bielenberg ram press which presses oil out of the groundnuts. Very suitable to make by rural craftsmen.

505225 124 C L C
MINERAL WATER widely used in hotel industry, sports club, hospitals, tourist agencies, airlines, soft drink agencies etc. Raw materials: sodium hydroxide flakes, bleaching powder, mineral salt. Covered area: 1000 sq mt. Production capacity: 250,000/month.

505229 124 C L C
JUICES, NECTARS & BEVERAGES Fruit juices and nectars are substitute of fresh fruit juices and are popular all over the world. Raw materials: sugar, colours. Covered area: 300 sq mt. Production capacity: juices 12 kL/month, nectars 10 tons/month.

505247 124 C L C
TAMARIND POWDER manufactured from tamarind juice concentrate is free flowing powder used in preparation of food. Raw materials: tamarind pulp, packing material. Covered area: 350 sq mt. Production capacity: 12.5 metric tons/month.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No.	Org.No.	Status	Offer	Source
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505256	124	C	L	C
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PUFFED SNACKS a most popular snack. Raw material: rice, ghee, spices, pulses. Covered area: 600 sq mt. Production capacity: 5000 kgs.

505322	286	M	L	C
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MINI SUGAR PLANT

505366	251	W	L	C
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GAS ROASTER Consists of a rectangular metal hotplate heated by gas burners placed below the hotplate and complete with gas regulators and wire mesh mounted over the hotplate. The unit is encased in a metal box.

505375	238	C	J	G
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CHORKOR SMOKER is an improved fish smoking kiln. It is made up of either earthen ovens or mortar ovens with large smoking capacity. It has about 15 trays per oven with each tray taking 18 kg of fish. It is easy to operate and has low consumption of firewood.

505376	241	F	J	C
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NATURAL FRUIT JUICE AND DRINK FROM ORANGE, PINEAPPLE AND GRAPEFRUIT The process involves juice extraction from fruit which are then bottled or canned for sale.

505697	38	W	L	C
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HIGH PERFORMANCE KITCHEN VENTILATION HOOD suitable for restaurants or food preparation areas. The hood has improved ability to capture contaminated air and to supply fresh air to the whole kitchen. This hood can be made from aluminium or stainless steel and includes features which have proved effective during extensive tests.

Ref No.	Org.No.	Status	Offer	Source
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505714	60	M	L	U
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ACID INCUBATION WITH ORGANIC ACIDS TO INCREASE ABSORPTION OF ADDED MINERALS IN CEREAL Acid incubation of iron and zinc with several organic acids such as ascorbic, malic, citric, succinic increases their solubility in cereal products during digestion. The acid complex is brought to neutral PH which can then be sprayed on the food.

505717	71	F	L	G
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OIL-PRESSING UNIT WITH PROCESSING OF GROUND CORES OF OIL CONTAINING SEEDS The unit consists of a seven-vat roaster and screw-extruder. The seeds gradually pass from one vat into another. The moisture is removed from the roaster by aspiration. The material is transported by the feeder into the oil-press, where the oil is expressed. Oil and waste are transferred into the corresponding transport lines. Appropriate for developing countries.

505735	87	P	J	U
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EXTRACTION OF SOLUTES Coffein, hops and aroma (from liquids and solids) etc can be extracted with liquid CO₂.

505747	88			U
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BRUISES ON FRUIT An apple handling and sorting device using machine vision for bruise detection and classification to USDA grades. Included are the mechanisms for handling and imaging the fruit, apple image processing algorithms and the general approach to pattern recognition of apple bruises.

505768	101	P	L	U
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SOYBEAN GRANOLA SNACK Nutritious granola snack with soybean isolates and concentrates.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

505777 113 L
OILSEED PROCESSING This invention details a process for producing a detoxified protein concentrate product from defatted oilseeds, particularly those of the thioglucoside and phenolic containing types such as rapeseed, mustard or Crambe. The concentrate has uses as a protein food ingredient in the manufacture of meat extenders, beverages, bakery and pasta products and other fabricated foods.

505798 113 L
METHOD OF MEASURING THE FIRMNESS OF MEAT This method of determining an indicator of firmness as a ratio of rebound-to-compression of a given sample allows the design and construction of apparatuses to instantly measure the firmness and texture of fish fillets, muscular food and a variety of other food products.

505808 136 C L C
FROZEN PREFORMED NON RAISED BAKERY DOUGH Without chemical preservers, can be kept for more than 2 months at a temperature of -20 C. Final elaboration requires raising and baking, after which the product presents the same high and constant quality as the fresh baked one. Formulation, process, installation and quality control systems available.

505826 80 W S G
INSTANT FLOUR (D'OSCOREA DUMATORUM-SWEETYAM) A process for producing flour that does not destroy food value. Flour can now be eaten in any form, most important as weaning foods. Sweetyam until now was eaten only immediately after harvest. The same process may be used for transformation of other perishable staples.

Ref No. Org.No. Status Offer Source

505851 124 C L C
FISH MEAL is normally used for poultry farming as well as the breeding of cattle. Raw materials: raw fish. Covered area: 400 sq mt. Production capacity: 300 tons per month.

505853 124 C L C
CANDY MAKING Candies an important item in confectionery industry. Raw material: sugar/water jelly, additives/flavour. Covered area: 300 sq mt. Production capacity: 6 metric tons per month.

505871 206 C L/J/S C
HYDROGEN GENERATION PLANTS Hydrogen required by vegetable oil hydrogenation units is manufactured by electrolysis of water.

505880 301 C J C
TECHNOLOGY FOR REFINING CORN FLOUR Refining process for corn flour permitting the obtention of an extra fine flavoured product for the preparation of pap for infants, convalescents, dieters and Moslem believers during the fashint period preceding Ramadan the feast.

505896 335 W L R
MILK CHOCOLATE Establishment of processing conditions and identification of equipment for the production of milk chocolate from locally grown cocoa.

505901 330 W L G
MALT PRODUCTION Appropriate conditions have been established for the malting of cereal grains obtained from locally grown sorghum for use by the brewing industry for the manufacture of alcoholic beverages, particularly beer. Compared with barley gives a higher germination temperature for the malting of sorghum which makes production of sorghum malt under tropical conditions convenient.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

505917 330 C L G
PRODUCTION OF COLD WATER STARCH from cassava starch for textile finishing. Gives gelation or gelatinization readily on reconstitution with water at room temperature and thus can be used to produce a printing paste for textile processing its application is energy and cost saving. It is available in powder form.

505928 330 C L G
AUTOMATIC WEIGHT MEASUREMENT EQUIPMENT to deliver automatically up to 10 kg of free flowing material, particularly grains or flour or granules or powder, at a time into the receiving packaging material. Construction is aluminium to ensure lightness. Equipment can be operated in conjunction with a conveyor belt which delivers the feed material to complement appropriate packaging line. Manual feeding is also possible. Weight measurement is achieved by gravity.

505955 337 W L G
SEA BUCKTHORN OIL PRODUCTION
 The technology is based on extraction of oil. The 500 t/g installation can produce food juice as well. High degree of mechanisation, short production time.

605006 42 L
FISHING INDUSTRY PROCESSING EQUIPMENT Licence available for production and sales of grading plants for hot and cold water prawns. As well licensor is seeking new technologies in relation to the processing of fresh fish products, should provide a modern fish processing facility, fully developed and marketed:

Ref No. Org.No. Status Offer Source

605017 89 U S/J G
CONSERVATION OF LOCAL VEGETABLES, ROOTS AND TUBERS, CEREALS AND LEGUMES Methods for the processing of local foods into dried vegetables, plantain tuber and legume flours and weaning foods have been developed at the laboratory level. A larger scale production is needed to meet the public demand and to reduce post harvest losses.

605024 95 F J R
PROCESS DEVELOPMENT IN OILSEEDS, EDIBLE AND NON-EDIBLE FATS AND OILS Oilseed, edible fats (vegetable oils, margarine, animal fats, vegetable proteins, deep frying) and non edible fats.

605042 103 C L C
PRODUCTION OF DESSERTS, FRUIT DRINKS AND BAKING AIDS (jelly, creams, cakes, milkshakes, ice cream, cream topping, mousse, orange drink, custard powder, baking powder etc) all in powder form in convenient packs for quick preparation. Licensee will buy premises from us, mix locally and pack. Machinery required US \$ 75 - 150, depending on output.

605053 47 P L P
COMBINATION STOVE AND WATER HEATER The construction of a combination of stove and water heater comprising: an insulated and closed water vessel having a filling pipe at its upper section and a discharge faucet at its lower section. An open ended heating chamber disposed within said water vessel, said heating chamber having the wall thereof secured to the upper and bottom walls of the water vessel in water tight manner. The water chamber is provided with pot holders for supporting a cooking pot or the like.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

605071 7

BRACKISHWATER FISHERIES DEVELOPMENT Development of brackishwater fisheries including site selection for fish and shrimp ponds, hatcheries and cages, design, layout and construction supervision of ponds, including cost estimation and installation of equipment, collection of shrimp and fish from natural spawning grounds in brackishwater shrimp and fish culture and management, including start up of farming operations. Working language is English, French and Spanish.

605098 74 M L U

COWPEA AS SOYA SUBSTITUTE IN BROILER FEEDS The technology involves autoclaving the growth characteristics for 15 minutes at 15 PSI prior to mixing it with other ingredients. The cowpea can substitute 25 to 100 of soybean oil meal in broiler rations.

605120 40 C L C

TROPICAL FRUIT AND VEGETABLE PROCESSING Small and medium scale processing of tropical fruits and vegetables covering preparation of feasibility studies for setting up small and medium scale tropical fruit and vegetable processing lines, process design and technology transfer, productivity and quality improvement, standardisation and sanitation.

605216 124 C L C

GINGER PROCESSING Ginger products are used in various applications like pharmaceutical, soft drinks, meat canning, perfumery etc. Raw material: ginger. Covered area: 400 sq mt. Production capacity: 12 mt tons per month.

605243 124 C L C

FISH PICKLE is gaining popularity as ready to serve non-vegetarian fishery products. Raw materials: onion, custard, vinegar, spices powder. Production capacity: 5 metric tonnes per month. Covered areas: 25 sq mt.

Ref No. Org.No. Status Offer Source

605252 124 C L C

SOYA NUGGETS Raw materials: de-oiled soya grits, rice, ghee. Covered area: 1500 sq mt. production capacity: 10,000 kgs/month.

605261 124 C L C

PAPAD MAKING Papad is a thin wafer-like product made of spices and pulses usually consumed as a side dish. Raw materials: flour, spices, pulses, salt and chemicals. Covered area: 250 sq mt. Production capacity: 18 mt tons/month.

605274 220 C L C

PRODUCTION TECHNIQUES FOR DIFFERENT GRADES OF ALCOHOL Plants and machinery based on the latest technique of continuous/semi-continuous fermentation and distillation for the manufacture of various grades of alcohol (potable, industrial, perfumery and power) from a variety of sugar/starch based raw material including cane molasses, beat molasses, cane juice, maize, barley, tapioca, wheat, rice and potatoes.

605292 204 M/W L G

POWDERED FERMENTED SORGHUM MEAL A process for producing a sour sorghum meal for instant preparation. Process involves inoculation with starter, followed by fermentation, solar drying of slurry and pulverising into a powder.

605297 219 C L C

TEXTURED SOYA PROTEIN TECHNOLOGY The protein is produced in a food extrusion system. The raw material is untoasted, de-oiled, yellow soyameal produced by solvent extraction plants. The only other input in the process is power for extrusion and drying of the product. Plants are available in capacities ranging from 100 to 250 Kgs per hour.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
605314	257	W	S	G	605810	136	C	L	C
EDIBLE OIL EXTRACTION This is an appropriate design for equipment that can be manufactured and used in village rural areas for manual edible oil production. The design is specially suitable for tropical areas.					SUPER WHOLEMEAL BREAD Newly formulated bread with innovative design, rich in nutritional fibre (>20%). High quality and edibility. The manufacturing technique implies a controlled process with innovating stages concerning formulation and piece forming. The product can be commercialised either fresh, it lasts for a week or frozen with a lifetime of 2 months.				
605323	286	M	L	C	605817	150		L	
MINI RICE PLANT					BIOTECH SYSTEM for preserving egg products (yolks, egg whites, whole eggs) in batches of 1000g, 500g, 250g with a shelf life of more than 30 days at 0 - 4 degrees C without the use of additives or preservatives.				
605349	259	C	L	C	605828	96	C	S/J	C
GRAIN MILLING MACHINES This is an improved grain milling machine designed to reduce losses during the milling process. It is suitable for different types of grains eg millet, maize etc.					INTEGRATED AGRO-FOOD COMPLEXES Frozen and fresh food production; bread, croissants, Viennese pastries; sous-vide cuisine; catering.				
605377	241	F	J	C	605837	36	M	L	R
FRUIT JUICE CONCENTRATES The process involves producing the juice from real fruit and concentrating up to 65 degrees Brix.					OXYGENATED PLASTIC BAGS FOR TRANSPORTING SHELLFISH FRY Two double seamed polyethylene bags, one to hold the seawater with fry in it and the other as reinforcement, the double bag is filled to about 1/3 with seawater, prawn fry are placed in the bag at a density of 5,000 (for 15-20 day old post larvae) and 2,000-4,000 (for 30 day old post larvae). The bag is inflated with oxygen to about 2/3 and the bag is secured tightly. Minimises stress and reduces mortality rate.				
605688	30	C	S	C	605855	124	C	L	C
'GUBEIYUAN' BRAND SPIRIT A unique spirituous beverage characterised by its fine fragrance, mellow taste and prolonged after-taste.					SQUASHES AND SYRUPS prepared from citrus and other fruits are the ready to serve beverages. Raw materials: assorted fruits. Covered area: 150 sq mt. Production capacity: 675 litres/month.				
605692	37	W	J	C					
AUTOMATIC PREPARATION OF TRAY MEALS Computer aided manufacturing and preparation of tray meals; the process uses new cold techniques to prepare innovative meals from food industry products.									
605801	136	P	L	R					
LOW CALORIE SELF-STABLE SAUCES Development of high microbiological stability low calorie mayonnaise type sauces with sensory features that make them suitable for a high dietical quality offer.									

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

605864 196 C L C
COLD PRESERVES Method of preparing cold preserves by salting and dry-stripping from a variety of meats from domestic and wild game animals, including a range of sausages. Preparation of Biltong for use in conditions where refrigeration is unavailable.

605898 333 C L C
FOOD MACHINERY for the manufacture of cassava starch, tapioca pudding, cassava pellets for animal feeds and fermented cassava-based foods such as gari (Nigerian), fufu (West African). Integrated plant includes mills, tanks, screens, driers, mixers, transport systems and packaging equipment.

605908 329 C L G
BREAD OVEN The PRODA bread oven is available in large and moderate sizes for use by big and small commercial bakers. The main features are: even baking of loaves, 68.2 kg of output in 40 minutes baking time, computer designed heating system. Compact body, cheap, fuel consumption (kerosine or diesel), heat exchanger minimises fuel consumption and heat loss, requires no special skill to operate, smokeless.

605926 330 W L G
DRY MILLING OF SORGHUM The technology is concerned with the establishment of technological specifications for dry milling of sorghum. Conditioning of grains by addition of 3 percent water and resting for 10-15 minutes is adequate prior to mill. The grain huller and rice polishers and not the Buhler mill, are efficient for husking and debranning of sorghum. The hammer mill is found to be suitable in reducing the grits to suitable particle sizes for various household and industrial uses while the Buhler or roller mill is efficient in pulverising the grits to flour.

Ref No. Org.No. Status Offer Source

605953 337 C L G
COMPLETE APPLE PROCESSING Consecutive procurement from apple of juice and preparation of puree from the remnants. Procurement of low suspense content must which easily enlightens when producing high pectine content natural and preserved juices and must for preparing apple powder, concentrated fruit and vegetable sauces, bicomponent, low sugar content, good organoleptic property, and cutable consistency butter. For confectionery, bread baking, milk industry, community food.

704966 42 L
NEW COMMERCIAL GELATIN A basic material used in the food, drug and photographic film industries, normally extracted from pig skins and animal bones. A new patented process for the manufacture of commercial gelatin from fish skins, which are a waste of the fish processing industry. Advantages: high quality, uses waste of another industrial process, Kosher, when manufactured from Kosher fish eg salmon, tilapia, flounder, silvercarp and many more.

705004 1 C L
CRAB MEAT SEPARATOR Economic extraction of crab meat and other shellfish increasing popular products. The crab meat separator is currently in use and separating product which is being successfully incorporated in crab products throughout the UK. Much of the available white meat is extracted from the claws, legs and body. Yield is subject to type, components and the condition of the crab being processed.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

705033 99 W S G
ISOTHERME BOXES FOR FISH PRESERVATION in different sizes and configuration according to uses (traditional fishing vessels, market storage, road transportation) were designed and successfully tested in four traditional fishing centres. Materials: wood, polystyrene, glue.

705051 44 P L C

INSTANT DRIED HERBAL TEA BLEND

The instant herbal tea blend is prepared from the following dried herbal leaves and seeds: alagaw, banaba, bayabas, mangga, pandan, cilantro seeds, anis seed, takip kohol, donguay and aspartame. The herbs are cut into small pieces and dried separately by sun or by oven. The leaves when dried should be brittle and crisp and should break easily. Leaves, seed and aspartame are mixed in the mixer until they are thoroughly blended, crushed in coarse powder and packed in sachet made of sterilised filter paper.

705069 7 P L C

DEEP SEA TUNA FISHING AND SHELLFISH TRAWLING

Including: project feasibility study, technical assistance in appropriate offshore fishing methods and gear/equipment operation and maintenance, design and commissioning of freezer boats and seine fishing vessels, fish and shrimp handling on board, lay out design, detailed engineering and start up of operations for refrigeration complexes, processing plants and other onshore facilities.

705078 16 M L U

SWEETENED MANGO SCOOPS

Sweetened mango scoops are taken from fully mature, ripe and golden yellow variety mangoes. These are dipped in citric acid solution to prevent discolouration, drained and placed in sterilised cans. A previously prepared syrup is poured into each can before sealing. The cans are exhausted and cooled under running water.

Ref No. Org.No. Status Offer Source

705126 109 L G
THE STRAIN PENICILLIUM CANESCENS producer of beta-galactosidase. The strain is obtained by genetic and selection procedures. In laboratory scale of fermentation the strain accumulates 100-130 units beta-galactosidase activity per ml (hydrolyse of ONFG, 30 degrees C) or 130-160 units per ml (hydrolyse of ONFG, 37 degrees C) 62-68 units (hydrolyse of lactose, 30 degrees C). The strain is not pathogenic.

705132 110.03 P S R
SINGLE CELL PROTEIN FROM MOLASSES Low cost of production and economically viable.

705141 26 C L U
FILTER FOR VEGETABLE OIL Filter using the material of the seed pressed as a filter material. Used to filter cold pressed oil from modified Bielenberg ram press. Gives top quality vegetable oil. Can be made by rural artisans.

705144 114 L C
SMALL OIL MILL crushing capacity of 2 tonnes of oil seeds per day consists of Expeller, cooking kettle, filter press, baby boiler, decorticator etc. It runs on 10 HP engine/motor. It provides edible oil to 5000 population annually.

705150 122 J C
EXTRACTION AND PRODUCTION OF ESSENTIAL OILS Herbs, henna, essential oils, honey plantation, extraction, production of bee honey and wax, castor oil, karkadi bags, royal jelly capsules etc. 5000 tpa.

705162 184 F J P
HANDLING AND CLEANING EQUIPMENTS FOR AGRI-FOOD SECTOR Machines for precleaning and cleaning - high technicality rice mill, precleaning and cleaning equipment worldwide.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

705180 163 C L G
PRODUCTION OF SOY OGI A protein fortified baby food using soya beans and corn/sorghum. All necessary technology, machines and equipment are available.

705183 163
PRODUCTION OF NORMAL AND DETOXIFIED CASSAVA STARCH for textile, paper, food and pharmaceutical purposes. The necessary machines and equipment are available

705221 124 C L C
INSTANT NOODLE MAKING PLANT Noodles are fast cooking food. It is relished by young generation very much. Raw material: CMC, common salt, edible colour, alkaline powder. Covered area: 250 sq mt. Production capacity: 900,000.

05230 124 C L C
JAMS prepared from fruits are used extensively in homes and hotels. Raw materials: sugar, citric acid, essences of preservatives. Covered area: 500 sq mt. Production capacity: 13 tons/month.

705234 124 C L C
CHEESE MAKING UNIT It is used in hotel industries. Raw material: food chemical, beans. Covered area: 1000 sq mt. Production capacity: 20,000 kgs.

705239 124 C L C
BAKING POWDER is extensivel used in bakery industry. Sodium acid pyrophosphate, sodium bicarbonate, corn starch are the raw materials. For a production capacity of 2.5 tons per month it requires 150 sq mt covered area.

Ref No. Org.No. Status Offer Source

705288 200 C L C
PROCESSING OF DEHULLED SORGHUM FLOUR for making soft porridge (mabele), sorghum malt, for beer making and manufacture of weaning foods.

705386 242 C S U
VEGETABLE MILL This is a blurr plate type grinder, consisting of a hopper, a stationery ribbed plate and another plate attached to a rotating shaft, all in the grinding chamber. Power is provided by a small drive motor. The unit is mounted on wooden platform.

705387 243 C L C
CORN MILL This is a blurr mill consisting of a hopper, leading to a grinding chamber and then to two circular flat steel plates with roughened surfaces, one rotates against the other which is stationary. Grinding is accomplished by a shearing and crushing action between the two plates.

705683 9 P L R
SELF HEATING OR REFRIGERATION OF SMALL FOOD CONTAINERS A new system for easy refrigeration of canned drinks or for fast heating of cooked foods has been developed and patented. The system can be designed to be suitable for transportable foods and drinks. Ready to use food producer or canned drinks producer could obtain licence.

705701 38 U L C
AUTOMATIC LINE CLEANING SYSTEM A microprocessor controlled unit for automatically cleaning beer lines in public houses. The unit is programmable such that washing and rinsing times can be varied. The unit includes a pump whose dosing rate is electronically controlled to a pre-set value .

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

705704 38 W L/S/J C
YOUNG PEOPLES' DRINK Novel beverage with a young trendy image available for a licensed production/distribution agreement. The production contains 15% alcohol, spirit based, and is carbonated to compliment its marketing concept. It is envisaged that it will be packaged and consumed on a single serve basis.

705710 60 W L U
PRODUCTION OF LOW-FAT PROCESS CHEESE BY DIRECT ACIDIFICATION
 Low fat process cheese of good flavour and texture can be produced by combining existing casein and process cheese methods. The method involves producing wet, acid casein curd by heat and direct acidification. The curd, following mechanical dewatering, is added to a process cheese cooker with other ingredients (including natural cheese if desired for flavour purposes). Normal process cheese technology (including use of emulsifying salts) is used to make the final products.

705713 60 W L/J U
COMPUTER BASED NUTRIENT PROFILE OF GOOD FOODS which may be accessed on or off-line for analysis of recipes or diets. This service draws upon a dynamic data base that integrates new research and updated standards as they become available. The Nutrient Data Bank contains the nutrient composition of over 6,000 foods, food ingredients, complex recipes, and vitamin and mineral supplements.

705716 67 M L R
CONTROLLED RELEASE FLAVOURS AND FRAGRANCES Proprietary technology extends the effectiveness of flavors and fragrances in a variety of settings. Less active ingredient required, may allow on-demand delivery (eg at a given pH level).

Ref No. Org.No. Status Offer Source

705719 71 F L/S G
CITRIC ACID PRODUCTION USING SUBMERGED FERMENTATION
 Fermentation is realised with the help of special strains of microscopic fungus - *Aspergillus niger*. The fungal strains ensure high productivity and intensity of the process. Duration of a fermentation cycle 5-7 days; yield of citric acid in terms of sugar - 86-90

705722 71 F/P L/S G
A METHOD OF KOUMISS MANUFACTURE FROM COW MILK Cow milk koumiss is approximately equal to mare's milk koumiss in its chemical composition, nutritive and biological value. Koumiss may be produced from liquid components of cows milk, as well as from dry water-soluble milk powder. Curative and dietetic properties allow recommending to people with gastritis, colitis, cholecystitis, lowered arterial blood pressure, anemia, etc.

705725 71 F L/S G
EQUIPMENT FOR ICE BUNKERING A complex of equipment which provides storing, transporting and distributing the flaky ice used to keep the raw material at food industry plants and fishing vessels.

705737 88 U
IMPROVED CHEESE YIELDS The flavor stability of milk is enhanced by heating fresh milk at a temperature long enough to significantly lower its bacterial count. Further, the yields in a conventional cottage cheese or curd making process improve when milk is similarly heat treated and then aged prior to use.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

705740 88 U

REMOVING ANTIBIOTICS FROM MILK

A method of removing antibiotics from contaminated milk by passing it through an ultrafiltration membrane wherein the antibiotic products are small enough to pass through the membrane as a part of the permeate. The larger soluble components of milk are retained in the retentate.

705743 88 U

PRESERVATION OF FISH

The keeping time of fresh fish is greatly improved by killing surface bacteria through the use of a short hot water dip and/or a bactericidal dip (eg. chloride dioxide or potassium sorbate). The fish is then stored in a super-chilling ice/salt mixture. Five weeks shelf life is possible.

705746 88 U

LONGER FRUIT STORAGE

A method of extending the shelf life and of enhancing the keeping quality of fruits which comprises contacting the fruits with amines or amino acids selected from the group consisting of naturally occurring amino acids, precursors of such compounds and synthetic analogues of such compounds.

705755 88 U

RED SEEDLESS GRAPE

Red seedless grape NY 63.878.1 'Einset'.

705758 88 U

VOLE-RESISTANT APPLE TREES

The vole-resistant rootstock has a characteristic modifying distinct interstem interposed between the apple bearing scion and the rootstock. Alternatively, a composite stock system, uses a non vole-resistant stock below ground and a novel vole resistant stock above ground.

Ref No. Org.No. Status Offer Source

705773 113 L

CONTINUOUS SEPARATION OF OIL AND FLOUR FROM OIL SEED

Rapid processing of oilseed in a non-aqueous, non-oxidising closed liquid system permits its separation into high quality oil, flour and a fibre-rich component. The solvent is recycled and the breakdown of oilseed into anti-nutritional compounds is prevented. Flaking, cooking and pressing stages are deleted.

705776 113 L

CRISP APPLE SNACK

A dried snack food with a real apple flavour and crunch. A special encapsulating system is used to contain the aroma in the fruit slices until released by moisture in substantial amounts (eg. in the mouth or by milk on breakfast foods).

705779 113 L

VACUUM DISTILLATION OF WATER-BASED FRUIT AROMA

The aim of the invention is to remove almost all water rather than simply concentrate, without loss of fragrant volatile components. Apple volatiles can be concentrated 33,000 times and orange volatiles 8,500 times.

705788 113 L

DEVICE FOR CONTROLLING STORED FOOD BEETLES

This is a device for the control of crawling insects that infest stored food products. It consists of silica gel particles bound by an adhesive and deposited on a substrate.

OFFERS

CATEGORY 2: FOOD PROCESSING

- Ref No. Org.No. Status Offer Source**
- 705803 136 C J C
HIGH VACUUM COLD DISTILLATION Plant/system which dealcoholises, distills any kind of alcoholic beverage (example wine or beer) without reaching during the process a higher temperature than the room temperature. This allows the dealcoholisation without damaging the original products or the distilled ones.
- 705830 99 F/W S G
MILLET TRANSFORMATION It was established that millet might be processed at the industrial scale into grits, flour, couscous and weaning food. Millet products obtained by technologies developed were proved to be stable in storage with a minimum shelf life of six months at ambient conditions. Proposed flow sheets for all products will be presented.
- 705846 190 C L/J U
TSOTSO STOVE A fuel efficient stove which uses twigs or agricultural waste as a fuel. Ideal for areas where there is scarcity of fuel wood.
- 705882 307 C L/J C
CANNING AND BOTTLING Aseptically processed food packed in hermitically sanitary cans. Fruit and vegetable pulp is being concentrated in vacuum dehydration and packed in bottles. Products include Supa Bura (canned fish), baked beans, canned meat, prime cut corned beef, tomato ketchup and tea.
- 705906 329 C L G
DISTILLED WATER PLANT The plant comprises two units: the cooling tower assembly and the distillation unit which consists of a fire tube boiler, condenser, re-circulation pump, fuel tank and control instruments. It is capable of producing distilled water at a continuous rate of about 100 litres per hour.

- Ref No. Org.No. Status Offer Source**
- 705924 330 C L G
SMOKING KILN is a tray drier for smoking and curing fish, meat and other similar products. Fuel type is charcoal or firewood; minimum capacity 100 kg of wet fish per batch; materials of construction - mild steel. One chimney with damper. This drier is also equipped with trays and louvres. Design ensures heat regulation and uniform drying. The equipment is economical to operate.
- 705944 337 C L G
PURIFICATION OF INDUSTRIAL DRAINAGE WATER fine cleaning, treatment for drinking. Biological purification utilising anaerobic and aerobic micro-organisms simple and other purifiers immobilised on non-soluble carriers. For chemical, petrochemical, oil refinery, wood chemistry, microbiological industries, municipal engineering.
- 705951 337 C L G
NATURAL FRUIT PASTES Production of paste product from fresh and quick frozen fruit mass of one or two types without adding sugar. For daily food ration of human being of any age, as a prophylactic food for patients suffering from heart and stomach diseases, diabetes, at rehabilitation period as easy food.
- 804968 42 C L
UNIVERSAL FISH AND VEGETABLE PROCESSING MACHINE with adequate exchangeable working elements for 'washing' - 'cleaning' - 'scaling' - 'cutting' of fish, mussels and vegetables. With automatic controls, easy and safe to handle, maximum utilisation of time and space, maintenance free and rugged design. (Operating time per 50 kg load 2-3 minutes).

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

804993 1 L
SWIFT LIFT GENTLE ELEVATOR FOR FOOD PRODUCTS Continuous operation, eliminates spillage, gentle handling, wide variety of uses, easy to clean, hygienic design stainless steel contact, low energy consumption, minimum noise level, reduced maintenance costs, simple installation.

805002 1 L
VEGETABLE BLANCHING SYSTEMS with feed chute, water level control, access door for hygienic purposes, steam inlet, drive and drive guards, discharge scoops.

805013 42 L
METHOD AND COMPOSITION OF COOKED TOMATO FLAVOUR containing the compounds dimethyl sulfide, beta-camascenone, 3-methylbutanal and 3-methylbutyric acid in particular proportions, used to impart or enhance the cooked tomato flavour of food products.

805031 99 W L G
RED COLOURED CONCENTRATED JUICE Juice from red flower of Hibiscus Sabdarifa is concentrated up to 75 Brix. The process, the storage and utilisation conditions are determined to give a stable, economic product. The same process is also used to produce Tamarin concentrated juice.

805049 86 C S P
ALCOHOL DISTILLATION Know-how offered for the installation of alcohol distilleries from molasses. Also sale of machinery for such plants, modernising and servicing of existing plants.

Ref No. Org.No. Status Offer Source

805058 54 P L C
THERMAL ACTIVATION ROTARY KILN
 The invention relates to a thermal rotary kiln comprising of a rotatable cylindrical shell. Used to process charcoal to activated carbon. Reliable and capable of producing high quality product.

805076 15 C L C
MEAT AND GRAIN FACILITIES Design, fabrication of equipment and installation of facilities for processing meat and grains.

805085 64 M L U
PROCESSING ARROWROOT STARCH
 The process involves: washing and scaling the rhizomes, rinsing peeled rhizomes, crushing, mixing the pulp with water and sieving allowing the liquid to stand in order to let the starch settle and changing water every 30 mins, setting the starch overnight, draining and dividing the starch into small lumps, sun drying for 24 hours, air drying for five or more days until the starch lumps crumble into dust when touched and packing in dust-proof bags.

805129 110.03 M J R
EXTRACTION OF ESSENCES BY STEAM DISTILLATION from local aromatic plants eg Mentha sp Ocimum sp Cymbopogon sp.

805135 26 C L U
HAND OPERATED MAIZE SHELLER Used for shelling of maize on household level. Production 90 kg per day. Fills a need for rural households. Relief of work for women.

805168 162 F/C L C
MEAT PRODUCTS Plant and process know-how to produce and package meat products such as sausages and corned beef.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

805226 124 C L C
MARGARINE is produced by mixing oils, fats and lactic products. Raw materials: fermentation milk, hydrogen, aroma ingredients, vitamin. Covered area: 2000 sq mt. Production capacity: 13 tons/month.

805235 124 C L C
CONFECTIONERY Quality confectionery is of great nutritional value and forms an important part of balanced diet. Raw material: liquid glucose, colour, polythene bags. Production capacity: 5500 kgs per month.

805248 124 C L C
TAMARIND CONCENTRATE extracted from tamarind pulp and can be used for making sauces/chutneys and other savoury items. Raw materials: tamarind. Covered area: 250 sq mt. Production capacity: 25 tons/month.

805257 124 C L C
PRAWN PICKLE ready to serve non-vegetarian pickle with good demand. Raw materials: prawn, salt, spices powder. Production capacity: 5 metric tons/month. Covered area: 250 sq mt.

805262 124 C L C
OIL MILLS (SUN FLOWER MAFURA SESAME) These are used for cooking purposes. Raw materials: sunflower, tin containers, caustic soda. Covered area: 350 sq mt. Production capacity: 150 mt/month.

805284 194 C L C
BEER MAKING Process of making a native beer of heavy viscosity and vinegary taste from maize grits and sorghum malt, in combination with lactic acid, certain enzymes and brewer's yeast. The process involves drying, pasteurising and fermentation at various stages.

Ref No. Org.No. Status Offer Source

805315 257 W S G
FOOD GRAIN PROCESSING These are designs for the manufacture of appropriate grain processing mills, feed mills and mixers for use in rural areas where electricity is large unavailable.

805325 297 F S G
GRAIN PROCESSING AND POST HARVEST MACHINERY This is a system of machinery and equipment for post harvest processing of cereal products such as maize, sorghum, millet, barley and coffee. It is manually used for threshing paddy, hulling of cereals, milling and pulping of coffee. It is easy to construct, handle and maintain. It is suitably adapted to tropical milling demands.

805369 238 C S G
CORNED MUTTON AND GOAT MEAT PRODUCTS A corned meat produce using mutton and goat meat was developed. The product was packed in plastic casings and stored and marketed under refrigeration.

805370 238 C S G
INSTANT TATALE DEVELOPMENT The peeled firm ripe plantain is cut into pieces and steeped in 0.3% Metabisulphate solution for 3 minutes, drained and mashed into puree or a blender. Some powdered maize dough is added to mash and blended in a dough mixer etc.

805396 246 P S G
PRESSURE COOKER Cooks food by steaming. It consists of a thick steel pressure cooking vessel with aluminium lining, aluminium cooking basket and complete with a tight fitting lid, which is secured in place with bolts etc. Low cost and efficient.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

805687 30 C J R

FOOD SUPPLEMENT Provides more than 20 trace elements needed by humans to stay healthy. By keeping trace elements in balance, this product helps to treat high blood pressure and cardiovascular disease and accelerates children's growth, improves intelligence, increases resistance to disease and reduces bone loss problems in the elderly.

805696 38 W L/S/J C

LIQUER - US MARKET A delicately flavoured liquor with high potential for the US and Japanese markets is offered for a licence/distribution agreement. Whilst drinkable neat and over ice it has particular high impact when diluted with mixers. The recipe is BATF approved and is supported by market research results.

805707 46 U/W L/S C

EGG WASHING/SANITIZING MACHINE Technologically advanced machine constructed of S.S. and plc controlled. This machine is the only one with all the necessary failsafes. The competition is American and uses sound but outmoded scientific principle. Legislation to allow washing of consumption on eggs in EEC is imminent.

805728 I C S C

A NON-DESTRUCTIVE X-RAY INSPECTION DEVICE Which continuously and totally automatically provides detection of foreign bodies such as glass, metals, stones etc. which can be mixed in industrial or agri-food products. The process makes an x-ray radiography, line by line in step with the movement of the product and then processes the signals in real times for the purpose of detecting foreign bodies. The machine integrates the complete conveyor system.

Ref No. Org.No. Status Offer Source

805731 85 W J P

A KIT FOR THE DETECTION OF SALMONELLA IN FOOD WITHIN 24 HOURS A system which combines three systems of bacteriological diagnostics, culturing, immunology and gene probe. The techniques developed in the programme could be the harbinger for test systems for other food-borne pathogens which will soon be as stringently controlled like Aeromonas, Listeria, Campylobacter etc.

805734 87 P J U

BAKER'S YEAST PRODUCTION IN FED BED REACTORS

805749 88 U

PROGRAM FOR GRADING BEEF Algorithms for analysing ultrasonic images of live cattle and beef carcasses to provide yield and quality grades.

805752 88 U

RED RASPBERRY A red raspberry plant bearing fruit of good quality with outstanding overall characteristics.

805761 88 U

APPLE CULTIVAR A sport of 'Empire' which is significantly redder than 'Empire' but otherwise substantially identical to 'Empire'.

805764 88 U

DEVILLED EGG PROCESS A layer of homogenised liquid egg white is put into a half egg mould and a portion of chopped, cooked, seasoned egg yolk floated therein. After steam cooking a second portion of the yolk mixture is placed on top of the cooked yolk portion fixed into the cooked egg white.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source
 805767 98 C J G
PARTICULATE EMISSION AND EFFLUENT CONTROL IN A MILK DRYING PLANT In the manufacture of skimmed-milk powder, milk losses occur in the milk concentration stage and in the drying of the concentrate. A process has been developed which reduces losses in each of these stages.

805770 112 P L U
PROCESS OF CONCENTRATING ETHANOL Permits ethanol to be concentrated from dilute fermentation beers, which may contain from 6 to 10% ethanol, to obtain a concentrate product at very low energy cost having an ethanol concentration in excess of 95%, such as a concentration of from 98 to 99.5%.

805782 113 L
APPARATUS FOR HEATING GRANULAR MATERIALS An apparatus for efficient and uniform heating of various kind of seeds, nuts or beans, using simultaneously hot gas and microwave energy. The system could be used for drying, roasting, enzyme inactivation, pasteurization or sterilization. A prototype was built and tested.

805785 113 L
BACTERIAL ENZYME USED AS CHEESE RIPENING AID This invention concerns the production of Cheddar cheese using an improved ripening aid which reduces ageing time while enhancing the development of desirable flavour and texture characteristics.

805791 113 L
CRAB-LEG SLITTER A device for slitting the shell of a crab leg to enable the operator to easily remove the meat without damage.

Ref No. Org.No. Status Offer Source
 805794 113 W L C
APPARATUS FOR HEATING GRANULAR MATERIALS An apparatus for efficient and uniform heating of various kinds of seeds, nuts or beans, using simultaneously hot gas and microwave energy. The system could be used for drying, roasting, enzyme inactivation, pasteurisation or sterilisation.

805797 113 L
DEVICE FOR CONTROLLING STORED FOOD BEETLES This is a device for the control of crawling insects that infest stored food products. It consists of silica gel particles bound by an adhesive and deposited on a substrate.

805805 136 P L R
GHERKINS FERMENTATION Controlled and accelerated gherkins fermentation by means of brine purging and the use of starters.

805812 136 C L C
AUTOMATIC MACHINE FOR WRAPPING COLD CUTS Such as chorizo, salamis and other similar sausages. Feeding itself with individual paper sheets and cold cut pieces, leaving the string that cold cuts normally have to be hung from.

805814 136 P L C
DRY EGG CLEANING Industrial system that removes dirt adhering to eggshells in a non-humid environment.

805823 1 L
REEL WASHER, GRADER/DRY PRE-CLEANER for carrots, parsnips, beets, potatoes, turnips and other root crops. Designed with both the processor and the farmer in mind and can be supplied as either a dry rod cleaner or conventional rod washer for crops direct from the field as well as during processing, also available as graders using a modified reel.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

805859 214 C L/J P

MINISUGARMILL DISTILLERY Designed to produce white sugar in areas where isolated sugar cane farms are in existence but central factories are not. Either open pan boiling or limited pressure boiling of juice with small boilers can be used. Molasses are directly fermented in dot stills or patent stills to make Rum.

805893 335 W L R

PROCESSING COCOA CRUMB The technology is concerned with the establishment of process technology for the production of cocoa-crum, a fat-free chocolate, from cocoa powder.

805895 335 W L R

KOLA CHOCOLATE PROCESSING Establishment of technological specifications for the processing of chocolate from kolanuts.

805915 330 C L G

PRESERVATION AND BOTTLING OF PALM WINE The shelf life of palm wine, a naturally fermented alcoholic beverage of oil or raphia palm tree, is extended from one day to about twelve months by applying preservatives pasteurization and bottling. Equipment were designed and developed for the operations involved in the production of preserved palm wine. Extends product shelf life. Small to medium scale commercial processing.

805958 I L

SOFT FRUIT WASHER designed to give fruit such as strawberries a thorough wash and fresh water rinse, yet having a gentle enough action to avoid damaging the product. The washing action is variable from very soft to vigorous.

Ref No. Org.No. Status Offer Source

904988 42 L

READY COOKED CHILLED MEALS 'STATE OF THE ART FRENCH TECHNOLOGY' Ready cooked chilled meals produced by these techniques have exceeded all others in the industry in France, Germany and the Netherlands and production is established in France, Luxembourg, the Netherlands, Germany and Scandinavia and is now available under licence.

905000 I L

PRODUCT DESTONER AND CONTRA FLO COOLER Contra Flo Cooler, low water consumption, small capital investment, lower energy consumption, reduced effluent, easy to feed, drive parts fully guarded, easy installation. Product De-Stoner, high efficiency destoning, low capital cost, low energy cost, low water consumption, low maintenance costs, minimal down line down time.

905011 42 L

EXTRACTION OF TASTE AND FLAVOUR 'NATURAL SEASONING' through the extraction and concentration of taste and flavour from the natural food material, this new product is of high flavour, good taste, supreme quality produced for the major use of food manufacturers.

905029 96 C S/J C

CANE SUGAR PRODUCTION Company has built and/or is managing 9 sugar plants throughout the world with a total potential of 300,000 tons of granulated sugar per year.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

905065 2 M L C
GEOTHERMAL STEAM FOR FISH CANNING The process involves the use of specifically designed pressure cooker. The fish is cleaned and washed in fresh water, sliced in small cubes, packed in cans, and placed in steam exhaust for 10 mins. The cans are vacuum sealed and placed in pressure cooker at a temperature of 250 degrees F and a pressure of 151 PSI for 30 min. Temperature and pressure are gradually lowered.

905074 12 P L C
CANE SUGAR CRUSHER JUICER The equipment is supported on a stand and consists of a three roller sugar cane crusher made of stainless steel. It has a filter and is powered by an electric motor. It operates on a 110/220 V. The product lines also include shredders, grinders, ovens and driers, hamburger and barbecue grills.

905083 21 M L G
FISH SAUSAGE A technology for preparing sausages from the meat of sharks, tuna and marlin. Inputs required include salt, pork fat, garlic powder, onion powder, white pepper and other spices, nutmeg, brown sugar, monosodium glutamate and food colouring.

905217 124 C L C
GROUNDNUT OIL Used for cooking purposes. Raw materials: ground nuts. Covered area: 200 sq mt. Production capacity: 30 tons per month.

905222 124 C L C
MUSTARD OIL is used as edible oil. Mustard oil cake is the common cattle feed used as a manure. Raw materials: mustard seed, tin containers, gunny bags. Covered area: 250 sq mt. Production capacity: 1300 kg/month.

Ref No. Org.No. Status Offer Source

905231 124 C L C
IODISED SALT is very much used due to the increase of goitre disease. Raw materials: common salt, potassium iodate. Covered area: 200 sq mt. Production capacity: 1000 tons/month.

905240 124 C L C
AERATED WATER It is used in soft drinks preparation like cola, orange and carbonated beverages. Sugar, citric acid, colour, preservatives, liquid glucose, essences, flavour, carbon dioxide, distilled water, activated carbon hypocell are the raw materials. For a production capacity of 125,000 crates requires 500 sq mt covered area.

905244 124 C L C
YEAST FROM MOLASSES Yeast plays an important role in ethanol; malt beverage wine, vitamin manufacturing industries. Raw materials: urea, sulphuric acid. Covered area: 1000 sq mt. Production capacity: 25 metric ton/month.

905253 124 C L C
SEASAME OIL is used as cooking media and as hair oil. It is restricts hydrogenated oil from adulteration. Raw materials: sesame seed. Covered area: 240 sq mt. Production capacity: 10,000 kg/month.

905258 124 C L C
POTATO WAFER manufactured from potatoes, fried in oil is a famous eatable in all countries. Raw materials: potatoes, chemicals, hydrogenated oil. Covered area: 350 sq mt. Production capacity: 6 metric tons/month.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

905271 216 C L C
BREAD OVEN FOR SMALL BUSINESS
 Using a small quantity of wood, charcoal, gas or oil, the oven can produce around 1,000 (1/2 Kg) loaves in a day. It can be made in different sizes with a minimum capacity of 40 loaves to a maximum of 200 loaves.

905285 195 C J R
PEANUT BUTTER Process for preparing a unique peanut butter from the 'morama' bean (*Tylosema Esculentum*) which is native to the K'alahari region of Southern Africa. This bean is rich in oil and protein.

905317 290 C S C
CASHEW NUT WASTE PROCESSING TECHNIQUE This is a technology for extraction of edible oil from cashew nut wastes. The technology is suitable as an additional process line in the cashew nut industry and helps to reduce environmental pollution through using the resource.

905379 239 C S G
COOKING KETTLE PALM FRUIT BOILING TANK Consists of large cylindrical shell on an aluminium conical base. The bottom is sealed, top cover can be bolted. A faucet at the bottom allows water to be drained off while a sliding gate on the shell allows boiled fruits to be discharged.

905380 240 C L C
FATECO FILTER PRESS Consists of a series of chambers. Each chamber consists of two plates separated by a filter cloth. A centre hole allows liquid to be pumped through. A faucet is installed to each space where filtered oil deposits can be collected from a tray. Pump is centrifugal and motor driven.

Ref No. Org.No. Status Offer Source

905388 243 C L C
GROUNDNUT CRACKER This is a manually operated groundnut/cowpea sheller consisting of a U shaped perforated base supported by stands serving as a hopper into which the crop is put. A shelling handle, fixed at its mid point with a hammer head traps the crop and opens.

905400 244 C L C
FLOUR MIXER A rotating 'U' shaped metal bowl is mounted on an 'L' shaped stand. Fixed in the bowl is a propeller which acts as stirrer and is propelled by either a diesel engine or electric motor.

905682 9 P L R
NEW FISH KNIFE A new fish knife to facilitate herringbone separation has been designed and patented. Licence is offered to a metalware manufacturer.

905691 30 C J C
AMELIA RABBIT ESSENCE Is a superfine food preparation made from high quality rabbit meat.

905695 38 W L/S/J C
FLAVOURED SPIRITS (70% UK PROOF)
 A flavoured spirit beverage with fiery character developed for a niche market sector is available for a licensed production/distribution agreement. The product has a very high mark-up potential.

905700 38 P L/S C
BEVERAGE DISPENSE TAP Designed primarily for dispensing beer, this novel tap provides a controllable head of foam by a jetting action immediately after the beverage glass is filled. Adjustment of the jet size allows control of the amount of the foam head.

OFFERS

CATEGORY 2: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

905800 133 P L P
CHLORESTOROL CONTROL FOODS
 Relies on the proven properties of high-fiber foods and other substances to achieve cholesterol control by the introduction of lecithin into high-fiber cereals.

905807 136 C L C
BAKERY PRODUCTS, COOLED OR FROZEN Wide range of bakery products, raised and partially cooked. They can be kept for 21 days at a temperature between +5 C and 100 C, and 2 to 3 months when at temperature of -20 C. Final preparation before consumption requires just a few minutes in an oven at a temperature between 220 and 230 C after which they acquire the characteristics of a fresh cooked product. Formulation, process, installation and quality control systems available.

905832 86 C S P
MANUFACTURE AND SALE OF BULK STORAGE TANKS IN MILD STEEL AND STAINLESS STEEL These tanks are used for the storage of oils, chemicals and alcohol. Tank lining works are done so that these tanks are used as reaction vessels.

905852 124 C L C
ICE CANDY (LOLLY POPS) It is quite popular among children. Raw materials: saccharine, milk, colour, cream. Covered area: 150 sq mt. Production capacity: 420,000 ice candy.

905868 202 C L C
PROCESSING OF FRESH MILK
 Pasteurising and packing into sterile containers for commercial purposes.

Ref No. Org.No. Status Offer Source

905877 254 C S G
FOOD PRESERVATION By exposing food to ionising radiations, insects and micro-organisms which cause spoilage in stored foods are killed; sprouting of crops/seed is inhibited and ripening of fruits is delayed.

905888 197 C L C
VACUUM PACKAGING of spices and beans in 50 to 500 gm units.

905902 329 C L G
ALCOHOL DISTILLATION COLUMN for the distillation of alcohol from fermented liquors derived from raffia wine, sugar solution or molasses etc. It is possible to produce pure ethanol (95 vol percent) from popular traditional liquor sources, particularly from raffia palm wine, and locally distilled potable spirit (ogogoro).

905913 330 C L G
DISTILLATION EQUIPMENT FIIRO STILL, for production of alcohol. The design of a distillation equipment for small to medium scale production of alcohol from previously fermented liquors derived, for example from palm wine, molasses etc. The distillation equipment is compact, easy to operate and produces a highly refined ethanol.

905920 330 C L G
PRODUCTION OF SPARKLING WINE FROM PALM WINE In this invention, a process is developed for producing sparkling wine from palm wine by fermentation, pasteurization, filtration, bottling and ageing or ripening. An alternative raw material to grape must.

OFFERS**CATEGORY 2: FOOD PROCESSING**

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
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905922	330	W	L	G					
PRODUCTION OF LAGER BEERS The technology involves development of a process technology for the brewing of lager beers from sorghum/barley composite malt. Using sorghum and barley malt in the ratios 50 : 50 and 25 : 75, two types of lager beer with good consumer response were prepared.									

905956	337	P	L	G					
INDUSTRIAL CULTIVATION OF CRANBERRY on reclaimed swamps and turf peat. The technology includes all the operations of growing the cranberry, including the planting, fertilisation with minerals, use of pesticides, adjusting water and heat conditions, sanding, care of branch, harvesting.									

REQUESTS

CATEGORY 3: AGRICULTURE

Ref No. Org.No. Status Offer Source

5463 321 C L C
TRACTOR REHABILITATION PROGRAMME requires economical processes and tooling.

105043 104 C J C
FORMULATION PLANT for synthetic pyrethroids.

105148 119 J C
CUTTING AND TRIMMING TOOLS for vine plants and trees. Desired production capacity 10,000 pieces per year.

105154 189 C L/J C
PROCESS AND PRESSING PLANT AND EQUIPMENT for producing animal feed and solid fuel briquettes from chopped cotton or maize stalks, bagasse, straw, saw dust etc.

105290 203 C J C
PRODUCTIVE USE OF SEWERAGE WATER UNDER IRRIGATION Purpose to grow lucerne for dairy cows and to develop fishing ponds to produce fishcakes as food for cows.

105469 325 P S C
STOCK FEED complete feeds and concentrates.

105872 207 W S R
CRACKING OF WILD VELD NUTS Technology to crack hard the outer shells to harvest the seed which is a good source of vegetable oil.

205210 127 C J C
COTTON GINNERY Ginnery of cotton and processing of by-products into finished goods eg cotton seeds to cooking oil and animal feeds.

Ref No. Org.No. Status Offer Source

205346 261 C S C
ANIMAL FEEDS PRODUCTION Technology required is for animal feed production through milling and mixing of various animal feed ingredients. Production scale 1280 tons/annum.

305347 260 C S C
WATER PUMPS PRODUCTION Technology required is for production of water pumps ideal for small scale irrigation system and such related activities.

405143 111 L/J C
PACKAGED BOILER FOR AGRO-BASED INDUSTRY Technology requested for the design, manufacturing, erection, testing, commissioning and maintenance of packaged boiler for agro-based industry and other similar related industries. Small to medium ranges; fire - tube boiler with dual-burner system if possible.

405152 189 C L/J C
COMPOUND MANUFACTURE OF ANIMAL FEED Process, plant and machinery to manufacture animal feeds from bagasse, vegetables and farm produce waste etc. Products to be of high nutritious value and be of value to more than one type of animal.

405155 189 C L/J C
GRAIN MILLING AND BY PRODUCT PROCESSING up to date technology, plant and equipment to mill various types of grain and processing of products derived therefrom. Grain to be milled to include maize, millet, sorghum etc. Plant to include that required to handle raw materials up to product packaging.

405191 153 C J C
PROCESSING AND TECHNOLOGY FOR WET MILLING OF MAIZE to process up to 10,850 metric tonnes per annum into starch, glucose syrup, unrefined oil and animal feeds.

REQUESTS

CATEGORY 3: AGRICULTURE

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
605341	267	C	J	C					
PRODUCTION OF ANIMAL VITAMINS AND ANTIBIOTICS Technology required is for the production of various vitamins and antibiotics required for animal husbandry. As far as possible the main ingredients should be locally available.									
705153	189	C	L/J	C					
PULP AND PAPER PRODUCTION from agricultural residues such as straws and stalks of wheat, maize (corn), sorghum, cotton etc.									
705342	266	C	J	P					
BACON/SAUSAGES/HAM MILL The technology required is for production of bacon, ham and sausages using locally available materials. Methods are required for cleaning, washing, treating and forming the mashed meat into sausages and bacon.									
905308	208	C	L	C					
SIMPLE PULSE DEHUSKING MACHINE This can process about 40-70 kg of pulse per hour, depending on the way the machine is operated. The machine drawings are available for both hand operated as well as mechanised models.									
905343	265	C	S	C					
MANUFACTURE OF VETERINARY VACCINES The technology required is for tissue/culture preparation, identification of stock culture, of the seed culture, harvesting, vaccine, formulation, dispensing in vials, freeze drying, quality control tests, labelling and packing.									

REQUESTS

CATEGORY 4: FOOD PROCESSING

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
5335	264	C	J	C	5843	122	L/J	C	
MODERN MINI RICE MILLS The technology required is for cleaning, hulling, whitening, grading and packing rice. It is expected that the technology will produce paddy into high quality milled rice.					ESSENTIAL OILS PRODUCTION We will plant, henna, lemon grass, ginger grass, garlic, spices etc to get oils from them. Technology required for extraction and distillation units.				
5408	292.01	C	J	C	105145	116	L/J	C	
COASTAL FISHING AND FISH MEAL The technology required is for fish processing up to the packing ready for marketing. The process is expected to be at a small scale level.					SMALL SCALE FOOD PRODUCTION MACHINERY Con block machine. Powder mill machine. Rice mill, Bakso machine/meat milk. Coconut fibre machine. Charcoal machine.				
5410	292.03	C	S	C	105157	187	W/F/C	J	C
SUNFLOWER OIL PROCESSING The co-operative has an annual production of tons 100 per annum.					SMALL INEXPENSIVE OAT DEHULLER/SEPARATOR for manufacture of breakfast oats. Capacity/throughput 100-500 (max) kgs/hr.				
5413	292.06	C	S	C	105169	172	P/U	S	C
FISH PROCESSING into smoked fish, and fish fillets.					FRUIT JUICE Equipment and machinery for processing fresh papaya and pineapple fruit into juice. Taste must satisfy international taste and meet international standards.				
5430	307	C	L/J	C	105172	169	C	L/J	C
IMPROVED PROCESSING AND PACKAGING for fruits and vegetable products and required technical assistance for beverage manufacturing products.					FRUIT FLAVOURS Component of flavours for production of lime, orange and blackcurrant. Plant filling machine, stainless steel tanks and mixer.				
5445	316	C	L	C	105175	166			
SMALL HOT CABINET to operate at 45 degrees C.					FOOD CHIPS Latest technology on the production of chips from yam, potatoes, plantains, cocoyam and sweet potatoes.				
5450	315	C	L	G	105187	158	U/C	J	C
PRODUCTION OF WEANING FOODS from maize.					MANUFACTURED COOKING OIL by means of mechanical expulsion and chemical extraction methods. Animal feed shall be the by-product. We seek investors that can supply machinery; as we offer the other requirements.				
5465	320	M	L	C					
METHOD OF PRODUCING GUAVA NECTAR Development of nectar which can be bottled without showing signs of separation or sedimentation. The technology should include the pulp production from local guava fruits and the formulation of the nectar from the pulp.									

REQUESTS

CATEGORY 4: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

105190 154 C J C
MEAT PRODUCTS Require integrated feed lot/abattoir to provide a wide range of quality meat products and handle 100 steers and 80 goats per day for domestic use and export. Infrastructure available.

105193 149 C L C
PRODUCTION OF CHOCOLATE BARS from dry cocoa beans for export to more advanced chocolate sweets producing factories abroad. Improvement of the raw material ie cocoa beans best for chocolate bars or cocoa bars production.

105199 142 C J C
FRUIT CONCENTRATES Equipment for the processing of pineapples into fruit concentrates without losing the natural flavour colour and original taste. Concentrates must be packaged in 200 litre drums for export.

105205 134 C J C
MEAT PROCESSING Require plant capable of handling up to 60 head of cattle per day.

105209 129 C J C
PROCESSING AND HANDLING OF PAPAIN and other spices for the export market. Fresh papain is placed in artificial drier at 35 degrees C - 40 degrees C collection until it attains acceptable texture and moisture content. It is then vacuum packed and chilled at 4 degrees C or less.

105309 208 C L C
MALTED WEANING FOOD To make nutritive foods more readily available for babies and for aged and convalescent people. A simple home/community level preparation of malted weaning food has been developed.

Ref No. Org.No. Status Offer Source

105336 264 C J C
EDIBLE OIL PRODUCTION The technology required is for small scale production of edible oil from oil seeds through decortication, pressing neutralisation, filtering and packing.

105345 262 C J C
FRUIT AND VEGETABLE CANNING alternative packing materials.

105409 292.02 C S C
INSTANT COFFEE MANUFACTURING and bottled mineral water from Kilimanjaro mountain.

105411 292.04 C J C
IODISED SALT PROCESSING from sea water.

105412 292.05 C J C
BANANA WINE processing technology.

105436 311 C L/J C
PREMIUM LAGER BEER IN DUMPTY BOTTLES 300 cc. final gravity of the beer 11 degrees Plato, alcohol content 5% by volume. Shrinkwrapped in 6 pack.

105446 316 C L C
SMALL COLD CHAMBER to operate at +4 degrees C.

105447 316 C J C
POWDERED MILK 26% fat content in 25 kg packs.

105448 316 C L C
ELECTRICALLY HEATED CABINET for the manufacture of yoghurt (400 litres).

105449 316 C L C
AUTOMATIC CAPPING AND SEALING OF YOGHURT POTS (1,000 - 2,000 pots per hour).

REQUESTS

CATEGORY 4: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

105451 324 C L/J C
CONFECTIONERY especially in the manufacture of shortbread and cookies/biscuits. Require recipes, special oven for baking shortbread and appropriate packaging machine (small or medium sized plant).

105453 323 C L/J g
FOOD SECURITY AT HOUSEHOLD LEVEL eg technologies that ensure proper food processing and preservation.

105454 323 C L/J G
TECHNOLOGIES THAT REDUCE THE WORKLOAD ON WOMEN especially in rural communities.

105455 323 C L/J G
INCOME GENERATING VILLAGE LEVEL TECHNOLOGIES eg cottage industry for making jams from fruits which are often wasted in rural areas.

105467 319 P J P
EXTRUDING AND EXPPELLING OIL FROM SOYBEAN Soy based foods produced by extrusion methods have been made into full fat soy flours, instant gruels, drinks, weaning foods, bee foods, bakery ingredients etc.

105468 318 F J P
BAKING OVEN made of good quality sheet metals. They have a special design to meet different spacing needs ie can be vertical or horizontal. It is easy to operate and is very strong; especially designed for developing countries.

105470 325 P S C
MARGARINE production.

Ref No. Org.No. Status Offer Source

105471 326 C L/J C
MEAT PROCESSING MACHINERY AND TECHNIQUES OF FOOD PRESERVATION incorporating cooking, curing, dry processing and refrigeration are perhaps the most vital aspects of the manufacturing processes.

205196 145 C J C
PEANUT BUTTER PRODUCTION Technical assistance and marketing expertise for peanut butter production and marketing. Existing plant is capable of processing 9 tonnes of quality peanut butter per day (8 hour shift).

205201 140 C J C
FRUIT JUICE CONCENTRATES Plant and technical expertise to process assorted fruits eg passion fruit, mangoes, pineapples, into fruit juice concentrates for export.

205328 279 C S C
COTTON SEED PROCESSING into edible oils/fats.

205337 272 C J C
RICE PROCESSING Technology required is for rice cleaning, dehusking, whitening, polishing, grading and packing. Production scale 1200 tons/annum.

205338 271 C J C
FISH AND FISH MEAL PROCESSING Technology required is for processing fish into edible fish meal through low level technology. Production scale 300 tons/annum.

205437 311 C S C
NEW PACKAGING FOR MOSI LAGER BEER final gravity 9.5% alcohol content 4% by volume. Packed in dumpy bottles 300 cc and cartons by 24 bottles.

REQUESTS

CATEGORY 4: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

205847 189 C L/J C
VEGETABLE AND FRUIT PROCESSING
 Process, plant and equipment to process vegetables and fruits into canned products. To include oranges, pineapples, mangoes, tomatoes and pickles respectively. Plant to be capable of processing, manufacturing and packaging of fruit pulps, fruit juices, fruit salads and vegetable products.

305206 132 C J C
MAIZE PROCESSING Equipmen for processing of maize meal and animal feeds and cooking oil. Raw materials and infrastructure available.

305282 191 C L C
DRINK PRODUCTION Methods of clear beer products consisting of lagers and pilsener beers and packaging into cans and bottles, also manufacture of carbonated soft drinks and distillation of packaging of spirits in various pack sizes.

305329 278 C J C
FRUIT PROCESSING AND CANNING FACTORY The technology required is for processing and canning of fruits and vegetables and the main raw materials are tomatoes, pineapples and mangoes.

405146 117 L/J C
GRAINSYRUP PRODUCTION/PRODUCT EVAPORATION Technology sought for corn/sorghum syrup production. Stages required: degerming, milling - digestion - filtration - clarification - concentration - packaging.

405167 162 F/C L C
CONTROLLED ATMOSPHERE STORAGE know-how and equipment for fruits and vegetables requested.

Ref No. Org.No. Status Offer Source

405170 171 F L P/C
CLOUDY FRUIT CONCENTRATES A process and equipments for producing cloudy concentrates for non-carbonated drinks at a minimal dose per litre drink eg orange, pineapple, blackcurrant etc. Apple cider and sparkling wine from orange, lemon, banana, grape.

405173 168 C/F L C
PROCESSING OF SEAFOODS (eg shrimps, fish etc) and for the processing of beef and such related products. Machinery required.

405185 160 C J C
FISH FILLETS/MEAL Plant and technical assistance to process fish fillets and fish meal for the local market and export. Plant should handle 200 - 3000 tons of fish per month.

405202 139 C J C
INSTANT COFFEE Production and vacuum packing of instant coffee in bulk for export. Capacity of 3,000 metric tonnes per annum.

405287 200 C L C
PRODUCTION OF SORGHUM FLOUR for use in making stiff porridge-composting with white maize meal to satisfy local appetite which requires the availability of the appropriate white sorghum varieties.

405312 288 C J C
SMALL SCALE MEAT AND FISH PROCESSING The technology required is for cleaning, dressing, sealing, salting, curing, drying, hot smoking and packing of fish.

405330 277 C S C
HONEY AND COTTON SEED processing into edible oils/fats.

REQUESTS

CATEGORY 4: FOOD PROCESSING

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
405339	270	C	J	C	505197	144	C	J	C
GAME CROPPING FOR FRESH MEAT EXPORT Technology required is for meat processing through cleaning, dressing, dehorning, packing and freezing. Production scale 720 tons/annum.					PLANT AND EXPERTISE FOR THE PRODUCTION OF EDIBLE OIL FROM COTTON SEED using the expeller method. Plant should have the capacity to treat 20-40 tons of raw material per day. Animal cake to be produced as well.				
405340	269	C	J	C	505211	126	C	J	C
OIL MILL TECHNOLOGY The technology required is for processing oil seeds through decortication, pressing, filtering and packing. Production scale 125 cu m/annum.					REFINING UNIT FOR OIL AND FAT to produce high quality edible oil, seed cake and soap stock. Refinery should have a capacity to handle 5 - 10 tons of crude oil per day.				
505149	120		J		505283	193	C	L	C
SOFT DRINKS CANNING FACTORY The construction of factory in the field of soft drinks and canning factory. The capacity of the plants is yet to be determined.					SUGAR PACKAGING Packaging of refined white sugar into paper pre-made bags. Shrink wrapping of bags into 25 kg balers.				
505158	188	C	J	R	505331	276	C	S	C
MAIZE MILLING TECHNOLOGY Intermediate size capacity 5 tons per hour minimum. Must include packaging equipment.					INSTANT COFFEE PROCESSING				
505176	165	C	S	C	505844	190		S	U
FOOD PACKAGING Design and manufacture of sachet/bag making filling/heat sealing machine. The product is cocoa based and each sachet to contain 15g.					MARULA NUT CRACKER requires low cost designs which will not damage the nut. Marula nuts have a high nutritional value.				
505188	157	U/C	J	C	605207	131	C/W	S	C
SMOKED/SALTED FISH Method of producing or preserving fish by smoking and salting it. Improved methods of such preservation using electricity or factory processing. Types of fish for raw material are: Tilapia and Nile Perch.					VEGETABLE OIL. Method for the production of vegetable oil especially edible oil for human consumption.				
505194	148	C	J	C	605305	208	C	L	C
SUN FLOWER OIL EXTRACTION Technology to set up a medium sized mill extracting edible oil from sun flower. Plant will treat 5 - 10 tons of raw material input per day. Plenty of raw material available.					GARLIC POWDER A method of making dehydrated garlic powder for condiment and medicinal purposes.				
					605862	192	C	L	C
					PRODUCTION OF COLD, COOKED MEATS by mincing, salting and spicing to produce all kinds of sausage and cooked meat.				

REQUESTS

CATEGORY 4: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

605873 208 C L C
PRODUCTION OF ETHYL ALCOHOL FROM TAPIOCA Use of tapioca as a feedstock for producing different organic intermediates, a solvent and potable liquor with a cattle and poultry feed by-product. This is a low capital investment project.

705159 188 C J R
EQUIPMENT FOR PROCESSING TROPICAL AND SUB-TROPICAL FRUITS such as bananas, pineapples, mangoes etc into a wide range of final products eg dried fruit, juices, pulps, jams etc. Small to intermediate technology only.

705171 170 C L C
FRUIT CANNING Method of producing canned mangoes or any other tropical fruits and the necessary infrastructural equipments etc.

705203 138 C J C
FRUIT PROCESSING AND PACKAGING FOR EXPORT Technology to extract pulp/juice from oranges/mango/pawpaws. Medium sized plant required.

705212 125 C J C
VEGETABLE EDIBLE OIL Extraction of edible oil from oil seed crops like sunflower, simsim, groundnuts, soybeans etc using double screw presses leaving residual oil of about 7% in the cake. The oil is further filtered in the filter press and bottled for consumption both locally and for export.

705306 208 C L C
FISH PICKLE A simple process for making pickle having a good emulsion consistency in a medium of acid, salt, spices and condiments. When stored in bottle with a covering oil, the product has a shelf-life of over one year.

Ref No. Org.No. Status Offer Source

705332 275 C J C
TECHNOLOGY FOR CANNED MEAT/BUTTER/MILK PLANT large scale dairy farming systems for export to neighbouring Uganda, Rwanda, Burundi and Zaire.

705875 268 C J C
PRODUCTION OF COOKING OIL The technology required is for processing oil seed ie decortication, pressing, neutralisation, filleting and packing. Production scale: 900 tons/annum.

805147 118 L/J C
CONTINUOUS METHOD OF PROCESSING SHEANUTS INTO SHEA-BUTTER Technology sought for decorticating of shea nuts - winnowing - drying - storage or masticating of nuts. Steam conditioning of nuts (screw pressing) - chemical extraction of oil - refining of butter.

805156 139 C L/J C
MANUFACTURE OF STARCH PRODUCTS Process, plant and machinery to manufacture high grade starch products using locally available raw materials eg maize. Starch products to include those types and quality for pharmaceutical, textile, food and beverage industries.

805174 167 F/C L/J C
CHOCOLATE MANUFACTURE Latest technology on the production of chocolate bar and enrobing coconut toffees, wafers etc in chocolate.

805177 164 C S C
FRUIT JUICE Small scale machinery for extraction of juice from oranges, pineapples and mangoes.

REQUESTS

CATEGORY 4: FOOD PROCESSING

Ref No. Org.No. Status Offer Source

805186 159 F S C
COLD STORAGE Installation, supply and design, including feasibility and marketing studies, expertise regarding maintenance, temperature and humidity control.

805189 155 C J C
TOMATO JUICE AND SAUCE Plant and technical expertise for the production and packaging of tomatoes to produce tomato juice, tomato sauce and ketchup. Should have capacity of handling up to 400 tons per day.

805192 152 C J C
FRUIT JUICE PRODUCTION Processing technology for production of mango fruit juice, pineapples and passion. To market in the PTA market, USA and EEC.

805195 147 C J C
BANANA JUICE AND BANANA WINE PRODUCTION Technology and equipment sought.

805208 130 U/C S/J C
PROCESSING AND PACKING OF TEA Tea to be packed in tea bags. Technology required of the latest type AG. 10 GM, 20GM, 50 x 100 GM, 100 x 200GM.

805307 208 C I C
MANUFACTURE OF GROUNDNUT PROTEIN ISOLATE A system of extracting protein isolate from de-oiled cake residue following groundnut processing. The product contains a minimum of 90% protein and can be readily used in many food products like ready mixes, toning of milk, texturised and protein rich food products, protein beverages and bakery products.

Ref No. Org.No. Status Offer Source

805333 274 C J C
LIQUOR DISTILLERY Technology required is for processing of fruit juices into various distillery products at a small scale level. Production scale 50,000 litres/annum.

805334 273 C J C
CONFECTIONERY PRODUCTION The technology required is for production of conventional confectionery products using locally available resources.

805850 161 C J G
INDUSTRIAL STARCH AND GLUCOSE Equipment and plant for production of: industrial starch - 5 tons per day, liquid glucose - 4 tons per day and dextrine - 1 ton per day.

805866 199 C J C
PACKAGING TECHNOLOGY a) for the packaging of salt, b) peanut frying (large scale) and c) bottling of fruit juices and vinegar.

905198 143 F S C
WINE ADDITIVES Manufacturers of a new wine seek suitable chemical additives and their administration to the raw wine as filtering aids to enable pure clear sediment free wine filtration and design structure economical system for filtration without losing natural flavour.

905200 141 C J C
FRUIT CONCENTRATES Equipment for processing of assorted fruits ie passion fruit, pineapples into fruit concentrates for export.

905204 137 C J P
FOOD CANNING LINE Multi-purpose canning line to handle such products as pineapples, tomatoes, carrots and french beans. Export market already identified.

REQUESTS**CATEGORY 4: FOOD PROCESSING**

Ref No.	Org.No.	Status	Offer	Source	Ref No.	Org.No.	Status	Offer	Source
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905289	202	C	J	C					
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METHOD OF PRODUCING YOGHURT

Technology for the handling of milk for yoghurt manufacture, percentage inoculum, types of starter bacteria, incubation temperatures and mixing with fruit. Ideal packaging material and environment.

905344	263	C	J	C					
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ALCOHOL/SPIRITS PROCESSING from

food grains.

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(Addresses for Correspondence given in Directory)

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**INTERMEDIATE TECHNOLOGY DEVELOPMENT GROUP
FOOD PROCESSING TECHNICAL BRIEFS**

The following technical briefs are designed to answer specific technical enquiries regarding the processing of the subject items or to give advice on quality and hygienic aspects of food processing facilities. Single copies of any individual technical brief can be provided free of charge from:

Technical Enquiry Unit, Intermediate Technology, Myson House, Railway Terrace,
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NUMBER	DESCRIPTION	NUMBER	DESCRIPTION
AN/01	Biltong	FR/03	Papain
CA/01	Canning	FR/05	Lime Processing
DA/02	Yoghurt	FR/07	Fruit Waste Utilization
DA/06	Butter	FR/08	Vegetable Pickles
DR/01	Small Scale Crop Drying	FR/09	Tomato Processing
DR/02	Drying foods	FR/10	Nas Naran
DR/03	Spice	FR/11	Lime Juice
DR/03a	Cardamom	FR/12	Papaya Pickle
DR/03b	Chillie	FR/13	Water Melon
DR/03c	Pepper	FR/14	Mixed Fruit Juice
DR/03d	Cumin	FR/15	Passion Fruit Juice
DR/03e	Clove	FR/16	Strawberry Jam
DR/03f	Coriander	FR/17	Passion Fruit Jam
DR/03g	Coffee	FR/18	Pineapple Jam
DR/03h	Turmeric	FR/19	Cold Storage of Fruit & Vegetables
DR/03i	Nutmeg & Mace	NU/01	Peanut Butter
DR/03j	Cinnamon	OE/01	Oil Extraction
DR/03k	Essential Oils	OE/02	Soap
DR/04	Fruit Leathers	PA/01	Liquids (Packaging)
DR/09	Apricot Drying	PA/02	Solids (Packaging)
DR/10	Local Construction of Tray Drier Cabinets	PA/03	Packaging Materials
FA/01	Design & Construction of a Building for FP	PA/04	Washing and Steam Sterilising of Bottles
FA/02	Water Supplies and Sanitation	PA/05	Low Cost Bottle Cooling System
FA/03	Hygienic Design of Food Processing Equipment and Facilities	QC/01	Quality Control in FP Business
FR/01	Fruit Juice	SU/01	Honey Processing
FR/02	Jam and Marmalade Production	M1/01	Food Poisoning and its Prevention
		SW/01	Marshmallow Production

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