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TECHINART INDIA'92 for SIVIES

17-20 November 1992, New Delhi

CATALOGUE OF TECHNOLOGY OPPORTUNITIES FOR MANUFACTURING INDUSTRY

Industrial and Technological Information Bank of UNIDO and National Small Industries Corporation Ltd., India in cooperation with Technology Exchange, United Kingdom of Great Britain and Northern Ireland

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INTRODUCTION

This Catalogue has been prepared by The Technology Exchange Ltd from technology offers and requests submitted to them either directly, or to The Industrial and Technological Information Bank of UNIDO and by The National Small Industries Corporation Ltd of India.

The Catalogue of technology opportunities for manufacturing industry is not simply a guide to the Techmart India '92 Fair in New Delhi, although many of the organizations who have submitted items for it will be attending the 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 <u>only</u> 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 a 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.

For new developments which are subject to patent application, before any confidential technical information is sent out by the source to any person or organization, they may require you to sign a confidentiality agreement.

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Techmart India '92 is the third in a series of UNIDO Techmart or Technology Transfer Fairs. The preceding events were held in Beijing, China in December 1991 and Bulawayo, Zimbabwe in September 1992. Further Techmart events are being planned for 1993 and you are invited to submit your own offers and requests for technology for publication in the next edition of the Techmart catalogue.

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Each offer or request should be appropriate to the needs of a developing country and should relate to a specific product or process. General offers of services or consultancy will not be accepted.

HOW TO USE THIS CATALOGUE

A For organizations seeking technology.

If your search for technology is for a specific item please refer to the key word index towards the rear of the catalogue. This index will refer you to the particular section or page of the catalogue in which the item concerned appears. But please note that the offers which you are seeking will be in the front section of the catalogue since the key words will also refer you to requests which are in the following section of the catalogue.

If you are interested in all technology offers in a particular category then we recommend that you read through the whole section which most nearly corresponds to your field of interest, e.g. chemical engineering, light industry, computers etc.

When you have found the item which you require make a note of the catalogue reference number of the title and the offer and look up the organization number in the directory section of the catalogue. This will give you all the contact details which have been supplied to us by the source of technology when preparing the catalogue. If your enquiry must be directed to an intermediary organization then the first two digits of the organization will give you their address and contact details but you must also give them the name of the organization who provided the offer and this is indicated by the second two digits and they are listed by name only under the intermediary organization in the directory section.

B If you are offering technology:

To find the organizations who are seeking the technology which you are offering use

the key word index to identify the requests in the second section of the catalogue and follow the above procedure to locate the contact details of the requesting organization in the directory section of the catalogue.

It is recommended that all enquiries made should seek a full description of the technology being offered or requested. If you are responding to a technology request please give full details of the technology projects which you are offering and where possible include a brochure describing your own activities or product range.

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In many cases both offers and requests involve the purchase and installation of equipment, training and technical assistance.

The stage of development will give you an indication of the further work and investment required for the product or process to be brought to full commercialisation. If you have research and development facilities you may be prepared to consider an offer which is at patent or laboratory model stage only but if you are wishing to commence production immediately or establish new turn key industry you will be seeking offers which are in current production (code F) or which are fully commercialised (code C).

If you are seeking a partner who is willing to share in the risks of the new venture then you will be looking for items which have the code letter J under 'offer' which means joint venture but if you are willing to buy the rights outright or under a licence agreement you will be seeking offers coded L or S.

Neither UNIDO, National Small Industries Corporation Ltd, nor The Technology Exchange Limited can accept any responsibility for any misunderstandings or loss incurred as a result of using this catalogue and it is recommended that you take steps to verify any information provided to you by any of the organizations offering or requesting technology.

EXPLANATION OF CODING SYSTEM

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

Ref .No. Org. No. Cat Status Offer

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".

Cat:Indicates the industrial category as explained in the introduction.

eg. 1. Chemical Engineering

2. Light Industry

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	С

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	С
Educational Institution	U
Independent Research Organisation	R
Government Research	G
Private Individual	P

Ref. No. Org.No. Status Offer Source
1009 210 C L C
TOILET CLEANERS Processes and
formulations available for manufacture of both
liquid and powder.

1036 396 C L G
COATED COMPLEX FERTILIZER the
product is a kind of particle fertilizer with many
kinds of trace elements besides nitrogen,
phosphorus, patassium needed by crops. it is an
ideal agriculture fertilizer with increasing the
output by 10-25% than the single nutrient
fertilizer. The product is widely used at home
and exported to Southeast Asia

1045 396 C L R
LOW HYDRATED ZINC BORATE FOR
FLAME RESISTANCE The product is a heat
resisting, stable and non-poisonous flame
resistant agent. It is widely used in fire retarding
treatment of resins, fibres, rubber products,
electrical equipment, insulating materials, shell
of electronic product, automobile spares, wall
materials, wires and cables etc.

C 1206 247 G L COBALT-PLATED MAGNETIC POWDER It is the first time that FE201 the cobalt-plated magnetic powder has been mainly made from a -FeooH particle. In the course of preparation the special additive and new techniques have been used. The thermal stability of the product has been improved and the magnetic property and surface performance are excellent. Meanwhile diverse technical targets are better than that of other domestic products of the same magnetic type, compared favourably with Pferric-0070 made in USA. After tape plants use the product, they all show that its dispersion, polish and spotlessness are of high quality.

Ref No. Org.No. Status Offer Source

1215 165 F/C L/S C

CHEMICAL GROUT is used for reducing leakage in water bearing strata eg tunnels, dams, reservoirs and other water bearing structures.

1218 165 F/C L/S C
CAN LINING COMPOUND based on synthetic rubber latex. The lining compound, which is applied to the peripheral channel of the top and bottom ends of the can after drying is mechanically interlocked with the flange of cyldrical can body.

1221 165 F/C L/S C
TERT-BUTYL CATECHOL is used as a stabiliser of polymerisation inhibitor in the synthetic rubber industry.

1227 165 F/C L/S C
PITCH COKE FROM COAL TAR HARD
PITCH Pitch coke made by distilling coal tar
has a high carbon content, above 99% with a low
sulphur content and the ash is suitable for the
manufacture of carbon electrode. These
electrodes are found to be superior to the
petroleum coke based type.

1230 165 F/C L/S C
CASTOR STEARIN AND STEARIC ACID
FROM CASTOR OIL It is being used in industries like rubber compounding greases, cosmetics, textiles etc.

1236 165 F/C L/S C
PLATINISED TITANIUM ANODES The
platinised titanium anodes find application in
electrochemical cells for electrodeposition,
preparation of inorganic chemicals such as
hypothalites, halates and persalts and for
electrolytic oxidation of reduction reactions.

1

Ref. No. Org.No. Status Offer Source 1242 165 F/C L/S C DIMETHYL PHTHALATE AND DIETHYL PHTHALATE (DMP & DEP) DMP and DEP are used as plasticisers.

1293 372 S G WASTELESS SALT MINE WATER UTILISATION TECHNOLOGY and plant development are appointed to utilise salt mine water with concentration more than 70g/cu dm and to wasteless mother liquor utilisation from the basic salt mine water utilisation plant. The process is based on thermal distillation and selective crystallisation of sodium chloride / purity-99, 6%/, calcium sulphate /as a waste/, and depends on the chemical composition of the mother liquor, technical magnesium chloride, carnallite a. other salts obtained.

1327 379 P S C FLUE GAS DESULPHURISATION

1354 400 U U **ZIRCONIA TECHNOLOGY OF** NANOPOWDERS Zirconia nanopowders with no limitations for the alloying components can be produced by our technology based on coprecipitation technique under controlled conditions. The powders are composed of extremely soft agglomerates. That is why they can be used for sintering both, fully - as well as partially (TZP) stabilized zirconia. Another application of the powders is toughening of different materials.

1361 396 C S/J C
BUTADIENE EXTRACTION PROCESS
This processing dimethyl formamide (DMF) as solvent can be used to recover high purity butadiene from mixed C4 stream. Flexible to raw material, high purity product, low energy consumption, operation continuously and safely with long running life.

Ref No. Org.No. Status Offer Source 1390 39ó C ENALAPRIL MALEATE The product is a 1 anti-hypertension drug developed in the 1980's. It is a long acting angiotension converting inhibitor for oral administration. It is indicated for the treatment of hypertension and as adjunctive therapy in the management of heart failure. Enalapril maleate is a white crystal or crystalline powder, the peak serum concentrations of enalapril occur within about one hour.

1409 396 C L R
DOUBLE LAYER BED CATALYSTS FOR
THE MANUFACTURING OF PHTHALIC
ANHYDRIDE The products are used for the
processing of the oxidation of oxylene by the air
to phthalic anhydride. The preparation of the
catalysts is simple and the raw material is cheap
and easily available. The manufacturing process
is stable and operated easily.

1436 396 G **ONE-STEP PROCESS** FOR PREPARATION OF FATTY NITRILES FROM FAT AND OILS A new technique cannot only use purified natural fat and oil, but also neutral deteriorated fat and oil as raw materials. Therefore, the natural resources of oil and fat can be fully and rationally utilised. The advantages of the new tehcnique are as follows: simple technique; little investment; high benefit; and no (low) corrosion. The yield and the quality of product in the intermediate test arrive at or approach to the recent advanced level of the same technique in the world

1503 35 F C
MARGARINE, HARD SOAP AND
POWDERED DETERGENT (BULK AND
PACKETED)

Ref No.

Ref. No. Org.No. Status Offer Source

TECHNOLOGY FOR PRODUCING MYCOPROTEIN The technology for producing mycoprotein by directly fermentating corn bagasses and corn light yellow liquid with microbes without enzymatic or acidic hydrolysis. The technology features a short processing time with low costs and high returns. The product is non toxic and good for poultry and domestic animals.

1581 79 C L C
LEAD CHROMATE PIGMENTS for paints, ink, plastic and rubber compounding.
Manufactured from lead and sodium bichromate.
Beautiful shades are developed from basic chemicals.

1658 106 C L/S/J G
PRODUCING STERILE AIR Use of new filtering materials for cleaning used air during the bisynthesis of various preparations. The new filtering materials, ie the anti-microbe visciousfiltering material and bazalt paper are inflammable, non toxic, explosion proof and non radioactive.

1672 106 W L/S/J G WEAR RESISTANT COMPOSITE MATERIALS on high melting mix of titanium. Compositions of wear resistant materials on carbide, carbonitrid, titanium boride with metal connections (ferrum and nickel alloys). Articles from the metals are made by method of powder metallurgy by press fitting, slip casting with further baking and hot pressing.

1736 106 C L/S/J G
DRYING OF MATERIALS in spouting layer.
Drying of fine dispersal highly moist materials in circulat spouting jets of a heat carrier operating in the oscillation mode. For chemical, chemico-

Org.No. Status Offer Source

in the oscillation mode. For chemical, chemicopharmaceutical, food industry, construction material industry. High drying speed, low metal and energy consumption, high quality of materials.

1804 140 F L C
FORMIC ACID MANUFACTURE from carbon monoxide (CO), caustic soda and sulphuric acid. Used principally in rubber plantation, leather tanning, pharmaceuticals etc. Suited for medium scale production. Toxic, Atmospheric pollutant carbon monoxide converted into value added product. CO 25-45% can be used. Low pressure process (8 kg/sq cm).

1808 143 C L C
LIQUID DETERGENT MANUFACTURE
For textiles, hospitals, laundries, hotels and household. Possesses excellent wetting properties in soft and hard water over a wide range of temperature and PH. It is an ideal wetting and scouring agent for cellulosic and synthetic fibres.
Standard capacity 400 ton per year.

1809 143 J C
SULPHONIC ACID SULPHONATION
UNIT For detergent and soap industries.
Capacity of 5 tons per hour. From linear alkyl benzene (LAB). Turnover: N 100,000.

Ref. No. Org.No. Status Offer Source G 1814 146 STRAIN OF BACILLUS AMYLO-LIQUEFACIENS 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.

1815 146 L G
RIBROFLAVIN (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.

1817 i46 L G
THE STRAIN PENCILLIUM 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 (hydrolise of ONFG, 30 degrees
C) or 130-160 units per ml (hydrolise of ONFG
37 degrees C). 62-68 units (hydrolise of lactose
30 degrees C). The strain isn't pathogenic.

1828 160 F S C
PRODUCTION OF HYDRATED LIME from lime stone.

1829 161 F S C
PLASTER OF PARIS PRODUCTION
Development of processing method for gypsum into plaster of paris.

Ref No. Org.No. Status Offer Source

1834 165 C C

TANNING OF HIDES It is used in shoe manufacturing and other leather goods manufacturing. Raw materials: sulphate acid, sodium sulphate, oxalic acid, detergent etc. Covered area: 1500 sq mt. Production capacity: 6000 hides.

1835 165 C C
STARCH FROM TAMARIND SEEDS It is used in textile industries and industries making starch based adhesives. Raw materials: tamarind seeds, chemicals. Covered area: 400 sq mt. Production capacity: 30 metric tons/month.

1909 210 C L C
MANUFACTURE OF TOOTHPASTE
Process and formulation available.

1982 247 S G **PROCESS FOR** ONE-STEP PREPARATION OF FATTY NITRILES FROM FAT AND OILS This new technique can not only use purified natural fat and oil, but also neutral deteriorated fat and oil as raw materials. Therefore, the natural resources of oil and fat can be fully and rationally utilised. The advantages of the new technique are as foliows: simple technique; little investment; high benefit; and no (low) corrosion. The yield and the quality of product in the intermediate test arrive at or approach to the recent advanced level of the same technique in the world.

4

Ref. No. Org.No. Status Offer Source 2103 302 LJ ANTI-OXIDIZABLE SN-PB SOLDER In the molten condition, the surface of this solder can be kept oxide free for a long time. Under the conditions of dip-soldering and simulating wavesoldering, the drossing weight of the solder is about one-third of the common HLSNPB 39 solder or H63A solder (made in Japan). Its ability to withstand water is 20% larger than the common solder. The expense of soldering can obviously be reduced in using the anti-oxidizable solder. It causes no smoke, no smell, no poison when using.

305 2106 C L/J C **ACTIVE CARBON TECHNOLOGY Raw** materials: white coal, pitch, coal tar. Investment in the construction of a new factory with a 150 tonnes. Production: RMB 150,000-170,000 yuan. Factory building area: only 200 sq m. The factory will be responsible for supplying a complete set of technological data and can offer helps in the construction of new factory and training of personnel and in the purchase of equipments as well as raw materials. Transfer fee: RMB 70,000 yuan.

2154 165 F/C L/S C
ACID INHIBITOR FOR PICKLING This
can be used both in hydrochloric acid and
sulphuric acid and for a number of metals like
Fe, steel, Zn and Al.

2160 165 F/C L/S C
ELECTROCHEMICAL MARKING OF
METALS A know-how for the electrochemical
marking of metals so that metal articles can be
marked for the purpose of identification,
certificate of quality and for advertisement.

Ref No. Org.No. Status Offer Source
2163 165 F/C L/S C
LOW CHROMATE CORROSION
INHIBITOR for cooling water. It has been the
particle of employ chromates at very high
concentrations of 300-500 ppm for effecting of
corrosion in cooling water.

2172 165 F/C L/S C SUCCINIC ACID is used in the synthesis of the pharmaceutical viz; succinyl sulphathiazole, rhodamines and is also used as an important intermediate for the synthesis of a wide variety of organic compounds.

2181 165 F/C L/S C
POTASSIUM SILICATE is required in the manufacture of electrodes and as a binder, adhesive filler and coating in the manufacture of TV tubes.

2196 165 F/C L/S C CHEMICAL LIGHT STICKS The device could be effectively used in distress signalling at night and working light for miners and also for decorative lighting.

2234 C 209 LJ C POWDER COATING PRODUCTION Epoxy polyester coating, polyester coating, epoxy coating, powder coating for facades - polyester based. Its main uses are in metal furniture (interior/exterior), household appliances, tools, transformers, automobile parts, agricultural equipment, metal facades, profiles, pipelines, shelving, lighting equipment, bicycles. Advantages include: better chemical resistance, climatic conditions, best for outdoor use as well as indoor.

Ref. No. Org.No. Status Offer Source

2288 319.03 L

TECHNOLOGY OF DISTILLATION AND

ABSORPITON USED NEW CORRUGATED

PACKINGS Distillation and absorption are one of the most importan unit operation in the chemical, refining, petrochem, chemical fertiliser and other industries. It can increase the throughput and product quality, save energy, further to result in excellent economic benefits.

2338 395 P L TRIAZINE **NETWORKS** WITH HOMOGENEOUS AND ORIENTED STRUCTURES A method has been developed to produce a highly oriented, triazine superstructural network whose structural alignment is magnetically induced in the liquid crystalline phase during the curing process of its liquid crystalline cyanate ester precursor. This results in material with very high mechanical strength (eg high tensile strength and elongation). The resulting dicyanates show liquid crystalline behaviour, have a nematic mesophase.

101008 199 W L/J C
SYNTHETIC RESINS Technology and equipment offered to manufacture alkyds, unsaturated polyesters, UF and PF glues, PVA, impregnating varnishes.

101026 395 P L U
LATTICE MATCHED MATERIAL ON
SILICON WITH DIRECT BAND GAP
QUANTUM WELL A semi-conductor structure
for use in forming optical devices, such as lasers
and LED's. The structure includes a silicon base
on which is formed by epitaxial growth, a
crystalline material (such as AlGaP) that is
nearly lattice matched to silicon.

Ref No. Org.No. Status Offer Source C 101035 396 L THE SYNTHESIS OF POLYESTER RESIN the product has been widely used in raw materials of preparing pure polyester and polyester-epoxy powder coating with its excellent weatherproof feature. The method of emulsion polymerization may overcome the defects from normal technique. Before the synthesis the reaction mixture are first emulsified then neopentyl glycol and terephthalic acid are undertaken condensation polymerization in the present of catalysts. An excellent polyester resin is obtained by controlling of softening point, viscosity and acid value

101062 396 C L/J C
CYANURIC AMMONIA The product is
manufactured by fluidised technology under dry
ordinary pressure. It can be applied in plastic,
coating material, woodworking, paper making
and textile printing etc.

101104 395 L U
SYNTHESIS OF TITANIUM NITRIDE
FILMS Titanium nitride (TiN) is extremely
hard, abrasion and corrosion resistant, has a
high melting point (approx 3000 degrees C) and
good electrical conductivity. This invention
produces TiN films of high purity by nitridation
of sol-gel titania films at 900 degrees C. This
expands potential applications of TiN films.

101109 395 L U
CONVERSION OF METHANE Computer modelling has been used to develop a method of converting methane to higher hydrocarbons, homogeneously in gas phase. This process can generate increased product; a favourable economic gain of approximately a factor of four can be achieved. No costly catalyst is required. This conversion can be induced in the simplest type of hot tube flow reactor.

Ref. No. Org.No. Status Offer Source

101118 395 L U

DELIVERY OF COMPOSITIONS TO THE

OCULAR TISSUES A method has been developed to administer medications to ocular tissues without the attendant side effects frequently encountered and with a minimum amount of trauma. Medication can be injected at pre-determined intervals until a steady state of the desired therapeutic level is obtained.

101145 393 W L U
POLYMER PRECURSORS suitable for RIM
and RRIM. Chemical route from non oil-based
starting materials to precursors which are
especially attractive for industrial processes
such as casting, low pressure dispensing, RIM
and RRIM technology based on difunctional
furan derogates.

101199 186 C L/J C
ANTISEPTIC TECHNOLOGY FOR
CIGARETTES is a kind of compound reacted
physically and chemically by several kinds of
organic acid and a family of annular low
polymeric carbohydrate connected in the way of
—1 4 carbon atoms. It is mainly used for storing
cigarettes and projecting cigarettes from mould.
Meanwhile, it can also be used in protecting
crops and foodstuff from mould.

101224 165 F/C L/S C ZINC OXIDE FROM ZINC WASTE Zinc oxide is used in rubber, paint, pharmaceutical and ceramic industries and the zinc metal is used in galvanising industry.

101233 165 F/C L/S C SURGICAL GRADE PLASTER OF PARIS is used in orthopaedic department for fractures etc.

Ref No. Org.No. Status Offer Source
101239 165 F/C L/S C
CALCIUM CHROMATE/IRON OXIDE
PRIMER can be used on all types of steel
structures such as bridges, towers, tanks and
girders. The advantages of using calcium
chromate iron oxide primer are: 1) it gives twice
the life of zince chromate red oxide primer 2) the
performance is quite comparable with the costlier
zinc chromate primer.

101363 396 C L C
ABS/TIO2 PORCELAIN WHITE MASTER
BATCH The ABS/TiO2 master batch with
TiO2 content above 40% is made from ABS
resin and titanium dioxide through the processing
of mechanical blending. It is of high TiO2
content, good dispersibility and light shield.
The new treatment method of coupling, blending
and plastifying is applied to the process. The
product is manufactured with mature technique
and excellent quality.

101372 396 C L C
PE ANTIOXIDANT MASTERBATCH The
product is made with PE as base material and
adding antioxidant and dispersion agents, with
a common single screw extruder and one through
extrusion and granulation operation. It has
advantages of less equipment, simple process
and available raw materials.

101566 66 F/C S C
MANUFACTURERS OF PLANT AND
PRODUCTS FOR HORTICULTURE They
have decided to combine their professional
skills to meet the demands of growers, market
gardeners, nurserymen and open space engineers.
They ensure global, consistent solutions of the
highest quality.

101695 106 M L/S/J G DICYANOGEN DIAMIDE from carbamide. Reduction of capital expenses and self cost of dicyanogen diamide.

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Ref. No. Org.No. Status Offer Source

OFFERS

101833 165 C C
CASHEW NUTS SHELL LIQUID (CNSL)
OIL It is used in the manufacturing of paints, insulating varnish, adhesive cement, brake linings, automobile etc. Raw materials: cashew shell. Production capacity: 2.5 MT tonnes. Covered area: 150 sq mt.

101882 188 F J C
SAUSAGE TREE FRUIT EXTRACT
(KIGELIA) A herbal remedy for removing sun
spots from fair skin. Extracted with alcohol,
mixed 50:50 with aqueous cream and presented
in 140 ml containers.

101886 191 U

GASIFIERS The centre has some useful information and practical experience on the use of agricultural waste, noise in running gasifiers.

101917 210 C L C
SOAP MANUFACTURE Both laundry and toilet. Starting from beef tallow, coconut oil or equivalent. Processes are pan boiling, drying, milling and plodding.

102076 228 W L G
AEROBIC DEGRADATION OF VARIOUS
XENOBIOTICS BY BACTERIA Bacterial
strains selected from environment can use various
compounds (phenols, benzoic acid and its nitro, amino- derivatives) as a sole source of carbon
during cultivation in aerobic conditions on the
synthetic mineral salt medium M9 or on
wastewater samples, which contain these
compounds. On our data all these strains are
nonpathogenic; intermediate accumulation in
cultivation media do not occur.

Org.No. Status Offer Source Ref No. C L 371 102127 FEEDING CONCENTRATE OF VITAMIN B 12 The feeding concentrate of vitamin B 12 is obtained by a production process by fermentation of alcohol-yeast production process waste products (post-yeast molasses distillery shop) by thermophilic methanogenic bacteria. Simultaneously produced is biogas, a production process by-product, being used as fuel. The feeding concentrate of vitamin B 12 is intended by enriching the feeds for farm and animals and poultry.

102157 165 F/C L/S C COPPER BOTTOM STAINLESS STEEL Stainless steel vessels because of their corrosion and tarnish resistance properties are widely used and preferred to copper and brass vessels by housewives and hotels.

102166 165 F/C L/S C
PERCHLORATES Sodium perch!orate is used as the starting material for production of other perchlorates. It is also used as an oxidiser in the slurry type of explosives in mines and as an important reagent in analysis.

102169 165 F/C L/S C
POTASSIUM IODATE An electrochemical method for production of potassium iodate which finds application in the manufacture of iodised salts has been developed.

102175 165 F/C L/S C
ZINC SILICATE GREEN PHOSPHOR is
mainly used in green fluorescent tube lighting,
zinc oxide, silica and manganese sulphate. Silica
dishes are the main raw materials.

102178 165 F/C L/S C
RESCALITE is used in self-rescue masks, gas
masks in carbon monoxide atmosphere in mines,
gas plants, chemical plants etc.

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Ref. No. Org.No. Status Offer Source 102184 165 F/C L/S C SODIUM CHLORIDE AR AND IP FROM MARINE SALT The manufacture of analytic reagent grade, and India pharmaceutical grade sodium chloride must involve the quantitative removal of all the impurities from salt.

102187 165 F/C L/S C LOW DENSITY PRECIPITATE SILICA is used in tyres, rubber rollers, pesticides, cosmetics and shoe/chappal industries and also in rubber products like sheets, gaskets etc.

102190 165 F/C L/S C TRICHLOROBENZENE is used as a solvent in the chemical manufacturing industry particularly dyes and intermediates.

102193 165 F/C L/S C CHROMIC OXIDE is used as a lapping medium in ball bearing industry. It is also used in glass, lense etc.

102199 165 F/C L/S C SAPONIN The Saponin have various uses in detergents, shampoos, textile, pharmaceutical and photo film industry.

102202 165 F/C L/S C
FIRE RETARDANT PAINTS Wood is a
building material invariably used in all types of
building, but no treatment is known which will
prevent wood from charring at elevated
temperature.

102209 165 F/C L/S C
RUST PREVENTION COMPOSITION can
be used on phosphate steel structures after
removing rust and scale, to prevent the structures
from rusting before painting.

Ref No. Org.No. Status Offer Source
102211 165 F/C L/S C
ZINC PHOSPHATE PIGMENT AS ANTICORROSIVE PRIMER Zinc phosphate finds
application in the preparation of anti-corrosive
primer.

102218 165 F/C L/S C SYNTHETIC INORGANIC PIGMENT is used as an ingredient in paints. It can also be used in belt polishes.

102220 165 F/C L/S C
HET ACID BASED POLYESTER RESINS
The HET acid based polyester resins are flame retardant/self extinguishing and find applications where low flammability and transparency are required. The characteristics of these resins are the translucency and flame retardancy of these resins are inherent in them; the smoke produced by these resins are less toxic than conventional polyester resin, and the chemical resistance of these resins is superior.

102263 344 C J P
MINERAL CHELATES of amino acids to be used in the field of agriculture, veterinary and fisheries as a yield booster.

102265 343 P S P
SOLVENT FILM CARBONS process.
Resilient honeycomb ink coating on polyester film. Produces high grade typewriter, pencil carbons and ribbons. Outlasts 20 to 100 times and costs 1/3rd of ordinary carbons. Typewriter keys never touch ribbon ink. Project cost US\$ 350,000, technology fee US\$ 20,000 plus 5% royalty. Profit above 60%.

Ref. No. Org.No. Status Offer Source 102290 319.05 C J GK ALLOY FOR DENTAL AMALGAM IN FORMS OF POWDER AND CAPSULES with a special rapid coding technique, using optimum heat treatment and grinding process. The amalgam prepared with GK alloy contains no zinc and no gamma 2 phase. It has high strength, low dimensional change and low static creep. GK alloy is certified by 'American Dental Association'. All properties conform to ISO 1559-1986 and standard of ADA. Chinese patent granted.

102292 319.07 C L
HIGH CALCINED LOW SODA ALUMINAS
(-AL203) High calcined aluminas from aluminahydroxide by using special additive for electrical insulators, substrates, grinding media and wear resistant parts etc.

102299 323 C L/J MANUFACTURING PROCESS FOR **COTTON ABSORBENT** WOOL PRODUCTS FOR MEDICAL AND COSMETIC/DOMESTIC APPLICATIONS A plant for precessing bleached cotton fibres to provide absorbent cotton wool products using, in part, fully reconditioned and modified carding machinery. The offer includes supply, installation and commissioning of plant, training of personnel on site and assistance in sourcing raw materials etc.

102336 396 C L R
2-ETHYLHEXANATE The product is mainly used as paint and printing ink siccative, catalyst in processing unsaturated polyester and polyurethane foam and polymer stabiliser.

Ref No. Org.No. Status Offer Source 201034 396 C L G BINDERS FOR MAGNETIC TAPES The materials are used to manufacture magnetic tape. A series of products have been developed and can be used for manufacturing tapes for different purpose, among them the copolymer of vinyl chloride-vinyl acetate-vinyl alcohol, MB-VAGH, PU=100 and PU 8602 have been put into industrial production at advanced level

201043 396 C L C
DISTILLATE HYDROTREATING
CATALYST The catalyst newly developed has
series products namely 481, 482-3 and FH-5,
they can be widely used in hydrotreating straight
run and secondary processing gasoline, kerosene
and gas oil.

201061 396 C L/J C COATED COMPOUND FERTILISER The product contains rich Nitrogen, phosphates, Potassium and other trace elements. It is suitable for a large variety of crops.

201158 393 C L C
IMMUNO ASSAY TECHNOLOGY A range of convenient biomedical tests can be undertaken using a one-step paired monoclonal antibody sandwich assay format. The detection 'label' can be enzyme, radiosotope fluorescent or particulate material. Possible tests include hormones, drug monitoring, cancer markers, infectious diseases, food bacteria, addictive drug detection etc.

201176 88 C L/J C
SODA ASH AND AMMONIUM CHLORIDE
PRODUCTION The technologies has the
following specialities: high salt utilisation (over
90%), low cost, no environmental pollution.
The quality of the soda ash produced is in
accordance with the China National Standard
GB210-80 and has a worldwide market.

Ref. No. Org.No. Status Offer Source 201185 106 C L/S/J G LOCAL RAWS FOR CONCRETE with plasticiser additives. On the basis of modelling the process arrangement of grains rational and multicomponent mixes under realistic conditions. Required values for reasonable arrangement, consumption and strength of concrete. Controlled condition of treatment and hardening of concrete mixes. Low consumption of concrete, short term thermal and moisture treatment, steamless technology.

201331 385 C/L S J/C RESIN BASED PAPER SIZE using gum resin as raw material. Fragrance, disinfections (Terpineol) and special chemicals (p-Cymene...) based on gum turpentine. Technology for Pormaldehyde, Urea, Melamine - resins for wood industry. Raw materials for paint industry (alkyd resins, polyester resins).

201365 396 C C ABS/PVC PLASTIC ALLOY The material is made from ABS resin and PVC resin by blending through an extruder, and it is a kind of polymer material with excellent properties such as: high mechanical strength, high rigidity, good dyeing and processing properties etc. ABS/PVC plastic alloy can substitute for metal, timber and can be widely applied in household electric appliances, building materials, instruments, furniture and various kinds of sheet, pipe, rod and special materials with the method of extruding and vacuum moulding in light industry.

Ref No. Org.No. Status Offer Source 201374 396 C L C REGENERATION OF CATALYST FOR **DEHYDROGENATION OF LONG CHAIN** PARAFFINS The regeneration process is to remove the carbon deposit on the catalyst surface by burning the coated carbon in several steps. A special process is also used to rediffuse the active metal components in catalyst, so that the catalytic property can be restored. After single regeneration, the catalytic activity and selectivity are thoroughly restored to the fresh state. Its stability is superior to the fresh catalyst (UOP DEH-5 dehydrogeneration catalyst) by 30-50%.

201383 396 C J G
LARGE DIAMETER SINGLE CRYSTAL
OF LITHIUM NIOBATE (LN) The material
is an electronic and laser material which was
developed in the 80's. It is used in SAW
technical field, for example, middle frequency
filter for black-white and colour TV sets and
SAW delay in radar.

201392 396 C CHITOSAN Chitosan is a non-toxic biodegradable polymer (polysaccharide) with such side uses as a basic medicative material, food and cosmetic additives, industrial catalyst, flocculant and coagulant, bioactive substance and micro-organisms. It has been widely used in recovery of valuable protenious materials, water purification, food processing and many medical fields. Chitosan and its various derivatives can be prepared into flakes, powder, films and membranes etc to satisfy different requirements.

Ref. No. Org.No. Status Offer Source 201394 396 C G **LASPARTIC ACID (BY FIXED CELL** FERMENTATION) The product produced by fixed cell fermentation is based on the technology of continuous processing with its strains, raw materials and overall equipment utilisation being higher than that of using the traditional batch process. As a result, its process is shorter and more reasonable with improved product quality and better profitability. The adoption of the new technique and technological process will greatly promote the technical advancement of the production of the L-Aspartic acid and other products concerned in the fermentation industry.

201407 396 C J/L R
TETRA-2-ETHYL HEXYL PYROMELLITATE The product is mainly used in
the production of hyper-F level (heat resistance
150 degrees C) cable material as heat resistant
plasticiser. This technique applied non acid
catalyst and omitted neutralisation and water
washing engineering. It does not discharge
sewage. Low production cost.

201452 393 F L C
RHEOLOGY OF EMULSIONS rheametric
measurement, fluid dynamics. Modelling of
flows, process equipment design.

201664 106 W L/S/J G
PLASMA POWDER MATERIAL COATING
to strengthen and restore parts in 700 degrees C.
Self-fluxing alloy based powder materials with
refractory additives are applied by plasma or
other gasometric methods to the working surfaces
of metal parts. The coating is molten and
mechanically treated to a desired thickness and
surface fineness.

201916 210 C L C
GLYCERINE Manufacture of explosive,
pharmaceutical or cosmetic grade glycerine
from spent lye, produced in soap manufacture.

Ref No. Org.No. Status Offer Source 201935 228 L G **USE OF ENTRAPPED BACTERIAL CELLS** for wastewater treatment. Bacterial cells selected previously strains capable of degrade various compounds (surfactants, aromatic, compounds, acrylic acid) are entrapped in natural polysaccharide gels with granulas formation of the one determined shape and high damage resistance. The degradative activity of entrapped cells remains at the same level that free cells of these strains had before immobilisation.

201998 380.01 C L/J C
SYNTHETIC CAMPHOR PRODUCTION
LINE Synthetic camphor is widely used in medicine and in chemical industries, for example cardiotonics, celluloid plasticiser, bullet primer etc. It is also used in the daily life, such as in insect repellent. The product quality coincides with the international pharmacopoeia standards. We will offer a whole set of engineering designs and detailed drawings.

202305 226 C L
EPOXY RESIN COMPOSITIONS Mixing of liquid and solid components epoxy resin, hardeners, curing accelerators, modifiers, fillers etc. The compositions are used as coatings, putties, seamless flooring adhesives, electroinsulating materials, polymer concrete, reinforced plastics and many others.

301024 379 P S C
SULPHUR COMPOUNDS/SULPHURIC
ACID and its derivatives.

301060 396 C J C
PMDA CATALYST Pyromellitic anhydride
(PMDA) is the essential material for
manufacturing polyimide which is widely used
in aviation, astronavigation and electronics.

Ref. No. Org.No. Status Offer Source 301103 395 L U N-ACETYLE GLUTATHIONE Glutathione depletion in cells has been shown to increase a cell's susceptibility to irradiation or certain drugs. Conversely, increased concentrations of cellular GSH may lead to cellular resistance to certain drugs. In this new method, esterified N-acyl GSH monoester is transported intact into the cell.

301108 395 L U
SURFACE MODIFIED POROUS
POLYMER BEADS Polymer beads have been
produced which have specific surface
functionality. The polymer beads produced have
a hydrophobic core with hydrophilic or chiral
surface functionality. The process can be altered
to produce beads of various sizes and shapes.
The porosity can also be altered, depending
upon the end use.

301130 393 W S U
MICROBIAL BIOTRANSFORMATIONS
particularly dehalogenation. Microbially derived
enzymes offer great potential in the breakdown
of pollutants and in the modification of organic
intermediates. Applications may include
production of optically pure organics and
detoxification of liquid waste and solid waste.

301135 393 W L U
OXYGEN ENRICHMENT CATALYSTS
(and processes). A range of chemical products
and applications, including gas absorption and
purification and use for hydrogen storage. Gases
include molecular oxygen, carbon monoxide,
nitric oxide and sulphur dioxide.

Ref No. Org.No. Status Offer Source

301198 228 L G

AEROBIC DEGREDATION OF

XENOBIOTICS BY BACTERIA Bacterial
strains selected from environment can use various
compounds (nonionic surfactants) as a sole
source of carbon during cultivation in aerobic
conditions on the synthetic mineral salt medium
M9 or on wastewater samples, which content
these compounds. On our data all these strains
are non-pathogenic.

301211 324 C L
EPOXY RESINS PLANT product mix includes a range of standard epoxies and one proprietary type. Raw materials, bisphenol A epichlorhydrin, sodium hydroxide, tolune.

301217 165 F/C L/S C BUTYL TITANATE is used in insulating varnishes, fire and rustproof paints. It is also used as catalyst for polymerisation and condensation.

301220 165 F/C L/S C TERPINEOL is an important organic chemical used in perfumery, soaps, cosmetics etc.

301226 165 F/C L/S C
DISTILLATION OF COAL TAR Fractional solvent extraction based process for the distillation of coal tar has been developed. Variety of pitches and pitch coke so obtained, wide usage in electrode and chemical industry.

301235 165 F/C L/S C CHROME LIGNITE is one of the vital drilling mud additives which is extensively and universally used to achieve and maintain desired rheological properties of water based drilling mud at high temperature.

Ref. No. Org.No. Status Offer Source 301292 372 S/I U G COAL SORBENT for removal of sulphur dioxide and nitrogen oxides from flue gases. The technology of coal sorbent production with high utilisation quality designed for SO2 and NOx removal from flue gases has been elaborated. Hard coal was used as a raw material and coke tar as a binder for the formation of granules under high pressure. According to the degree of the activation of granules, the sorbent so called 'WET' or 'DRY' is obtained.

301324 379 P S C SODA and its derivatives.

301349 399 C S C BASIC AND DETAILED ENGINEERING know-how, supply of equipment training and technical assistance for plants producing pesticides both as active principles (alachlor, butachlor, dithiocarbamates, fungicides and rubber accelerators, Ametryne, Atrazine, Dimethoate, Linuron, DDT, Dichlorobenzenes, Carbofuran, Endosulfan etc) and formulated products (wettable powders, emulsifiable concentrates, granules, flowables, micronized dusts).

301358 396 S/J C POLYPROPYLENE PRODUCTION OF **BATCH** LIQUID MASS POLYMERISATION The process consists of the section of monomer purification polymerisation, deactivation by flash, remain gas recovering, product pelletising and packing. It has the advantages of simplified process, small area occupied, low capital investment and less production costs, no waste discharged, short period of the project construction.

Ref No. Org.No. Status Offer Source C 301367 396 C L PE/PP ANTI COPPER MASTERBATCH PE, PP anti copper masterbatch is one kind of cylinder granules, in which polyolefins are used as carrier; proper quantity of antioxidant, anti copper agent and dispersant are added. It is extruded through single screw extruder. It can effectively solve the copper ageing problem of PE, PP resin. The index of oxidation induction period is above 30 minutes. It is a better insulation material for manufacturing wire and cable.

301378 396 C L C
GAS OIL HYDRODEWAXING CATALYST
The product, catalyst NDZ-1, is guaranteed for
720 hours of hydrogen activation cycle length,
3700 hours of oxygen regeneration cycle period
and 14800 hours of life. The long chain normal
paraffins can be selectively cracked into shorter
chain hydrocarbons, so the light products can be
produced from the heavy distillates. With the
isomerisation property, the catalyst can be used
to produce gasoline with MON over 80 and
diesel fuel with pour point lower than -10 degree
celsius.

301403 396 C L R METAL SEALANT The sealant is designed for sealing porous product of cast and powder metallurgy aiming at improving pressure tightness, the viscosity reaches 14 C.P, surface tension 36.

301477 15 F J P
TICK FEVER VACCINE Protects cattle
against Piroplasmosis and anaplasmosis.

301567 67 F/C S C
MANUFACTURERS OF STORAGE AND
HANDLING EQUIPMENT Specialists in
grain conditioning and engineering. The objective
is to promote the grain storage technology and
to develop co-operation with foreign operators.

Ref. No. Org.No. Status Offer Source 301570 70 F/C S C EXCHANGE OF FOOD PRODUCTS AND AGRICULTURAL TECHNOLOGY Exporting professionals seeking to become partners in the fields of research, engineering, transporters, equipment constructors, agricultural suppliers, public and financing organisations.

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301582 79 C L R
SYNTHETIC IRON OXIDE Different shades of yellow, red and black largely used in paints, wall coatings, flooring, rubber and plastic compounding etc. Process makes use of waste ferrous sulphate/chloride from iron and steel industries and scrap iron. Creation of value added product from wastes.

301588 81 C L/J C
DI CALCIUM PHOSPHATE The essential ingredient required for animal/cattle/poultry feed. It is also used in toothpaste, tooth creams, food and pharmaceutical industry.

301594 83 C S/J C
ACETYLENE BLACK In-house research as an import substitute developed to export the potential for the manufacture of dry batteries. Two decades of experience-geared to supply/instal plant and machinery including technology on turn key basis. Capacities ranging from 500 to 3000 tonnes annually with guaranteed quality as per International Standards.

301691 106 C L/S/J G GLASS CERAMIC COATING of parts from heat resistant materials. The coating may be stripped for re-use of assemblies. The high resistance of the coat is ensured through special technology of surface treatment and metal ageing using non traditional method of control of surface cleanness and coat thickness in difficult to access and easy to access places.

Ref No. Org.No. Status Offer Source 301729 106 C L/S/J G ADHESIVE FOR UHF DEVICES Adhesives for gluing and pressurising parts and assemblies of UHF devices. Ensures the working temperature range between -60 and +150 degrees C, impact and vibrasion resistance up to 10 and air tightness up to 28 MPa after an effect of temperature at 150 degrees C, resistant to temperature variation between -60 and +80 degrees C.

301738 106 M L/S/J G
PURIFICATION OF RUNNING WATERS
and electroplating waste solutions. A closed
system of water consumption and branching of
electroplating. There is a scheme for processing
the running waters which makes it possible to
utilise valuable components in the waters,
regenerate the solutions from degreasing and
pickling baths. Prevents pollution of
environment, recovers valuable components.

301792 133 C S/L G
SOAPMAKING EQUIPMENT The invention is concerned with the design and manufacture of a complete equipment package for small scale industrial processing of soap base. The component items are the reactor, alkali tank, cutting table, soap trays, stamping machine.

302153 165 F/C L/S C
FIRST-AID CHEMICAL FOAM
EXTINGUISHER designed for upright
operation which is not available in India. The
advantage of having a first-aid chemical foam
extinguisher capable of upright operation is
obvious.

302162 165 F/C L/S C
HIGH TEMPERATURE MANGANESE
PHOSPHATING Manganese phosphate coating
is ideal for moving parts such as cam shafts,
gears and piston rings, to give maximum
protection against wear.

Ref. No. Org.No. Status Offer Source 302204 165 F/C L/S C PREVENTION OF CORROSION COOLING WATER SYSTEM The inhibitor is useful for control of corrosion in cooling water systems.

302206 165 F/C L/S C
PAINT STRIPPER is used for removing old
paint (stoved enamel rubber paints, bituminous
and coal tar based paints).

302213 165 F/C L/S C
ALUMINA CERAMICS are used for grinding media, kiln furniture, ignition boat, tubes and rods, laboratory wares, cylindrical pins (insulating), thermostat switches, crucibles, spark plugs, flow controller (oil drilling), wire drawing nozzles, TIG nozzles chemical slurry nozzles, friction rings etc.

302215 165 F/C L/S C
MICA BASED TEXTURED COATING Mica
based textured coatings are used for protection
and decoration of most exterior surfaces. It is
ideal for metal, concrete masonry and wood
surfaces and can be used for buildings, hotels,
schools etc.

302294 323 M L
DIAGNOSTIC TESTS FOR
TUBERCULOSIS PATIENTS and knowhow are available for three gene probes and
monoclonal antibodies which have been isolated
for the rapid detection of TB.

Ref No. Org.No. Status Offer Source

302296 322

AN ECOLOGICALLY CLEAN REAGENT FREE WATER TREATMENT PLANT The plant incorporates a row of contact and contactless heat and mass exchange apparatuse consecutively connected down the flow of water, heating the inflowing water to the temperature of 160 degrees C, subsequently softening the water by thermal process, and cooling it to the temperature of 70 degrees. The plant is used to obtain make up water for open heating and hot water supply systems and for thermal softening of feed water in desalinating plants.

401014 165 F/C L/S C
PIGMENT GRADE RED OXIDE OF IRON
Red oxide of iron finds application in paints,
plastics, rubber, ceramic and other industries.

401032 396 C L G
CYANURIC ACID the product is a kind of fine chemical product, which has good heat-resisting, ageing-resisting, and high hardness features etc. It can be applied for plastic, coating, wood processing, paper making, weaving, printing and dyeing industries, and also can be used as a kind of wrinkle-resisting marshalling agent, surface decorating board, amine resin, suppressing plastic powder, paint and fabric

401041 396 C S/J C
ETHYLENE PLANT The plant produces high
purity ethylene and propylene by pyrolysis of
various feedstocks. The plant also produces a
range of co-products including C4s, raw pyrolysis
gasoline hydrogen and fuels. The new type CBL
cracking furnace is used in the plant.

Status Offer Source Ref. No. Org.No. 401050 395 P L U WICK CULTURES FOR AERIAL **DISPERSION OF** BIOLOGICAL CONTROL ORGANISMS When twine (approx 2 mm in diameter) is soaked in a nutrient medium and then innoculated with mycelial fragments and incubated, colonisation of the twine results. When the twine is subjected to a rain event significant conidia are released. If innoculation is made with a biocontrol agent and then arranged in a trellis over any crop that would allow such an arrangement (ie grapes, fruit trees) significant crop protection can be expected. When tested with grapes suppression of powdery mildew was significant.

401175 57 F L G
WELDED BELLOWS It is used in mechanical
engineering, vacuum equipment, chemical
engineering etc. Compressed shift is the free
length of 50%.

401214 165 F/C L/S C
PRECIPITATE SILICA finds its use in the rubber industry, surface coating industry. It is used for the manufacture of paints, inks, varnishes, toothpastes, skin cream etc.

401223 165 F/C L/S C INHIBITOR SUITABLE FOR PICKLING OF STEELS IN HYDROCHLORIC ACID SOLUTION Ferrous metals when formed into steel sheets, plates, bars etc are subjected to high temperatures which resulted in the formation of coating of iron oxide on the meta! surface are removed by acid pickling.

401229 165 F/C L/S C
METHYL ANTHRANILATE AND
ETHYLANTHRANILATE FROM ISATOIC
ANHYDRIDE Methyl anthranilate and ethyl
anthranilate are used in perfumery industry.

Ref No. Org.No. Status Offer Source 401232 165 F/C L/S C HYDRAZINE HYDRATE finds use in the manufacture of INH, in boiler feed water as an antioxidant. It is a raw material for the production of sodium azide.

401238 165 F/C L/S C
ANTI-CORROSION PACKAGING PAPER
The anti-corrosion packaging paper is used for
the prevention of corrosion of all types of
ferrous engineering items such as machine tools,
hardwares machine parts, automobile parts etc.

401241 165 F/C L/S C
DIBUTYL PHTHALATE (DBP) AND
DIOCTYL PHTHALATE (DOP) DBP and
DOP are used as plasticisers in vinyl resins and
other synthetic resins.

401244 165 F/C L/S C
CHEMICAL MILLING PRIMER PAINT
system for aircraft grade aluminium alloys. This
is used for protection of chemically treated
aircraft grade aluminium alloys during chemical
milling operations carried out in alkali bath.
Exposed areas produce smooth contours of
desired dimensions and shape. The system
protects unexposed surfaces during chemical
milling operations and at the end of operation,
facilitates easy peeling of the system.

A COMPLETED SET OF NEW TECHNIQUES FOR SUPER OUTPUT SEED PRODUCTION OF HYBRID RICE To achieve the aim of super output seed production of hybrid rice without cutting leaves, five technical indicators were established. The different cultivated methods were used following the various plant developing stage. Those methods are two couple, three big, five reform, applying certain chemicals and without cutting leaves and finally made the plants growth under the direction breeding.

Ref. No. Org.No. Status Offer Source 401333 F L 61 G **AUTOMIX** HIGH **BIOGAS** FERMENTATION Pig manure as raw material, room temperature, automix with no extra energy necessary, quantity and vitality of microbe have doubled and redoubled. The proportion of raw material usage and gas output can be increased by a big margin. The gas output is 0.71-0.94 M3/M3.D on an average, methane content of gas is 61.1%. Gas output of solid material is 0.386-0.397 M/Kg on the output of volatile solid material is 0.487-0.500 M/Kg.

401360 396 C S/J PROCESS AND PLANT DESIGN OF BUTADIENE **PRODUCTION** BY OXIDATIVE DEHYDROGENATION OF **BUTENE** This technology is based on cracking gas C4 or refinery gas C4. Butene is converted to crude butadiene. The butadiene by further extracting separation to the butadiene of polymerisation grade. The B-02 catalyst with non C4 and non-ferro compounds and fixed bed adiabatic reactor developed by China.

401376 396 C L C
HEXANE SOLVENT PRODUCTION
PROCESS AND PLANT DESIGN Hexane
solvent is a general purpose solvent with low
poison, widely used in petrochemical, light and
food industry. Hexane rectification is based on
reformed raffinate oil by continuous rectifying
separation hexane out. The equipment parameters
and process operation are given by process
simulation program based on the material
composition and requirements.

401401 396 C L R
CATALYST FOR THE PREPARATION OF
PMDA Pyromellitic anhydride (PMDA) is the
essential material for manufacturing polyimide
which is used in aviation, astronavigation and
electronics.

Ref No. Org.No. Status Offer Source 401410 396 C L R MANUFACTURING TECHNIQUE OF METHYLENE DIANILINE 4.4-diaminodiphenylmethane is intermediator for organic synthesis. It is used mainly in isocyanate, polyurethane, phyimide, insulating material, adhesive etc.

401421 395 D L U **PRODUCTION** OF **UNIFORM** MACROPOROUS POLYMER BEADS A new process considered to be an improvement over the Ugelstad method for producing macroporous polymer beads yields beads of uniform size and shape ranging in size from 2 to 20 nm. Macroporosity, as measured by solvent regain (cyclohexane or water) varies from 1.2 ml/gm to 1.36 ml/gm. Yields ranged from 75% to 95% of the theoretical.

401439 396 C L G
COATED COMPLEX FERTILIZER the
product is a kind of particle fertilizer with many
kinds of trace elements besides nitrogen,
phosphorus, patassium needed by crops. it is an
ideal agriculture fertilizer with increasing the
output by 10-25% than the single nutrient
fertilizer. The product is widely used at home
and exported to Southeast Asia

401448 393 U L C
H Y D R O M E T A L L U R G I C A L
PURIFICATION PROCESSES (Liquid/liquid
extraction, rare metal purification, ocean bed
nodules) for processing rare earths, copper.
cobalt, nickel, zinc, tungsten, vanadium,
platinum, gold, tantalum, niobium, ocean bed
manganese nodules are processed by liquid/
liquid extraction.

Ref. No. Org.No. Status Offer Source 401484 21 PSR BIO ORGANIC FERTILIZER This is a natural fertilization system, prepared from ecological materials by gestation with concentrates vide accelerated microbial induction. It is then milled and further enriched with builders trace elements and binders. It is dried in rotary dryer, granulated and packaged - mail transfer.

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401633 106 W L/S/J G WATER BORNE WOOD PRESERVATIVE arsenic antiseptic for impregnating posts. Betters the biological resistance of impregnated wood, elevated protective ability of antiseptics.

401642 106 P L/S/J G
PRODUCTION OF TUNGSTEN METAL
POWDERS with a preset physical and
mechanical properties and possibility of their
utilisation in the manufacture of various articles.

401665 106 C L/S/J G
INSULATION OF ABSORBTION OF WEL —
HOLE with viscous and elastic polymer based mixture having regulating properties and whose volume can be further increased by a multiple. Protection against absorbtion of liquids, drilling and overhauling of wells in various conditions.

401696 106 C L/S/J G WALL STONES from loam and slag on concrete and concreteless adhesives. Use of microsilica, fine sands from burning mixes on ordinary concrete solution assy with the utilisation of mixer rolls and press and mould equipment.

Org.No. Status Offer Source Ref No. 401775 123 C C L **PRODUCTION MIBI** 2methoxyisobutylisocyanide with finest quality of the final product without separation of the intermediates, with full regeneration of practically all the solvents, without usage of dangerous substances, low level of production expenses. MIBI - ligand for producing Tc-99m complex for clinical application (cardiology).

401793 133 S/L G
SKIN CREAM FORMULATION from local materials. Technological specifications were established for the production of Nico cream, a cosmetic cream, based on the use of cocoa butter and palm kernel oil for application as a skin protective agent.

401915 210 C L C
SPRAY DRIED DETERGENT POWDER
Process include sulphonation, batch making and spraying.

401987 247 P S G PREPARATION OF PRIMARY AMINES A new process by hydrogenation of nitriles with the A1 DOF ammonia synthesis gas. Aliphatic primary amines is one of fundamental materials of surfactants. It is widely used as a flotation agent, an anti-agglomerating agent of chemical fertilizer, and a transforming agent of rubber. Its derivatives are extensively used as a flexibiliser of textile, an emulsifying agent of asphalt, an organic modified bentonite, an auxiliary of dyeing, a germicidal antiseptic agent in the field of oil and a detergent etc.

Ref. No. Org.No. Status Offer Source

402117 316

ZINC SULPHATE BY HOT PROCESS FROM ZINC ASH AND ZINC METAL Zinc sulphate as a zinc salt is used as a fertilizer which can be directly introduced to the crops. Also used in rayon manufacture, dietary supplement, animal feeds, wood preservative, mordant and anlaytical reagent. Zinc sulphate mono hydrate, which is used as a chemical intermediate for dyestuffs and electroplating, can be produced in the same plant.

402123 327 C S G
TANNERY WASTE WATER TREATMENT
Tannery waste waters are out to mechanical treatment, then to biological and in the end to chemical processing. Main advantages: high level of waste treatment/BOD over 90%, COD over 80%, chromium and sedimentary solids over 98%, sulfides 100%. Excessive activated sludge can be utilised in agriculture.

402129 321 L CHICKEN **METHOD OF** OIL MANUFACTURE FOR PERFUME AND COSMETIC INDUSTRY Method for the manufacture of chicken oil, which is used as a component of a fat base for cosmetic products: nourishing creams, shampoos, soap, make-up cosmetics. The raw material for this product is adipose tissue of broiler chickens, hens or water fowl carcasses. In comparison to the traditional method of animal fat production the offered one reduces 10 times the duration of the technological process, reduces labour costs and power consumption, improves labour conditions.

402156 165 F/C L/S C
ANODISING OF ALUMINIUM AND ITS
ALLOYS is a process of building up the natural
oxide which offers protection to the basis metal
from corrosion.

Ref No. Org.No. Status Offer Source 402159 165 F/C L/S C DIALDEHYDE STARCH finds wide applications in the tanning industry, plywood industry and in the tobacco industry.

402165 165 F/C L/S C
LOW TEMPERATURE ZINC
PHOSPHATING FORMULATION It is used in the treatment of iron and steel surfaces before painting, used in cold drawing operations; it is used as an oil absorption layer to increase the lubricating properties.

402168 165 F/C L/S C POTASSIUM CHLORATE is used in the manufacture of matches.

402171 165 F/C L/S C
SODIUM CHLORATE finds extensive application as a starting material for the production of perchlorates.

402174 165 F/C L/S C
ZINC ALLOY ANODE FOR CATHODIC
PROTECTION The zinc alloy anode can be used in a variety of environments ranging from heat exchangers, water storage tanks, underground structures etc in a variety of shapes to obtain maximum current distribution at minimum weight. These anodes are used with galvanised core steel which can be directly welded onto the structure.

402177 165 F/C L/S C
THICK FILM, CONDUCTOR PASTE
Resistive pastes of various ranges, and conductive
paste which are required in thick film technology
for hybrid micro electronic circuits have been
developed.

402180 165 F/C L/S C
POTASSIUM NITRATE from potash salt and nitric acid. Potassium nitrate is utilised in the manufacture of gun powder and fireworks.

Ref. No. Org.No. Status Offer Source 402183 165 F/C L/S C PRECIPITATED SILICA find applications in textile, printing ink, polishes, varnishes, toothpaste and as a rheological control additive in PVC pastes etc.

402186 165 F/C L/S C ALUMINIUM SILICATE is used as filler material in rubber, paint, paper and toothpaste industries.

402192 165 F/C L/S C ETCHING COMPOSITION SUITABLE FOR ETCHING ON GLASS The composition can also be used for obtaining fine granules giving sharp lines which do not require any filling material for getting contrast when projected.

402198 165 F/C L/S C
POUR POINT DEPRESSANT (FLOW IMPROVER) This is a chemical formulation, which when added to the waxy petroleum crude helps the crude flow better during pipeline transportation over long distances.

402287 319.02 L
THE TECHNOLOGY FOR PRODUCING
CHEMICAL GYPSUM from treating the
waste of phosphoric acid extraction with washing
purification, separation, drying, dewatering.
The quality of product can reach national
architectural gypsum standard GB9776.

402301 326.01 BIOFILTERS The biological treatment of the waste water on the biofilters with plastic packings. For treatment of industrial wastes and municipal wastes. Ref No. Org.No. Status Offer Source
402303 326.01 C L
EQUIPMENT FOR WASTE WATER
AERATION Technology for production of
ceramic diffusers for fine bubble waste water
aeration. The diffuser watt-hour efficiency lies
in the range of 2-3 kg 02 from 1 kWh.

501031 395 U IMPROVED FUSION OF METAL/ CERAMIC BONDS Fusing metal and ceramic materials is important in various technologies including electronic packaging. This invention yields high strength metal/ceramic interfaces by abutting refractory oxide ceramic and a metal, fusing them by heating an using further heating procedures to form a thin layer of solid solution of intermetallic compound at the metal/ceramic interface. The thickness and strength of the layer can be controlled. Materials that can withstand shear forces of over 25 inch-pounds are typically produced.

501040 396 C S/J C NEW **TYPE** (CBL) **ETHYLENE** CRACKING FURNACE CBL cracking furnace possesses the advantages of shortened project schedule, reduced capital requirement, high yields of ethylene, propylene and butadiene, benzene, toluene and xylene. Easy to operate, full flexibility for wide range of feedstocks and flow rates anticipated and a long running life.

501059 396 C J C
H S ANTIOXIDANT 330 The product can be added into polypropylene, polyethylene, polyvinyl chloride rubbers, high temperature-resistant adhesives and the like, so that it greatly increases lifetime of these high polymers. This product is non toxic, non contaminative and low in evaporation in its use. This product has excellent property of antioxidation, so it is used, preferably in cable and food packing.

Ref. No. Org.No. Status Offer Source 501102 395 L U **CLONING** MOLECULAR AND TRANSFORMATION OF CYCLODIENE RESISTANCE An invertebrate GABA receptor has now been cloned which provides a unique ability to manipulate the resistance status of an insect via genetic transformation. In addition, when expressed in Xenopus ooctyes or cell lines, the gene could be used to test the mode of action of new pesticides and drugs, to screen novel compounds and substances and for the biorational design of new insecticides with increased vertebrate safety.

501111 395 L U
PREPARING THIOIMIDAZOLE
INTERMEDIATE FOR THIAZINE
Biologically active thiazine has been synthesised.
One of the key intermediates, termed 3chloroneamphine, has antiviral, antineoplastic
and immune system stimulatory functionality.

501134 393 W L U
BIOMASS LIQUEFACTION to liquid fuels
and chemical feedstocks. Continuous system for
hydrogenation with little or no consumption of
exogenous hydrogen. Uses novel catalyst system
and mild conditions, oil product essentially
sulphur and nitrogen free, high calorific value.

501143 393 W L U
SYNTHESIS OF POLYMERIC POLYOLS
One stage synthesis from poly-hydroxy compounds to give polyols of a molecular weight previously requiring two stage synthesis. Low incidence of by-product formation. Polyols are of low unsaturation and high functionality. Especially useful for RIM and RRIM polyurethanes, paints and coatings.

501326 379 P S C BARIUM AND BORON compounds.

Ref No. Org.No. Status Offer Source 396 C 501398 L R PRODUCTION OF RAPID SET MODIFIED POLYVINYL ACETATE ADHESIVE EMULSION The title adhesive emulsion is characterised by good rapid set ability and used for bonding of fibrous materials eg wood, paper, especially tobacco and their filter with the high speed cigarette machine. It is widely used in industries such as construction, woodworking, packaging, bookbinding, cigarette and pencil.

MONOSACCHARIDE ANALOG BASED GLYCOSIDASE INHIBITORS Glycosidases are enzymes that catalyse the hydrolysis of glycosidic bonds and are essential for the normal growth and development of all organisms and are widely distributed in nature. Certain glycosidase inhibitors have been found to inhibit human immunodeficiency virus (HIV) syncytium formation and virus replication.

501428 395 P L U
HYPERBRANCHED POLYESTER AND
POLYAMIDES High molecular hyperbranched
polyesters and polyamide polyesters have been
produced by a one step process in such a way that
side reactions, ie reverse reactions, isomerisation,
crosslinking etc are avoided. The resulting
polymers have high polarity, low crystallinity
and lower than usual viscosity.

501437 396 C L G
LC-8701 COBALTPLATED MAGNETIC
POWDER the product is mainly made from
FeOOH particles. A special additive and a new
technique was used in the course of preparation.
The product can be used for manufacturing a
medium and high grade video-tape with excellent
magnetic and surface properties

Status Offer Source Ref. No. Org.No. 393 W 501455 L U **PURIFYING** MDH (MALATE **DEHYDROGENASE)** A simple elution technique has been developed for purifying MDH from pig heart mitochondria and a number of mesophilic bacteria. This technique should be applicable to other enzymes eg isocitrate dehydrogenase, glycerol dehydrogenase and generally two substrate enzymes.

501683 106 M L/S/J G
PURIFICATION OF RUNNING WATER
Components for dehydrating deposits of running
water. Preparation of water solutions, dosing
them while mixing into the deposit and holding
the deposit of clay areas. Effective separation of
hard and liquid phases of the deposit that give the
possibility for decantation of the above clay
water, reduction of reagent consumption as
compared to the cation active flocculants
approximately twice.

501692 106 C L/S/J G MANUFACTURE OF FINE DISPERSION HOLES for liquids and gases are made in injectors, jet tubes and flow washers made of conducting materials. The holes made to the technology are made by way of electroerosion treatment with pre-assessment of quality and correction of the treatment condition. The holes are treated to prescribed consumption characteristics by way of hydro-abrasive treatment and active control.

501704 106 P L/S/J G
DETAILED ANALYSIS OF SOILS for
phosphates, potassium. Simplified process of
sample preparation as to the metrological
characteristics.

Ref No. Org.No. Status Offer Source 501731 C L/S/J 106 G PURIFICATION OF WATERS in natural biological purification constructions. Purification of waters in faultries, inhibited localities. agricultural and industrial enterprises with the use of a system of ponds (lagoons) operating in running and contact modes with a certain filling depth and exposition of running water and by introducing into the running liquid of algological complex.

501785 129 M I./J R
WHITE WEATHERPROOF PIGMENT The
raw rubber latex treated with chemicals is mixed
in required proportions with titanium dioxide
powder of the required micron size,
homogenised, filtered and packed for commercial
applications. The product can be used as a highly
useful cheap water resistant paint. Used for
buildings and furniture. Production cost is low
and product highly competitive in today's market.

501914 210 C L C **DETERGENT PASTE** Process and formulation available.

501986 247 C L G THE SYNTHESIS OF POLYESTER RESIN by means of emulsion polymerisation. This new polyester resin has been widely used in the preparation of pure polyester and polyesterepoxy powder coating, because of its excellent weatherproof. The method of emulsion polymerisation may overcome the defects from the normal technique. The processes are: 1) before the synthesis, the reaction mixture are first emulsified, then 2) neopentyl glycol and terephthalic acid are undertaken condensation polymerisation in the presence of catalysts.

Ref. No. Org.No. Status Offer Source 294 C 502088 1/1 G TECHNIQUE FOR EXTRACTING MIXED FATTY ACID AND LECITHIN FROM WASTE OIL FOODS such as cottonseed oil, soybean oil, sunflower oil and rapeseed oil. This technique can be carried out according to buyers requirements, gnerally design capacity is about 1,000 to 10,000 tonnes annually. The price is US\$ 500 per tonne. Product cost is US\$ 200 per tonne, original investment is about US\$ 100,000 according to output of 100 tonnes a month. The offer will provide whole the technique, including design drawings, operation and training of operators it will be available as a turnkey project.

502189 165 F/C L/S C
MEMBRANE TECHNIQUE IN
INDUSTRIAL PROCESSING At present
conventional waste treatment technology (mostly
based on bio chemical reaction) is used in waste
effluent treatment for pollution control without
water recovery and the process is capital intensive
and operational costs very high.

502195 165 F/C L/S C CASTOR OLEIN AND OLEIC ACID FROM CASTOR OIL It is being used in industries like non ionic surfactants, wetting agents, ore flotation carbon paper, stencil paper etc.

502201 165 F/C L/S C CEMENT PAINTS are widely used as decorative and waterproofing exterior coating for sufaces such as cement concrete, cement plaster, asbestos cement sheet, brickworks etc. These paints can be used on interior surfaces.

502208 165 F/C L/S C
RED LEAD OXIDE PRIMER has applications on all steel structures, ie bridges, towers, tanks rail coaches, exposed to atmosphere.

Ref No. Org.No. Status Offer Source 502210 165 F/C L/S C ZINC ETHYL SILICATE PRIMER This primer can be used for the protection of all types of steel structures in marine environments in place of conventional primers like red oxide/zinc chromate, red lead etc which do not give adequate protection and therefore require finishing paints.

502217 165 F/C L/S C
BUTYL OCTYL PHTHALATE (BOP) It is used as plasticiser.

502280 154 C L/J C
N541 MMA MONOMER A new method of using liquefied petroleum gas (LPG) to produce methylmethacrylate (MMA) monomer, which is used in the production of transparent plastics.

502291 319.06 C L
MANUFACTURING TECHNIQUE OF
OXALIC ACID Gas is produced by burning
coke in a furnace, sodium formate is synthesised
from gas and caustic soda under high temperature
and pressure, concentrated and dehydrogenated
into sodium oxalate, acidated into oxalic acid
with sulphuric acid, then refined, crystallised,
separated and dried to produce the end product.

502298 323 C L
A THERMAL/CHEMICAL PROCESS FOR
OIL RECYCLING A licence/joint venture
agreement is offered for the patent and knowhow relating to the process for the reconditioning
of mineral oils (industrial and automotive). The
process removes between 95% and 98% of the
carbon and metallic content at half the cost of the
sulphuric acid process.

Ref. No. Org.No. Status Offer Source 395 P U 502337 L **USE OF ARGINASE TO CONTROL NITRIC** OXIDE FORMATION Nitric oxide, formed in endothelial cells from arginine, is an important component of endothelium derived relaxing factor. When taken up by vascular smooth muscle cells, nitric oxide causes relaxation of those cells with concomitant decrease in vascular resistance and blood pressure. Buy reducing plasma levels of arginine by administration of arginase production of nitric oxide is limited. This effect is potentiated by an arginine antagonist, Ng-amino-arginine.

502339 396 C J/L R
HS ANTIOXIDANT 330 The agent can be added into polypropylene, polyethylene, polyvinyl chloride, synthetic rubber, high temperature resistant adhesive and the like, greatly increasing the useful life of these polymers. The product is non toxic, non contaminative and low evaporable in its use. It is preferably used in cable and food packing materials with excellent property of antioxidation.

601021 372 F S/J G
WASTES DISPOSAL IN COAL MINES
Industrial wastes are stored underground in coal
mines to fill the empty, after mining, places, to
pack cavings and damps in order to avoid fires
and occurrence of so called artificial roof. The
elaborate technology covers preparation and
storage of a duly composed water-ash mixture
and hydraulic transport to the place of destination.

Ref No. Org.No. Status Offer Source 601049 P S 396 A NEW PROCESS FOR PREPARATION OF PRIMARY AMINES aliphatic primary amines, made by hydrogenation of nitriles with the aid of ammonia synthesis gas, is one of fundamental materials of surfactants. It is widely used as a flotation agent in mines, an anti-agglomerating agent of chemical fertilizer, and a transforming agent of rubber. Its derivatives are extensively used as a flexibilizer of textile, an emulsifying agent of asphalt, an organic modified bentonite, an auxiliary of dyeing, a germicidal antiseptic agent in the field of oil, and a detergent etc.,

601058 396 F C **FOR** ZINC BORATE FLAME-RESISTANCE The product is a heat resisting. stable and non-poisonous fiame-resistant. It can be widely used in fire-retarding treatment of resins, fibers, rubber products, electrical equipment, insulating materials, shell of electronic products, automobiles spares, wall materials, wires and cables etc. It is also used in antirust paint.

601094 396 C J C
IN-D TOBACCO BUD INHIBITOR The
product is mainly used in the middle and late
growth period leaf to inhibit the growing of
tobacco bud. The utilisation of the product will
improve the yield and quality of tobacco leaf.
The properties of the product have come up to
the level of the same kind of international
products.

601156 393 F L C
COMPLEX ORGANIC COMPOUNDS
SYNTHESIS for medical research. Compounds
for research largely in the life sciences include
prostaglandins and leukotrienes required for the
study of hypersensitive reactions. Biological
standards and compounds for immunoassay are
also studied.

Ref. No. Org.No. Status Offer Source 601179 106 P L/S/J G HEAT UTILISERS with rotating heating surface for water boilers. The devices are intended for reducing the temperature of combustion product of liquid and gaseous fuels in low power heat generators. Usage of waste heat as the combustion products of gaseous and liquid fuels, heated air.

601183 106 C L/S/J G
FINE GRINDING OF HIGH HARDNESS
MATERIALS in pneumopulse devices. Self
grinding by way of periodic high speed strike at
the dispersion material pick surface. Expansion
of the field of use in hardness, initial grain size,
physical and chemical properties.

601188 106 W L/S/J G
PROTECTION OF CULTURAL PLANTS
from wireworms on the basis of pheromomes.
The technology is based on breaking up the
procedure of spawn of pests.

601225 165 F/C L/S C
BLACK STAMP CANCELLATION INK The ink is used by Post and Telegraph Departments for the cancellation of stamps.

601391 396 C J G
DIAGNOSTIC REAGENTS WITH MCAB
AND CELL PRODUCTS McAb diagnostic
reagents characterised with high sensitivity and
specificity, as one of the most advanced biotech
products, is more and more fascinating. The
immuno-protentiators received from cell culture
vitro have been clinically used. The
determination tech of HBV, HAV Syphillis and
Rubella has reached the level of the 80's.

Ref No. Org.No. Status Offer Source 601417 395 P I. **RECOMBINANT VIRAL VACCINE A new** recombinant viral vaccine has been developed which is effective against feline panleukopenia. This particular vaccine relies upon the formation of a construct incorporating the raccoon poxvirus in combination with a genomic element of the feline panleukopenia virus. Cats vaccinated with this vaccine responded with high antibody titers which levels were not dependent upon route of administration.

601435 395 P L U
DEPOSITION OF TUNGSTEN ON TISI2
An improved process for selective deposition of conductive metals on disilicide encroachment barriers allows the construction of integrated circuit components wherein the metal/disilicide interface is substantially free of oxygen and/or fluorine contamination.

601634 106 W L/S/J G
SUPER PURE HYDROGEN Samples of non
standard process equipment, installation and
devices for obtaining super pure hydrogen.

601705 106 P L/S/J G INCREASE OF FERTILITY OF LIGHT SOILS yield of field in crop rotation. Reduction of scope of chemical treatment of seeding and fuel consumption.

601794 133 C S/L G
PRODUCTION OF ADHESIVES USING
CASSAVA STARCH Cassava starch is precooked in a reactor and treated with appropriate
chemical reagents. The resulting slurry is then
evaporated, allowed to set, dried and finished
into gums, glue or adhesives.

601913 210 C L C
LIQUID DETERGENT Process and
formulation available.

Ref. No. Org.No. Status Offer Source 601985 247 L G BINDERS FOR MAGNETIC TAPE The magnetic tape binder is one of the main materials used to produce magnetic tape. Our institute has already developed a series of products, among which the copolymer of vinyl chloride-vinyl acetate-vinyl alcohol, has been put into industrial production, and used in more than ten domestic magnetic tape plants. The copolymer of vinyl chloride-vinyl acetate-vinyl alcohol allows magnetic powders to disperse well and flow smoothly. After the powder gets onto the film, it has a certain intensity and can be singly used to meet the demands of low grade tape.

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602083 215 C L/J U
UTILISATION OF EXHAUSTED ZEOLITE
containing cracking catalysts. (Exhausted
cracking catalysts) after acid treatment are
(converted) in hydrothermal conditions in (ZSM5) or other (high silica zeolites). Acid solutions
are neutralised and obtained hydroxodes are
used as a rare earth containing matrix for
catalysts used in petrochemical industry:
cracking, aklylation, conversion of methanol to
gasoline etc.

602219 165 F/C L/S C
SYNTHETIC IRON OXIDE (RED &
BLACK) Iron oxide is used as inorganic
pigment. The new process involves the addition
of milk of lime to the solution of ferrous chloride
resulting in the precipitation of ferrous hydroxide.

602273 174 C J C
BASE MINERALS lime based products.

Ref No. Org.No. Status Offer Source 602289 319.04 L
PURE GOSSYPOL AND GOSSYPOL ACETATE These products are prepared after repeat purification and recrystallisation, with high purity and good quality as well as reliability. Both products are good in anti-tumour activity and in the use of male contraceptive medicines. It is possible that these products can cure AIDs disease. Gossypol acetate can cure the intrauterine tumour of woman.

701057 396 C J C
GRAFT NEOPRENE ADHESIVE The
product can be used to bind the plastic substrates
which cannot be bound by general neoprene
adhesives. As the adhesive is especially used for
bonding soft PVC to various synthetic leathers,
it is used as a speciality adhesive for shoe
manufacture. It is also useful in interior decoration
and repair of green house PVC film.

701093 396 C J C
METHYLENE DIANILINE Diaminodiphenylmethane is an intermediator for organic
synthesis. It is mainly used in isocryanate,
polyurethane, polyimide, insulating material,
adhesive etc.

701133 393 W L U
BIOMASS SUPPORT PARTICLES for microbial cell immobilisation. Many fermentations/biological reactions can benefit from microbial cell immobilisation. Biomass support particles provide a simple means of achieving such immobilisation. Several different types of particle have been developed together with a range of reactor systems enabling a wide variety of different species to be effectively immobilised.

701213 165 F/C L/S C GELATIN OPTICAL FILTER These filters are used in instruments like calorimeters, flame photometers etc.

Ref. No. Org.No. Status Offer Source 701216 165 F/C L/S C ADHESIVE FOR STAPLE PINS is used for joining the single metal wire staples on automatic machines.

701219 165 F/C L/S C NECELONE is a new specialty perfumery chemical from longifolene. process consists of isomerisation of longifolene and acylation into accetyl allisolongifolene.

701222 165 F/C L/S C CHLORINE TABLETS are a very useful product for the disinfection of water.

701228 165 F/C L/S C ISATOIC ANHYDRIDE is a versatile organic intermediate useful in the manufacture of several industrially important chemicals related to anthranillic acid.

701231 165 F/C L/S C
DEHYDRATED CASTOR OIL FATTY
ACID This finds extensive application in surface coating industries. They are an excellent source of dionic acids are used in the preparation of dimer acids which are important intermediates for polyimide resins.

701234 165 F/C L/S C B P P S This is a plant growth promoting soil additive.

701237 165 F/C L/S C
DECORATING NICKEL-IRON ALLOY
PLATING with chromium overlays. Nickel
plating is common to the automobile and other
decorative applications. The current escalation
in the price of nickel, necessitates the need for
a viable alternative.

Ref No. Org.No. Status Offer Source
701240 165 F/C L/S C
ZINC SODIUM SILICATE PRIMER Primers
are used for the protection of steel surfaces. The
process developed consists of reacting zinc dust
with sodium silicate and the addition of red lead.

701243 165 F/C L/S C
POLYURETHANE COATING The process
is for the manufacture of shellac polyester
urethane compositions for use in textiles,
waterproofing, adhesives, paints, varnishes and
electrical insulating varnishes.

701294 372 F J G
TECHNOLOGY OF BOLTING OF MINING
WORKINGS 1. Complex investigations on the surrounding rocks properties, by means of pentrometer, 2. Complex designing of bolting support systems, 3. Selection of optimum bolting equipment and materials, 4. Control tests of support work parameters, 5. Approval tests for materials and equipment applied for bolting.

701312 375 C L C
FUEL CATALYST improves combustion performance, removes carbon, wax and gum deposits from the engine and reduces the emission of carbon dioxide and unburnt hydrocarbons. Suitable for all petrol, diesel or oil engines. Local manufacture of housings offered.

701357 401 F L U/P COMPLEX ALUMINA AND CEMENT PRODUCTION by self disintegration. The raw materials used are limestone and alumina bearing components. The mixture is burned out in a rotary kiln. The self disintegration of sinter occurs on cooling giving the powder. This powder is leached. From solution A1/OH/3 and A1 2 03 is produced. From the slime Portland Cement is produced.

Ref. No. Org.No. Status Offer Source 701373 396 C L C TYPE HC-402-2 HOMOGENEOUS CATALYST FOR HYDROGENATION The product is a new kind of catalyst of hydrogenation. It is used for hydrogenation of aromatic hydrocarbon and olefins. It is especially used for the benzene hydrogenation to make cyclohexane as well as for the reaction of the sulpholene hydrogenation to make sulpholane.

701377 396 C L C
PRODUCTION TECHNOLOGY OF CIS-14 POLYBUTADIENE RUBBER Cis-1, 4
polybutadene rubber is obtained by stereo specific
polymerisation of 1,3 butadiene monomer in
solution in the presence of a catalyst and through
coagulating in water, drying, shaping and
packing. The product possesses superior
properties such as high resilience, good abrasion
resistance, better processability, low heat build
up at dynamic load and low gel etc.

701424 395 P L U
CHITINASES ACTIVE AGAINST INSECTS
Chitinases have been isolated from a strain of
Trichoderma harzianum which, when used as an
anti-fungal, significantly reduced spore
germination in both Fusarium and Trichoderma.
Among spores producing germ tubes the average
length was 55-58 um compared to 198 um for
controls. When tested against two insects
(cabbage looper and imported cabbage worm)
larval growth was reduced to 60% of normal.

701433 395 P L U
POLARISATION SELF MODULATION
EFFECT LASERS A self modulated laser
which provides optical pulses in excess of
several hundred MHz without high speed
electronic circuitry. This invention overcomes
the inherent limitation of other semi-conductor
lasers in achieving ultra-high frequency
modulation by avoiding the constraints of
relaxation oscillatory frequency.

Org.No. Status Offer Source Ref No. 701451 W L **FUNCTIONALLY TERMINATED** POLYMERS (terpene derivative, liquid rubbers). Especially useful in production of 'liquid rubbers' for sealants, coating materials, lubricants, elastomers, foams, solid fuel propellants also for reaction injection moulding techniques. Terpenes readily available from non oil-based materials (eg wastes from paper pulp and fruit processing industries, agricultural residues).

701535 57 F L G
PLASMA ENHANCE CHEMICAL
VAPOUR DEPOSITION AMORPHOUS
SILICON SOLAR ENERGY CELL
EQUIPMENT specially designed for
developing the silicon solar energy cell with
small area and high efficiency.

701583 79 C L C
A RANGE OF BLUE AND GREEN
PIGMENTS for various applications. Phthalic
anhydride urez 2nd copper salts are the raw
materials. Used to create these versatile pigments.

701592 82 C J C
PRODUCTION OF FERRO SILICON
including commissioning and stabilisation in arc
smelting furnace and used mainly in steel
production. The versatile furnace design allows
interchangability of product and in the same
furnace different products like calcium carbide,
silico manganese, ferro silicon etc can be
produced by minor parameter adjustment.

701595 83 C S/J C CALCIUM CARBIDE Pioneers with three decades of experience and credibility. Well equipped to supply/instal plant and machinery, including technology on turn key basis. Capacities ranging from 5 MVA to 20 MVA and guaranteed annual production of 9,000 to 36,000 tonnes with quality internationally acceptable.

Ref. No. Org.No. Status Offer Source
701639 106 P L/S/J G
COMPLEX UTILISATION OF BASIC ORE
Thermochemical enrichment of low quality
tangsten, molybdenum, bismuth, silver
concentrates, pyrite containing polymetal ores
and concentrates, combination method of refining

the sinnirites.

701643 106 P L/S/J G
CATALYTIC TREATMENT OF EXHAUST
GASES Basic design and technological data for neutralising in non-standard conditions of exhaust gases from organic admixtures with the employment of mathematical modelling and plenum-circulation installation.

Recommendations for designing the installation operating in a non-standard mode.

701684 106 C L/S/J G
OCCLUDED FERTILIZERS The granules of any fertilizer are coated with a thin film of biological adhesives acting as half-penetrating membranes. The prolongation of effect of the fertilizer depends on the thickness of the film. High harvest of plants, economy of fertilizers, high quality structure of the harvest.

701715 106 M L/S/J G
PROTECTION OF PLANTS B.thuringiensis
and B.spherucus, storage, stabilisation of
insecticide pr. Insecticide activity against
Colorado potato beatle of B.thuringesis and
B.sphericus has been investigated. Use of
biomethod for plant protection.

Ref No. Org.No. Status Offer Source C LIS G 701741 106 FOAM PLASTIC COATING for heat insulation and heat protection. Syntact foam plastic coat by way of spraying of a mix including glass microspheres, demethylsylaxan resin, hardener, thermostabiliser and solvent using pneumatic sprayer and mixer. For aircraft building, ship building and construction, High strength features under a temperature up to 573 degrees by Kelvin.

701796 136 C S/L G
BOVINE PLEUROPNEUMONIA VACCINE
Development of an oil based inactivated
contagious bovine pleuropneumonia vaccine
(SAFL-83). Vaccination of cattle against
pleuropneumonia to achieve immunisation
against the disease.

701903 205 J G
DESALINATION UNITS Assembling of autonomous desalination units and other equipment. For water supply at small human settlements, tourist camps, medical institutions. Capacity: 30 cu m or 50 cu m water per day. Using sea water or mineralised water. Cash minimum: 2.5 million rubles. Cash maximum: 3 million rubles.

701912 210 C L C
DISHWASHING LIQUID DETERGENT
Process and formulation available.

702033 264 F J C
VETERINARY PHARMACEUTICALS
Manufacturing, technology for dewormers,
antibiotics and powders in veterinary
pharmaceuticals. Preparation of syrups to treat
chloroquine resistant malaria in the tropics.
Formulae for human pharmaceuticals.

Ref. No. Org.No. Status Offer Source IJ 294 C 702087 G ABSTRACTING CALCIUM PHYTATE FROM THE WATER IMMERSING MAIZE TO PRODUCE INOSITOL On processing maize for various purposes, the maize should be immersed in water at the beginning. Calcium phytate may be abstracted from the water to produce inositol so as to increase profits. The technique can be introduced to any mill processing 20,000-100,000 tonnes of maize every year. 21 tonnes of inositoi can be obtained from the water immersing 60,000 tonnes of maize. The domestic price for one tonne of inositol is US\$ 55,000 or more. The total required investment for the project to produce inositol from the water immersing 60,000 tonnes of maize a year is US\$ 280,000.

702116 316 C L C
ZINC OXIDE MANUFACTURE using low budget plant. A comprehensive consultancy and know-how is offered on a turnkey basis for the manufacture of zinc oxide by the French process. The unique and cost effective simplified plant is easy to operate and can process both virgin zinc and ingots based on zinc dross. Zinc oxide is used in rubber, ceramics, paint, plating, cosmetics and pharmaceuticals.

702155 165 F/C L/S C
ACID INHIBITOR IN SOLID FORM which can be used for inhibition of corrosion during acid pickling of ferrous items.

702158 165 F/C L/S C CORROSION INHIBITOR FORMULATIONS for cooling water in heat exchange system. The product is the inhibitive formulation based on a non-toxic organic and inorganic compounds, for steel, copper, copper and brass in cooling water system.

Ref No. Org.No. Status Offer Source
702161 165 F/C L/S C
FORMULATION OF SRHS CHROME
SALT (Self Regulation High Speed) chrome
salt can be used for the preparation of a hard
chromium plating bath and also for the
replenishment of its ingredients during use.

702164 165 F/C L/S C LOW NICKEL ROOM TEMPERATURE BRIGHT NICKEL PLATING SALT FORMULATION This special formulation is used for bright nickel plating and has advantages over the conventional Watts' nickel solution and that it operates at a lower concentration of nickel and a lower temperature range, 30-40 degrees C compared to 55-60 degrees C (recommended for bright Watts' bath).

702167 165 F/C L/S C
POTASSIUM AND SODIUM BROMATE is extensively used in hair wave preparation and flour treatment. Sodium bromate is mostly used as a laboratory reagent for analysis.

702170 165 F/C L/S C SOAK CLEANING COMPOUND FOR STEEL CONTAMINATED WITH OIL Soak cleaning compound is used for removing the mineral oils, vegetable oils and greases which are usually applied to ferrous surface for corrosion protection during transit and storage.

702173 165 F/C L/S C
TITANIUM SUBSTRATE INSOLUBLE
ANODE This is prepared by treating titanium
metal suitably and later coating it with electro
catalytic materials of the platinum group metals
viz ruthenium, iridium etc or its oxides or
mixture of oxides of platinum group metals and
valve metals (like Ti, Ta and Zr).

Ref. No. Org.No. Status Offer Source 702182 165 F/C L/S C PRECIPITATE CALCIUM CARBONATE is widely used as filler in paints, and in the paper industry.

702191 165 F/C L/S C
HIGH PURITY MAGNESIA and magnesium
carbonate from low grade magnesite ore. The
products magnesia and basic magnesium
carbonate conform to the specification for the
pharmaceutical and rubber industries.

702197 165 F/C L/S C
SECOND GENERATION ANTI-FOULING
PAINT (SGAF) paint is useful for prevention
of foulding of water structures.

702203 165 F/C L/S C SILICATE BASED WATERPROOFING FORMULATION Cement paints currently in use as protective coatings for plaster are porous in nature and therefore can be considered as a best damp proof.

702205 165 F/C L/S C
LACQUER FOR CORROSION
PREVENTION Lacquer can be used for the
preservation of simple metal assemblies eg
crane shaft, crank-shafts, hand tools etc. It may
also be suitable for the preservation of metal
sotres during strorage and transit.

702212 165 F/C L/S C
ZINC RICH PRIMER in organic medium may find application in the protection of steel structures in marine and industrial environments.

702293 319.08 C L
REPLATING TECHNOLOGY OF
DUPLICATOR SELENIUM DRUM A newly
developed technology for preparing
photosensitive materials and film forming on
selenium drum to recondition selenium drums
of duplicators after replating.

Ref No. Org.No. Status Offer Source 702306 326.04 C L
TANNERY WASTE WATER TREATMENT Waste waters are mechanically treated, then biologically and finally are processed chemically. High level of waste treatment BOD over 90, COD over 80, chromium and sedimentary solids over 98, sulfides 100. Excess of activated sludge can be utilised in agriculture.

801047 396 C L G HIGH TEMPERATURE SEAL ADHESIVE HM-1 the product is used for sealing and jointing high effective air filter in nuclear reactor. By means of sifting a large number of raw materials, we determined the composition of the seal adhesive on the basis of some additives and silastics which prepared by means of blockpolymerization from hydroyl vinyl terminal dimethylsiloxane and low polymer of methyl triethoxysilicone. The main feature of the adhesive are as follows: cured under the condition of normal temperature and pressure, dampnessproof, steamproof, weatherproof, fire resistant, acidproof, alkaline proof, radiation proof.

U 801119 395 L **PROTEIN** WHICH BACTERIAL STIMULATES LIGATION A protein having a molecular weight of approximately 22.8 kDa and the DNA encoding this protein have been isolated. When an expression vector containing the encoding DNA molecule is introduced into a suitable host cell such as E.coli the protein is expressed from the cells. In addition, a method has been developed to ligate separate nucleic acid molecules.

Ref. No. Org.No. Status Offer Source 801182 106 M L/S/J G OF NATURAL AND CLEANING DRAINAGE WATER WITH SORBENTS Production of grain sorbents on a porous base, apparatuses and technology of utilisation of sorbents for cleaning water solutions, sorbents, employment of selective and collective sorbents on the basis of hardly soluble non-organic sorbents.

801375 396 C C L TECHNOLOGY FOR SYNTHESIS OF RUBBER ANTI-AGER IPP The product (4010 NA) is synthesised with 4aminodiphenylamine and acetone as feedstocks by using a continuous process. Owing to the higher catalytic activity and selectivity, the qualified product can be achieved just by using a once through process without any recycling and final treatment. High yield and low consumption as well the stable property are the advantages of the technology.

801395 396 C J G
GLUTAMIC ACID NEOSTRAIN AND
ZYMOTIC COARSE MAIZE PRODUCING
GLUTAMIC ACID Polished white rice or
starch is substituted by coarse maize to produce
glucose and glutamic acid. The adopted neostrain
Ts27-89 can resist high strength biopiolerm and
high temperature (37-40 C). Its metabolism is
active and keeps long and minimises zymotic
cycle by 20%. Fitting in with high strength
glucose ded-batch, cultivation technology can
raise acid quantity and mitotic indexes.

801413 396 C L R
2-ETHYLHEXANATE The product is mainly used as paint and printing ink siccative, catalyst in processing unsaturated polyester and polyurethane foam and polymer stabiliser.

Ref No. Org.No. Status Offer Source 801422 395 P L Ħ INHIBITION OF INTIMAL HYPERPLASIA Fucoidin, isolated from a marine algae, has been found to inhibit smooth muscle cell proliferation, suppressed angioplasty induced hyperplasia and had little, if any, anticoagulant activity. In this respect, fucoidin appears to be a superior treatment to that of heparin which is the accepted treatment to reduce intimal hyperplasia following percutaneous transluminal angioplasty.

801442 396 F J C
POLYVINYL ACETATE ADHESIVE
characterised by good rapid set ability and used
for bonding of fibrous materials eg wood,
paper, especially to tobacco and filters in high
speed cigarette machines. It is widely used in
industries of construction, woodworking,
packaging, bookbinding, cigarette and pencils.

801476 14 F L C
SOIL STABILISING CHEMICALS For application to activate the soil, enabling irreversible agglomeration, when compacted asho density increase substantially. Californian bearing ratio (CBR) of soil improves 3-7 times. Water resistivity improves and arrests surface water pentration and capillary rise. Application to build sub-base and base of roads, highways, in dams, railway embankments, canals, runways, warehouses etc.

801485 21 P S R
PLANT GROWTH STIMULANTS This is a
general purpose growth stimulant for leafy
grains and tuberous plants which when mixed
with peat provides instant change and marked
increase in productivity. A substitute to pure
chemical fertilizer and farm yard manure - mail
transfer.

Ref. No. Org.No. Status Offer Source 801644 106 P L/S/J G CONVECTIVE COOLING SYSTEM FOR GAS TURBINE with limit conditions for heat gas exchange. Three programme complexes: to calculate the distribution of flux speed along turbine profile; to calculate distribution of heat transfer factors from the gas side along turbine profile; to calculate stationary heat intensity state of blades being cooled.

801707 106 P L/S/J G
FERTILISATION SYSTEM FOR FRUIT
AND BERRY CULTURES Low energy
consumption system which rehabilitates the
fertility of soils and elevates the yield of plants.

801911 210 C L C SCOURING POWDER Process and formulation available.

801938 132 U/F/C S P
CHEMICAL MANUFACTURING
Technology transfer and sale of machinery for
the manufacture of chemicals such as ethyl
acetate, magnesium sulphate etc - technical
assistance in plant installation, plant
rehabilitation, modernisation, personnel training
and feasibility studies.

802005 250 C L/J
BARRIER CREAMS Technology for the manufacture of skin protective barrier creams used by industrial workers while handling hazardous chemicals.

802082 216 C L/J C
CLEANING SUBSTANCE FOR SPOTS AND
WASTE OF CONSTRUCTION AND
BUILDING MATERIALS The substance
cleans spots and rests of erection and building
materials and solutions. It does not affect carbon
steels. It acts with a hot water jet stream for 1520 minutes without danger of corrosion.

Ref No. Org.No. Status Offer Source 802128 320 C L
A NEW PESTICIDE 'VINDITAT' A new original pesticide 'Vinditat' created in the USSR is offered under a licence. It is a white crystalline powder with a slight odour, fast soluble in water, with little toxicity for warm-blooded, stable during storage. It is produced with the help of simple technology from raw material available for the industry.

802176 165 F/C L/S C
GLASS ENAMELS/GLASS COLOURS
Glass enamels are used on glass surfaces for
decorative and coloured effects on tableware,
lighting fixtures, permanent marking and
labelling of glass apparatus and beverage bottles.

802179 165 F/C L/S C
HIGH STRENGTH PLASTER OF PARIS
(Alpha plaster) has specific uses in the preparation
of Jigger moulds in the ceramic industry, as
building blocks and partition walls.

802185 165 F/C L/S C
SYNTHETIC CALCIUM SILICATE Fine synthetic calcium silicate finds use as reinforcing filler. The product prepared by a novel process from lime, active silica and aluminium trichloride is uniform in respect of chemical composition.

802188 165 F/C L/S C
SEPARATION OF PROTEIN FRACTION
FROM BLOOD PLASMA Human plasma as such has found a variety of clinical applications.

802194 165 F/C L/S C
METHYL ANTHRANILATE FROM
PHTHALIC ANHYDRIDE Methyl
anthranilate is used in perfumery industry and
also in flavour work especially in synthetic
grape juice.

Ref. No. Org.No. Status Offer Source 802214 165 F/C L/S C LOW LEAD WIREWOUND RESISTORS Vitreous enamels are used for applying an impervious coating on wirewound resistors. The process envisages lesser use of lead oxide which is an imported material.

802241 360 C J
BUTYLATED MELAMINE AND UREA
RESINS Etherification of hexa uritoxy creating
melamine or dimethylolumia. Proposed uses
include: industrial chemicals and baking
chemicals.

802295 323.02 W J
DETECTION OF GAS OR VAPOUR
LEAKAGE from pipelines or storage facilities
given non intrusive on-line detection of leakage
by acoustic monitoring. Using sensor arrays,
the spatial location of the leakage source can be
determined.

802304 326.02 C L
PRODUCTION OF ELTEX TEXTILE
DRESSING Process of manufacturing:
moistening of potato starch with a chemical
solution in the mixer for loose materials, drying
and roasting. No waste products. ELTEX is
insoluble in cold water, after heating water
suspension, it forms a gel with neutral reaction
and high stability.

802340 396 C L/J C
TETRA-2-ETHYL HEXYL
PYROMELLITATE This technique applies
non-acid catalyst and omits neutralisation and
water washing engineering. It does not discharge
sewage and reduces production costs. The product
is mainly used in the production of hyper-F
level (heat resistance 150 C) cable material as
heat resistant plasticiser.

Org.No. Status Offer Source Ref No. 901046 396 C 1/1. HS ANTIOXIDANT 330 The agent can be added into polypropylene, polyethylene, polyvinyl chloride, synthetic rubber, high temperature resistant adhesive and the like, greatly increasing the useful life of these polymers. The product is non toxic, non contaminative and low evaporable in its use. It is preferably used in cable and food packing materials with excellent property of antioxidation.

901055 395 U
FABRICATING SUBMICRON GALLIUM
ARSENIDE ELECTRO-MECHANICAL
STRUCTURES Chemically assisted ion beam etching (CAIBE) is used to make deep vertical structures on a substrate such as single crystal GaAs after which reactive ion etching is used to laterally undercut the structure. The CAIBE process is independent of crystal orientation and produces vertical profiles in the GaAs with mirror finishes of the type compatible with laser devices.

901105 395 L U
BLOCKING INDUCTION OF NITRIC
OXIDE SYNTHESIS It has been discovered that it is possible to inhibit the synthesis of tetrahydrobiopterin in vascular smooth muscle cells thereby selectively inhibiting the induction of nitric oxide synthesis in those cells. Since the over production of nitric oxide is the basis for insensitivity to clinically used pressor agents, this method has significant clinical potential.

901132 393 W L U
THERMOPHILIC LYPOLYTIC
BACTERIA and their lipases. Several highly
thermophilic bacteria have been isolated that
produce lipase extracellularly in reasonable yield.
These isolates and their lipases have potential
for industrial exploitation.

Ref. No. Org.No. Status Offer Source 901323 379 P S C PHOSPHORUS COMPOUNDS/ PHOSPHURIC ACID complex fertilisers.

901325 379 P S C CHROMIUM compounds.

901359 396 C S/J C
BUTADIENE EXTRACTION BY
ACETONITRILE METHOD The technology
is two steps extraction distillation process flow
a mid reboiler of extraction tower to decrease the
ratio of solvent and to save operation cost and
investment. The technology is applicable for
butadiene separation from mixed C4 fraction
with butadiene.

901368 396 C L C **POLYPROPYLENE** 1396D **FOR COMMUNICATION CABLE INSULATION** The product has many outstanding properties such as low specific gravity, high mechanical strength, copper inhibition, thermal-oxidation ageing resistance, good stress cracking resistance, abrasion resistance, low temperature impact strength, good formability, good for high speed extrusion, good dielectrical properties and fine compatibility with petroleum factice etc.

901420 395 P L U
BIOLOGICALLY ACTIVE THIAZINE A
new compound, (5-methilimidazo[4,5,d]-1,2thizin-4(5H)-one, has been isolated from the
sponge neamphius huxleyi which, when tested
against murine leukemia cells, inhibits cell
growth by 50% at an effective dose of less than
10 ugm/ml. The compound has structural
features related to the nucleotide bases of DNA
and RNA which gives it the potential as an anti
viral agent.

Ref No. Org.No. Status Offer Source 901640 106 P L/S/J G PREPARING CONCRETE MIXES Optional dosages and a reasonable procedure of loading the materials into the mixers, the activating mixers and concrete mixers. Better strength, low consumption, short period for heat treatment of concrete.

901676 106 C L/S/J G
POLYURETHANE CKO-OM CONSTRUCTION MATERIAL Polyurethane
aeo-OM is obtained through interaction of
oligoether with diozocyanate with catalising
amount of dimethylaminomethylphenol products
by way of continuous and periodic casting. The
polymer has elevated elasticity, resistant to
multiple deformations and high speed impact
loads, resistant to gasoline and oil temperature
and heat.

901698 106 C L/S/J G CORROSION INHIBITOR The inhibitor is obtained by way of mixing certain wastes of production of caprolactam. Protection of oil well equipment from carbonic acid and hydrogen sulphide corrosion. Low price at effective protective properties and utilisation of production wastes.

901788 131

PESTICIDES PROCESS DETAILS Technical know-how for manufacturing carbofuran technical, propoxur, methyl parathion, fenitrothion, chlora thalonil, decamethrin and bio products. On joint venture. For crop protection.

901789 131 J C
PESTICIDE MANUFACTURE (technical grade) such as quinalphos tech, monocrotophos tech, phosphamidon & DDVP. Used in agriculture, plant protection and household purpose.

Ref. No. Org.No. Status Offer Source 901900 203 W S P PURIFYING EARTH SALTS New process to purifying of any type of earth salt (mine, sebkha etc) which eliminate all insoluble particles such as earth and stones without modifying the original chemical composition. A very bad salt can be used in the process and salt produced is of very good quality. The process is simple and the cost of the production is very low. The salt can be used for all usages (table salt, conservation etc).

901910 210 C L C SHAMPOOS process and formulation available.

901919 213

ASSEMBLY AND WELDING of large constructions for trucks, tractors and farm machinery with the help of welding lines. Welding lines have the modular construction. Universal handling systems used in the lines provide handling, accumulation, installation and removal of items. Welding lines are intended for assembly and welding of large constructions (frames, cabs, screw conveyors etc). Welding lines provide the production flexibility because of their modular construction.

901983 247 C L G THE HIGH TEMPERATURE SEALING ADHESIVE HM-1 is used for sealing and jointing high effective air filters in nuclear reactors. By means of sifting a large number of raw materials, we determined the composition of the seal adhesive on the basis of some additives and silastics which were prepared by means of block polymerisation from hydroyl vinyl terminal dimethylsiloxane and low polymer of methyl phenyl triethoxysilicone. The main feature of the adhesive is as follows: it is cured under the conditions of normal temperatures and pressure, it is steamproof, acidproof, alkalinproof, high temperature proof.

Ref No. Org.No. Status Offer Source 902100 88 C C L/J PRODUCTION OF THE FOOD ADDITIVE AMMONIUM BICARBONATE procedure is simple and the technologies are advanced and rational. The quality of the product is in accordance with the China National Standard GB 1888-80. The ammonium bicarbonate product has white powder crystal, like fine sand, with no caking. It has been sold in over 20 countries and areas. It is mainly used in food industry, also in pharmacy, chemicals and recovery of rare metals. The total price for the technology transfer will be negotiated with interested parties.

902200 165 F/C L/S C
2,4 DIHYDROXY QUINOLINE AND
NICKEL AZO YELLOW 2,4 Dihydroxy
quinoline is a derivative of isatoic anhydride via
methyl anthranilate. It is the intermediate for
organometallic pigment nickel azo yellow.

902207 165 F/C L/S WATER **DISPLACING RUST** PREVENTIVE OIL Pickled or Phosphated mild steel components have to be dried before the application of temporary corrosion preventives. Because of the time lage involved between drying and oiling, the components develop rusting. The water displacing rust preventive oil developed displaces the water from the metals components and forms an oil film on the surface.

Status Offer Source Ref. No. Org.No. F/C L/S 165 902216 SPATTER RESISTANT PAINT While welding, the weld metal spatter falls on the base metal adjacent to the area being welded. These globules of metal stick onto the base metal and have to be ground off. In certain applications, these globules get dislodged due to vibrations and get access into the various piping systems creating operational difficulties. By painting the adjacent area with the spatter resistant paint to welding, the spatter can be easily removed by simple brushing.

902268 343 P S P
PHOTO One step developer. Developer rinse
or fixer baths not required. Coat exposed film
with this viscous developer. Correct development
in 10 minutes. Technology US\$ 500.

L C 323 902297 **TURNKEY** WATER COMPLETE **PRODUCT** AND **PURIFICATION** RECOVERY PLANTS FOR TRADE EFFLUENTS Water purification plant which recover useful products such as protein and oils from the effluent of the food industry. The process can also be applied to pulp and paper, mineral oil, metal plating and tanning industries. Operating costs usually paid by sale of recovered material.

902300 325.01 C L
ACTIVATED CARBON FROM COCONUT
SHELL The coconut shell is fired under controlled carbonisation to become activated carbon. The technical specifications are: carbon - 73%, ash - 1.9%, water - 6-8%, volatile substances - 15-17%.

Ref No. Org.No. Status Offer Source
902302 326.01 C L
BIOLOGICAL WASTE WATER
TREATMENT Combination of three processes
such as the organic contaminants oxidation,
nitrification and denitrification in one equipment.
Technology removes organic and nitrogen
compounds, reduces capital costs as well as
sludge quantity compared with conventional
methods.

The following Project Profiles are available from The National Small Industries Corporation Ltd (NSIC). For more details see the section entitled NSIC Project Profiles at the back of this catalogue.

Acetic Acid **Acid Slurry Activated Carbon** Adhesive based on Vinyl Acetate Adhesive for Leather Aerosol Insecticide Aluminium Casting Aluminium Hydroxide Gel Ammonia Paper; Ferro Prussiate Paper Azo Dyes Basic Dyes (Auramine 'O') Basic Dyes (Methyl Voilet) Cadmium Cyanide Calcium Carbonate Calcium Chloride Calcium Gluconate Cellophane Tape Chemical Porcelain Copper Sulphate Corrugated Fibre Board Detergent Cakes

Ref. No. Org.No. Status Offer Scurce Ref No. Org.No. Status Offer Source

Detergent Powder

Di-Calcium Phosphate

Di-Methyl Sulphate

Dry Distemper

Electroplating Unit

Ferric Alum

Floor Polish

Formic Acid

Foundry of Castings

Guar Gum

Hair Oil

Hydrated Lime

ISO Propyl Xanthate

Lime

Menthol Crystal

Napthelene Powder/Balls

Oil Bound Distemper

Ortho Amino Phenol

Paper to Paper Type Adhesive

Phenyl-Ethyl Alcohol

Phosphoric Acid

Recovery of Silver

Recycling of Waste Oil

Rosin and Turpentine Oil

Rubber Blowing Agent

Sodium Silicate

Sodium/Potasium Citrate

Tartaric Acid and Salt

Trisodium Phosphate

Waste Oil Recycling

Water Soluble Wood Preservatives

Zinc Chloride

Zinc Nitrate

Zinc Oxide

Zinc Sulphate

Ref. No. Org.No. Status Offer Source 1063 396 C S/J SILK SCREEN COLOUR PRINTING TECHNOLOGY OF FOUR COLOURS The technique is mainly used in making fine netdotted plate. It can print any patterns in many kinds of materials such as plank, bamboo, leather, plastic and textile etc. Easy to operate, low cost.

OFFERS

1072 394 F L C
SENSORS Company offers wide range of automative aerospace and industrial sensors.

1081 394 F L C
OIL SPILL RESPONSE VESSELS Complete range of equipment for rapid oil recovery up to 600 tons/hr.

1186 106 P L/S/J G
METAL CORD FOR CAR TYRES
Manufacture of brass coated wire for tyre making
and rubber article production. Straight linearity,
non-twisting properties of metal cord increases
adhesiveness, high breaking resistance at low
mass.

1245 165 F/C L/S C OXALIC ACID FROM THE BARK OF TERMINALIA SPECIES Oxalic acid is an important industrial chemical for the textile and pharmaceutical industries.

SMALL SCALE FIBRE-CONCRETE TILE MANUFACTURING TECHNOLOGY This revolutionary technology produces the world's lowest cost durable roof covering suitable for less developed countries with low wage economies. The equipment centres on a small 12c dc powered vibrating table that produces a cement screed which is transferred to a mould for setting. Plant sizes are from 250 tiles/week (20 sq m/week) up to 2000 tiles/week (16000 sq m/week) employing from 1 to 30 workers.

Ref No. Org.No. Status Offer Source 1352 400 C LJ C/P TECHNOLOGY AND EQUIPMENT FOR COLD ROLLING OF FINNED TUBES mono and bi-metallic, made of aluminium and copper. The poossibility of obtaining the finned tubes having ribs situated at both surfaces: inner/ longitudinal ribs/ and outer/ spiral ribs. The ratio of outer to inner surfaces: 3-25, height of ribs: 1,3-14mm, outer diameter of finned tubes: 10-57mm, rib pitch 6-12 ribs/inch for high ribbed tubes and 19-25 ribs/inch for low ribbed tubes.

1381 396 C J G
DIRECTIONAL REFLECTIVE
MATERIALS The materials and its devices
have outstanding night visual property in
reflecting cone shape beams of headlight of the
car. The reflective property remains unchanged
when the incidence angle and the normal angle
projected on the reflective sheet vary in certain
range (+65). The light spot of the traffic mark
can be aware within the range of 250-300
meters.

1447 393 U L C
SAMPLING AND MONITORING (SOLIDS/
LIQUIDS/GASES/AEROSOLS/
RADIATION) Fully automated liquor sampling
and transport system suitable for hazardous as
well as radioactive liquors; simple low active
manual sampling systems, multiphase continuous
sampling and on-line monitoring of dispersions
of aqueous/organic liquids containing solids;
air, gas and aerosol sampling and monitoring;
monitoring of stack discharges.

1536 57 F L G
GLASS VIEW PORT Used in ultrahigh vacuum instrument and equipment for observing the conditions in systems. Used as screen after coating.

1542 58 C L C

BELT CONVEYORS Capacity: 50-90 ton,
motor power: 1.5 - 15 kw, L: 10 - 165, speed
of belt: 0.3 - 0.4 m/s, trough angle: 30, material

Ref. No. Org.No. Status Offer Source

of belt: 0.3 - 0.4 m/s, trough angle: 30, material of construction: structural steels. Use for conveying raw sugar.

1548 58 C L C VERTICAL PUMPS Discharge: 3000 m/hr, total head: 15 m, speed: 740 rpm, medium: water, power: 200 kw, material of construction: high grade CI and alloy steels.

1554 58 C L C
BUTTERFLY VALVE DN: 700 mm, PN:
6Bar, medium: water, control: manual,
hydraulic, material of construction: high grade
cast iron and alloy steel.

1569 69 F/C S C
CONDITIONING AND PACKAGING This
Association of French Societies promotes to
foreign countries all known technologies with
regards to conditioning and packaging.

1572 71 C S G
AGRICULTURAL TRAILERS for tractor or vehicle drawing. Four wheel inflatable, heavy construction, welded metal frame. Loading capacity from 4 tons. Simple design for manufacture in small workshops.

1590 81 C L/J C
AGRICULTURAL TOOLS AND
IMPLEMENTS Complete project on turn key
basis.

Ref No. Org.No. Status Offer Source

1596 84 C L/J C

HAND/FOOT OPERATED HEAT SEALING

MACHINES for sealing plastic pouches of various sizes, most convenient device for use in small scale industries, grocers shops, dairies, confectionery industries, sea food industries, spices and spice powder industries, dry fruits industries etc. Price per piece ranges from US\$40 - 250.

1609 86 C L/J C
STABILISING VIBRATION TREATMENT
of welded and cast parts and structures.

1663 106 C L/S/J G
DETERMINATION OF STRESS IN
CONCRETE OF STRUCTURES IN USE
Connection of multiple use sensor to structure
surface, making of stress relieving slot in
concrete, determination of the degree of
deformation. Slot may be made to 10-12 mm.

1690 106 M L/S/J G WELDING WIRE Production of low carbon alloyed and copper plated welding wire from low carbon alloyed steels on stop contact coppering installations in dry drag multiple mill. Surface cleanness, high quality of welding seam, easy for operation.

1717 106 C L/S/J G IRRIGATION SYSTEMS Balancing networks of hard drainage at regulated waterways. At even sections of rivers carrying large amount of weighed accerations bank water reservoirs are made to regulate the hard waterways passing fertile silt particles to irrigated lands.

1718 106 C L/S/J G IRRIGATION OF FIELD CULTURES Use of collector and drainage waters for regular irrigation to wash salted soils. Economy of irrigation water and protection of water reservoirs from mineral waters.

Ref. No. Org.No. Status Offer Source 1744 106 C S G TRUCK FOR FOOD WASTES A dump truck whose body is welded into a closed tank with loading and unloading doors. The truck is equipped with loader having guides with limiting cross bar and carriage, hinged platform with fork catch for the containers, are element and hydraulic cylinder controlled by the tierod block system by way of moving the carriage.

1763 114 F L/J R
SELF ADHESIVE TAPES for industrial, packaging, office, school, home and specific usages. Complete technology offering - for making adhesives, for coating and slitting processes. The producer of the necessary equipment which is directly adapted to the mentioned technology is from Austria. References in function are available.

1772 120 F/C S/J P
GALVANOPLASTIC TOOLS or moulds.
Technology proved itself in rotomoulding polyurethane, PVCetc, extrusion blow moulding and other uses. Suitable for flexible industries whose products are liable to constant change of design, with high demanding surface structures (leather immitation).

EXTRACTION OF PLANT FIBRES from banana and plantains. A process known as the scraping method is developed for the production of fibres from felled trunks of banana and plantain plants. It entails separating stalks into sheaths and scraping them with knives having serrated edges. Resulting fibres are washed and sun dried. For spinning into yarns to produce rope, twine and other cordage or weaving into coarse sacks and other products for use in the packaging industry or upholstery industry.

Ref No. Org.No. Status Offer Source 1805 141 C J P MINI CEMENT PLANTS to be located in places where cheap cement grade limestone and coal/coke is available. Maximum capacity 50 tons per day. Vertical shaft - kiln process. Lower cost of production per unit and lower transportation cost of raw material and final product of portland cement grade are assured.

1807 142 C J P
RUBBER PRODUCTION MACHINERY
Manufacture of machinery used for production
for rubber based products, mixing mills,
extruders, hydraulic press, vulcanisers etc.

OPEN MINING of gemstones and industrial minerals. This involves the removal of top soil in form of making paddocks so as to get to the minerals. Manual labour is mainly used. For where the soil is loose and tunneling will be very costly and also risky to life. It is cheap and less hazardous to life.

1812 144 J C
MARBLE CUTTING AND POLISHING
Producing polished marble slabs of various sizes
by machine industry. Capacity: 72,000 M2.
White, pink, black and grey marble. Turnover:
N 800,000.

1818 147 J C
TEXTILE GOODS Textile production and distribution. Spinning and weaving and finishing processes. Capacity: 6300000 metres of finished cloth per annum. 100% cotton fibres. Turnover: N 7.71 M. Expected foreign contribution: N 2.4 M to N 3.2 M.

Ref. No. Org.No. Status Offer Source

1819 148 F S C

COLLAPSIBLE FOLDABLE TANKS fill
300,000 litres - efficient and economical
alternative to store, to transport a large range of
liquids, from water to hydrocarbons.
Lightweight, compact when empty, inexpensive
transporation and installation - no pollution - no
evaporation of the liquids - no rusting. 20 years
of experience.

1820 149 · C L C
STEEL ROLLING MILL The mill is a
210,000t/y continuous single strand combined
wire and light section two high/horizontal stand
hot rolling mill. For wire associated industries
and construction industries.

1824 156 C S/L C
ROAD TRANSPORT EQUIPMENT 1. waste disposal equipment, 2. airport ground support equipment, 3. petroleum and LPG tankers inclusive of aircraft refuellers, 4. bulk tankers for flour, cement, feed, chemicals etc. 5. general cargo trailers and port trailers.

1830 133 C G
PRODUCTION OF MECHANICAL PARTS
Machining/fabrication, foundry facilities to
produce different types of equipment, machines
and spare parts.

1864 178 C S C
MANUFACTURE OF TRAILERS, BUSES,
TANKERS used in road transport. Manufacture
of leaf and coil springs and fibreglass accessories
boats and sanitary ware. Principal materials
include steel and aluminium. Superior design
and quality.

1869 181 C S C
JEWELLERY MANUFACTURE Hand
crafted gold using indigenous gems for investment
jewellery. Supply of gemstones as agency
potential.

Ref No. Org.No. Status Offer Source
1885
191
U
VEGETABLE TANNING Tanning of small
live stock skins using vegetable tannins. The
method is simple and environmentally friendly.
This is ideal for cottage tanneries.

1918 211 F L/J C
INTEGRATED PHARMACEUTICAL UNIT
Technology, equipment and manpower offered
for turnkey integrated pharmaceutical unit.
Manufacturing basic inputs like empty gelatine
capsules, soft capsules, bulk drugs, formulations
like capsules, tablets, syrups, ointments,
injectables, absorbent cotton packing materials
like vials, ampoules, corrugated boxes. Software
for computer aided manufacture.

1927 219 J C
IRON CASTINGS weighing up to 50 kg/
piece. Development of nodular iron castings
production. Help in obtaining orders and sale of
castings for automotive industry, agricultural
machines and machine industry. Capacity: 30
thousand metric tons of castings including 7
thousand metric tons of nodular iron castings
and 23 thousand metric tons of grey iron castings.

2072 288 C L C
SPHERIOIDAL GRAPHITE CAST IRON
The technology covers the production of FeMgtreated grey cast iron to give very good
mechanical and physical characteristics.
Spheroidal graphite cast iron can be used in
alloys or otherwise, according to requirements.
It is at present in the process of replacing certain
steel alloys.

2121 318 F S G
AUTOMATIC MACHINES FOR TWIST
DRILL ROLLING FROM HIGH SPEED
STEEL The machines represent the highest
level of technology, are designed for skew
rolling short twist drills with cylindrical or
tapered shanks.

Ref. No. Org.No. Status Offer Source 2130 332 C S/L MEASUREMENT METHOD AND DEVICE FOR **MAGNETIC INCLUSIONS** CONTROL IN GROUND MATERIALS based on measurement of magnetic permeability for materials with magnetic inclusions. The device operating in weak magnetic alternating fields transforms the parameter to be measured into proper reading on a pointer type indicator. The device is equipped with built in calibration unit, and ensures a full metrology control.

OFFERS

FILM AND PAPER COATING TECHNOLOGY Various types of polyester film and papers are coated to manufacture sensitised paper, sensitised polyester film. Diazo film, clear sensitised film and reproduction on copiers and xerox. Once the coating is completed, it is then converted in the form of reels, rolls, cutsheets as desired by the customer.

2309 323 M L
MITREING JOINT SYSTEM FOR
PICTURE FRAMES ETC This novel design
of clamp for the accurate production of mitre
joints for picture frames, drawers etc, comprises
two adjustable-angle clamps and a saw guide. A
router on a second machine produces the slots
for a concealed wooden key. No finishing
operations required.

101044 396 F L R

JAMB SEALING STRIP OF MODIFIED

BUTYL RUBBER The product is widely used for dust proof, thermal and acoustical insulation of building jambs. It was proved that the product could increase room temperature 2-3 degrees C, decrease energy consumption 10%, debase noise about 6 DB and have obviously dust proof effect.

Ref No. Org.No. Status Offer Source 101131 393 C **MEASURING** THERMAL CONDUCTIVITY A guarded hot plate rig may be used to measure the thermal conductivities of dry specimens of insulating building and other materials. For these measurements two 'discs' of material 12 in diameter and no greater than 2 in thick are required. The range covered by this facility is such that conductance values up to 10 chu/sq ft hour deg C and a temperature of 600 deg C can be measured.

101154 393 F L C
GAS SEPARATION TECHNOLOGY
Hydrogen recovery units for ammonia purge
gas, refinery and petrochemical off gases
applications. LPG recovery units for treatment
of both refinery and natural gas applications,
LNG peak shaving plants, helium recovery and
natural gas upgrading.

101163 393 U C HEAT TRANSFER COEFFICIENT **MEASUREMENT** IN **COMPLEX** GEOMETRIES The technique involves the attachment of a thin absorbent paper to the surface in question. A volatile fluid is sprayed on to the paper and air blown over the surface. The rate of evaporation is proportional to the heat transfer coefficient and is measured using an infra red light beam and photoelectric cell.

101181 106 C L/S/J G
BLOWING OF GAS WELLS and separation
of stratum product in subsurface tank.
Investigation of thermal condition of well head
heaters, gathering lines and collectors on the
basis of production experiments and calculations
through up to date models of technology
describing the heat exchange regarding the
potential energy of the flow.

Ref. No. Org.No. Status Offer Source 101190 106 C L/S/J G GRANULATED ALLOY of nonstandard wastes. Wastes on the basis of ferrum, nickel, chrome with various proportion of main elements and mixes are loaded into a melting aggregate, melted there and pored into a granulation pool. The product alloy can be reasonably used in charge base for corrosion resistant types of steel. The product can be utilised in pig iron alloy as well. There is a possibility of utilisation of molibdenum and tungsten that may joint the alloy from the wastes.

OFFERS

101194 217 J C
SCREW MANUFACTURE Screws of rustproof materials M2-M4, 12 000 000 pieces per year. Equity participation offered: \$300,000. Export: 95%. Pre-feasibility study data available.

101248 165 F/C L/S C GALLIC ACID FROM MYROBALAN Gallic acid is used in pharmaceutical industry as astringent and gallic acid esters have been in use as anti-oxidant, and photographic development, in testing free mineral acids in dihydroxy acetone and in alkaloids.

101345 380.01 C L/J ANODIZING TECHNOLOGY FOR ALUMINIUM AND ALUMINIUM ALLOY NORMAL **ATMOSPHERIC** TEMPERATURE Anodizing technology for aluminium and aluminium alloy at normal atmospheric temperature. The thickness, hardness, tinctorial power and rust preventing ability of oxide film conform to the standards issued by the Ministry of Aerospace Industry. The working temperature is extended from 13-23 degrees C to 12-45 degrees C. As a result, refrigerating units are saved and the electric energy is cut down.

Ref No. Org.No. Status Offer Source 397 C P 101347 J AGRICULTURE IMPLEMENTS AND EQUIPMENT suitable for hand operated and/ or bullock driven use. Technology suitable for backward/no power area. Implements like rotovators, winnowing fans, ploughs can be supplied in CKD or SKD condition to be assembled at site in the country which has its requirement.

101399 396 C L R
GRAFT NEOPRENE ADHESIVE The title adhesive can be used to bind the plastic substances which cannot be bound by general neoprene adhesives. As the adhesive is especially useful for bonding of soft PVC with various synthetic leather, it is used as a special adhesive for shoe manufacturing and also be used for interior decoration and reparation of green house PVC films.

101425 395 P L U
SCANNING PROBE MICROSCOPE An integrated scanning probe has been developed which can be used to build microscopic versions of analytical instruments fully integrated with electronic circuits on a single chip. The probe tips have reached 5,000,000 oscillations per second. Since the probe tips are made of silicon integrating them into silicon chips should be done relatively quickly. Measurements possible with these probe tips include, vibration detection, chemical spectoscopy or as an accelerometer.

Ref. No. Org.No. Status Offer Source 101427 395 P L U NON BEADING THIN FILM, METAL COATED CERAMIC SUBSTRATE Thin film metallisation of ceramics are essential in electronic packaging, catalytic converters, fabrication of metal matrix composites and in devices employing metal coated ceramic materials used in optical, sensor and superconductor technologies. This invention overcomes beading problems by providing a novel composite composition which does not bead even at thicknesses less than 150 nm.

OFFERS

101443 396 C S
CAST DUCTILE IRON The technique is applied to as cast iron without graphitisation annealing. Matrix content in ductile iron is controlled by charge make up method. Good spheroidisation effect is obtained by improving geometrical size and construction of spheroidisation chamber. In the process carbide in ductile iron is eliminated with 'C - control agent'. Consequently ductile iron is got without graphitisation annealing.

101463 4 C
LEADERS IN THE FIELD OF
REFRIGERATION and air-conditioning units
(room, packaged with different capacities).
Manufacturing equipment and units for central
air-conditioning, humidification ventilation,
heating projects, water coolers, display cabinets
and fully automatic washing machines are also
available.

101539 58 C L C
BARGES Max capacity: 450 ton, dimension:
51 x 7.6 x 2.2 m, engine power: 230 hp, max
velocity: 12-15 km/hr, own weight: 110 ton,
material of construction: anti corrosive steel,
alloy steel.

Ref No. Org.No. Status Offer Source 101545 58 C L C VACUUM PANS Capacity: 300, 550, 750 HL, PN 1.8 bar, test pressure 3.7 bar, material of construction: anti corrosive steel, stainless steel. Use: food industries and similar industries.

101557 59 C L C
THE PRODUCT EQUIPMENT AND
TECHNIQUE FOR ACTIVE HEAVY
CARBONATE OF LIME Main materials are
white marble or white cale spar. The product
made by the product equipment and technique
has high grade purity, whiteness and flowing
performance. If the product is mixed in plastic
and rubber the gloss and thermostability are
better and their physical performance can be
improved.

101593 82 C S C
ARC SMELTING FURNACE to produce ferro alloys in particular ferro silicon. Designs permits productions of different products like calcium carbide, silico manganese etc in 'e same furnace with minor parameter adjustment. Commissioning and stabilisation of production can also be attended to.

101599 84 C L/J C
SHRINK WRAPPING MACHINES for shrink
wrapping of numerous items like batteries,
fruits, bottles, pesticides, spices, sea foods etc.
Relatively very low power consumption ideally
suited for small scale manufacturers. Shrinkable
PVC films are used for wrapping. Price of
machine approximately US\$ 950.

Ref. No. Org.No. Status Offer Source

OFFERS

101650 106 M S/L/J G
CONTOURED IRON AND CONCRETE
PLATE DESIGN ESTIMATION OF THEIR
STRENGTH The plates are designed proceeding
from their bearing strength and with due regard
for the influence of outward thrust received by
contour structures. Calculations are realised
through computer system. Main advantages of
technology: Use of limit equilibrum method to
determine the bearing strength of the plates.

101699 106 W L/S/J G
FOUNDATION STRUCTURES During manufacture, installation and pressing with prestress fitting the rigidity and strength of the foundation are regulated at the expense of the number and degree of tension of highly strong fittings. Foundations of dwelling houses and civic buildings in adverse engineering and geological conditions. Low consumption of steel fitting and concrete.

101701 106 W L/S/J G
FOUNDATION STRUCTURES Two or more
horizontal frames are linked through monolith
posts. The space between them is filled with
concrete or reinforced base panels. For
foundations for dwelling houses and civic
buildings in adverse engineering and geologic
conditions.

101719 106 W L/S/J G CLEANING OF CLOSED DRAINAGE from silting done by creating a speedy flow of alternating direction water by way of creating pressure at one end and suction at the other end. For operation of land reclamation systems. Simplicity of the process, high efficiency, low labour consumption, ecologically clean.

Ref No. Org.No. Status Offer Source C 101745 106 S/L G FILTERING HEAT RESISTANT NICKEL ALLOYS in casting into mould. The device consists of pouring basin, adaptor and filter and is made stationary and detachable. The device is placed in the receiver hole of the cast mould before pouring the melt. The device does not require refitting of the equipment to be used in the existing vacuum casting process in heat resistant nickel alloys.

101773 :21 F L C
INDUSTRIAL FURNACE INSULATION
Technology for thermal insulation of industrial furnaces. Mainly thermal insulation of silica crown of glass melting furnaces. Efficient thermal insulation at a lower material cost. Savings of liquid fuels or gas, reduction of the amount of burned fuels.

101821 150 C L C
SHEET GLASS PRODUCTION by four cault method. The raw materials are weighed in correct proportion after they have been adequately prepared. They are converted into molten glass in a furnace at a temperature of about 1500 degrees C. The molten glass is finally drawn into sheet glass by drawing machines. For building construction, automobile and partitioning. Can draw as low as 1.5 mm thickness. The process is also simple to operate.

101851 171 M C
PRODUCT STANDARDS Preparation and implementation of standards for products, laboratory testing facilities, product mark certification scheme, quality systems registration to international standard sizes 300: 1990/ISO 9000 - 9004: 1987.

Ref. No. Org.No. Status Offer Source

OFFERS

101861 176 F L C
LEATHER PRODUCTS The process involves the cutting of leather which is then assembled after this the actual sewing of the product is conducted which is then followed by cleaning.

101877 183 C J C/P EXHAUST AND SHOCK FITTING SERVICES A service applicable to any vehicle to give it super-performance and a long lasting span. Professionally conducted to guarantee safety and comfort on the road. Non-complex fitting service requiring not much of capital investment.

101881 187 C C
INDUSTRIAL BOOT with and without steel caps, antistatic rubber sole.

101883 189 F J C
MANUFACTURERS OF WIRE NAILS panel
pins, shoe rivets, carpet pins, wire tacks and
galvanised staples. We have the machines and
wire, if you have the premises and market.

101888 193 F L C
IRRIGATION/WATER AND BOREHOLE
PUMPS and equipment manufacturers. Require
more advanced product lines to manufacture in
Zimbabwe.

101896 201 F J C
PRECIOUS AND SEMI-PRECIOUS GEM
STONE Rough, polished. Available for Far
East European country and USA marketing.
Cam cut according design.

Org.No. Status Offer Source Ref No. G 101908 391 TUBES WITH POROUS LAYER Inner surface(s), tubes surfaces are covered with different kinds of powders through special operations of sintering; tube length up to 6 m; diameter 8 mm no limitations on tubes a. powders materials combination a. tubes machining. For use in all kinds of heat exchangers in energetics, cryogenic technologies, oil industry etc; heat tubes. Capacity: 100-1000 t in one module (block). Cash minium 150.000 rb/t. Cash maximum 225,000 rb/t.

231 C IJ C 101945 IMPLANTATION OF THE INTERACTIVE TV in Europe and South America. Agreements on collaboration to implant this important and innovative technology in other countries. This incipient technology presents a wide range of applications, but the very first applications will be: to avoid zaping among the telespectators increasing in that way the revenues of the TV in advertising. To allow the telespectators to participate in real time in the TV concourses, opening a new way for advertising. To give information of added value to the telespectator.

101999 380 C L/J C
PUMPLESS WATER CURTAIN SPRAY
PAINTING CHAMBER This spray painting
chamber is a new generation chamber of the
1980's characterised by a novel structure, reliable
performance, a high spray purification rate. It is
widely used in the areas of machinery,
automobiles, light industry, electric installation,
instrumentation and furniture.

Ref. No. Org.No. Status Offer Source

102004 250 C L/J

BARRIER CREAMS Technology for the manufacture of skin protective barrier creams used by industrial workers while handling

102013 255 C L C
MANUFACTURING PLANTS 1. Small and large capacity cane sugar plant. 2. Plant for manufacturing egg trays from waste paper. 3. Utensil making plant. 4. Leather tannery. 5. Welding electrode manufacturing plant.

102031 262

hazardous chemicals.

FOOD PRODUCTS Turnkey projects in the field of biscuits, bread, confectionery and allied food products. Also offering technical assistance and consultation in the field of food, packaging and any small scale industry.

102067 288 C L C
MARTENSITIC CAST IRON Know-how for
production of alloy cast iron with high resistance
to impact and wear for use in quarries and
cement works.

102085 292 F L C
PAPER PRODUCTS We can supply paper,
pulp and board plants from 3 TPD to 50 TPD.
Raw materials - agro waste and waste paper
waste.

102245 357 C J C
CAST IRON AUTOMOTIVE PARTS AND
MACHINE PARTS They are produced from
up to 5000 kg, grey cast iron, nodular cast iron
and chill casting and machining. The proposed
uses include automotive parts, various machine
parts and ingot moulds. The proposed standard
capacity is 12000 tons/year requiring 12000
tons/year of raw materials.

Ref No. Org.No. Status Offer Source

102254 348 F/C L/S/J C

PANELISED MODULAR BUILDING

SYSTEM technology including manufacturing techniques, designs, erection training and marketing programmes and printed material. Product suitable for low and medium cost housing, schools, construction camps, offices, medical centres and other uses.

102307 319.09 P J
STEEL WOOL PRODUCTION To take advantage of available raw material they wish to purchase advanced equipment to produce steel wool for brake pads for automobile and other uses.

201007 184 P S C
PLASTIC INJECTION MOULDING in
polystyrene, ABS, nylon high and low density
polyethylene and polypropylene. In all shapes
and sizes from 3 grams to 500 grams. Variety of
machines from 5 to 320 ton.

201016 165 F/C L/S C INSULATING BRICKS FROM RICE HUSK ASH These bricks made from rice husk ash can be used for the insulation of all types of industrial furnaces, particularly ceramic kilns and furnaces in steel and cement plants as well as in non ferrous and petro chemical industries.

201070 394 F L/J C
HEAVY METALS IN EFFLUENT New techniques for measuring and extracting heaving metals in wastewater.

201089 394 F L C
MUNICIPAL SOLID WASTES glass and
plastics screened sterile and acceptable for
recycling. Pulped wastes used for fuel or for
cellulose conversion.

Ref. No. Org.No. Status Offer Source

OFFERS

201098 395 L U
INORGANIC/ORGANIC COMPOSITES
Unique composites consisting of organic polymers intercalated between planar layers of ceramic material which exploit the synergistic properties of the two materials. The composites exhibit the mechanical strength, coefficient of thermal expansion, and thermal stability of a ceramic as well as the low dielectric characteristics and good processability of the polymer.

201149 393 F L C
MINIMUM PIPELINE EXCAVATION
TECHNIQUE Replacing old cast iron main
with one of equivalent size by bursting old main
with hydraulic torpedo drawn through main
together with sleeve into which new main is
inserted.

201167 393 C L/S R
PLASMA TORCH for precision cutting of metals and non-metals. The power densities achieved with plasmas (high temperature ionized gas) up to 3 MW/sq cm make them compatible with lasers. The compactness of the plasma torch and its significantly lower cost make it a preferable option for many applications.

201338 389 P S J
A GRAIN POWER ASSEMBLY is adapted to
a hand tractor and supported by the vertically
adjustable free arm. The stripped grains and
chaffs and tailings fall by gravity to the ground.

201340 389 C L P
A SINGLE, MULTI-PURPOSE TYPE TWO
CAGE WHEEL tractor fitted with a spiral
plough, equipped with a tiller assembly, while
the operator sits comfortably on the assembly
equipped with a foot control which does most of
the work on the levelling operations.

Ref No. Org.No. Status Offer Source 201356 400 **EMERGENCY** OF ARRESTING CONVEYANCES IN CASE OF **OVERWINDS** The friction emergency arresting device can develop braking forces from a few hundred kN to a few thousand kN and stop the conveyances with the payloads up to 50 Mg running with the speed up to 20 m/s. In this device the arresting force in the friction force is developed between the steel plates being pressed together by elastic forces of rubber elements. The device can be used independently of the guiding system of conveyances. By the variation of the parameters of the arrestor the braking force on the overrun travel can be freely selected.

201385 396 C J G
MICROSCOPIC APERTURE FILTERING
CERAMICS BASED ON THE MATERIAL
OF DIATOMITE The product is the pioneer
product either internally or externally. Compared
with the conventional filter material, it has
advantages of high porosity, high filter ability,
high effiency, long service life and low cost etc.
It also opens a new way to the aseptic filtration
as well as precise filtration.

201434 395 L U SELECTIVE METALLISATIONS FOR HIGH **TEMPERATURE** SEMI-CONDUCTOR A process for metallisating precisely designated surface areas of wide band gap semi-conductor substrates (eg SiC, Diamond, Si3Ni4, and BN) with metals (eg Si, Ge, W, B) to produce electrical (ohmic, Schottky, or gate) contacts with high thermal stability, excellent adhesion to substrate, high current carrying capacity and high electromigration resistance. Applications in blue lasers, high frequency/high power devices and high temperature IC sensors.

Ref. No. Org.No. Status Offer Source 201601 86 C S C ELECTROCHEMICAL MACHINING OF SMALL HOLES Machining is performed by a metal tubular electrode with insulated side walls. Main usages of the technology include making channels in turbine blades-holes in parts of fuel equipment etc. The main advantages of the technology is the increased speed of parts machining. Availability: know-how, training, technoeconomic data.

201610 86 C L/J
PHOTOCHROMIC CUPRIHALOID
SHEET GLASS Improves existing production
process with use of new additives to base
material. Designed to decrease brightness of
visible spectrum of sun light in rooms and cabs
of vehicles. Low co-efficient of thermal linear
expansion with high strength properties and
high transluscent percentage.

201641 106 P L/S/J G
HEAT TREATMENT OF STEEL PARTS
New method for heat treatment of spring steels
- high speed electric tempering under load
ensuring high strength characteristics. We offer
a paste to be applied to the surface of steel and
then fused with carbon electrode in the open and
cooled in water. This increases the wear resistance
of parts operating in abrasive media.

201668 106 M L/S/J G UTILISATION OF WASTES of tanned leather. Thermal hydrolysis of tanned and untanned leather wastes to obtain modified protein adhesive, recommended for use in textile, paper cardboard industry, surface finishing in construction material production for reducing the adhesion time of gypsum plaster mixes.

Ref No. Org.No. Status Offer Source 201686 106 W L/S/J G WATER BOILER WITH BURNING LAYER FURNACE Burning of low grade solid fuel in heater and water heater boilers. Heat supply of industrial, civil and rural buildings. Effective burning of high ash content and low grade coals.

201702 106 W L/S/J G
ANTI-LANDSLIDE PILE FOUNDATIONS
Concrete mix is placed after fitting structure and separate short rods whose length is not more than the depth of the landslide layer. The rods are shifted relative to the vertical axis of the support towards the side opposite to the direction of landslide pressure. After placing of the concrete the short rods are tensioned.

201720 106 C L/S/J G
HYDRODYNAMIC PROCESSES IN
METAL CASTING MODELLING AND
DIAGNOSIS On automated stand for
hydrodynamic modelling of casting processes
the flow of liquid metal is modelled in reality.
During the modelling and diagnosis the
parameters characterising the structure of the
flow are monitored and measured for perfection
of the processes for casting liquid metals.

201737 106 M L/S/J G
MOISTURE AND HEAT TREATMENT OF
JACKETS The process is based on combining
the process of formation and final moisture and
heat treatment of all parts of ready made jacket
by using vapour and air vibro model. Decrease
of operations and time of treatment, energy
saving, better quality of ready articles.

Ref. No. Org.No. Status Offer Source 201746 106 C S/L G MINIATURE PLASMA FURNACE To apply metal and ceramic coats by way of plasma spraying of the internal and external surfaces of any configuration. The furnace consists of cathode and anode casings separated with an insulator. It is furnished with air and water cooling. The nozzle and electrode are designed so that the furnace can operate for 24 hours.

201791 133 C S/L G
DYEING JIG The dyeing equipment comprises two major parts namely the dye tank and cloth hanger. The latter is placed inside the tank which is filled with the right dye when dyeing is in operation. The hanger is equipped with a device for lowering and raising the cloth and because the cloth is attached spirally folds are efficiently separated to prevent sticking together.

201907 391 J G
MATRIXES OF DIES and other parts
manufacturing from grinding slimes of high
speed, high chromium, bearing steels and cast
iron. For dies and other parts manufacturers;
dies and other parts users. Capacity: 100-1000
t/year dependently on parts type. From grinding
slimes of high speed, high chromium, bearing
steels and cast iron. Cash minimum 30.000 rb/
t. Cash maximum 60.000 rt/t.

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201926 218 J C
LIQUID STORAGE TANKS and vessel sheets.
Hand lay U/P fibreglass reinforced plastic moulding. Consumer production. Industrial production. Standard capacity: tanks 100 litres to 5,000 litres, sheet - standard size.

Status Offer Source Ref No. Org.No. 201944 231 C IJ C DIAGNOSTIC KIT FOR CERTAIN HUMAN ILLNESSES An innovative development in the biotechnology field. It concerns a kit for the detection and quantification of the TNF-alpha molecule. The excess of the said molecule implies the existence of inflammatory processes within the human body, which allows the detection of important illnesses such as certain types of cancer, AIDS, hepatitis, arthritis.

201962 232 C L C
ROOFING TILES PROJECT Burnt clay roofing tiles of size 420 mm x 250 mm with weight of 2 kg per tile can be manufactured from clay only, so free raw material is available in every country. Capacity 2 million tiles per annum. Employs 60 unskilled workers. Import component only 20% of project cost. Bright prospects in every developing country.

202008 252 C J P
PAINT TECHNOLOGY Backed with thirty
years of extraordinary experience in paint
technology and management. We seek alliance
and offer state of art technology which is most
competitive, in the field of decorative paints,
synthetic resins, adhesives and allied products.

202071 288 C L C
CORE MOULDING PROCESS A core
moulding process which involves filling the box
with projected sand (prepared sand) and heat for
hardening. Main advantages: high producitivity;
highly complex cores; perfect demoulding.

202229 368 C L/J C AUTOMOTIVE AND INDUSTRIAL GASKETS

Ref. No. Org.No. Status Offer Source 301015 165 F/C L/S C PALATABLE LAXATIVE FROM SEED HUSK OF PSYLLIUM Isapgol husk is used as a laxative but it is disliked by people due to its bland taste.

301033 396 C L G CL-A SERIES OF STUFFING FOR PLASTIC the stuffing is a new cheap material for plastic with many excellent features such as filling in quantity, good flowing and fine processing etc., it is widely used in polyole fine string for packing, flat thread like materials for weaving, film, tube materials, corrugated paper box, container, injector PVC and ABS etc., it can increase whiteness, rigidity, thermal stability, anti-deformation and improve mechanical character of the products

301042 396 C **CARBON BLACK COLOUR** CONCENTRATE FOR AGRICULTURAL MULCHING FILM AND OTHER POLYOLEFINES The product is a kind of colourant which is made from low density polyethylene, carbon black and dispersant by fully mixing in Bambury. With the colour concentrate, the final product would have smooth surface and uniform dispersion of carbon black. The resistance to ageing of final product would be increased.

301088 394 F L/J C
HIGH SPECIFICATION MIXING
dramatically reduces mixing time, costs and
clean room requirements eliminates
contamination. Applications in chemicals,
pharmaceuticals, process industries etc.

Status Offer Source Ref No. Org.No. 395 301112 I. OF **FABRICATION** COPPER INTERCONNECTS Submicron ultra large scale integrated (ULSI) circuits require long metal interconnects having small contacts and cross sections. Previous methods of depositing Cu interconnects have suffered from poor step coverage, high resistivity from residual ions. and high costs. This invention mitigates those problems by providing a low temperature, selfencapsulating method of Cu interconnect fabrication.

301121 394 P J C
BARREL ASSEMBLY An integrated system which cuts, firms, welds, tests etc sheet metal to finished product.

301144 393 C L U
CELLULOSIC FLAMEPROOF FABRIC
These fabrics have been catalytically dehydrated to give a partially carbonised structure which has excellent resistance to temperatures up to 1400 deg C. Good strength and wear resistance making the fabrics suitable for continuous wear applications have been achieved by blending; fabrics and protective clothing manufactured from these materials are now commercially available.

301180 106 M S/L/J G
DESIGN OF IRON AND CONCRETE
STRUCTURES Design of unitised assortments
(series) of structures in which each type of
article is determined by one basic parameter of
the series ensuring minimus consumption for
unitisation. Handy for choosing framework sizes
for each standard size, finding the load range for
the given standard size and classifying it by
types of articles.

Ref. No. Org.No. Status Offer Source 301387 396 C J G HIGH TOUGH CERAMIC COMPOSITE FOR CUTTING TOOLS A variety of improved ceramic inserts are now available. Thus ceramics possess the best performance in its own application scope including the following systems: Alo-TiC-Metal, Alo-TiC-Metal and special add, Alo-Ti(C,N)-Metal, Alo-(Ti, W)C-Metal, Si N-Ti(C,N) etc.

301430 395 P L U
PUMP STEERING MIRROR CAVITY A
continuously tunable optical parametric oscillator
capable of operating in the 0.30 to 0.4 micrometer
wavelength range has been developed.

301441 396 F J C
HOT MELT ADHESIVE FOR CABLES
mainly used to joint heat-shrink fit cover of
plastic cable attachment and to seal the plastic
ends of communication cables and electric wires.
It is also used for bonding of wood, metals,
plastics, leathers, paper and so on.

301493 27 C L G
POLYFUNCTIONAL AUXILIARY
TANNING AGENT (PAT) An active acrylic
resin which can be reacted with tanning materials
and collogen fibers in situ of leather for preventing
leather fibers adhesion when drying, that makes
the leather soft, plump and its elastisity also as
good as desired.

301540 58 C L C
LOCOMOTIVES Designed to drag the railway wagons, either narrow or wide gauges. Power: 200 hp, 300 hp, speed: 40 km/hr, dimension: 5.2x3 2x2.2 m, dead weight: 17-25 tons.

Org.No. Status Offer Source Ref No. C 301628 U 105 L/J TECHNIQUE OF GIVING OPTIMUM LAYOUT OF STEEL PLATE CUTTING The technique is suitable for a factory using a shearing machine to cut rectangle blanks of steel. An optimum layout of steel plate cutting is automatically generated after the user inputs the size of steel plate and blank of machine part to the microcomputer. The technique could make the utility rate of steel plate achieve over 90%, while handmake layout is only 80%.

301646 106 P L/S/J G
DEEPENING OF MINING WELL HOLE to
ensure the tapping at various abnormal pressures.
Hard facing of hole in permeable deposits and
design of a device for contact hard facing of
filtration crust. For oil and gas well drilling in
permeable deposits.

301655 106 C L/S/J G MANUFACTURE OF FIXTURES by method of hot heading with use of press tool, HF generator and a photoelectric complex. High reliability of fixing under the conditions of monocyclic loads, expansion of standard sizes of the hot headed blanks, low energy consumption.

301669 106 W L/S/J G
SHOE CONSTRUCTION Digital flexible
module to apply thermoplastic polymer underfoot
on shoe top. Application of thermoplastic material
formed after hardening of underfoot to the shoe
top pattern with the use of digital flexible
module avoiding the use of master form, patterns
and stencils.

Ref. No. Org.No. Status Offer Source 301673 106 C L/S/J G REFRACTORY COATING of lining of thermal aggregates. Preparation of refractive mass and applying it on the lining of furnace with further burning. The resistance of the lining with refractory coating at operational temperatures 1200 degrees C on vacuum compressor induction furnace increases up to 40 thermocyclic loads.

OFFERS

301712 106 C L/S/J G
PLANTATION GROWING of coniferous
trees. Scientifically based organisation of
plantation growing of conifer trees and
perspective technology of planting such trees on
selection basis. For plantation forestry of pine
and spruce. Accelerated growing of highly
productive spruce and pine with minimum effect
on fertility of soil and surrounding medium.

301730 106 C L/S/J G
MANURE DRAINS FOR IRRIGATION Use
of manure drains and low fertilisation running
waters for irrigating crops. Preparation, storage,
mixing, fertilising and moistening irrigation.
Alternating use of manure drains and running
waters, economy of natural water, protection of
water sources.

301906 205 J G
ASSEMBLY MACHINES cells and lines new pneumovortical assembly process for automotive, tractor and machine building. Capacity: 20-25 machines/year. Cash minimum 0.5 million rubles. Cash maximum 2.5 million rubles.

301934 227 C L
WOOD DRYING AND TREATMENT
Drying and Protective Impregnation (PIT).

Ref No. Org.No. Status Offer Source
301961 232 C L C
TINY CEMENT PLANT Portland cement as
per Indian or British standard can be
manufactured. Capacity 20 tonnes/day. Capital
investment per tonne of installed capacity only
50% of big cement plants. Saves transport cost.
Requires very small limestone reserve. Ideally
suitable as captive unit for builders, contractors.

301988 248 F L/J C
FLEXIBLEMETALLIC CONDUITS Knowhow, design, technology and equipment is
available for the manufacture of various kinds of
flexible metal conduits and strip wound hoses
for use in household, electrical and general
purpose applications.

301997 380 C L/J C
ROTARY CULTIVATOR SERIES is a new generation of driving machine which combines the function of ploughing and raking in one tool. It can be used in wet earth as well as in dry earth. It can loosen the dry earth, slurry the wet earth and also flatten the field. It is an adaptable till machine of high quality and low cost. The company's products can be used with all kinds of tractors of 8.8 - 88 KW.

302066 287 C L C
LOST WAX MOULDING PROCESS for
precision moulding of parts for use in general
mechanical engineering. Know-how available,
also data on ways of preparing master patterns
(process, equipment and tools; materials).

302075 288 C L C ENGINEERING CAST IRON production technology Ft 20; Ft 25; Ft 30; Ft 35 and Ft 0,

Ref. No. Org.No. Status Offer Source 302098 299 C C IJ A NEW TYPE OF SALT-DENDRITIC SALT Technology for producing a new type of salt dendritic salt which is superior to the regular refined salt in the following distinctive ways: higher capacity for absorbing moisture, low bulk density, rapid solubility, good blending properties with other finely divided materials, outstanding non-caking and flow properties. These features offer a variety of applications for dendritic salt, such as curing sausage casings, flavouring butter, dry curing bacon and ham.

302102 302 C L/J C
ANTI-OXIDIZABLE SN-PB SOLDER In the molten condition, the surface of this solder can be kept oxide free for a long time. Under the conditions of dip-soldering and simulating wave-soldering, the drossing weight of the solder is about one-third of the common HLSNPB 39 solder or H63A solder (made in Japan). Its ability to withstand water is 20% larger than the common solder. The expense of soldering can obviously be reduced in using the anti-oxidizable solder. It causes no smoke, no smell, no poison when using.

304 C 302105 L/J C LANTHANUM CHROMATE HEATING ELEMENTS Lanthanum chromate, a complex oxide material with semi-conduction, can be operated at 1500-1800 DC. Its electric properties at elevated temperatures maintain constant and electric resistance is less dependent on temperature. In addition, it has other advantages, such as higher thermal efficiency, better heat uniformity over all heating portions, precise temperature control and higher mechanical strength at room temperature and excellent thermal shock resistance. The electric furnaces, in which the lanthanum chromate heating elements are installed.

Ref No. Org.No. Status Offer Source
302120 318 F S G
ORBITAL FORMING OF THE PRECISION
FORGINGS Cold and warm orbital forming of
parts is performed on special rocking die presses
type PXW. The method is particularly
advantageous for workpieces of considerable
cross dimensions at low heights as discs, rings
or flange type shapes.

302222 165 F/C L/S C SPECIALITY PAPER consists of filter papers, drawing papers, document and bond papers etc.

302249 353 C J C
MARTU CELLULAR CONCRETE (sandline brick). Martu cellular concrete is suitable
for basement walls, external walls, internal
walls and curtain walls. Proposed standard
capacity: 120.000 cub m per year.

302251 351 C J C
PRODUCTION AND MARKETING OF
SAFES The proposed process is the marketing
of safes which are produced according to demand
in Turkey, for the other third world countries.
Partners who are in Turkey are responsible for
the production and partners who are abroad are
responsible of marketing. The proposed standard
capacity: 80-100 safes/month. Raw materials
will be provided from inside (Turkey).

302341 394 F L C
GAS LEAK DETECTION System for the quick detection of hazardous gas leaks down to trace levels. 8 hour time weighted concentrations.

Automatic shutdowns.

401023 376 W J C
RUBBER WASTE AND TYRE RECYCLING
MACHINE to convert waste into granules
which can be used again for environmentally
friendly and usable products, such as tiles,
furniture, mats, shoe soles etc.

Ref. No. Org.No. Status Offer Source 401069 394 U L/J C TUFTING MACHINE (hand held) has been developed suitable for craft and home use. Very high quality finish and wide range of attractive designs, including wallcovering, cushions etc.

401087 394 F L/J C
3D MICROSTRUCTURES in metals, ceramics and plastics. Applications in automotive, optics, telecoms, power engineering, process and measuring, medical and environmental and aerospace industries.

401139 393 W L U

RESISTANCE THERMOMETER
microprocessed based. A high speed instrument
for use with platinum resistance sensors.
Measures resistance ratio to an accuracy of 50
parts per million and hence computes temperature
to accuracy of 10 mK. Each reading requires less
than one second. Up to six sensors may be
multiplexed. The instrument will also measure
the response time of the sensor in situ.

401148 393 F L C
BULKHEAD PENETRATOR for electrical cables. A high integrity penetrator to carry a single or multicore electrical conductor through a pressure tight bulkhead. It is designed to withstand high pressure differentials, high temperature and shock loading.

401157 393 W L C
'POLYHIPE' MATERIALS Novel highly porous materials made by polymerisation of high internal phase emulsion systems, with a very high fully connected surface area. The materials are excellent substrates for peptide synthesis. As catalyst and immobilised cell supports, and for other applications such as filtration.

Ref No. Org.No. Status Offer Source 401184 106 C L/S/J G PIPELINE CORROSION PROTECTION Protection of the inner surface of oil gas pipes containing Co2 and H2S by injecting a dose of inhibitor and constant spray feeding with the inhibitor for 4-5 days employing injector and stationary doser. Low consumption of inhibitor, high effect of reagents, synergism of the inhibitor, presence of amine type inhibitors.

401189 106 W L/S/J G
CLOSED DRAIN COLLECTORS Long
plastic pipes with a diameter of some 200 mm
are stretched in two lines along the main line in
a depth of 4 mm. For land reclamation. High
effectiveness and adaptability to technology,
low labour consumption.

401247 165 F/C L/S C
EXTRACTION OF STRYCHNINE AND
BRUCINE FROM NUX AND VOMICA
SEEDS Strychnine and Strychnine sulphate are
used as rodenticide. Brucine and its salts are
useful for denaturing alcohol and as an analytical
agent for separating optical isomers.

401342 389 C L P
A VACUMATIC FLOATING type walking tractor which can effectively till water-logged rice fields or fishponds. The conventional power tiller bogs down or sinks in very wet or water-logged rice fields. Manufactured by using steel materials and welded.

Ref. No. Org.No. Status Offer Source 401351 400 W/U/F L/S/J U INDUSTRIAL CONTROL SYSTEM OF **TECHNOLOGICAL PROCESSES** Programmable industrial control systems have been developed in AGH and applied at the VSZ - Kosica (CSFR) Steelworks. There are multitascing and multilevel control systems based on the logical and numerical microprocessors, connected in the networks and equipped with the A/D and D/A converters, which served to control drives and technological processes at the Blast Furnace and Agglomeration Plant.

401380 396 C J G
CORROSION RESISTANT EQUIPMENT
WITH THIN LININGS OF TEFLON WITH
METAL GRID The new material is free from
the disadvantages of common PTFE materials
such as hot expansion. It can be used over a long
period of time in any strong corrosive chemical
medium below 250 degrees C. Even shock
cooled and heated or interspersed between cold
and heat. Its life time is increased by ten or tens
of times.

401537 57 F L G
VACUUM VALVES Used in ultrahigh vacuum
equipment and analysis instruments as valves
between ultrahigh vacuum and low vacuum
(atmosphere) and valves for controlling gas
flow.

401543 58 C L C
CHAIN CONVEYORS Pitch (mm): up to
160, breaking load: up to 120 tons, material of
construction: case hardened steel, carbonsteel.
Use: conveying mud, bagasse, sugar, ashes,
pulp.

Ref No. Org.No. Status Offer Source 401546 58 C L C BAROMETRIC CONDENSER Capacity: 20-30 ton/hr, dimension: 3000x21014x16 mm, dead weight: 27.7 ton, material of construction: anti corrosive steel, grey cast iron. Use: condensation of vapours.

401549 58 C L C
ELBOW PUMP Capacity: 25 m/min, total head: 40 m, speed: 785 rpm, power: 250 kw, material: anticorrosive steel, carbon steel and cast iron. Use: conveying of bagasse.

401552 58 C L C
VACUUM PUMP Medium: air, discharge:
4000 cu m/hr, vacuum: 60 cm/Hg, power: 110
Kw, impeller speed: 450 rpm, water
consumption: 70 gpm, water temp: 60F, material
of construction: high grade cast steel and cast
iron.

401555 58 C L C
GATE VALVE Dia: 700 mm, PN 5Bar,
medium: steam, motion: manual - electric,
power: 1.86 Kw, speed: 52 rpm, material of
construction: carbon steels - alloy steels.

401558 59 C L C
THE PRODUCT EQUIPMENT AND
TECHNIQUE FOR ACTIVE LIGHT
CARBONATE OF LIME Its production
capacity is 3000t/year. The product is useful for
plastic and rubber. Such as, PVC soft carpet
shoe bind, micro hole plastic foam carpet shoe,
square floor brick. Materials of pipe and plant,
frame of door and window, tyre, cable, wire,
rubber plate and conveyor belt and so on.

Ref. No. Org.No. Status Offer Source 401564 65 F/C S C EQUIPMENT MANUFACTURERS FOR FRUIT AND VEGETABLE PROCESSING consists of 14 members who manufacture machines for: grading and packaging of fresh fruit and vegetables, processing of fruit, vegetables and roots for juice, canning, freezing and dehydrating.

OFFERS

401579 77 C S C
ASTA POLE COMBUSTION This product can save a lot of money to end users and can contribute to a better environment (up to 15% of fuel economy and up to 35% of noxious exhaust gases reduction). (For cars, boats, motorcycles, trucks, buses, tractors, construction and road machines, boilers, stoves etc).

401585 81 C L/J C MS, SS, ELECTRODES AND WELDING RODS complete technology on turn key basis.

401597 84 C L/J C
AUTOMATIC SEALING MACHINE used
by small scale industries for heat sealing of
plastic pouches. In this machine all sealing
parameters like sealing pressure, sealing
temperature, sealing time and cooling time can
be independently controlled to result in perfect
sealing of pouches of different film thickness
and material. Price approximately US\$ 600.

Org.No. Status Offer Source Ref No. 401620 96 C L MANUFACTURING DOT GRAPHITE CAST IRON which can be used on castings with strength, toughness and wearability, with this cast iron, steel can be replaced by iron and forging can be replaced by casting. Compared with other high strength cast iron, the technological process and technique of 'Xiao dot graphite cast iron' has the following advantages: as to the main furnace charges, pigiron is not confined to that of low phosphorus and low sulphur; the front treatment is table; the number of dot graphites reaches 700-800/sq mm; the castings have a good machinability and haven't any sinking or cracking tendencies.

401739 106 C L/S/J G
HEAT RESISTANT, HEAT INSULATION,
MATERIAL for steel casting. Natural mineral
is brought into grain, milled and then is used, in
a certain fractional proportion, as a protective
and heat insultating to cast steel, to warm up the
metal mirror, to manufacture, by way of pressing
and drying, the heat insulating blocks and plates.

401747 106 C S/L G
SELF ADJUSTING PULSE GENERATOR
The pulse generator in set with the feeder is used for recovery of broced dies, drills, screws, piercing small holes in hard alloy and hardened tempered metals by electro-erosion. For mechanical assemblage, repair and other works.

401748 106 W S/L G
HIGHLY EFFECTIVE CATALYSERS
Components of mixed catalysers, preparation of the catalysers, experimental models of catalysers on full size units made of silicon nitride.
Technology of preparation of unit catalysers on metal carriers for cleaning waste gases of internal combustion engines operating on ethylated gasoline.

Ref. No. Org.No. Status Offer Source 401924 218 \mathbf{C} \mathbf{C} L/J FIBREGLASS REINFORCED PLASTIC MOULDING hand lay-up process. Consumer and industrial products moulded from glass fibre. Uses: consumer - sheets, storage tanks, furniture, cladding etc. Industrial - FRP lining, chemical storage tank, acid proofing. More durable than plastic because of fibreglass reinforced, completely anti-corrosive, lightweight, easy moulding, aesthetic, weatherproof.

401933 226 J
MACHINERY AND PUMPS Irrigation
pumps, various industrial fittings and accessories.
Pre-feasibility study available.

401996 380 C L/J C
MSGL CERAMIC SENSOR SERIES Our
MSGL ceramic humidity products are composed
of a convertor (humidity resistance) which is
made from the natural ceramic ore. The structure
of the product is simple. It has the character of
small volume, is corrosion resistant and has a
long usage life. It can be cleaned without being
warmed. The series of sensors apply to industry,
agriculture, military defence and the testing of
humidity and environment.

402070 288 C L C
CORE MOULDING PROCESS involves
filling of core box with sand mixed with furanic
resin and hardening agent for the production of
complex cores of higher quality.

402233 364 C L/J C
ALUMINIUM BURNER TAPS FOR LPG
COOKERS The process consists of hot (or
cold) forging of aluminium slugs, machining to
size, punching out of the holes and machining
(or polishing) to final size and shape. Its main
uses are in kitchen cooking appliances (cookers)
which use LPG or natural gas.

Ref No. Org.No. Status Offer Source 402242 360 C J TEXTILE FINISHING RESINS (thermosetting resins). The processes available include the production of melamine resins, urea resins, phenolic resins, furan resins.

TRAY PACKING MACHINE This fully automated tray erector/loader is designed for collating bottles, cans, cartons etc and loading them on to a cardboard blank, which is then formed into a tray for the storage and distribution of the products. Its compact dimensions and standard conveyor heights enable it to be integrated onto existing production lines with the minimum of alterations.

402312 323 C L
SMALL SCALE CONCRETE BLOCK
EQUIPMENT A small 12v vibrator, the Multivibe, can be attached to wooden or metal formers for wall blocks and interlocking concrete water tank blocks. By the use of vibration the cement content of these products can be kept as low as possible.

501022 376 C L C
MOBILE COMBINATION ROLLFORMER and represents a 'factory on wheels'
which transforms the conventional procedures
of roll-forming ferrous and non-ferrous material
into a fast, safe and efficient operation. Runs on
single phase electricity or generator or on solar
energy.

501068 394 W J C COMPOSITE STRUCTURES High volume, high quality manufacturing equipment for composite structures. Very low cost mould tools available.

Ref. No. Org.No. Status Offer Source 501077 394 F L C NEW BOLT DESIGN Existing bolts and rivets have many deficiencies. A new bolt has been developed which grips radially and longitudinally and resists all load combinations. Is vibration resistant insensitive and undemanding of tolerance, easily fitted and cheap to make.

501086 394 F L/J C MEMBRANE BASED SEPARATIONS for water, wastewater and industrial process separations includes process control instrumentation.

501095 396 C J C COPPER BASED BRAZING ALLOYS Low silver brazing alloys that contain 5-24% Ag have low melting point (602 - 760 C) and high tensile strength (400-499 N/mm); H1Cu-3-B silver free brazing filler metal is low melting point (800-830 C) high tensile strength (greater than 450 N/mm) and good ductility (greater than 28%).

501120 394 U L/J C PLASTIC WELDING High speed, high integrity welding process for sheet plastic. Suitable for geophysical applications, landfill sites, rivers and water authorities inflatable structures.

501125 393 U L C
GAS/SOLID REACTION TECHNOLOGY
Expertise in fluid beds, rotary kilns, computer models. Theory and practice. A dynamic simulation model of rotary kilns provides a theoretical understanding which is transferable to non-nuclear applications.

501152 393 F L C
REMOTE GAS PRESSURE CONTROL
Electronic gas pressure control and telemetry
unit for remote governor installation.

Ref No. Org.No. Status Offer Source 501170 19 C J R EXPORT AND IMPORT AGENTS for primary and manufactured products and industrial raw materials. Acting as agents and representative for locating and evaluating firms for joint ventures and collaborations. Agents to locate and negotiate with buyers or sellers. Agents for contract manufacturing.

501192 129 U S/J R
FRESH RUBBER WOOD FOR FURNITURE
MAKING Freshly cut rubber of regular sheets
are soaked in tanks filled with a previously
prepared chemical solution (mixed chemicals),
taken out, drained and kept enclosed in bundles
of polythene sheets for the required duration,
later dried and used for furniture making and
other similar purposes. Rubber wood freshly cut
is now being used for firewood etc and there is
big value addition in the process. There is a wide
market for such wood for furniture making.

501344 380 C L C
DIVING ELECTRIC PUMP FOR SEWAGE
Rate of flow: 400 cu m/h. Lift: 15M. Necessary
power: 30 kw. Efficiency: 57.09%. Max granule
size passed: 80 mm.

501362 396 C L C MODIFIED POLYSTYRENE MATERIAL FOR HOUSEHOLD **ELECTRIC** APPLIANCES The product made by mechanical blending of polystyrene with thermoplastic elastomer is a kind of plastic alloy with excellent properties. It is used to replace ABS resin to make lining materials of refrigerators and doors and various injection mouldings. The material can be easily extruded and processed. In the process no pollutants are discharged. The product is not poisonous and can be used as material for food packaging.

Ref. No. Org.No. Status Offer Source 501369 396 C I/J C ANTI-BLOCKING MASTER BATCH The product is made by taking polyethylene as base material and adding anti-blocking agent and dispersant. The process is simple and the raw material is easy available. The new product has reached the standard of the same type product abroad in appearance and stability in uniform dispersion as well as film shaping, anti-blocking, mechanical property and transmittancy etc.

OFFERS

501371 396 C L **MASTERBATCH FOR** COLOUR POLYETHYLENE CABLES The product produced by a special process is a high efficient colourant for plastics with the properties of high dispersibility, good resistance to heat, migration, grease, solvent and chemicals. The product has many advantages such as: no negative effects on the electric properties, mechanical and ageing properties of the cable, good recapitulation of colour and lustre, simple colouring process and no pollution.

501408 396 C L R
IN-D TOBACCO BUD INHIBITOR The product is mainly used to inhibit the growing of tobacco bud in the middle and late growth period of tobacco leaf. The utilisation of the product will improve the yield and quality of tobacco, save a great amount of manpower and reduce the production cost of tobacco leaf.

501446 394 U L R
MYOCARDIAL INFARCTION Apparatus
for correct and prompt diagnosis of myocardial
infarction based on detecting changes in
frequency of sounds from the heart.

Ref No. Org.No. Status Offer Source 501457 2 F L/J C CENTRIFUGAL PUMPS Size 3 in. x 2 1/2 in. to 8 in. x 7 in. (suction x delivery) having capacity 1000 GPM to 1400 GPM. Head range 30-100 feet for different models. Applications in agriculture, water supply and industry.

501647 106 P L/S/J G
ORGANISATION OF FORESTRY
Mathematical models and tables of the process
of growth of forestry and model stand of trees,
simulating model of transferring the faults when
planning the fellings.

501670 106 C L/S/J G
SOLDERING PASTE for high temperature soldering. The suggested paste has been prepared on the basis of biologically harmless water soluble adhesive. The paste is adaptable to the technology and betters the soldering quality, does not lose its properties while in store for 10 days, ensures firm adhesion, excludes the formation of soots due to complete burning of the adhesive. Non toxic and inflammable.

501722 106 C L/S/J G
NOISELESS DISC SAWS for sawing wood, stone and metal. Manufacture of piece and layer sections in the body of saw disc in order to diminish the harmful effect of vibration and noise. For wood and stone work industry. Tolerable noise.

501749 106 C S/L G
INSTALLATION OF DETERMINING
VOLUMES by gas method. Closed volumes in
capacities of various configuration are determined
by gas method on installation consisting of an air
feed system, thermostat, power supply cabinet.
The installation makes it possible to determine
the volumes by way of comparing the air
pressure in the target and standard capacities
while feeding the air in equal portions.

Ref. No. Org.No. Status Offer Source 501776 124 F L R PRODUCTION OF ROOF TILES and for other smaller parts by automated casting of high aerated and fine granulous concrete is developed for industrial use. The energy consumption is lower and roof tiles are 15% easier.

OFFERS

501923 217 J C WELDING TORCHES 10 000 pieces per year. Equity participation \$ 2 000 000. Export: 50%. Pre-feasibility study data available.

380 501995 C L/J C HARD CHROMIUM PLATING PROCESS The technologic indices of the invention are as follows: 1) cathode efficiency is in range of 50 - 55%. 2) when cathode current density is 50-60 A/sq dm single sided plating rate is at least 130 m/h normally in range of 140-170 m/h. 3) the deposit is clear bright and its hardness is 900-1100Hv. 4) the adhesion of deposit is dependable. 5) Throwing and covering power for rapid plating bath is better than of conventional bath. 6) the rapid chromium bath has no low current etching on aluminium alloy and steel substrate.

502011 254 F S P GRINDING MACHINES 1. Cylindrical grinding machines. 2. Bore and track grinding machines for bearing industry.

502034 265 U S P
ABRASIVES I can offer technical know-how for coated abrasives (flint paper, emery cloth, aloxite resin sander discs, SiC waterproof paper, aloxite resin cloth etc) with or without machinery. Machinery/plant to cost Rs 2.00 lacs to RS 30.00 lacs depending on capacity and products to be manufactured.

Ref No. Org.No. Status Offer Source 502056 281 W S U TIMBER INDUSTRY Modern techniques in timber industry. Mainly in wood processing. With relevant information on wood cutting tools and wood machinery.

502246 356 C J C
REINFORCED HIGH PRESSURE HOSES
The proposed process is to invest in a plant in
Turkey to produce the mentioned product with
foreign investment and Turkish production
working together. The proposed standard
capacity is approx 50,000 mt (various diameters)
using steel-rubber-fabric as a raw material.

502253 349 C J C
WOODEN BUILDING ELEMENTS
furniture. Proposed standard capacity: per year;
600 bedroom sets, 200 dining room sets, 400
living room sets, 7500 m2 doors and windows,
1000 m3 baked timber.

601003 86 C L/J P
THERMAL DRESSING
REINFORCEMENT OF ROLLED SHAPES
Technology envisages optimisation of
deformation modes in stand of rolls and
accelerated shapes cooling regulated over the
section. Cooling device is of the through type,
used before or after finishing stand. Used in
section mills.

601012 380 C L/J C

JF SERIES OXYHYDROGEN WELDING
CUTTING MACHINE has new and original
techniques and a compact structure. It is easy to
operate and safe to use without pollution. The
machine costs only 1/10 of the operation of
oxycetylene flame, saving more than 50% of
electric consumption. It is the perfect substitute
product for the traditional oxycetylene generator.
It is suitable to the process of a wide range of
industries.

Ref. No. Org.No. Status Offer Source 601030 395 P L U NANOSECOND RF SWITCHDRIVER An extremely high speed driver circuit for nanosecond switching of GaAs semi-conductor devices and other reactive loads such as PIN diodes in microwave switch modules. The device utilises two stages of voltage level translation to permit low voltage TTL logic control signals to control the application of high voltage switching pulses to a load.

601067 396 C L/J C COMPLEX GLAZED CORRUGATED SHEET the large size rigid tile roofing, the perfect construction material substitute for the corrugated asbestos-cement sheet (CACS). Because of its complex structure adopted, the advantage of every substance from which the product is made is fully brought out, so that CGCS is a fine looking, cheap and durable article with perfect materials and excellent mechanical properties.

601147 393 F L C WEIGHT **COMPOSITE** LIGHT MATERIAL for buoyancy applications or as a reinforcement. Licence offered for the manufacture and sale of 'Vicast'. The material consists of hollow spherical silicate microspheres in a resin matrix with an optional inert filler, allowing accurate control of density and buoyancy. It may also be used as a reinforcement for lightweight structures such as honeycombs.

601165 393 U L U
PROPERTIES OF CONCRETE Effects of admixtures; rheology of fresh concrete and cement paste. Non destructive testing of concrete and structural brickwork.

Ref No. Org.No. Status Offer Source

601353 400

ELASTIC GUIDING OF CONVEYANCES ON RIGID GUIDES Elastic guiding of the conveyances running on rigid guides limits the influence of the mass and winding speed on the dynamic loads of the guides and buttons and increases the durability of the conveyance and winding and balance ropes. In this system the elastic guiding is achieved by an independent elastic connection of the guide roller axle with the conveyance. Three guide rollers are joined together into one rigid set which is mounted resiliently to the conveyance. This system allows to increase the transverse displacements of the conveyance without increasing the spacing.

601355 400

MAGNETIC METHOD (MAGNETIC DEFECTOSCOPY) the most objective way of an assessment of wire ropes and ferromagnetic elements from 10 to 105 mm diameter. It is used also to test rubber coated flat ropes, steel reinforced belts etc. The instruments for rope testing use of static magnetic field and detect broken wires corrosion, abrasion, notches etc.

601364 396 C L C
COLOUR MASTER BATCH FOR ABS
RESIN The colour masterbatch for ABS resin
is a kind of colourant produced by completely
mixing ABS, AS, pigment, dispersant and other
aids. Colouring of ABS resin articles with the
colour masterbatch is simple. During the process
the equipment cannot be contaminated, no
pollution to environment. The articles in which
pigment is dispersed uniformly have smooth
surface and good appearance.

Ref. No. Org.No. Status Offer Source G 601382 396 J PITCH BASED CARBON FIBRE (GPCF) FOR GENERAL USAGE The product possessed of the characteristics of lightweight, high temperature resistance, high corrosion resistance, high specific strength and modulus, excellent thermal and electrical conductivity etc. A lot of special materials are made of GPCF and cement, plastic, rubber and pyrolytic carbon, such as thermal insulation material, building materials, anti-static materials and seal materials etc. Also activated carbon fibre can be produced from GPCF.

601415 396 LJ C C **SELF** LOCKING **MULTI-ROLL** SHEARING MACHINE The machine can be used to conduct the longitudinal shearing for plate steel, spring steel, silicon steel sheet, aluminium, copperand their alloys. The shearing length is not limited. The shearing width can be adjusted by stepless control. It is possible to achieve the composite shearing for various specification of materials and to replace the group cutter blade.

601444 394 M L C
COMBINED CONTROL SYSTEM for sensors and wastewater treatment plant.

601453 393 F L C
AIR SEPARATION TECHNOLOGY using low temperature fractionation principles. Nitrogen plants, oxygen plants, liquefiers and multi-product air separation plants including argon. Plant capacity range from 5 tonnes/day nitrogen and upwards. Products offered may be any or all of the following: nitrogen, oxygen and argon; liquid or gas.

Org.No. Status Offer Source Ref No. S 601489 24 R TCTX - 460 DECORATING EDGE AND GOLD SETTING MACHINE for ellipse porcelain dish can use the decorating edge and gold setting of any ellipse product and different circle blank. The machine is simple to operate. Advantages of the machine include adjustable speed settings and saving on electricity. Good efficiency and comfortableness are the main features of the machine. The sizes of ceramic products: 152 mm - 460 mm (6 in. - 16 in.).

601498 30 F J C
PLASTIC PROCESSING including extrusion, injection moulding, blow mouldings. Designing of plastic piping systems for various applications, including irrigations.

601568 68 F/C C S
FRUIT AND VEGETABLE
DEVELOPMENT PROJECTS For: research
and production, conditioning and packaging,
canning and cold storage, transport and logistic,
trading, financing and compensation.

601616 92 C L/J C **THERAPEUTIC** INFRARED INSTRUMENT TO CURE HYPERTENSION WITH SPECIAL EFFICACY The instrument outputs infrared radiation signal modulated by low frequency fluctuation. Simply put the radiation head on the centre of the top of human head while using, then therapeutic effect will be achieved. Clinical examination indicates that the effective rate of treating hypertension is 71.07%. In addition, other inventions by the Institute for generating the special electromagnetic signal are available.

CATEGORY 2: LIGHT INDUSTRY

Ref. No. Org.No. Status Offer Source C L/S/J G 601656 106 DEVICE FOR REBURNING EXHAUST GASES The reburning takes place as follows: additional fuel (natural gas) is fed through a burner into the chamber. The fuel burns, while getting mixed with injected air, and the high temperature flame is directed by dissector into the exhaust gas zone. There the gases are mixed with flame and burn out. The products are evacuated from the chamber by an exhaust ventilator through branch pipe, they mix with air and get cooled to 120 - 150 degrees C.

OFFERS

601675 106 P L/S/J G
ALBUM OF STAIN GLASS PANEL
STRUCTURES Determination of snow loads
on panels. Calculation of smelting for separate
pyramidal glass panels and panels adjacent to the
height difference wall of building top, for three
types of transverse transparent guard at different
slant angles and building temperatures.

601679 106 W L/S/J G
TUNNEL VENTILATION Non-reversive
system of tunnel ventilation of underground
(metro). All year air feed into the tunnel,
evacuation of air from under the platform.
Reduction of power consumption for tunnel
ventilation, improvement of microclimate.

601688 106 C L/S/J G
MANUFACTURE OF MULTI-LAYER
WIRE with high magnetic permeability.
Manufacture of wire with copper core and
alloyed steel coat. For use in manufacture of
noise suppressing conductors for electric supply,
electronics and electrical equipment. The
manufacture of wire absorbing high frequency
interference reduces the demands to the filters
and in some cases, to preclude them at all.

Ref No. Org.No. Status Offer Source 601697 106 C L/S/J G MAKING OF DEEP HOLES by electroerosion. The problem of evacuation of wastes has been realised by an instrument electrode of an up to date design for machine building, machine tool industry. Simple and easy in use, small size of new class electroerosion machines.

601706 106 P L/S/J G
HOT EXTRUSION of fine profiled blanks tool for machine tool building industry.

601723 106 C L/S/J G VOLUMATRIC PUZZLE The play is designed to develop spatial imagination and logic thinking.

601750 107 F J P
PRINTING INKS Technical know-how and expertise in all types of printing inks manufacture with latest type motor mill triple roll mill and beed mill.

501795 134 W S/L G WARNING SYSTEM FOR GAS CYLINDER Design and fabrication of a measuring instrument for attachment to the domestic gas cylinder to monitor and serve as a warning system of fuel gas depletion from locally sourced materials. To measure fuel gas pressure and to give an early warning of depletion.

601922 217 J C
DOOR LOCKS, PADLOCKS 70, 100 000
pieces per year. Equity participation offered \$
500 000. Export: 80%. Pre-feasibility study
data available.

602074 288 C L C
MANGANESE STEEL Steel production
technology using Mn (Manganese) GX120
Mn12.

Ref. No. Org.No. Status Offer Source 602237 362 C J C CABLE MANUFACTURING Telephone cable, PVC sheathed cable for energy and control, XLPE insulated energy and central cables. Rubber sheeted cables, damp-proof cables, N-insulated wires.

602308 322

A POWER TRANSMISSION The link reduction gear is designed to transmit rotation between two parallel or coinciding axes with both stepping up or stepping down the output shafts. In heavy engineering industry, incorporated into cargo winches drive mechanism, into that of cranes, underground escalators, conveyors, vessel shaft lines, speed gearboxes, be used as a moment multiplicator for tightening threaded connections etc.

C 396 701048 SAFETY GLASS PREPARED BY CURING POLYURETHANE COMPOSITIONS Safety glass is widely used and for the most part such glass laminates are made using polyvinyl butyral in sheet form as the interlayer material and they are produced using high temperature and high pressure laminating techniques. Not only are such laminating techniques difficult and cumbersome, but the thermoplastic interlayers often do not meet the level of performance. New types of interlayers, polyurethane compositions, are used to produce safety glass by cast-in-place procedure, which possesses highly desirable characteristics

701066 396 F S C
ROTATABLESOLE The technology is suitable to use for various kinds of shoe factories and rubber plants (sole products) to make moulds. The technology is very practical, the shoes manufactured by such technology have longer heel life.

Ref No. Org.No. Status Offer Source
701075 394 F L C
REMOVAL OF HEAVY METALS from
waste streams. Volume minimisation ratios of
10,000 to 1. Significantly reduces costs compared
to similar processes.

701084 394 F L J
REHABILITATION OF UTILITY
CONDUITS including water and gas.

701142 393 U L U
HYDROSTATIC BEARING SYSTEMS A
number of applications have already been
successfully licensed. High speed machining
and stationary arbor back-up roll bearings are
being developed.

701151 393 U L C
GUIDED HYDRAULIC MOLE bores
underground track to enable small diameter
pipes to be inserted with minimum excavation.

701160 393 W L C
INTEGRAL PYROLISIS AND
INCINERATION High temperature system capable of producing 30 million BTU/unit from
materials such as rubber tyres, animal and
human excrement, waste oil, oil sand/shale.
Emissions rendered colourless, odourless and
harmless. Low operating cost.

Ref. No. Org.No. Status Offer Source 701246 165 F/C L/S C PURE CATACHINE FROM KHAIR TREES Pure catachine is known to have medicinal values and finds its application in a number of pharmacological preparations.

701339 389 C L P
A PORTABLE LIGHTWEIGHT SINEL
CYLINDER pegtoothed type corn sheller, consisting of hopper, shelling assembly, cleaning and discharge outlet made of steel and welded.
Capacity of 1 ton per hour.

701346 267 P S R
DOUBLE FILAMENT GENERAL
STANDARD BULBS low cost, technical knowhow and on turnkey basis.

701384 396 C J G
GLUED RARE EARTH PERMANENT
MAGNETICS The materials have the
advantages of single injection moulding,
extrusion moulding, high precision in size,
being able to be made to all kinds of complex and
thin parts, and also being able to be mixed with
other metal element. So the materials can be
widely used in the field of electrical machinery,
medical apparatus, outer devices computers,
electrical equipment for household, automobile
etc.

701406 396 C L R
HIGH TEMPERATURE RESISTANCE
CARBON GRAPHITE SEAL MATERIAL
A carbon graphite impregnated seal material
characterised by good seal ability, lower friction
coefficient at high temperature, lower costs and
broader prospects as high temperature material.

Ref No. Org.No. Status Offer Source 701487 22 C J U HSS STEEL WIRE ROPE HAND OPERATED HOIST is a new type of lifting and pulling machine. It can work at any direction and length with no power supply. It is noted its compact, lightweight and its portable feature. (main technical parameter: lift 1600 kg, draw 2500 kg).

701541 58 C L C
RAILWAY WAGONS Designed for cane transporation from fields to factories. Gauge: 600 mm, 750 mm, nominal capacity: (10-17) ton, dead weight: 2.7, 3.8 ton, dimension: 6x1 8x2.2 m, 7.6x2x2.3, material of construction: alloy steels, mild steels.

701544 58 C L C
HEAT EXCHANGERS Surface area: up to
300 sq m, dimensions: dia 1000 m, length: 4100
mm, dead weight: 13 ton, No of tubes: 750, tube
dia: 100 mm, material of construction: anti
corrosive steel, stainless steel. Use: juice heating
and similar industrial operation.

701547 58 C L C
VACUUM FILTER Capacity: 60 ton/day,
surface area: 42.4 m, medium: pulp, total
weight: 38 ton, working speed: 1-5 rpm, material
of construction: alloy steels, stainless steels.

701556 59 C L C
THE PRODUCT EQUIPMENT AND
TECHNIQUE FOR LIGHT CARBONATE
OF LIME Our plants production capacity is
40000t/year. Main product is useful for rubber
and plastic and other lines. Such as, making
paper medicine and dope and so on. Our plant
undertook many times design of plant of
foundation. Based on user's needs. We can
design plant needed by user and are willing to
co-operate with foreign users.

CATEGORY 2: LIGHT INDUSTRY

Ref. No. Org.No. Status Offer Source

OFFERS

701571 70 F/C S C
EXCHANGE OF FOOD PRODUCTS AND
AGRICULTURAL TECHNOLOGY
Exporting professionals seeking to become
partners in the fields of research, engineering,
transporters, equipment constructors,
agricultural suppliers, public and financing
organisations.

701598 84 C L/J C
TONG TYPE PLASTIC BAG SEALING
MACHINE used for heat sealing of large sized
plastic bags. This device is very convenient
when the bag is very heavy to be carried to the
sealing machine. But the sealing jaw can be
conveniently taken to the bags for sealing. Price
approximately US\$ 215.

701603 86 C L/J P
PRODUCTION PROCESS OF HIGH
RESISTANT ABRASIVE TOOLS
Compositions for reinforcement of abrasive
grains, composite fillers which decrease
oxidation of surface and heat release in zone of
contact; new compoundings of abrasive tools
which increase their resistance and cutting ability.

701612 89 C L/J R
MANUFACTURING LASER DISTANCER
AND COMPASS IN FOREST The instrument
from the Forestry Science Research Institute of
Jilin Province has three functions as follows:
direction finding, distance finding and the
horizontal distance reading on a mountain slope.
Its specifications include: measurement range60 M or 120 M, the mainimal graduation scale
reading - 5 CM or 10 CM, the length of
receiving staff - 160 CM.

Org.No. Status Offer Source Ref No. 701657 106 P L/S/J G HYDROMETRIC \L WEIGHS Measurement of the gas mass consumption when determining the volume of capacities by liquidless method. Include pressure accumulator, aquarium with distilled water, receiver for balances. Pressure accumulators with a reserve of gas are balanced by a pushing force of water, thus enabling to measure the gas consumption at the highest accuracy.

701661 106 M L/S/J G
ITEMS OF BASALT FIBROUS CONCRETE
and technology of their manufacture. Metalless
and low metal content structure from fibrous
concrete on the basis of coarse basalt fiber. No
or reduced (by 40% to 60%) consumption of
steel in concrete structure.

701666 106 M L/S/J G
DRY TANNAGE OF LEATHER for thread and glue secured shoe bottom. Traditional method f shoe making with the use of specially elaborated and tested processes. Production of high quality leather at short pre-tanning and tanning operations, decrease of tanner, water consumption. Complete absence of free phenols and chrome content.

701724 106 C L/S/J G
MINIATURE BELLOWS CONSTRUCTION
Automated process of laser welding. The welded
bellows is assembled of profiled diaphragms
and are welded by laser beam along the inner
hole and outer contour. The bellows are made of
corrosion resistant non-magnetic band with high
elastic properties. The laser welding makes the
bellows airtight when pressure tested.

Ref. No. Org.No. Status Offer Source 701733 106 C L/S/J G FLYING WING Flying wing screen plane with fuselage on air cushion. Structurally, it is a delta shaped wing, on whose lower surface the deflecting rigid flaps create under the wing a multichamber cupola. In the cupola, the air bleed fromt he gas turbine engines creates static air cushion necessary for take off and landing. High aerodynamic properties at subsonic speeds, amphibious and landing on no runway terrain.

701742 106 C L/S G
MANUFACTURE OF MESHED ARTICLES
by electrochemical treatment. This technology
does not require the use of chrome containing
components for the electrolite and reduces the
toxicity. For machine building, chemical and
food industry, in the manufacture of
commodities. High quality meshed articles due
to even etching of the blank holes and obtaining
clear contour of each cell.

701948 231 C L/J C ARTIFICIAL ANTIQUE STONE PANELS made with polyester resin and glassfibre, which, due to the manufacturing system, results in unique characteristics not found anywhere else in the world. Due to components used, the panels present an accurate imitation which is difficult to distinguish from the real thing. The product is offered in different imitation finishes: stone, tome 'opus spicatum', blackboard, round stone etc and different forms: wall, angular, arches, curves etc.

702069 288 C L C
MOULD CASTING The technology comprises
a moulding process using sodium silicate
hardened with CO2. The process is suitable for
casting large parts. Process suitable for core
moulding: higher quality as compared with
green sand; casting of parts in ordinary steel;
non-corrosive for cast iron of all kinds.

Ref No. Org.No. Status Offer Source 702078 291 C J C ROBOTISED WELDING OF FORK PRONGS FOR FORK-LIFT TRUCKS Welding of 12,500 to 15,000 small and medium size details of low alloy, medium carbon, high strength per year, requiring pre-heating steel. Fully automated process, high quality of the welded seam, produced by pulse arc welding. Raw material and flat strip steel.

702096 298 C LJ C RARE EARTH MODIFIED CASTING NYLON (RMC NYLON) The RMC nylon manufactured by using the technology is more superior than the conventional modified casting nylon (MC nylon) in both physical and mechanical properties. RMC nylon is good for making gears, turbines, axle sleeves, bearings, slide blocks, pins and other machinery parts. By using the technology, 10-100 tonnes of qualified RMC products can be made per month. The sale price: 3800-4000 US\$/tonne. The initial investment will be 150 000 US\$ if the monthly output of 10 tonnes of RMC is planned.

702113 313 C LJ C MANUFACTURING OF LABORATORY GLASSWARE The technology and the technique is mainly used for making and repairing laboratory glassware. The services include: A. technique transfer, the technique charge: US\$ 12,000. B. training course at home (6 months), the tuition (with accommodation) is US\$ 2,000. C. Training course abroad or co-operation in any way, the specific agreement can be reached through negotiation with the interested customers. The developing countries will have the preserential fee for the above 3 items. The working language is English and Chinese.

CATEGORY 2: LIGHT INDUSTRY

702122 318 F S G
MECHANICALLY FED RESISTANCE
HEATERS The heater type UR-201 designed
for heating round steel bar ends before forming
is expecially suitable to production of different

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OFFERS

for heating round steel bar ends before forming is especially suitable to production of different screws, bolts, rivets etc, manufacturing by heading. Type UR-224 is used for heating bar middle parts. Energy consumption is 40% lower than in chamber furnaces.

702152 329 W L/J
NEW MACHINE TOOL FOR MUFF
MACHINING Machines for cutting pipes and
for threading pipes of muffs from 1,9 inches up
to 24 inch diameter. Allows simultaneous
machining both tips of a muff, increasing
productivity. Machine uses the most recent
technologies allowing its integration in fully
automatic flexible systems.

702221 165 F/C L/S C EXPANSION JOINT FILLER FROM COCONUT PITH The expansion joint filler can be used for concrete pavements, bridge decks and other structures.

702250 352 C J C
WOODEN BUILDING ELEMENTS furniture. Proposed standard capacity: 12000 cu
m per year.

702266 343 P S P
SOLVENT FILM CARBONS process.
Resilient honeycomb ink coating on polyester film. Produces high grade typewriter, pencil carbons and ribbons. Cutlasts 20 to 100 times and costs 1/3rd of ordinary carbons. Typewriter keys never touch ribbon ink. Project cost US\$ 350,000, technology fee US\$ 20,000 plus 5% royalty. Profit above 60%.

Ref No. Org.No. Status Offer Source 801010 212 W L C MECHANICAL PROPERTIES OF SOIL New method provides effective determination of optimal humidity for maximal density of soil, for construction of roads, investigation of soil, for building of aerodromes, railway.

801029 395 P L U
METHOD AND APPARATUS FOR
DETERMINING SEMI-CONDUCTOR
CHARACTERISTICS A method and apparatus
for improved measurement of the profile of
carrier concentration versus depth of pn semiconductor junctions which compensates for the
capacitance of the junction and is, therefore,
more accurate than previous techniques.

801038 396 C L G
MODEL U60W HORIZONTAL TANK CAR
FOR BULK CEMENT type U60W pneumatic
unloading horizontal tank car for bulk cement is
a special one for transporting cement, the tank car
was welcomed by users

801065 396 F S
CONSTRUCTION ENGINEERING STEEL
(bars/pipe) of curl field stress. This new invention
can be applied to the concrete products, such as
columns, beams, piers, foundation, concrete
slabs and piers of bridge and so on. The steel
produced by this technology can be used in
buildings, bridges and tunnels or in any concrete
products without any technological alteration
and hindrance when the steel is applied.

801074 394 W L/J C WASTE GAS RECOVERY High performance membrane for recovering industrial waste gases.

801083 394 F L J
MIXED PLASTICS WASTE Plant and equipment for separation and recycling.

Ref. No. Org.No. Status Offer Source 801092 394 F L C WATER DESALINATION PLANT (ON BOARD) through reverse osmosis automation analysis and control plant.

801155 393 F L C
AQUEOUS COATINGS on rigid substrates.
Specialist capability for manufarturing coated rigid substrates eg glass, up to 0.5 m square.
Strippable and adhering gelatin coatings. Other aqueous based coatings can also be used.

801164 393 U L U
INTERNAL COMBUSTION ENGINE
DESIGN A suite of computer programs (in
Fortran) for performance evaluation of diesel
and petrol engines, in turbo charged or naturally
aspirated form. The programs allow for the
passage of pressure waves in the intake and
exhaust manifolds, for dissociation and rate
kinetics and may include data on pipe junction
loss co-efficients.

801178 106 P L/S/J G
IMPROVING GEAR WHEEL
MANUFACTURE Control of the reliability
when manufacturing the gear wheels. We offer
the technology of production of the gear wheels.
Increased reliability of production of the gear
wheels.

801332 386 F J P
ELECTRICAL INDUSTRIAL FURNACES
for annealing normalising salt bath, carburising
and all other industrial applications. Type - pit
type, bogic hearts, pusher type, vacuum or inert
gas atmosphere etc. Laboratory model furnaces.
Temperature sensors as thermocouples.

Ref No. Org.No. Status Offer Source 801341 389 C L P A PORTABLE AXIAL FLOW throw-in, pegtoothed type with pneumatic thrower thresher, made of steel and welded. Thresher capacity if 99.5% purity, damaged grain 0 and cracked grain 1 which is an advantage over the other threshers.

801366 396 C C FIRE RETARDING HIGH IMPACT POLYSTYRENE Taking high impact polystyrene (HIPS) as base material the product is made by adding fire retardant, impact modifier, dispersant and other additives, and by once through process with a common single screw extruder. The material is mainly used for manufacturing cases of household electric appliances such as television set, radio set, tape recorder, computer etc. It can also be used to manufacture distribution panel, cases of small electric instruments, furniture etc.

801386 396 C J G
HIGH TOUGH CERAMIC COMPOSITE
FOR CUTTING TOOLS A variety of improved
ceramic inserts are now available. Thus ceramics
possess the best performance in its own
application scope including the following
systems: Alo-TiC-Metal, Alo-TiC-Metal and
special add, Alo-Ti(C,N)-Metal, Alo-(Ti, W)CMetal, Si N -Ti(C,N) etc.

801404 396 C L R
LIGHTWEIGHT MATERIAL FOR HEAT
INSULATION AND SOUNDPROOFING
The product is designed for heatproof material
on steel pipeline in the field of petroleum
transportation. It can also be applied to chemical
engineering equipment and architecture.

Ref. No. Org.No. Status Offer Source 801458 2 F L/J C TURBINE PUMPS Vertical line shaft turbine pumps of bowl diameters 5 5/8 in. (143 MM) to 13 1/2 in. (343 MM). Capacity 60 GPM to 2250 GPM (0.16-6 cu secs). Heads up to 500 feet (152 metres). Design: mixed flow-impeller with guide vanes (bowls) in multistage. Fitting suspended through column pipe, sockets fitted with bearing for line shaft. Discharge to hold suspension of column and bowl assembly. Applications in water supply and irrigation.

801553 58 C L C
CENTRIFUGAL PUMPS Discharge: 120900 L/S, power: 130-300 Hp, head: 5-40, medium: water - juice, material of construction: grey cast iron, stainless steel.

801608 86 C L/J C
REINFORCED CONCRETE MATERIALS
Technology of heat and moisture treatment of reinforced concrete and other items. Reinforced concrete and other porous materials are subjected to heat treatment by vapour-smoke-air mixture obtained in vapour-heat generator mounted in the immediate vicinity of the treated item.

801626 102 C L/J C
ATTAPULGITE CLAY ACTIVE
TREATMENT Its technology property is as
follows: the processing is rather simple. It not
only reduces its energy consumption, but also
can avoid the three wastes. The decolour
capability of the product can reach over 200.
Free acid < 0.2%.

801689 106 C L/S/J G
PREPARATION OF MESHES FOR SAMPS
used in manufacture of plate materials.
Manufacture of filtering meshes of special
interweaving. The use of flexible mesh samps
has made it possible to intensify pressing
processes.

Ref No. Org.No. Status Offer Source 801716 106 C L/S G AGRICULTURAL DRAINAGE Inclineless and closed horizontal drainage. At natural slopes less than 0.002 a drain line with little slope which is the replica of the terrain slope. Increases intermediary drainage to some 25%.

801725 106 C L/S/J G
STRAIGHT DRAINAGE A design of deep
straight drainage with risen waterways which
makes it possible to better the land reclamation
condition in the given area. For use in salty and
irrigated fields. Possibility to use the collector
drainage systems at risen waterways of drainage.

801743 106 C S G
MANUFACTURE OF MESHED ARTICLES
by electrochemical treatment. The meshes are
manufactured by way of two-side electrochemical
milling with an AC while suspending blanks to
all electrode bars with photochemical portraying
of the mesh on both sides of metal plate.
Thereafter the ready articles are washed dried,
enlighted. This technology does not require the
use of chrome containing components for the
electrolite and reduces the toxicity.

801751 108 F S C
PRODUCTION OF COLOUR TV (21, 25, 28 inch stereo/mono) teletext, SCART, multistandard and technology for assembling, soldering adjusting and controlling of electronic modules (including SMD technology).

801770 118 L C
DENTAL EQUIPMENT (chairs and units) very modern dental patient chair. The cooperation should be based on the fact that we use a lot of modern plastic technology in many parts of the chair, the plastic technology with expensive moulds being designed for large quantities. The rest of the chair (metal, electronics, installation) could be made locally.

OFFERS

CATEGORY 2: LIGHT INDUSTRY

Ref. No. Org.No. Status Offer Source 801779 128 C S P PRODUCTION OF CITRONELLA OIL Production consists of two stages i) cultivation of citronella grass; and ii) distillation of cultivated grass for extraction of oil. Cultivation of citronella grass can be undertaken on wastelands, hilly slopes and on high lands which are not suitable for cultivation of crops like paddy.

BO1920 214 J
DOUBLE LAYERS BLANKET covers etc, made of pure wool pile and blends with manmade fibres. Production of knitted pile fabrics 'maxipile' pure wool or blends, finishing to 'lamb effect' and 'biber effect'. Capacity: 1 mln linear m/year (2 shifts) 4400 hours. Cash maximum US\$ 2,000,000.

801921 217 J C
HAND POWER TOOLS all kind, 25 000
pieces per year. Equity participation offered: \$
500 000. Export: 70%. Pre-feasibility study
data available.

801929 222 C L C
COMBINED MACHINING OF HOLES The
equipment is designed for machining of holes in
hydraulic and pneumatic cylinder bodies in the
119 accuracy class. Machining process is
performed in one pass by simultaneous boring
and burnishing. The equipment is used in series
production of hydraulic cyclinders, including
long cylinders.

801965 233 C L/J C
AIR BUBBLE FILM versatile packaging material to provide, protection against shock, abrasion to goods during transportation and is a must for exports and electronic goods.

Ref No. Org.No. Status Offer Source 801984 247 C L G SAFETY GLASS PREPARED BY CURING POLYURETHANE COMPOSITIONS Safety glass is widely used in glass areas of automobiles, aircraft and the like, as well as in certain architectural applications. For the most part, such glass laminates are made using polyvinyl butyral in sheet form as the interlayer material and they are produced using high temperature and high pressure laminating techniques. Not only are such laminating techniques difficult and cumbersome, but the thermoplastic interlayers, such as polyvinyl butyral, employed therein often does not meet the level of performance.

802073 288 C L C MILLING BALL PRODUCTION technology, grade GX300 Cr Mo 12.2.

802119 318 F S G
TR UPSETTING FORGING DEVICES
installed on multipurpose eccentric or crank
presses of 1,5-2 MN capacity. Enable the
production of forgings of elongated shape (TRW
types, 10-50 mm dia) and are designed for
upsetting of elements which are formed
simultaneously on both ends (TRD types, base
dia 10-40 mm).

L/J C 802232 365 C WARE **GLASS** HOUSEHOLD PRODUCTION Suitable raw materials are mixed at predetermined ratios and the mixture is melted in a furnace at high temperatures. Molten glass is formed either automatically by specialised machines or manually by mouth-blowing into moulds. Hot ware are cooled at a controlled rate to remove residual stresses. Cooled ware are inspected and packed for shipment to the customers. Glass household ware production.

Ref. No. Org.No. Status Offer Source 396 F S 901037 G ROTOR DYNAMIC BALANCING **TECHNIQUE** FOR ROTATING MACHINERY three microcomputer aided balancing systems MCAB-I, MCAB-II, MCAB-III are included. They are suitable for a variety of rotating machines such large steam turbine generator sets, centrifuges, fans, pumps, electric motor etc.; for shaft system, rigid and flexible rotor balancing and whole machine field balancing

901064 396 C S/J C LTC-A TYPE SLIT DIESEL OIL SAVERS suitable for automobiles, tractors, ships, project mechanisms, agriculture diesels, matched with 75, 85, 95, 100, 110, 120, 130, 135, 160 type diesels. The savers can be projected to match large power diesels according to the requests of users.

901073 394 F L C
POWER CONVERTERS Compact, high density power converters (HPDC) 2 in x 1.5 in x 0.3 in input 20.55 VDC nominal 90% efficiency at pull load output 5.28 VDC.

901082 394 F L J
DRYING AND RECYCLING SURFACE
SLUDGE to enable the recovery of nutrients
and organics.

901091 394 F L C
BATTERY CHARGING technology increases battery life, reduces charge time BX 50-95%, reduces energy, onsumption by 40%. Applicable to lead, acid and nickel cadmium.

Ref No. Org.No. Status Offer Source 901100 395 L U METHODOF METALLISATION OF SEMI-CONDUCTOR SURFACE A process to fabricate a new class of integrated circuit metallisation systems with improved conductor grain structure and metallurgy. Assembled on a semi-conductor substrate, the one or more layers of metal conductor exhibit improved reliability in terms of thermal stress induced grain boundary cavitation and retarded electromigration.

901141 393 U L U
ALIGNMENT ERRORS Error correction
system for slideway alignment errors in machine
tools.

901150 393 F L C
UNDERGROUND PRESSURE
REGULATION MODULE A sealed fully
integrated pressure regulation module for buried
installation designed for 5 year maintenance free
cycle: inlet pressure range 70 mbar - 2 bar;
outlet pressure range 22 mbar - 47 mbar; flow
capacity 850 cu m/hr - 3400 cu m/hr.

901370 396 C L/J C
LOW DENSITY POLYETHYLENE (LDPE)
WEATHERPROOF MASTERBATCH
LDPE weatherproof masterbatch, using LDPE
as carrier, is manufactured by means of adding
light stabiliser, antioxidant, metal ionic passivator
and other agents. Single screw extruder and one
through extrusion and granulation process are
adopted for LDPE masterbatch production. It is
of short flow diagram, simple equipment, low
investment, low agents consumption and good
working conditions.

Ref. No. Org.No. Status Offer Source 901379 396 C J G ITO TRANSPARENT AND CONDUCTIVE GLASS The product is mainly used in liquid crystal display, charge couple device and liquid crystal radio television set. The visible light transmittance of the product will be more than 90%. The resistance resitivity of the product will be in the magnitude of 10 minus 4 power. The average difference of the film is less than 10% with silicon diexide barrier coating.

901400 396 C L R
HOT MELT ADHESIVE FOR CABLE The title adhesive is mainly used to joint hot shrinkage fit cover of plastic cable attachment and to seal the plastic ends of communication cables and electric wires. It is also used for bonding of wood, metals, plastics, paper and so on.

901402 396 F L/J R
3.3- DIMETHYL, 4.4- DIAMINODIPHENYLMETHAN The title product is the essential material for manufacturing H grade insulating varnish.

901438 396 F/C J/S G
SILVER-FREE BRAZING FILLER METAL
the product is characterised by low melting point
(800-830 C), high tensile strength (450 N/mm)
and good plasticity (28%). It may be used
instead of silver-based brazing filler.

901449 393 U L C
TOTAL DIRECTIONAL EMISSIVITIES
measurement in air. The radiometric method
measures radiance emanating from a target
using a total radiation pyrometer and by
comparison with radiance from a black body an
accurate measurement of the target emissivity
can be made. The facility can also measure
directional values up to 86 deg from the target
normal.

Ref No. Org.No. Status Offer Source 901600 85 C L/J C RUBBER SHEET DRIER Device for smoke drying of ribbed rubber sheets. Convenient, fuel efficient, compact design to replace less efficient smoking rooms for drying natural rubber sheets. Made of sheet steel construction. Modular design. Particularly used for small rubber estates of area 1 to 6 Hectares.

901604 86 C C
NEW VETERINARY PREPARATIONS
FOR TREATMENT OF COW MASTITIS
Furahin and sulfabiciretin for use in the dairy
cattle breeding. The therapeutic effect of furahin
and sulfabiciretin is higher than that of masticid
2.

901613 90 C L/J R **PRODUCING** NATURAL AS **ANTHOCYANIDINS FOOD** COLORANT Developed by Zhejiang Light Industry Research Institute, this process includes extraction, purified by ultrafiltration etc. The complete technology includes the following: producing process, technology for quality administration, process specification, personnel training.

901662 106 C L/S/J G
MEMBRANE STRUCTURES OF
ROOFINGS Roofing of production premises,
stores, parking lots, depots; reconstruction of
buildings whose roof has to be changed;
construction of public buildings. Thick plate
roofing due to small weight, easy for
transportation, an aptable for placing, good in
hard to access places and in northern and seismic
areas.

Ref. No. Org.No. Status Offer Source 901667 106 M L/S/J G SPECIAL SHOES for protecting against phosphorous. There is a packet of shoe materials and a design of special shoes for men with a complex of protective properties against phosphorous. Protection from the effect of high temperatures (sprays of hot phosphorous).

901685 106 C L/S/J G MANUFACTURE OF LOCK PARTS lock bars and metal powder inserts. Press fitting and caking of complex parts of locks using metal powder. Effective burning of high ash content and low grade coals.

901700 106 W L/S/J G
FOUNDATION STRUCTURES Assembled monolith foundations for pillars made of assembled through rest and monolith plate. Simplifies and reduces the scope of processes when at zero cycle. Low consumption of steel fittings and concrete.

901726 106 P L/S/J G CRT LOCAL SOLDERING Local soldering with high temperature solders in vacuum or in protective gas medium on specialised equipment. The design and control system of the equipment guarantee local warm up of parts by circular electronic beam. Energy saving, ecologically clean, better working conditions for the operator.

901752 109 W L C
BACKHOELOADERS Production of universal backhoeloaders for civil engineering works.

901771 119 F L P
JOINT CONNECTION FOR TUBE (ex
Losflache DA at DIN) where is waste 8%.
Dimensions are 120-1400 mm. Production time
is 1-4 minutes. Next step of production is
plastification. Factory need 1000 sq m or more.
Using conn of tube line for water, gas, fluids.

Ref No. Org.No. Status Offer Source 901797 137 C S/L C FIBRE GLASS TANK Storage and holding container for, especially, liquid materials.

901901 204 J C
METAL BUILDING PRODUCTS doors, windows etc made from aluminium and steel. Process varies: i) standard; ii) specific depending on clinet/customers requirements; iii) batch etc. Proposed turnover: N 500 million/annum. Foreign participation: minimum 40%, maximum 45%.

901928 221 C L C
METAL CUTTING of non-rotational
workpieces by milling, drilling and boring,
thread cutting, face and conical surfaces
machining, neck and groove making. Power
and accurate five side machining in one clamping
with high accuracy of machining operation.
High work productivity by reducing of
preparatory and side timings by workpiece,
tools, technology attachments and chips
manipulation.

901947 231 C L/J C
PLASTIC COATINGS Two new developments in the coating field: electrostatic varnish for plastic pieces, primers for polypropylene. Electrostatic varnish for plastic pieces: most of the plastic materials have very low conductivity so are unsuitable for electrostatic painting. Primers for polypropylene: One of the disadvantages is its high surface tension. This inconvenience produces a very important effect, it is extremely hard to paint.

CATEGORY 2: LIGHT INDUSTRY

Ref. No. Org.No. Status Offer Source 902000 380.01 C L/J C HYDRAULIC LIQUID CONTAMINATION DETECTOR The degree of contamination in hydraulic liquid is an important factor in judging the operation and reliability of a hydraulic system, guaranteeing the operation life of the elements and the system. This detector can detect the degree of contamination and offers its

OFFERS

902068 288 C L C
COLD BOX CORE MOULDING for intricate castings. Process involves filling the core moulding box with sand previously mixed with resin and the hardening agent to accommodate complex cores.

results on computer printout.

902252 350 C J C
TIMBER AND WOODEN BUILDING
ELEMENTS (doors and windows). Proposed
standard capacity: timber 12000 cu m per year,
door 24000 piece per year.

902311 323 L SCALE CLAY **SMALL BRICK** MANUFACTURING TECHNOLOGY The equipment is aimed at less developed countries and produces high class, bricks using technology methods. It is suitable for low wage economies and produces from 4000 to 20000 bricks per week. The equipment supplied consists of claycrushers, portable clay hoppers, brick presses, brick carrying frames, 3 wheel and 2 wheel carrying trucks, clamp fire doors.

Ref No. Org.No. Status Offer Source C 902313 323 L WASTE PAPER RECYCLING MACHINE FOR THE PRODUCTION OF EGG PACKAGING, BIODEGRADEABLE PLANT POTS, FOOD TRAYS ETC A manually operated plant with simple maintenance procedures. Low floor loading, low initial capital cost, easy operation - high standard finished products. All electrics 220/240V single phase. Production output eg egg trays 4 moulds x 60 strokes = 240 per hour. Materials required waste paper, water waxes (emulsified) and dyes. Training course available.

701586 81 C L/J C POLYTHENE BAGS Printed and simple bags including the extrusion of HDP/LDP/PP extruded films.

701270 319.18 C L
DY-COMPUTERISED MALIGNANCY
DIAGNOSTIC UNIT The patented computerised malignancy diagnostic unit (CMDU) has been developed, basing on the theory of extra acupoints relating malignancy (EAM). CMDU is a highly advanced product combining Chinese traditional medicine and modern electronic technique.

301162 393 U L C
DUST COLLECTOR FAN with novel flexible fibre impeller. The fibre impeller spins at high speed and propels an air stream in a similar manner to a conventional centrifugal fan. The impeller is irrigated by a liquid, and dust particles in gas streams are collected on the wetted fibres. The slurry so formed is led away to drain or may be recycled to an earlier stage of a manufacturing process.

Status Offer Source

2SL TYPE INDRAFT PRESSURE SIEVE
The equipment is used in the field of paper making with following features: novel mechanical design, energy saving, wide application and easy operation. The sieves are fitted with slot screen cylinder made of thick stainless steel plate and also can be used for screening stock before bleaching and fine selection in the running of paper machine.

Ref. No. Org.No.

2279 155 F L C
GOAT SKIN PROCESSING into garment suede.

102342 267 C L/J C LATEX DIPPING technology and plant - gloves, balloons, teats, condoms, catheters, etc. Consultancy, service, plant, processes and laboratory equipment. Plastic dip-coating and dip-moulding plant and services. Dip-finishing and coating plant for other industrial processes.

Ref No. Org.No. Status Offer Source

Brake Lining for Automobile Vehicles Builders Hardware (Aluminium Hinges) **Builders Hardware (Tower Bolts)** Circular Saw (Wooden Working) Concrete Mixer **Diesel Engines** Flexible Pipes Galvanised Pipes Gas Appliances Hydraulic Jacks MS Pipe Fitting Mini Cement Plant **Tin Cutters** Water Storage Tanks Weighing M/C Polythene Film & Bags Frictional Horse Power Motors Radio & TV Coils Soldering Wire Anti Vibration Engine Mounting **PVC Pipe Fittings** Rigid PVC Pipes Scientific Laboratory Glass Wares

The following Project Profiles are available from The National Small Industries Corporation Ltd (NSIC). For more details see the section entitled NSIC Project Profiles at the back of this catalogue.

Air & Oil Filters
Air Compressor
Aluminium Furniture
Animal Driven Implements
Barbed Wire
Bench Grinder

Ref. No. Org. No. Status Offer Source

1027 395 P L U

MOUNTING A FOCUSING X-RAY FIBRE

An apparatus for guiding X-rays along the hollow bore of a tapered glass capillary and a method and apparatus for securing the critical tip portion of the capillary such that the guide maximises the transmission efficiency and spatial focus intensity of the X-ray.

PRODUCTION OF WEAR RESISTANT PIPES/ELBOWS Technique is based on fusing the inner surface of a steel pipe/elbow with wear-resistant alloys by high temperature carbonisation. Thus the inner layer of a pipe-elbow acquires high resistance against abrasive wear. Hard pipes/elbows makes it possible to increase pipes lifetime from 1-3 years to 5-15 years and that of elbows from 1-2 years to 5-10 years.

P L U 1418 395 METHOD FOR THREE DIMENSIONAL OPTICAL DATA STORAGE AND **RETRIEVAL** Utilising two photon excitation in refractive media. Information is written as submicron voxels of modified index of refraction that are induced by two photon excited crosslinking or degradation of a polymer medium in the volume defined by the waist of a highly focused modelocked laser. Information so stored is later read with three dimensional resolution via laser differential interference contrast microscopy. Allows data storage density of more than 10 bits/cc.

Ref No. Org.No. Status Offer Source 395 IJ 1445 L **RE-ORIENTATION OF 3D IMAGES A** system for rotating a 3D image so that a selected projection is oriented to a chosen angular orientation in a three-dimensional space. The system includes a data processor for storing pixel co-ordinates and includes circuitry for rapidly altering the pixel spatial co-ordinate values to accomplish 90 degree rotations of the 3D image about axes of a three -dimenensional space.

1631 106 P L/S/J G
POLYMER PEDESTAL INSULATOR with
high performances and wet flash over voltage.
For use in the areas of seismic activity and high
pollution. High reliability of equipment
insulation.

1649 106 C L/S/J G
ELECTRIC SPARK REMOVAL OF BURRS
and metal chips in slots of cores of rotors after
assembly and mandrelling. Complete removal
of crumb, burrs and metal dust by HE.

1735 106 M L/S/J G
LASERS Thermochemical colouring and manufacture of corund-based laser elements.
High temperature treatment of monocrystals in metal vapours for manufacturing laser elements on the basis of corund and titanium. Increase of concentration of trivalence iones of titanium in corund, increase of generation efficiency.

1798 138 C L C
SOLAR THERMIC ENERGY panels and systems.

1801 139 U J U SHORT HYDRO-TURBINES (up to 50 kw). Michell-Banki type.

Ref .No. Org.No. Status Offer Source 1802 139 W J U DIGITAL COMMUNICATIONS central, with 8 extensions. Totally digital.

1803 139 M S U
PRINTED CIRCUITS LABORATORY to produce PC and research.

1867 180 F S C
PRINTED CIRCUIT BOARDS from single sided phenolic through the range up to double sided through hole plated fibreglass, fully solder masked with component location legend.

1946 231 C L/J C **IMPLANTATION OF THE INTERACTIVE** TV in Europe and South America. Agreements on collaboration to implant this important and innovative technology in other countries. This incipient technology presents a wide range of applications, but the very first applications will be: to avoid zaping among the telespectators increasing in that way the revenues of the TV in advertising. To allow the telespectators to participate in real time in the TV concourses. opening a new way for advertising. To give information of added value to the telespectator.

1990 380 C L/J C
LONG LIFE NEON LAMP New type long life span neon lamp is rational in the choice of material and makes some innovations in design. The lamp has made great improvements in the field of electrode material, by withdrawing mica and by the usage of gas dispersal preparation. The lamp promotes the luminious efficiency, prolongs the life span, saves material and diminishes the damage of mercury.

Ref No. Org.No. Status Offer Source 2090 295 C R PLASTIC OPTIC FIBRES The plastic optic fibres can be used for making decorative lanterns. advertisements, window decoratings of stores, illuminating instruments, panels of cars, teaching instrumentations etc. By using the technology, 20 tonnes of plastic optic fibres per annum can be produced. The price is US\$ 8 per kg and the production cost is US\$3 per kg. Initial investment (including equipment, technology, 20 tonnes of raw materials and other chemicals) is US\$ 145,000 (building and utilities costs are excluded).

2318 319.12 C L
STAINLESS STEEL SURFACE
TREATMENT TECHNOLOGY Stainless
steel material is used in ultrahigh vacuum
instruments and equipment. After the surface of
stainless steel is treated, the quantity of product
and its surface finish can be improved.

2327 326.05 W L/S
MACHINES AND INSTALLATION FOR
CUTTING ROCKS USING NONCONVENTIONAL METHODS 1. Breaking
blocks of stone and concrete into fragments by
electrohydraulic method. 2. Cutting with high
pressure flows, up to 2500 bars. Usages:
Disintegration of oversize blocks and mining of
hard rocks and in coal mines with high gas
hazard or steep galleries.

2329 326.06 C L/S
CASTING OF IRON AND SEWAGE PIPES
AND PIPE FITTINGS Casting of pipes on
double-permanent mould centrifugal casting
machines without heat treatment. Casting of
pipe fittings in permanent moulds on carousel.
For production of sewage pipes and pipe fittings.

Ref.No. Org.No. Status Offer Source 101017 319.04 C L
TECHNOLOGY AND EQUIPMENT OF CONTINUOUS HOT DIPPING ZN-5%AL-RE COATED STRIP The technology of improved Sendzmir process is used in the production of hot dip Zn-5% Al-Re coated strip. The behaviour of the coated strip meets ASTM requirements. Strip width: 600 mm, thickness 0.3-1.5 mm, coating thickness: 30-50 mm.

101099 395 L U
MYOMETRIAL ACTIVITY MONITOR
Myometrial activity in pregnant females can be
monitored by the use of electrical impedance
imaging (EII) which is also known as applied
potential tomography. This technique can
distinguish between contractions and
contractures, the former being indicative of
labor.

101113 395 L U
FABRICATION OF OPTICAL FILTERS
For synthesizing alternating, ultra-thin layers of
TiO2 and SiO2 to produce optical interference
filters that exhibit optical properties identical to
filters produced by thermal methods. Efficient
filter performance is achieved. Optical filters
produced have few defects and are much harder
than other sol-gel films. For electronic devices,
batteries and capacitors.

101454 393 U L C
HIGH POWERED FLICKER FREE
LIGHTING SYSTEMS Portable gas discharge
lighting. Use of electronic, lightweight ballasts
up to 20 KW.

101479 17 F L/J R
HI-TECH ELECTRONIC PRODUCTS
Microwave, vacuum, computers,
telecommunications, testing instrumentation.
Hard to find industrial/electronics, thermal and
other related products.

Ref No. Org.No. Status Offer Source 101533 57 F L G MBE (MOLECULAR BEAM EPITAXY) SYSTEM Used in various semi-conductor materials for studying crystal growth mechanism and surface physics. Its compatible instruments are AES, HEED and OMS.

101632 106 P L/S/J G
PHOTON REGISTER WITH
MICROPROCESSOR CONTROL The device
is intended to register integral and spectral
characteristics of low power level optical
radiation. The device can be utilised for
metrologic registration of low power level optical
radiation.

101636 106 P L/S/J G
SOLAR POWER CONCENTRATORS
Concentrators for use at solar photoelectric
stations on silicon elements. Preparation, on
special installation, of matrixes with a preset
form of density distribution, making of glass
copies of the matrixes, application of the copies
on copper and aluminium reflective layers and
protective coat. Betters the efficiency of
photoelectric modules as compared with the
concentrates using the aluminium reflective
layer.

101677 106 M L/S/J G
LASER ELECTRIC POWER Research and elaboration of effective means for electric power of lasers on the basis of the gate type, resonance and quazi resonance current converters. Sources of secondary supply with high specific characteristics and efficiency and licensability.

Ref No.

Ref.No. Org.No. Status Offer Source 101710 106 C L/S/J G MAKING DC MOTOR ARMATURE WINDINGS with pre-impregnated tape insulation. The armature winding is made of the coils of the main and balancing windings, whose cone and turn winding insulation is made of pre-impregnated tapes. Unlike technology adopted in most of the electrical machine building plants, the winding is not subjected to molding or baking in special press moulds.

101727 106 C L/S/J G
PRESSURISATION OF PARTS made of porous ferrites for UHF devices. The parts are impregnated in autoclave at 25 +/-100 degrees C with a composition consisting of a mix of hydroxylo containing titanium and silicon organic oligomer and methyl phenilspyrosiloxan. Hardening at 190 +/-10 degrees C. Wide range of operating temperatures from -60 to +200 degrees C. Low and stable losses of UHF energy in ferrite parts of the phase shifters.

101754 111 F S C
ANTISTATIC ITEMS Offer for sale the formulae/process of making the following static control products for the semi-conductor industries: antistatic PE bag, antistatic polyfoam, conductive PE bag, antistatic fingercots, antistatic sandal/shoes, antistatic latex gloves, antistatic adhesive tape, antistatic rubber band. All finished products are guaranteed to meet USA military specifications.

101799 138 C L C
SOLAR PHOTOVOLTAIC ELECTRICITY
lighting, pumping, refrigerating, telecom.

C 102133 332 S **METHOD AND 24-STRAND DIRECT** RESISTANCE HEATING UNIT FOR WIRE HEAT TREATMENT Comprises the operations of wire patenting and preparation of its surface for drawing. The process of wire surface preparation for drawing is carried out in traditional ways. When wire patenting the resistance heating is carried out by passing current through the wire. The unit output up to 2000 kg/h, wire diameter, mm - 1,8-4,5, wire travelling speed up to 0,5 m/s, power consumption for resistance heating - 250kW h/ t, unit dimensions, mm - 7000 x 3000 x 2000.

Org.No. Status Offer Source

102136 337 W J
ULTRAHIGH PRESSURE COMPACT
PRESS The press 'KOUZKO' is designed to
develop pressures from 2 to 60 thousand tons. It
can process metals, polymers, composites and
other materials using the technique of cold
hydromechanic extrusion.

102256 13 C L/J R FIBRE OPTIC COMPONENTS

102272 289 F L/J C MICROWAVE TUBES for S,L,X bands.

201025 395 P L U OPTICAL WALKOFF COMPENSATION IN CRITICALLY PHASE MATCHED THREE WAVE FREQUENCY CONVERSION SYSTEMS An optical conversion system utilising a pair of non-linear crystals in such a way that it overcomes the problem of walkoff found in prior critically phase matched systems. This technology utilises one or more pairs of non-linear optical crystals in a linear cavity, the crystals in each pair being so aligned as to cause each crystal to compensate for the walkoff produced by the other, thus achieving a substantial improvement in conversion efficiency.

Ref No.

Ref .No. Org.No. Status Offer Source 201659 106 M L/S/J G COLLECTORS OF ELECTRIC MACHINE MOULDING The machine operates in all the regimes set by the program automatically. The current data is constantly monitored and displayed. After moulding there is full information on the punched card as to the process of moulding.

201728 106 C L/S/J G **ELECTROPLATING FOR UHF PARTS in** place of silver. Bimetalic coating is obtained by way of placing on aluminium alloys of a thick current conducting copper layer of pyrophosphate universal copper electrolyte and then a thin layer of protective layer (cadmium-tin, tin-zinc, tinvismuth and other alloys). For use in radio and instrument engineering for replacing silver coating.

F 201765 116 INFRARED MESSAGES allow companies to exploit the infrared message in their own predictive maintenance programs, of electrical fittings (high/low voltage) energy installations. Thermal performance of refractory materials, of cylinders with thermal fluids, cold rooms. Diversified experience (paper, plastic, metal, television, transport).

201989 380 C LJ C RPT-1 RELAY COMPREHENSIVE PARAMETER TESTER RPT-1 is a new generation of Intelligent Relay Comprehension Parameter Tester. It can automatically test all kinds of electrical properties of DC Electromagnetic Relay in A, B, C model or in their mixed model. It can be used on the production line as well as in laboratory. On the production line it takes high speed measurements of relay parameters. Whenever a relay has been tested, it shows 'PASS' or 'FAIL' to tell the operator the condition of the relay and shows which parameter fails.

Org.No. Status Offer Source 202314 319.10 C L SHORT HYDRAULIC TAP GUN WITH INCLINED FOUNDATION FOR BLAST-FURNACE The short hydraulic tap gun with inclined foundation for blast furnace was a special machinery of oblique gun, a roll back machinery corresponded to it and a day beating machinery. It can be adapted to operate with blast furnace under high pressure and machinery operating before the furnace. The hydraulic system can compensate the circuit to guarantee the working reliability of the tap gun. Great social and economic profits have been made.

202316 L 319.11 MANUFACTURING TECHNOLOGY OF WEAR-RESISTANT BRONZE SLIPPER exerted appropriate heat treatment, the slipper metal of a rolling mill slipper type universal coupling is made of special aluminium bronze casting and it has excellent mechanical properties and heat treated with tensile strength 740MPa and over, yield strength 430MPa and over, more than 10% and hardness 210-240HB gives a 3 fold improvement of service life.

202325 323 P L/S PORTABLE WORKSHOP Especially applicable to developing countries this mobile workshop is designed on a modular basis. These modules can be toolkits, spare parts, welders, compressors, work benches etc. All the units can be picked up and loaded onto a flat-bed truck with a built-in crane, then unloaded if necessary at the work site.

Ref.No. Org.No. Status Offer Source

301097 395 L U

FIBER OPTIC SWITCH A non-mechanical optical fiber switch that has performance specifications equivalent to electro-mechanical optical switches but is mechanically much simpler and less expensive. The device provides controllable switching of unpolarised light between two pairs of optical fibers. The device requires fewer components, is more compact, and exhibits lower insertion loss than other optical switching devices.

301126 393 U L C
SENSORS Eddy current, ultrasonic and optical procedures have been developed for continuous in-line monitoring of the dimensions, soundness and integrity of various small scale metallic and ceramic components. This technology is adaptable to component fabrication and assembly in fields where quality assurance is paramount.

PROPORTIONAL COUNTERS FOR X-RAY MEASUREMENTS in the energy range 2,3 keV - 40 keV. Applications: non-dispersive fluorescence analysis, ie determination of Ea, Fe and Cu in raw materials; determination of ash content in coal; Moesstauer spectroscopy; astrophysics - detection of soft x-ray on spacecraft board; biology - 'in vivo' study of the transport of assimilated substances.

301432 395 U L OPTOELECTRIC **SENSOR** AND CONVERTER FOR CONTINUOUS FLUID AND TEMPERATURE MEASUREMENT IN DIFFICULT ENVIRONMENTS optoelectric sensor and converter for fluid level measurement in environments in which strict safety requirements must be met. Particularly useful for continuous measurement of explosive fluids. The system is simple, inexpensive, accurate and adheres to strict requirements for electrical isolation.

Ref No. Org.No. Status Offer Source
301534 57 F L G
FTL-450 MAGNETRON AND ION BEAM
COMPOUND SPUTTER EQUIPMENT Used
for various function ceramic films and high
temperature and super-conductive films made
and film devices made with great applied value.

301637 106 P L/S/J G
SOLAR ENERGY CONVERSION
Concentrating devices for radiating seeds and
treating patients with pulsed concentrated sun
and neon light. For use in heat and power
supply, agriculture, medicine.

301703 106 W L/S/J G
HEATER BATTERIES Electrohydraulic treatment. The battery is placed in a working chamber filled with running water. At the same time a pulse current source and an electrode drive are switched on. Hydraulic pulses that act on the battery are formed. Thereafter the battery is washed, stripping into sections. If necessary the gaskets and valves are replaced. Then, the battery is assembled and pressure tested.

301711 106 C L/S/J G
DEVICE FOR DRY ARMATURES of electric
machine rotors. For enterprises engaged in the
manufacture and repair of DC electric machines.
Low energy consumption for drying, high speed
warm up, even warm up of all the elements, high
effectiveness of drying process due to emission
of heat on the object.

301756 112 C L C
DIGITAL (TELECOMMUNICTION) TEST
EQUIPMENT A full range of equipment testing digital transmission, switching subscriber lines and protocols (X.25/C7 signalling) in the modern telecommunication networks.

Ref .No. Org.No. Status Offer Source 295 302089 C L/J R COMPOUND GLASS OPTIC FIBRES It is suitable for use in transmitting light energy and signals, in making light guides, image guides sensor probes and various medical devices, optic devices etc. The compound glass optic fibers are made of highly purified optical glass, the core having a higher refractive index and the cladding a lower refractive index. The price is about US\$ 60 per kg and the cost of production is US\$ 25 per kg. To set up a plant with the above mentioned capacity you would require an initial investment of US\$ 128,000. Equipment, technology, turnkey service and training can be provided.

302258 13 C L/J R
ELECTRO OPTICAL COMPONENTS
couplers, switches etc.

302323 323.02 F J/L
ELECTROMAGNET FLOWMETER FOR
LIQUID METALS Two types of flowmeter of
simple robust construction cover pipe and bulk
or open channel flow measurement. A range of
induced voltage meters cover flow in pipe
diameters from 6 mm to 100 mm to a 3%
accuracy. They use permanent magnets for
temperatures up to 500 degrees C and refractory
materials at temperatures above 500 degrees C.
Special designs for larger pipes and open
channels.

302332 372 C L
TECHNOLOGY FOR ECONOMIC
STRATA SUPPORT IN SMALL SCALE
MINE Yielding steel arches made from new
section steel with various reinforcements meeting
requirements of soft and squeezing rocks.
Advantages: low costs as compared with concrete
or reinforced concrete supports, 30% higher
load bearing capacity as compared with traditional
supports, high yielding capacity.

Ref No. Org.No. Status Offer Source

401096 395 L U

WAVEGUIDE ADAPTOR A waveguide to transmission line adaptor which can serve as a low reflection interconnect between a waveguide and various transmission lines such as coplanar waveguide, trench waveguide or other lines of similar geometrics.

401166 393 W L C
BIOSENSOR DEVICE Four electrochemical capillary fill biosensors are available for a variety of analyses, such as glucose measurement. The sensor is a cheap disposable item fitting an instrument and an array of different sensors can provide for multiple simultaneous assay.

401262 323 C L
AUTOMATIC CALENDAR A battery
powered automatic calendar of falling leaf display
type. Will run for one year on a small battery
without attention. Retail cost comparable to
hand changed models.

401660 106 C L/S/J G ANNEALING OF LEADS OF ARMATURE COILS after cold plastic deformation. To link leads to slip ring of armature coils, the latter are first caulked to a required thickness. During the caulking the latter becomes considerably hard and breakable when cold; winding becomes difficult. To remove the 'cold hardening' the conductors are placed into the inductor of special installations connected to VHF current generator.

401687 106 C L/S/J G
FUNNELSHAPING OF MICROCHANNEL
PLATES inputs, updating surface at first
strike. Effect of changing geometric and emission
characteristics of the first strike surface of
microchannel surface is achieved through CRT
treatment in vacuum. Low noise, high gain
factor.

Ref.No. Org.No. Status Offer Source 401713 106 P L/S/J G PRODUCTION OF MICROELECTRONIC STRUCTURES Automated methods of control of technology of production of photosensitive materials on the basis of indium phosphade used for the manufacture of mm-band antenna. For microelectronics, production of semi-conductor materials, devices and integrated circuits.

401721 106 C L/S/J G ELECTRIC CONNECTOR with zero connection effort is designed for linking with 1.5 to 0.2 mm thick printed circuit board and operation in low frequency electric circuits of DC, AC and pulse currents of up to 3 MHz, up to 100 V and 3 A.

402114 314 C L/J C PRODUCTION OF THE AUTOMATIC POWER TIMING CONTROLLER The controller is mainly used for measuring power timing parameters and controlling power timing switches and is effective in saving power economising on electricity and tightening up the power control. The controller is provided with AC contactor and operates soundlessly. Besides, this controller is reliable and easy to operate. The unit price of the controller is 100 yuan RMB. The research unit will provide turnkey projects, sharing know-how with clients and will help train personnel and build the factory starting operation within one month.

402135 336 C S/L
LOW WASTE CONTAMINATION FREE
TECHNOLOGY OF ELECTROCHEMICAL CLEANING OF METAL
PRODUCTS The technique is based on
electrochemical cleaning by means of
contamination free solution. The technology
can be used in car industry, machine industry,
steel tubular industry etc.

Ref No. Org.No. Status Offer Source

402321 319.07 C L

ENERGY SAVING TECHNOLOGY FOR

THE RE-HEATING FURNACE A highly
efficient waste heat recovery rate. A new type of
burner use 100% pre-heated high temperature
air for a better heat exchange in the furnace and
consequently a high combustion efficiency, with
optimal design of bottom cooling piping to
reduce the system heat loss to a minimum.

402330 326.06 C L
MANUFACTURE OF HIGH-CHROMIUM
CAST IRON GRINDING MEDIA FOR
CEMENT INDUSTRY Green sand casting of
grinding media in sand moulds, heat treatment
of castings. Advantages: high quality of castings,
hardness of casting about 55 HRc, low wear of
grinding media during production of cement.

501107 395 L U
ELECTRO-OPTIC TRANSDUCER A unique photoelectric material and apparatus based on photobiochemicals extracted from bacteria exhibit novel properties. For example, the transducer may perform arithmetic operations at the transducer level and can be used for 3D optical data storage. In addition to numerous photochromic uses, applications include novel sensors and electro-optics.

SILICON TIP FIELD EMISSION CATHODE ARRAYS Field emission cathode arrays have been constructed which provide uniform electron emission and improved emission control. Accurate and precise formation of emitter tips having uniform radii. The oxidation step is also utilised to precisely align gate electrode apertures with respect to corresponding emitter tips so that large arrays can be formed with great accuracy and reliability.

Ref.No. Org.No. Status Offer Source
501161 393 U L C
ROBOTICS AND REMOTE HANDLING
TECHNOLOGY Master slave manipulators,
underwater manipulators, cranes, hoists, grabs
and pipe crawlers have been developed to carry
out operations in hostile environments.

501197 225 J
ELECTROTECHNICS Design - delivery - assembly - putting into operation electrical equipment up to 110 kW including control system and computers.

501611 87 W L/J P
PHOTO-ELECTROTHERAPY
INSTRUMENT SUITABLE FOR CURE
MYOPTA The instrument, successfully
combining the optics principle with the
electrotherapy principle, can effectively relieve
the adjustment fatigue of eye muscles, improve
the blood circulation around the eyes, raise the
sensitivity to light of optical nerve cells and thus
can improve the eyesight significantly and
efficiently.

501674 106 C L/S/J G VACUUM GLASS PASSIVATION of high voltage transistors. Protection of p-n junction of crystals thin glass coating by means of vacuum CRT sequential spraying on silicon plates with structures of 0.7 - 0.8 m thick glass layers. The glasses have simple composition and are adaptable to technology. For manufacture of silicon devices for power electronics.

501740 106 C L/S G
PLASTIC HOUSING FOR MEMORY with optical port for erasure. For use in multiple data record and erasure memory devices. Cheap storage due to the plastic housing, low crystal consumption for the inserts.

Ref No. Org.No. Status Offer Source
501757 113 F L C
THREE PHASE SOURCE CALIBRATOR
(PHASE ADJUSTABLE) It is an electronic
assembly for supply of measuring circuits at
calibration and testing of measuring instruments
and measuring transducers of electrical power
values for AC current, voltage, active and
reactive power frequency and phase angle.

501759 113 F L C
RESISTANCE METER for precise
measurement of ohmic resistance, with 4 1/2
digit display of measured values. Suitable for
measuring and calibrating shunts and resistors
with small ohmic resistance. Range 0,01 ohm,
1M ohm max error +/- 0,05% reading +/0.05% rating +/- 1 digit.

501905 205 J G
AUTOMATED WINDMILL ELECTRIC
UNIT Energy supply for far off inhabited areas
as an independent source of energy like diesel
and thermal power stations. Capacity: 3-15
units per year, starting in 1993. Cash minimum
116 million rubles. Cash maximum 130 million
rubles.

502138 334 F S
COPPER CONTACT FOR WELDING with
a continuous electrode wire - the contact nozzles
are used with automatic or semi-automatic
welding machines with a melting electrode
which are operated in a protective gas medium
under flux protection and with flux-cored
electrode wire. They are made of copper or
copper alloys.

502235 208 C L/J C MANUFACTURING OF SWITCHING EQUIPMENT Main uses are in digital rural exchange, business parks and in power plants. Main advantages: reliable, flexible communication with advanced features and easy maintenance for rural areas.

Ref .No. Org.No. Status Offer Source 502255 13 C L/J R ELECTRONIC BOOK PRODUCTION data entry.

502271 289 F L/J C
POWER SEMICONDUCTOR DEVICES
Manufacture of medium and high power diodes,
thyristors, fast switching diodes, fast thyristors,
pulse thyristors, inverter thyristors, avalanche
diodes, power modules, assemblies, triacs.

502319 319.13 C L
NOISE ELIMINATOR OF WIDE
FREQUENCY SPECTRUM AND HIGH
VOLUME LEVEL This unit is a new type
sound absorber housing installed around the
noise source. It has good advantages of absorbing
sound of wide frequency spectrum and good
results of noise drop. It can both eliminate sound
and absorb sound (mainly for eliminating sound).
Ventilation system is used in this unit for heat
extraction so as to reach the purpose of noise
drop and guarantee the proper performance of
the unit.

502328 326.06 C L
VENTILATION HEAT RECOVERY IN
FOUNDRIES AND OTHER PLANTS
Utilisation of heat carried away by local extractors
for heating of drawn-in air by means of rotary
regeneration exchanges. Advantages: heat energy
economy.

601076 394 W L R
DISTRIBUTED OPTICAL FIBRE sensing system with applications in buildings, aircraft, pressure vessels, generators.

601085 394 F L J VARIOUS TECHNOLOGIES Radio frequency technology, opto-electronic measuring equipment, custom specific IC's opto-electronic measuring equipment etc.

Ref No. Org.No. Status Offer Source
601138 393 W L U
HALL EFFECT Non-intrusive electrical
measuring. Various inventions based on Hall
effect technology. Compact hand held
instruments for non-intrusive measurements of
DC and AC currents. Related applications in
energy measurement, measurement of
hydrostatic pressure and flow, calibration of
Hall effect flux meters by NMR techniques.

601652 106 M L/S/J G
LINEAR DISPLACEMENT INDICATOR
wide band photoelectric model. The operation
of the indicator is based on a unique method of
measurement with microprocessor inverse data
processing. The algorithm of formation of digital
code takes into account irregularity of distribution
of bands in the scale and makes it possible to ease
the requirements to the accuracy of their
preparation retaining the effective metrological
measurement parameters. Simple design, low
self cost, easy mass production process.

601732 106 C L/S/J G
ASSEMBLAGE OF MICROCIRCUITS on flexible aluminium polyimid basis. The microcircuits are semiconductor crystals with a flexible carrier made of a double layer composition material aluminium and polyimid. The technology includes ultra-sound attachment, protection of crystal surfaces and rejection tests. Dense arrangement of element base on area (3 to 5 times) and in volume (up to 10 times), automated assembly and fitting of the elements.

601758 113 F L C
MEASURING AND CONTROL DEVICES
designed for supervision, control and regulation
of industrial processes. Measurement of
maximum 60 analogue values (temperature),
testing (reading) of maximum 120 digital inputs
and control of maximum 120 digital outputs.
Sample programming, 16 prog regulators, RS
232, LCD display.

Ref. No. Org. No. Status Offer Source 601760 113 F L C
PANEL INSTRUMENTS for voltage and current measurements. Case standard dimensions are 72 x 72 mm, 96 x 96 mm and 144 x 144 mm. Manufacturing process includes assembling from components, testing final inspection, packing. Instruments are of our own design.

601904 205 J G
PHOTO-ELECTRIC UNIT for energy supply
of electronic equipment. For power supply of
metro-stations, movable objects, radio and light
signalling, domestic appliances, water lifting
units, water desalinating systems etc. Capacity:
360,000 kwt hours per year. Cash minimum 50
million rubles. Cash maximum 70 million rubles.

601940 230 C L P
ELECTRONIC FIRECRACKERS of the palace lantern type - a kind of article for auspicious use patent producer which instead of traditional powder ignited firecrackers, it adopts microcomputer and CMEs technology. No powder, no pollution. Lifelike in sound and shape, easy to operate and can be used repeatedly and safely on celebration ceremony, by hotels, restaurants and households. It is suitable for countries and cities which forbid firecrackers. It can also be used as decoration.

602101 301 C IJ C SINGLE PHASE METERS AND 3-PHASE METERS A Chinese instrument works offers the technology of the single phase meters of type DD862A the 3-phase meters of type DT862A and DS862A. The type 862A meters series is based on the meters of 4-fold overload. The works can also provide the manufacturing technology of the meters of 5-fold overload and 3-fold overload using advanced design methods and a special technology, the meters, once adjusted, can obtain precision readings for 10 years. The fee for technical transfer will be discussed directly with interested parties.

Ref No. Org.No. Status Offer Source 602317 319.11 C L
A TECHNOLOGY FOR IMPROVING ABRASIVE RESISTANCE OF FANS Materials will show different resistance to erosion when abrasive particles impact on them at different angles. To improve abrasion resistance measures include bonding wear-resistant ceramic blocks with high strength adhesive, bead welding and spraying etc onto different sections of the fan according to the impact angle.

ALKALI-FREE ELECTROLESS COPPER DEPOSITION A process that selectively deposits uniform, continuous and reproducible metal layers free of alkali impurities. Eliminates electrical defects caused by residual alkali metal in deposited metal layers that result from existing processes. The process deposits pure metals such as copper, nickel and cobalt on noble metal substrates by electroless deposition to produce nano sized metal lines that exhibit excellent electrical properties. Applications include enhanced fabrication of microelectronic devices.

701191 106 C L/S/J G
SILICON PLATES FOR
SEMICONDUCTORS New method of
manufacture of silicon plates with heteriting
layer on the back side by way of diffusion of
phosphorous to a level of difference of its
solubility in a reasonably etched surface after
abrasive treatment. Reduction to 3-5 times of
the number of point defects on crystals.

701196 220 J ELECTRONICS MANUFACTURE Bipolar ICs, power FET, microwave semi-conductor devices, LED.

Ref .No. Org.No. Status Offer Source

701261 326.06 C L
AUTOMATIC MOULDING LINE FOR
PRODUCTION OF BOILER SECTION
Production of boiler sections of grey cast iron in
moulding boxes - dimension 1475 x 160/160
mm. Output 120 moulds/h. Moulding processclassical densifying of moulding sand by sand
slinger with squeezing.

701930 223 C L C
ELECTRICAL SWITCHBOARD
PRODUCTS To make a corresponding steel
case from starting material/sheet metal/ make
surface form on the case - electrical equipment
assembly - electrical switchboard checkout.
This is closed cycle eg possibility to produce
complete switchboard.

701931 223 J ELECTROTECHNICS Electrical switchboard assembly. Electronics equipment and electronics total assembly circuitboard produce. Plastic product into dimension 300 x 300 mm. Introduction of new production according to mutual agreement - area 12 000 sq m is going to use for investment design. Export: 40%. Prefeasibility study available.

701994 380 C L/J C
BRUSHLESS SYNCHRONOUS
GENERATORS Specifications are as follows:
Rated output: 90/120/150/200/250 KW. Rated
voltage: 400 V. Rated speed: 1500 r/min.
Power factor: 0.8. Frequency: 50 Hz. Phase and
connections: 3 phase 4 wires.

Org.No. Status Offer Source Ref No. 702001 380 P IJ C NOISELESS AND ELECTRICITY SAVING AC CONTACTOR The product is a kind of high efficiency vibrationless, noiseless new low voltage electrical product. The average percentage of active power economisation is about 90% and it economises all types of wattless power, with a little wattless power returning to electrified wire netting to improve its power efficiency.

702131 331 C S HIGH TEMPERATURE ELECTRON BEAM BRAZING TECHNOLOGY Developed for manufacture and repair of components and units from high-alloy steels and Nickel-, Cobalt- and Titanium-based alloys. Based on a local heating in vacuum of required areas of the component using composite powder or compact solders. The technology may be used to repair components of different thickness and with thin walls, including those with thermal barrier coating on the surface.

702134 335 C S/L
TIN BASED SILVER FREE SOLDER FOR
LOW TEMPERATURE BRAZING
Manufacturing of electro and radio equipment
by tinning and resin brazing of articles, working
under different weather conditions under
permanent and cyclic temperature graduation of
-70 degrees C to +200 degrees C.

702257 13 C L/J R LOCAL AREA NETWORKS

702315 319.11 C L
HEAT RECOVERY SYSTEM FROM HOT
AIR OVENS OF BLAST FURNACE BY
WATER MEDIA Heat is received by a closed
circulation system in which the furne after
combustion in the oven transfers the heat to inlet
combustion air via water heat exchangers.

Ref.No. Org.No. Status Offer Source 702324 3230.2 F J/L LIQUID METAL TEMPERATURE MEASUREMENT DEVICES ranging from 3 mm dia conventional thermocouples to 1 mm dia coaxial thermocouples with a time constant of less than 50 ms to even smaller diameters for faster response. The ultimate for rapid response is the inductive sensor available in 8 mm dia.

702326 326.04 C L
BRAKE SHOES MADE OF PHOSPHORUS
CAST IRON The modified cast iron with
elevated content of P is characterised by a
pearlitic structure with the lattice of phosphorus
eutetic. Hardness of castings 200-260 HB. Wide
range of applicability of the technology from
automatic moulding line to hand-made products.

801128 393 W S U
SPECIALIST COMMUNICATION
DEVICES From our knowledge of
electromagnetic communication methods, we
have developed two special devices. Simrep is
a portable self contained repeater for rapid
deployment in remote areas. Molefone is for
verbal communication through rock over 200
metres.

801146 393 U L U
OPTICAL FIBRE-BASED SENSOR
SYSTEMS with wide application in power
switchgear, aerospace, plasma processing, gas
industry and medicine.

801431 395 P L U
OPTICAL LOGIC BASED RING LASER
An interconnected ring laser responsive to selected optical inputs to produce corresponding optical logic outputs.

Ref No. Org.No. Status Offer Source 801440 395 U

OPTICAL READ ONLY MEMORIES A method for making three dimensional optical read only memory devices. These devices are simple to fabricate and allow multiple readings of the shared information without decay or destruction. The devices have multiple layers utilising fluorescent interfaces to store data which are retrieved by detecting refractive index interfaces.

801693 106 W L/S/J G CHECK AND MEASURING EQUIPMENT A technical object operating in a given mode is taken through primary measuring converter (PMC) consisting of tuned circuit windings. From PMC the signal is processed by computer center which computes, according to a preset program, 15 first members of potential row and the magnetic field in any sphere beyond the objective. Make as per versions from 3 and 8 factors possible.

801761 113 F L C
ANALOG/MULTIMETERS Handheld instruments offer measuring advantages in the electronics, radio and television fields and are especially suitable for electricians and maintenance personnel.

801993 380 L/J C DIRECT VOLTAGE DROP AND PHASE DISPLACEMENT RECTIFIER TRANSFORMER The 110 KV leads of the transformer are arranged to cross on both sides of the three core and winding assemblies and successfully apply a neutral voltage regulating circuit in an auto-regulating direct voltage drop rectifier transformer, thus the weight and cost of the product is lower. The application of the same phase contrary paralleled connection makes it efficiency rate up to 98.9%. Its rectifying efficiency is 3% higher than that of traditional domestic products.

Ref .No. Org.No. Status Offer Source C 802091 92 IJ R BIOELECTRICAL SIGNAL DETECTING **DEVICE** It is suitable for use in the general examination of people's health to get an early judgement on various diseases. This device can be used to test the electric current between every acupoint and reference point or any two points on the surface of human body and cure various diseases. The costs of manufacturing the instrument are about US\$ 1,600 per unit and the local selling price is about US\$ 2,000 per unit. To set up a factory with a production capacity of 600 units per month, the initial investment required is US\$ 50,000.

802137 338 F J
METAL INDUSTRY REHABILITATION
A complete package of technology, equipment and services to establish, assist, improve, manage or rehabilitate metal industries and metal-related institutes in many countries. Emphasis on casting/foundry technology, industrial heat treatment and industrial development.

802322 319.14 C L
AUTO OR SEMI-AUTO ROLLING MILL
MACHINE AND ROLLING TOOL FOR
WATER TANK RADIATING BAND The
rolling mill machine and the rolling tool are
advanced equipment and tool used in the
production of automobile water tank radiating
band. The performances of tool and equipment
have reached or exceeded the equivalent products
introduced from abroad. This is, nowadays, the
most advanced equipment for water tank radiating
band production in our country.

802331 326.07 C L
BUCKET MANUFACTURING PLANT
GALVANISING SHEET Plastic forming of
sheet: blanking of discs forming and closing of
the body double lap. Production of buckets in
four basic dimensions using galvanised sheet.

Ref No. Org.No. Status Offer Source 901028 395 P L U VERTICALLY INTEGRATED MODULATION DOPED FIELD EFFECT TRANSISTOR AND LASER A vertically integrated semi-conductor transistor structure that converts an electrical signal directly into an optical signal as well as a method for fabricating it. The method optimises coupling between logic circuits and optical components and can be fabricated by simple projection optical lithography.

901114 395 L U
RIE PROCESS FOR FABRICATION
SUBMICRON, SILICON ELECTROMECHANICALSTRUCTURES An improved
process for fabricating suspended, single crystal
silicon movable mechanical structures and
actuators for use in micro-machined STM's. It
is possible to produce single crystal silicon
mechanical structures and actuators in the range
of 250 nm. These devices can facilitate and
optimise electronic and photonic system
integration.

901429 395 P L U
BROADLY TUNABLE HIGH REPETITION
RATE FEMTOSECOND OPTICAL
PARAMETRIC OSCILLATOR A tunable,
singly resonant optical parametric oscillator
produces femtosecond light pulses in the infrared wavelength band. The oscillator contains an
internally mounted thin crystal of potassium
titanyl phosphate which is synchronously pumped
by femtosecond pulses from a dye laser. When
rotated, the crystal varies the wavelength of the
oscillator.

901622 98 C L R
MANUFACTURING OF OPTICAL FIBRE
TACHOMETER suitable for the measurement
of the rate of revolution with non-contact. The
products feature fire resistance, explosion proof,
anti electro-magnetic field interference and
radiation resistance.

Ref.No. Org.No. Status Offer Source 901694 106 C L/S/J G DETERMINATION OF EXTERNAL MAGNETIC FIELD of technical objects. Technical object electric equipment is placed into a working zone of primary measuring converter and operated in an assigned mode. Signals from converter are processed by data measuring system where 8 members of potential row are determined and the magnetic field beyond the object is calculated through a preset program.

901753 110 C S C
CARD ACCESS (SECURITY SYSTEM) will
allow entry into restricted premises through the
use of authorised cards. Suitable for government
bodies, banks and finance institutions,
telecommunications, computer vendors and
computer site preparation companies.

901762 113 F L C
RESISTANCE METER for precise
measurement of ohmic resistance with 4 1/2
digit display of measured values. Suitable for
measuring and calibrating shunts and resistors
with small ohmic resistance. Range 0.01 ohm,
1 M ohm max, error +/- 0,05% reading +/0,05% rating +/- 1 digit.

901992 380 C IJ C NTD-18J MICROCOMPUTER TIMING DISPLAY FOR BOXING The machine can display the time of the match, the time between rounds and the time of the match being stopped. It can also display the number of rounds in the match and the number of seconds passed when a boxer is knocked down. The equipment consists of a main control machine and an all-round screen. It conforms to the rules of AZBA in timing, counting and automatic handling. It has been used in the IIth Asian games and other International matches and received high praise from boxing experts.

Ref No. Org.No. Status Offer Source 902320 319.19 C L
ZN POWDER FOR HIGH ENERGY ALKALI BATTERIES Suitable corrosion inhibiting material is added to the melting zinc, then zinc powder made by spray on process, screened and mercury is added. At high temperature and vacuum the composite in amalgame reactor can be obtained.

1284 323 C L
REMOTE PLANT SURVEILLANCE
EQUIPMENT Enables remote status and fault
monitoring, using public- switched- telephone
network. The licensee will be supplied with a
configuration unit consisting of a small computer
terminal and programmer to enable him to
configure a number of outstations consisting of
a modem, the outstation itself which receives
digital from information on isolation interface
unit and signals fault or no fault conditions to a
local and/or remote printer.

1290 342.01 C L
LOAD CALL FOR ELECTRONIC
WEIGHING SCALE a transducer which
converts applied pressure into an electrical signal,
is a major component in electronic scales. Since
this product is technology based, the time needed
for testing and calibration is more than the time
needed for manufacture. It is a labour intensive
product and it has high precision in the order of
1/3,000 - 1/5,000.

2148 334 F S
CAPACITY SENSOR DEVICES with frequency modulated output KSU-F the devices are designed for use in automated distance measurement apparatus. Working conditions: ambient temperature, 5 to 45 degrees C. Relative humidity % (at 30 degrees C) - 95. Degree of protection IP 65.

Ref .No. Org.No. Status Offer Source

101266 319.11 C L
PRINTABLE SOLDER CREAM OF HIGH
PURITY for surface mounting of electronic
components (leadless) onto various types of
printed circuit boards. Gives high performance
in application and excellent solderability.

101272 323.02 F L/J
FAST RESPONSE MINERAL INSULATED
HIGH TEMPERATURE CO-AXIAL
THERMOCOUPLE Developed for consistent
and reliable performance at temperatures over
1,000 degrees C. It is double sheathed and
resistant to stresses induced by bending, thermal
expansion and chemical action.

101278 323 P L/S
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 Jevelopment undoubtedly has many other applications.

101281 323 U L
ELECTRONIC DETECTION OF
OVERLOADED LORRIES This system
processes input from road mounted sensors to
give information on axle loading, vehicle speeds,
vehicle classification etc. It can be used for
screening out overloaded vehicles for
enforcement purposes or producing detailed
information on traffic flow for survey and
interactive protection of bridges etc.

Ref No. Org.No. Status Offer Source 102142 C 336 S/L LASER MEASURING SYSTEM FOR CONTROL OF PIPE MANUFACTURING **EQUIPMENT** Designed for adjustment control of the electrical welding, tooling, pressing and drawing plants for pipes. The system consists of a base model and a set of special mechanical and optical elements. The system is universal and can be used for setting and adjusting the main and auxiliary equipment of pipe producting units.

102145 334 U S
THERMOSENSITIVE QUARTZ
OSCILLATORS The thermosensitive quartz
oscillators type TQO-26 are realised on the basis
of integral highly sensitive temperature frequency
response. Each quartz oscillator operates at 26.5
MHZ and has a frequency sensitivity at about
1000 HZ per grad C in the -60 to +250 degrees
C range.

301286 323 C L FILM AND SLIDE CAMERAS FOR THE COMPUTER GRAPHICS INDUSTRY The world's first comprehensive range of custom designed computer graphic cameras for 35 mm slide, 35mm motion picture, 16mm and 70mm film camera backs. Incorporating the latest developments in solid state electronic control and interface technology. These compact easy to use cameras have registration pins diamond lapped to .0001 inch and with either 100 ft or 400 ft magazines. They have full electronic and mechanical interfaces to all major computer graphic recorders.

302150 334 U J
ELECTRONIC OPTICAL SET FOR LASER
TECHNIQUE pockels cell PC-14, optical
receiver P-108 - for direct registration of light
pulse form in visible and near IR. Application:
in laser technics, ranging, optical
communication, technological system.

Ref.No. Org.No. Status Offer Source
401265 319.03 L
NEGATIVE WAVE-FILTERING MULTICOMPONENT ANALYTICAL
TECHNIQUE is adopted, based on the principle
of absorption of IR light by gases to be
determined. It consists of a semi-conductive IR
detector, an optical interfering filter and
integrated circuits. An industrial on-line autoanalyser for the simultaneous analysis of the

concentrations of two components.

401268 319.16 C L
MANUFACTURING TECHNOLOGY AND
EQUIPMENT FOR TN-LCD DEVICE Liquid
crystal display devices of up to 16 leads are made
from transparent conductive glass (ITO glass)
through following operations, clearing, etching,
orientation, box assembling, scribing, liquid
crystal injection, sealing, polariser, test and
packing.

401271 323.01 W L **ARTIFICIAL NOSE - A MULTIELEMENT** ODOUR DETECTOR Suitable for use in hazardous environments in compact portable and fixed installations using, as a sensor system, an array of semi-conducting polymer sensors and specially developed pattern recognition software, the architecture of which is derived from an understanding of the mammalian system. Like the human nose, it is sensitive to polar odorant molecules with molecular weights less than around 350 and has the capacity to learn by experience.

Ref No. Org.No. Status Offer Source 402141 331 C S **ELECTRON BEAM PROGRAM CONTROL** SYSTEM The system 'Termorelef - 01' is designed for electron beam path and rate control for creating temperature field. It is used in machine building, metallurgy, electrochemical and electronic industry. Operating principle is based on control of continuous electron beam movement of the machined part surface, performed with two orthogonal oriented coils of deflection system of electron beam gun.

501274 323.02 F L/J
WIDE DYNAMIC RANGE ANALOGUE
DATA COLLECTION SYSTEM FOR
IMAGING IN OPAQUE FLUIDS is used
with ultrasonic transducers. The system
incorporates a 5 MHz logarithmic amplifier and
an analogue detection system with a dynamic
range exceeding 90db. Subsequent computer
analysis prepares a two dimensional image
containing three dimensional information.

PORTABLE 8 CHANNEL DATALOGGER WITH BUILT-IN DISPLAY AND KEYBOARD The unit can be set to commence recording data at any future time and date. The scan interval is variable from one minute to 99 hours and up to 16000 individual records can be held in the internal memory. The unit will print data in the form of graphs or digitally onto a dot matrix printer in the form of tables.

502147 334 F S
GALLIUM ARSENIDE THERMODIODES
Application: for thermometers, temperature controllers, thermostats, thermal relays.

Ref.No. Org.No. Status Offer Source 801273 323.02 F J HIGH TEMPERATURE ULTRASONIC TRANSDUCERS for remote imaging, leak detection, gas content monitoring, structural and temperature measurement. These rugged transducers of inorganic construction, cased in stainless steel, operate at temperatures up to 600 degrees C and are resistant to corrosion and radiation.

802146 334 F S
PHOTORESISTORS The photoresistors are photoconductive devices designed as photodetectors in the ultraviolet, the visible and the near infra-red part of the spectrum. Applied in automatic systems radio-electronics and telemetry.

801279 323 M L COMPACT CAPACITANCE DISTANCE MEASURING PROBE The probe is positioned some distance away from a conductive surface, so that the probe, air gap and conductive surface together define a capacitor. Thus the capacitance measured is proportional to the distance between the probe and the surface. This probe is compact and cheap to produce. Applications include situations where the measurement of small distances is required and space is limited. Applications can be extended to determine contents.

702149 334 F S
BRIGHT COPPER FOR PRINTED
CIRCUIT BOARDS A technology for the
deposition of 'first' and 'second' layer of
electrochemical copper on the chemical deposited
tracks of plated boards. Application: in the
production of bi- and multi-layer printed boards
with no imported components. A high quality of
performance guaranteed.

Ref No. Org.No. Status Offer Source 701124 393 U L C REMOTE VIEWING SYSTEMS The systems include in-cell, through-wall CCT? systems; underwater viewing systems and associated lighting; mobile articulated inspection camera for viewing pipe interiors; radiation tolerant CCTV systems. This technology could be applied to other industries where viewing of hazardous or toxic environments is required.

701291 326.09 C L
MICROWAVE TUBES, MAGNETRONS,
CFA AND GAS DISCHARGE DUPLEXER
TUBES Usages: radiolocation, microwave
heating, cancer treatment.

701020 342.02 C L
MICRO PROCESSOR BASED SYSTEMS
FOR TELECOM APPLICATIONS comprise:
a) automatic call recording systems, b) station
message details system, c) telephone call
simulator, d) line observation equipment and e)
uninterruptible power supply. These lower cost
and simpler systems are appropriate for
developing countries like India where imported
complex, multi-spectral communication
equipments are still being used.

K-RAY MONITORING SYSTEM A compact, integrated system for the assessment and quality control of diagnostic x-ray equipment capable of accepting signals from a variety of sources, including a kv voltage divider, ion chamber and closed circuit TV video lines. These signals or profiles can be stored, displayed and analysed at the point of capture and archived on TV magnetic media. The user interface is via a laptop computer, all operations are menu driven.

Ref .No. Org.No. Status Offer Source

Ref No. Org.No. Status Offer Source

LJ 901019 323.01 M CO-POLYMER/ **PIEZOELECTRIC** ULTRASONIC PROBE These polymers are based on vinyledene fluoride and show 3 to 5 times the electrical activity of commercially available piezoelectric polymers. This will enable the production of higher frequency, higher resolution ultrasonic inspection transducers. A further embodiment of this transducer technology relates to the use of laser fibre optics to induce ultrasound in the material being inspected. Joint R & D and patent licensing is available.

The following Project Profiles are available from The National Small Industries Corporation Ltd (NSIC). For more details see the section entitled NSIC Project Profiles at the back of this catalogue.

Link Clips for Electric Wiring
AAC & ACSR Conductors
Air Break Switches
Armature Tester
Auto Electric Fuse Boxes and Fuses
Battery Cell Tester
Battery Eliminators
Carbon Brushes
Carbon Track Potentiometer
Electric Meter
Electric Motor
Electronic PABX System
Push Button Starter
Voltage Stabilizer

OFFERS CATEGORY 4: COMPUTERS

Ref. No. Org.No. Status Offer Source

1018 326.08 C L

TECHNOLOGY OF ELECTRIC HEATING,
ELECTRIC COOKERS AND
HAIRDRYERS. Overall design of technology
of electric heaters, electric cookers, hairdryers
and technological plant, delivery of the
equipment.

1090 394 F L J ULTRASONIC SENSORS Microprocessor controlled ultrasonic non-contact sensors measure objects at a distance used in monitoring liquids and sounds. Regulating distance, measuring, avoiding obstacles.

1343 380 C L C
COMPUTER DEVICE INTELLIGENT
CONTROLLER connects 14 sets of IBM-PC/
XT, AT 286, 386 and compatible systems, 2 sets
of serial output device, 2 sets of parallel outputs
device and 2 lines of switching output. To make
the computer software change the line switch
between the main computer and any other
device.

1895 200 F L C
HALF-INCH STREAMING TAPE UNIT
Low cost, 9-track, 100 ips streamer for operation
with most computers. 1600 and 3200 PE tape
formats with 800 bpi option. Integral Pertec
interface with Pertec Cache and SCSI as optional
plug-in cards. Available in rack mount or desk
top configuration. 9-track subsystem for most
computers.

101053 395 U
FABULOUS An interactive, multimedia recipe database that integrates menu planning, recipe formulations, and related culinary processes with video presentation.

Ref No. Org.No. Status Offer Source 101071 394 F L C COMPUTER UPGRADE Simple, easy to install 286 to 386 computer upgrade chip. 386 -486 upgrades also available as memory upgrade cards.

101080 394 F L C
OPTICAL TORQUE SENSOR High
resolution non contact sensor suitable for variable
torque measurement applications in industrial
machines, transportation generating equipment
etc.

101122 394
TELEMETRY RECEIVERS BIT syncronisers, PCM decoders, signal conditioning, data display systems, digital analogue processors and control systems.

101136 393 W L U
COMPLEX SYSTEMS Applications to
management. Mark-opt: a software suite which
provides a decision support capability in a key
area of marketing ie the negotiation process
between manufacturers and retailers.

TOMOGRAPHIC FLOW IMAGING using capacitance sensors. The computerised tomography (CT) provides a useful means of visualising cross sectinal distribution of components in two component pipelines. A flow imaging system based on capacitance measuring techniques has been developed. Measurements are made on eight or more capacitance electrodes mounted on the outer surface of the pipe to produce a cross sectional image of the two component flow.

OFFERS

- CATEGORY 4: COMPUTERS

Ref .No. Org.No. Status Offer Source

C 101263 342.03 L SOFT START MOTOR STARTERS with

energy savers for welding sets. By using energy savers and soft starters, electrical energy consumption can be reduced substantially resulting in energy conservation.

102139 334 F S STEELS FOR MEDICINE and stomatology - steels for medical implants, austenitic N-MO corrosion resistant steel, CR-CO-NI alloy for stomatological cermet materials. Very good biological toleration, good contact with various cellular structures.

201450 393 W U RESOURCE-OPT software for retail resource allocation. A software suite which solves the problem of optimal retail space allocation in supermarkets, hypermarkets, departmental stores, computer stores etc in a novel way with a view to maximising profits.

201619 94 C U S COMPUTER AIDED DESIGN SYSTEM FOR MECHANICAL APPLICATIONS ZD-MCAD developed on VAX-11 series computers under UNIX operating system. The system, can be easily transplanted to any 32 bit engineering workstation and super minicomputer based on UNIX. The functions of ZD-MCAD cover the full CAD/CAM process from design, analysis and computing, optimal design to NC programming. ZD-MCAD system consists of 13 independent software packages with an assembly control module and associated CDS series graphical workstation. ZD-MCAD can be used as CAD/CAM support software for architecture, structure, industry design etc.

Ref No. Org.No. Status Offer Source

201755 112 C L C VME BUS (COMPUTER BOARDS) Based on 16 and 32 bit processors, gate arrays and surface mounting technology and VME bus standard. These boards are used in applications as wide ranging as metering, imaging, robotics, communications and process control.

202035 266 C C/P COMPUTER BASED TRAINING (CBT) Didactic software and simulators (distribution and development) on personal computers for training or teaching managers and skilled workers with best efficiency thanks to graphic and interactive communication without risk of damaging real world.

202334 319.15 C/L PLASTIC MAGNETIC MATERIALS AND THE APPLICATION OF CCQ METHOD This material is composed of magnetic conducting material and high strength resin, including type A and B. At ambient temperature a magnetic wedge pin is formed at the interface of the electric motor, increasing efficiency by 1-1.75%. Temperature decreases by 5-15 degrees C and vibration and noise are reduced.

301153 393 W L C **MAGNETIC** INDUCTIVE AND **PROXIMITY** SENSORS DESIGN microprocessor control systems and servo controllers. CAD microcontroller workstations and CAD printed circuit design facilities. Specialist sensor coil winding equipment.

Ref. No. Org.No. Status Offer Source 231 C L/J 301943 C **INSTANT IDENTIFICATION** OF SIGNATURES OF BANK USERS Due to its great experience in the Banking Sector and with the objective of solving an important problem in the said sector, this company has developed a unique software system for the verification of signatures. SIGNA is an information system which allows bank employees to instantly verify, and for screen, the desired signature. The systems advantages emphasise: that it is the only system in the market created to solve the said problem and is compatible with all standard hardware. It picks up signatures from paper files. Easy to use as no prior training is necessary.

401602 86 C L P
PRESENTATION AND PROCESSING OF
EDUCATIONAL KNOWLEDGE ON
PERSONAL COMPUTERS Automated
educational working places and flexible
automated educational programmes. Main usages
include: training, retraining and skill advancing
of personnel, compulsory education, self
education. The advantages are its methodical
and technological functional completeness,
compactness, mobility, high rate of response
and ease of use.

R 401624 100 C IJ COMPUTER AIDED TESTING LINE FOR PARAMETER OF ELECTRICAL RICE COOKER The device can measure the parameters of power, insultating resistance, leak current, electrical intensity, holding temperature and restricting temperature. The data will be calculated and recorded in a memory buffer of computer. The parameters will be distinguished into qualified or bad. The device prints the statistical tables after each turn. Number of testing is 600 000 every year.

Ref No. Org.No. Status Offer Source 106 S/L/J 401651 M G DESIGN OF IRON AND CONCRETE STRUCTURES Design of unitised assortments (series) of structures in which each type of article is determined by one basic parameter of the series ensuring minimus consumption for unitisation. Handy for choosing framework sizes for each standard size, finding the load range for the given standard size and classifying it by types of articles.

402132 331 C S
TECHNIQUE AND FACILITIES FOR
COMPRESSOR BLADES PRODUCTION
BY COLD ROLLING OF STEEL AND
TITANIUM ALLOYS Designed for
compressor airfoils production by cold rolling
of titanium and steel alloys in accordance with
drawing requirements without further machining.
Can be applied in aviation, machinery,
shipbuilding, heavy and energy machinery,
automobile and other fields for jet engine blades
and gas turbine production.

501932 224 J
COMPUTER MANUFACTURE AND
SERVICES PC - installation, maintenance, repairs, personnel training, final products assembly. Pre-feasibility study available. Export: 50%.

501942 C 231 L/J SOFTWARE FOR TOOL MANAGEMENT which, following a methodology for tool management, helps in the optimum utilisation of the tools in a mechanical workshop. The system alloys the improvement of the flow of tools, their whereabouts and availability. It is an open system which allows its adaptation to different tools and situations in the company. It is the only system that uses the windows environment which offers it an amicable interface. It has been especially designed to connect with other departments of the company.

CATEGORY 4: COMPUTERS

Ref.No. Org.No. Status Offer Source 502002 249 F J P SOFTWARE DEVELOPMENT

OFFERS

501426 395 P L U
AUTOMATIC IMPACT ECHO FIELD
SYSTEM FOR NON-DESTRUCTIVE
TESTING A device consisting of an impactor
transducer integrated in a hand held configuration
and a unique neural network software system for
signal analysis. This device permits rapid,
accurate location of defects in structures such as
fractures in concrete slabs.

602335 323.01 C J
RADIO RECORDER The technology of welding, debugging and assembling.

701106 395 L U
CURVE SOLID CLASSIFICATION AND
SOLID MODELING A computer system
specialised for curve solid classification
(raycasting) of objects in constructive solid
geometry modeling to produce image
representations of two or three dimensional
objects. The system carries out raycasting at
much higher speed than general purpose
computers.

701110 395 L U
REAL TIME VERIFICATION OF
DYNAMIC HUMAN SIGNATURES A
signature verification system having the capability
of discriminating between the degrees of
inconsistency that one expects to find in both
speed and size of genuine signatures. This
system is suitable for on-line implementation.
Using a PC with a 386 processor, the verification
algorithms require less than one and one-half
second of verification time.

Ref No. Org.No. Status Offer Source
702140 339 F J
HOUSEHOLD APPLIANCES - VACUUM
CLEANERS, COFFEE GRINDERS,
HAIRDRYERS, IRONS industrial cooperation offered for production and marketing.

801137 393 W L U
PRICE-STRAT pricing strategy software. An advanced software suite which enables companies in price-sensitive industries to tackle their pricing problems within a competitive environment. Application areas include interest rates for banks and building societies, fare structures, pricing for automobiles and consumer durables.

801264 326.09 C L VACUUM EXTINGUISHING CHAMBER Usages: switch panels. Advantages: elimination of explosive hazard, reliability.

801350 400 W/U/F L/S/J U
INDUSTRIAL CONTROL SYSTEM OF
TECHNOLOGICAL PROCESSES
Programmable industrial control systems have
been developed in AGH and applied at the VSZ
- Kosica (CSFR) Steelworks. There are
multitascing and multilevel control systems based
on the logical and numerical microprocessors,
connected in the networks and equipped with the
A/D and D/A converters, which served to
control drives and technological processes at the
Blast Furnace and Agglomeration Plant.

802333 319.11 C/L
CABLE FAULT LOCATION DETECTOR
Uses earth potentimetry and electro magnetic induction to locate the ground fault point of cable.

OFFERS

available.

CATEGORY 4: COMPUTERS

901123 393 F J C
SOFTWARE PRODUCTS for image analysis, signal processing, pattern recognition and neural network systems. These range from standard methods to leading edge research products. Both software packages and bespoke development is

Ref. No. Org.No. Status Offer Source

1275 323.02 C J
QUALITY ASSURANCE OF SOFTWARE
is especially important for software used where
safety and reliability are essential. New computer software production follows a structured
approach in which all stages follow standard
procedures and are fully documented. Strict
change control of software and documentation is
used to ensure that controlled multiple versions
do not exist.

701267 319.11 C L
MANAGEMENT INFORMATION SYSTEM
FOR CITIES AND TOWNS The system
consists of three parts 1) computer information
processing system, 2) sound data integratinal
communication system, 3) word process printing
system. The system possesses two functions:
office automation (OA), the auxiliary decision
making of MIS. It has good practicality and
perfect function. The system is developed on the
super-minicomputer and micro-computer. Data
communication is done by using PABX.

702!43 266 C S
COMPUTER BASED TRAINING (CBT)
Didactive software simulators (general or specifically developed) on personal computers for training or teaching people with high efficiency thanks to graphic and interactive communication without risk of damage to actual equipment.

Ref No. Org.No. Status Offer Source 701276 323.02 C J COMPLETE DATA BANKING SERVICE FOR PC AND MAINFRAME COMPUTERS includes file creation, data collection systems, programming and data retrieval, manipulation of data to suit customers requirements, quality control, statistical and graphical data analysis, materials accounting and component traceability. Raw data can be checked by scanning programmes to identify potential errors for correction.

801282 323 U L
A SINGLE BOARD COMPUTER FOR
MEASUREMENT AND CONTROL
APPLICATIONS The unit has A/D converter
and serial/parallel input and output ports. This
compact unit can be used to control any piece of
process plant according to a programme based
on up to eight external events eg voltage,
temperature, switch operation etc.

The following Project Profile is available from The National Small Industries Corporation Ltd (NSIC). For more details see the section entitled NSIC Project Profiles at the back of this catalogue.

Desk Top Publishing

Ref. No. Org.No. Status Offer Source P 1159 393 F L. SAFE BABY BATH which fits into a conventional bath. The baby is held firmly but gently in the quick release safety harness, so freeing both hands of the adult to clean the child quickly and easily. Temperature control is facilitated by the built-in safety thermometer and recommended water levels are clearly marked.

1168 393 C L
SHOWER DRYER You simply stand in your shower for a few minutes after showering and let warm jets of air dry your body. The system combines a neat, attractive design and finger tip control with an air flow that provides perfectly balanced heat throughout its whole volume.

1287 323 W L
INTEGRATED THEFT PROOF POWER
SUPPLY AND CONTROL UNIT FOR CARS
Power supply/control unit to drive 4 modules
and interface to car electrical system. Includes
anti-tamper (theft) protection for the unit and
connector modules which activates the horn if
any part of the system is disturbed. Modules
include: car alarm, 'lights left on' reminder,
battery monitor and windscreen wiper delay and
speed adjuster.

1587 81 C L/J C CROCKERY AND GLAZE TILES plant and technology on turn key basis.

1806 142 C L/J P
RUBBER BASED PRODUCTS Turnkey jobs for manufacture of rubber based products from both natural and synthetic moulded goods, tyres and tubes, hose pipes, conveyor belts, latex goods etc.

Ref No. Org.No. Status Offer Source

1889 194 C

LOW COST HOUSING House built without use of bricks by wire mesh using mud balls from site. Construction is done by women and one experienced builder to supervise the straightness of walls. Building is called Terracrete and found cheapest and stronger than a brick house. Classified as low cost housing.

1890 195 C L C
COMMERCIAL VINYL FLOORING
Homogeneous foam backed acoustic, slip
resistant safety flooring and specialist static
control ranges. Increased capacity and flexibility.
Patented process to produce homogeneous non
directional flooring.

101127 393 U L C
AIR MOVING FAN based on a novel fibrous impeller. The flexible fibre impeller is spun at high speed inside a simple volute casing and thereby moves air in a similar manner to a conventional centrifugal fan. The lightweight impeller is ideally suited to mobile applications eg agricultural and military etc. The low inertia flexing impeller resists solids build up in dusty environments.

101269 319.17 C L
MANUFACTURING TECHNIQUE OF
BROADCASTING MAGNETIC TAPE AND
CASSETTE TAPE Magnetic powder is mixed
with binder and some chemical materials, the
mixture is dispersed and then it is pulped
(magnetic pulp). The magnetic pulp is coated on
support, through calendering, cutting, erasing,
packing, broadcasting tape and cassette tape
processing is finished.

Ref. No. Org. No. Status Offer Source

101488 23 F J P

LEATHER GOODS Cottage scale production of sandal footwear, belts, passport cases, coin purses, key pouches, key holders, leather baskets etc by utilising locally produced leather requiring very minimum basic machinery and accessories. Possible to develop into higher scale production.

101887 192 F S C
FABRIC MANUFACTURE Woven, knitted
and narrow fabrics, including tipped shoe laces.
Tapes for electrical industry, curtaining, bags
and shoe industry. Elastic for underwear, bras,
all clothing, seat belting, variety of laces for
clothing industry, shoe laces for shoe
manufacturers.

201461 3 W/F S G
TOILET SOAP with whispering fragrances, fatting and softening additives and antioxidents which produce a rich foam. Available in pieces of 90 mg up to 150 gm. Total fatty matter 78-80%. A transparent glycerine soap. A soap for saline and hard water is also produced.

201623 98 C L C
NEW KIND OF HOME USE MULTI
FUNCTION ROAST OVEN which is suitable
for homes and picnics. The oven can be used to
roast, fry, stir fry and boil food. The fuel needed
is charcoal, which has no positive side effect on
the food. The oven is composed of the oven
body, a grill, a small air blower, batteries, a
support, spits and skewers. It is 40 cm long, 20
cm wide and 30 cm high.

201764 115 W L G
WHEELCHAIR all kinds (standard, electronic, sanitary etc) from steel, aluminium in different colours for children and for older people.

Ref No. Org.No. Status Offer Source 201979 244 F S C TEXTILE MANUFACTURE We can offer full technology for the manufacture of textile auxiliaries including products which are ecofriendly.

202283 251 C L/J C
PRODUCTION OF SHAMPOO, CREAM,
POWDER, SOAP We produce powder, liquid
filling machines, labelling machines, bottle
washing machines. Main use: cosmetic and
medicine industry. Main advantages: quick and
economical manufacturing, quality and service
are also guaranteed.

301079 394 F L/J C DIAGNOSTIC KITS wide range.

301171 23 C/F/W J/S/L C/P LEATHER PRODUCTION Improvement of corrected grain upper leather from cow, wet blue goat leather and sole leather manufacture. Method of utilising wet blue shavings for cottage scale footwear insole boards and utilising fleshings and rejected limed pelts for paper glue. Manufacture on cottage scale.

301313 376 C L C
SOLAR COMBO WATER HEATING
SYSTEM available in the sensor/pump and
thermo-syphon version, both are ideal for hotels,
sports clubs or wherever showers and/or spa
pools consume large quantities of hot water.

301414 396 C J C
HEATPROOF CERAMIC COOKING
UTENSILS The product possesses good thermal
shock resistance. It stands wear and erosion
without poison. It can be used to cook, fry, boil
and stew food on gas stove, electric stove or
oven.

Ref. No. Org.No. Status Offer Source 301459 3 W/F S G LAUNDRY SOAP Rich foam, white or coloured. Available in pieces of 100-400 gm, or bars up to 1.5 kg, with or without cetronella fragrance. Antioxydents are added. Total fatty matter 63-68%.

301468 7 F/C L/J P
DETERGENT AND CLEANING
FORMULATIONS such as laundry detergent
powder, multi-purpose liquid cleaner, car
shampoo, rug shampoo etc. Project can be
started with a low investment of Rs 50,000 to RS
1,00,000/-.

302003 250 C L/J BARRIER CREAMS Technology for the manufacture of skin protective barrier creams used by industrial workers while handling hazardous chemicals.

401078 394 W J C
AUTO CURATIVE INSTRUMENT
Wristwatch and curative instrument measures
the bodies reaction to a wide range of activities,
liquids and foods etc. Initial development to be
used in treatment of arthritis and osteo-porosis.

401277 323 C L
HUMAN TISSUE CARE AND REPAIR
'CAR' is a white powder, that is extruded from
meat homogenates in a highly purified form. It
can be incorporated into creams, ointments and
lotions as an active ingredient. It has strongly
bacteriostatic, anti-inflammatory and
immunimodulating properties. A manufacturing
agreement is offered.

Ref No. Org.No. Status Offer Source W 401280 323 L **ELECTRO-MECHANICAL REMOTE** CONTROL LOCK A high security electromechanical locking system which can be opened and closed by remote control, and also opened with a coded key pad from outside. Automatic closure is by means of a half turn bolt, and additional security bolts are engaged once the door is fully closed and the half turn bolt entirely within its socket. Suitable for flats, offices, laboratories, etc where high security is required.

401289 323 W L
TELEPHONE CALL SCREENING DEVICE
A low cost call screening system used on an attended telephone to avoid and deter any unwelcome telephone callers. Operated manually by the call recipient and is suitable for use in the home or small business. Manufacturing cost under £20.

401573 71 C S G
HARD ENDURANCE WASHING
MACHINE Single tub, electrical connection of
220 volts, single phase (also other voltages).
Can be produced in small workshops with
normal metal working machinery.

402144 341 W J
FIRE PROTECTION SYSTEMS Automatic/
semi-automatic involving smoke/heat detection/
alarm systems integrated with combatting systems
by wet risers, sprinklers, medium/high velocity
water spray, foam, dry chemical powder or
Halon.

Ref. No. Org. No. Status Offer Source 501482 21 F S P SPECIAL FIRE EXTINGUISHER (for autombile). This formulation requires only two chemicals which are available everywhere and needs only a small mixer. The end product is a powdery mixture which when thrown on automobile fire a carbonic gas is liberated which is heavier than air and smothers the fire. Instantly very effective.

601129 393 U L C
SECURITY WARNING SYSTEM The unit telephones one or more numbers previously entered into it by theuser and replays a warning message relevant to any event on the premises that has triggered off the system. Events are detected through a variety of sensors, ranging from intruder sensors to a freezer defrost sensor in a food store.

601777 125 F L C
HOUSEHOLD APPLIANCES Cookers, (gas, electric combined) refrigerators, freezers of different versions (regarding uimensions and capacity) and automatic washing machines (front loaders). All appliances are of up to date design. Their functions and quality comply with international standards. Every product meets at least one of the following international quality standards: VDE, DVE, NE, UL, N, S, E, GUST etc. They comply with standards concerning low electric energy consumption.

701011 380.01 C L/J C
HOT SPRING WATER THERAPEUTIC
UNIT The whole unit is controlled by the
console in the control centre and can form bath
of raindrop shape, fog type, needle shape,
upward spray or spade shape to serve as
massotherapy for the human body.

Ref No. Org.No. Status Offer Source 701039 396 C L G D35 SCHNABEL CAR D35 schnabel car adopting external and internal guide and incorporating hydraulic lateral displacement, lifting and equalizing loading side-bearing. With interconnection between internal and external guide, the car can change the guide location automatically without stopping operation

701288 323 C L/J
THEFT AND INTRUDER DETECTION
SYSTEM A self powered electronic security
system designed to protect glazed areas and
precious objects. A small, thin, flat transmitter
1 1/4 in x 1 in x 1/4 in which can be mounted
between the glass of a double glazed window,
and will activate an alarm signal on breakage of
the glass.

701460 3 W/F S G
GLYCERINE PRODUCTION of a soap,
crude glycerine + dynamite glycerine.
Chemically pure glycerine is produced according
to the British Standard specifications.

701532 56 C L R
TECHNOLOGY OF SPLITTING WHITE
WET SKIN can raise the grade and quality of
soft pig leather and can save sodium bicarbonate
by 30% - 40% and reduce chrome pollution by
50% compared with the normal process.

702125 327 C S G
PICKLING OF SHEEP SKINS in analytically standardised used enzymes bath. Fur sheep skins are pickled in acid medium in baths which are 10 times used after analytically controlled of their activities. Main advantages: increase of are a yielding, better softness and flexibility of ready made leathers.

702230 367 C L/J C READY MADE CLOTHES

Ref. No. Org.No. Status Offer Source

702248 354 C J C
MARKETING OF SAFES produced in Turkey
to other second and third world countries. The
proposed process is to improve the quality and
capacity of safes produced in Turkey and to
increase the marketing departments. The
proposed use will be defined after correspondence
has taken place. Proposed standard capacity:
3000 safes/year.

901397 396 C J G 400MHX PERSONAL RADIO HAND SET

The product is a new generation transceiver with the following features: dynamic 80 channel sharing, automatic dial calling, microcomputer controlled, digital signalling, saving frequency resource, low power consumption, small in size and light in weight.

901483 21 F S P
AUTOMOBILE SHOCK ABSORBERS AND
BRAKE HYDRAULIC FLUID
TECHNOLOGIES This formulation complies
closely to society of automobile engineers
specifications and ensures the following contents:
solvent, lubricant, coupling agents, inhibitors
and anti oxidants. Only a good scale and small
mixer required can be started in a room and raw
materials are available everywhere.

The following Project Profiles are available from The National Small Industries Corporation Ltd (NSIC). For more details see the section entitled NSIC Project Profiles at the back of this catalogue.

Gas Lighters
GI Bath Tubs
Sewing Machine
Solar Cooker

Ref No. Org. No. Status Offer Source

Toilet Soap

Auto Telephone Recording & Answering

Machine

Cooking Range

Cycle Dynamo

Digital Clock

Electric Iron

Electric Kettles

Electric Stoves

Hair Dryer

Hot Plates

Ouarter Analog Clock-Electronic

Radio

Room Heaters

Table Fan

Toaster

Video Cassettes

Washing Machine

Water Heater

PVC Watch Straps

PVC Foot Wear

PVC Rain Coats

Plastic Flash Light Torches

Spectacle Frames

Ankle Shoes & Booties

Chappals and Sandals

Leather Garments

Leather Goods (small items)

Leather Handbags - Ladies (non-framed)

Leather Handbags - Ladies (framed)

Leather Hand Gloves & Other Products

Leather Shoes (children)

Leather Shoes (moccasin)

Travel Goods (leather)

Wooden Furniture & Fittings

CATEGORY 6: FOOD PROCESSING

Ref. No. Org.No. Status Offer Source

OFFERS

CULTIVATION AND PROCESSION OF SE-RICH TEA The technique is available in various areas. The tea production per hectare is 225 kg with the technique of cultivation. The selenium content of the se-rich tea contains all the advantages of the common green tea. It also has a strong anti-oxidation and it benefits human health. The trace elements of human body will increase by 0.9-8 milligram after drinking the tea of 6-200 each day.

1209 284 U S G
EXTRACELLULAR YEAST
POLYGALACTURONASE without
contaminating enzymes for juices, winemaking
and dietary nutrition. Enzyme increases juice
yield and clarifies juices. It macerates fruit and
vegetable tissues. Yeast polygalacturonase can
be used in fields of pharmaceutics, biotechnology
of plant cell.

1251 165 F/C L/S C
DECUTICLING OF SEASAME SEEDS
Seasame seed is rich in oil and protein and as such, considerable importance has been given to the preparation of protein.

1456 1 C L/J C
SUGAR PLANT capacity 500 TCD to 4000
TCD by sulphitation process, defacation remelt talo phosphitation process and double sulphitation process.

1472 11 W S C
PRESERVED FOODS Canned: juices, jams, legums, vegetables and tomato products. Glass: jars (jams, pickles), bottles (juices, syrup). Freezing: vegetables and fruit pulp. Drying: grape.

Ref No. Org.No. Status Offer Source
1575 74 W S C
CONCENTRATION OF JUICES IN SOFT
DRINKS (carbonated -a process) for producing a beverage.

1578 75
THE TINYTECH OIL MILL is 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.

1627 103 C L/J C
BREWING RAPID FERMENTATION OF
BEER The technology is a one tank method of
the fermentation of beer. The fermentation
period will be reduced from 30 days to 7 days.
Using this fermentation method it is possible to
process 30 tonnes of beer a day. The cost of the
production of 100 tonnes of beer will be US\$ 11
000. The product is Pilsener beer light in colour.

PROPHYLACTIC DRINKS of fruit and vegetable concentrates with organic and vegetable additive. Preparation of beverages which regulate the exchange processes and increase the body's adaptation to the media, has a marked adaptogenic effect when taken according to a special scheme of treatment. Another beverage regulates the exchange processes and stimulates the secretory function of the body.

1709 106 P L/S/J G CULTIVATION OF RASPBERRY and mechanised harvesting.

Ref.No. Org.No. Status Offer Source

1884 190 F J P

PLASTIC THERMOFORMED

PACKAGING In house design for all horticultural, fast food and specific design packaging out of latest and most up to date plastics. Lightweight clear/coloured inexpensive packaging for Africa's requirements.

1991 380 C L/J C
PRODUCTION OF QUICK DISSOLVE TEA
The tea quickly dissolves, is brightly transparent, leaves no deposits and is fragrant. The production technology is unique and mature. One one production line, quick dissolve tea and tea pigment can be produced simultaneously. Its quality reaches the first class and the product is well favoured in the world market.

2009 253 C L C
IRON + IODINE ENRICHED COOKING
SALT A process for manufacture of pure white
free flowing cooking salt enriched with iron and
iodine at 1000 ppm and 30 ppm respectively.
Most ideal for providing iron and iodine through
food in the convenient and economical way.

2018 258 W L G
SUNFLOWER OIL PROCESSING
EQUIPMENT The set of equipment consists of
a decorticator, winmower, roller crusher,
scorcher, press and boiling pan. The set is
manual and very suitable for rural areas. Field
tests have been conducted for the past 8 years on
the equipment.

2054 278 U J C
FILLING OF FRUIT JUICES in cartons to last for about one year. Required conditions for tropical countries.

Ref No. Org.No. Status Offer Source 2112 311 C L/3 COUPLING LOW POLYSACCHARIDE which is suitable for being used as a sweetner in candy, pastry and in the beverage industry. The saccharide is transformed from concentrated enzyme by utilising the starch of corn, potato and sweet potato as raw materials. The saccharide yields less calories and helps prevent tooth decay. The product is a viscous, transparent, light-yellow coloured liquid. To set up a factory with an annual output capacity of 1,000 tonnes, a total investment of about US\$ 300,000 to 400,000 is required. The production process is free from water, air and environment pollution.

2115 315 CONFECTIONERY Products: chocolate; marshmallow; nougat; biscuits; wafers; candy; toffee; sweets; jelly; juices; jams.

2124 327 C S G
ENZIMATIC DEPILATION OF PIG SKINS
Complex technology including preparation of
skins, dynamic depilation and bristle recovery.
Main advantages: good degreasing and uniform
dyeing of skins, better surface yield, recovery of
bristles of standard value, lower toxicity of
tannery waste waters.

101254 165 F/C L/S C
OPTIMISED MILK FOOD FOR INFANTS
The optimised milk food developed is unlike other commercial formulae which contain about 22% protein, the protein content of the infant food is only 12%, it also has an adequate level of essential juices and can be used in the textile industries for degumming and in the leather industries for tanning.

Ref. No. Org.No. Status Offer Source 101551 58 C L C TOASTER (SOYA BEAN CAKE) Capacity: (50-100) ton/day, power: 75 kw, PN 10 bar, diameter: 2.7 m, max height: 5.9 m, material of construction: carbon steel - alloy steel. Use: urea enzeme reduction in soya bean cake.

101563 64 C L C
FRUIT WINES A process for making good quality fruit wines from common tropical fruits such as pawpaw, plum, passion and pineapple. The process entails juice making, fermentation, bottling and packaging.

101605 86 C C
FERTILIZER SYSTEM FOR HIGH YIELD
OF LUCERNE SEED Mode of irrigation for lucerne seed depending on weather conditions and condition of herbage. Increases yield.

101614 91 C L/J C
TECHNIQUE AND EQUIPMENT FOR
PRODUCING SOYBEAN TISSUE
PROTEIN The equipment firstly defats
soybeans and then produces out the soybean
protein meat after eight steps of process. One
kilogram of dried soybean protein meat can
substitute three kilograms of lean meat for
eating.

101618 93 C L/J R
BREEDING AND CULTIVATING OF WILD
RICE which is a hydrophilous vegetable in
South of China and Vietnam. The cultivar of
wild rice in Wuxi can be harvested in the
summer and autumn. Seven new cultivars and
their cultivated technology have been developed.

Ref No. Org.No. Status Offer Source 101654 C 106 L/S/J G INDUSTRIALISED CULTIVATION OF MAIZE into crop by watering in arid zones. Up to date technology includes the following stages: growing of high yield sorts of maize, effective initial cultivation of soil, system of pre-sow cultivation of soil, pre-sow use of new highly effective herbicides and immediate placement of the latter into the soil with the use of the suggested combination aggregate.

101681 106 C L/S/J G
PREPARATION OF FOOD PROTEIN
LIPIDS on continuous ethanol cultivation of
yeast. Maintaining of clean yeast culture on
agaric medium, accumulation of seeds in flusks
on a rocker on ethanol containing medium,
cultivation in ferment by continuous method,
separation of biomass of yeast, plasmolysis and
drying.

101781 129 F/S J R/P TABLE VINEGAR FROM WASTE HONEY Waste honey is discarded during processing, containing a large part of genuine honey, is fermented in two stages into alcohol and acid using specialised yeast bacteria respectively for the purpose. The plant is simple and continuous and product sold packed in pilfer proof glass bottles. A plant will cost a lakh of two rupees and fabricated and installed easily.

101816 146 L G
STRAINS OF SACCHAROMYCES
CEREVISIAE producers of ethanol. There
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 ten of starch.

Ref.No. Org.No. Status Offer Source 102022 133 C S G PRODUCTION OF SOY OGI from soya beans and maize/sorghum.

102099 88 C L/J C PRODUCTION OF THE FOOD ADDITIVE AMMONIUM BICARBONATE procedure is simple and the technologies are advanced and rational. The quality of the product is in accordance with the China National Standard GB 1888-80. The ammonium bicarbonate product has white powder crystal, like fine sand, with no caking. It has been sold in over 20 countries and areas. It is mainly used in food industry, also in pharmacy, chemicals and recovery of rare metals. The total price for the technology transfer will be negotiated with interested parties.

102109 308 C L/J C
DETECTION OF MEAT QUALITY This method comprises of a series of biochemical methods including 8 kinds of biochemical indices and 2 kinds of biochemical techniques. They can be used in: differentiation and identification of various kinds of meats. Detection of whether there is adulteration or blending of meats. Evaluation of the edible quality of meats. The transfer fee will be discussed directly with interested customers.

102118 317
ENVIRONMENTALLY SAFE
PACKAGING MATERIAL FROM
COCONUT FIBRE DUST Machine pressed
and moulded can be re-used as a plant growing
medium. As thermal insulation or used as a fuel
for heating or cooking. This award winning
development is from Sri Lanka.

Ref No. Org.No. Status Offer Source 102227 165 F/C L/S C PECTIN FROM PECTINACEOUS MATERIALS Pectin is used in the fruit and vegetable processing industry and in the pharmaceutical industry. Lime waste is a rich source of pectin. All these products have export potential.

201405 396 C L R
MANUFACTURING TECHNIQUE OF
CONCENTRATED SOYBEAN
PHOSPHOLIPID AND FINE
PHOSPHOLIPID This technique is deep
processing for soybean oil residue. The product
could be used for emulsifier in food, medicine,
light and textile industry.

201423 395 L U WINE PRODUCTION - SYNTHETIC MEDIA FOR THE PRODUCTION OF MALOLACTIC STARTER CULTURES Malolactic fermentation (MLF) by certain strains of lactic acid bacteria, plays a significant role in determining the final quality of wine by reducing its acidity. This is particularly significant for wines produced in cool wine growing regions. While MLF occurs in wine above pH 3.4 it is quite irregular in wines below pH 3.4. To overcome this, a synthetic media starter culture for the production of lactic acid bacteria to induce MLF has been developed which uses fructose as the primary carbohydrate source.

201486 21 P S R

OLD STYLE GINGER BEER This formula is for the ginger beer found in many markets. It is manufactured with and without yeast, ginger, a common fruit and two additives are used. Process is simple with plastic containers and ends in 3/4 days. Very good shelf life. Suitable for home and for commercial projects - mail transfer.

Ref. No. Org.No. Status Offer Source 201682 106 M L/S/J G CLEANING AND DESALINATION Modification of polymer membranes by implanted polymerisation physical and chemical methods: norms of technology of desalination of low mineral waters, fractioning of technical lignosulphonates. For softening of water, purification of running water, cleaning of technical lignosulphonates.

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201782 129 W S/J MANUFACTURE OF COCOA BEAN PRODUCTS, MILK CHOCOLATE, COCOA BUTTER, COCOA POWDER, DRINKING CHOCOLATE Raw cocoa beans can be fermented in a continuous fermentor. dried, roasted in a continuous roaster with recirculation of hot air at a particular temperature for flavour development, kibbled, cleaned of shell and plasticising in a continuous liquor mill and pressing in batch pressure filter, cocoa butter separated and cake made into cocoa powder of the required size. Total cost is approximately 25 lakhs of rupees.

129 R/P 201783 U/S **GROWING OYSTER MUSHROOMS** (PLEUROTUS SAJOR CAJU) The tropical variety of edible mushroom (oyster type) are grown in simple ratproof sheds with stabilised paddy straw impregnated with pure spawns, kept in polythene bags with air holes of 5 litre capacity each, when the mycelium starts blooming the polythene bag is cut open and the fully grown mushrooms appearing on all sides are harvested 3-4 times, the yield being about 500 grams/kg of straw which will cost a rupee, the cost of making negligibly small and price of product as high as 30-40 rupees/kg.

Ref No. Org.No. Status Offer Source 202017 258 W L G CHICKEN FEED MILL AND MIXER The equipment can be used to manufacture chicken mash. Production capacity is about 6 tons per day (8 hour shift). The mill runs on a 25 HP (18.5 KW) and the mixer on a 7 HP motor. Feeding into the mill is pneumatic and so is into the mixer.

202026 133 C S G FISH DRYER

202094 296 C L/J R CONTINUOUS CONCENTRATION **EVAPORATION TECHNOLOGY** technique widely applied in the food industry, the chemical industry, the pharmaceutical industry and the oil industry for concentration and distillation since the technique adopts an instantaneous evaporating concentration, it especially fits to the treatment of heat sensitive materials. The advantages of this technology are as follows: its evaporation rate is 5-7 greater than the evaporation and 3-4 times what of the pipe evaporator; it can evaporate highly viscose liquid materials; within a very short time (about 10-60 seconds) in the evaporator.

301051 395 U
SUPERCRITICAL FLUIDS EXTRUSION
This is a process and apparatus for improved control of colour, flavour, rheology and other properties of extruded foods. The apparatus is a unique hybrid of supercritical fluid extraction and extrusion in which the extruder is modified to permit injection, mixing and selective removal of supercritical fluids in the extruder.

Ref.No. Org.No. Status Offer Source

301117 395 L U

MONOCOT HAVING DICOT INDUCIBLE

PROMOTER Transgenic rice plants that express
natural insecticides (ie serine-type proteinase
inhibitor) only in response to specific insect
associated damage are now possible. BT toxin
genes can also be incorporated to produce toxins
in response to insect caused insults. Any
constructs shown to work in rice can be used to
transform other monocots.

301250 165 F/C L/S C COMPOUNDED ASAFOETIDA In powder/tablet form being uniform in quality finds use in the culinary preparation for various flavouring purposes.

301501 33 F C RUM AND WINES

301615 92 C LJ APPARATUS TO TREAT RICE AND WHEAT SEEDS The apparatus outputs a set coded electric pulse signal with fixed frequency and duty cycle. Before sowing, the rice and wheat seeds were soaked in water and treated with this apparatus for one hour. Under identical climate and farming conditions, the treated rice and wheat will increase production 3-8%. Every set of such apparatus can treat 100 kg seeds at one time. In addition, other inventions of special electromagnetic signal apparatus provided by the Institute are available.

301960 232 C 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. Combined recovery
more than big sugar factory. Hence strongly
viable. Simplest machinery. Low investment
project. Skilled workers essential.

Ref No. Org.No. Status Offer Source

302012 255 C L C

MANUFACTURING PLANTS 1. Small and large capacity cane sugar plant. 2. Plant for manufacturing egg trays from waste paper. 3. Utensil making plant. 4. Leather tannery. 5. Welding electrode manufacturing plant.

302021 260 M/W G
SWEET YAM FLOUR Made from sweet yam
after harvest is washed, peeled, sliced, blanched,
dried, milled and packaged. It can be used as
composite flour for bakery, as an enriched
weaning mixture or reconstituted as chips.

302057 282 C J G
RED COLOURED CONCENTRATED
JUICE Extract from red flower of Hibiscus
Sabddarifa L is concentrated up to 75 degrees
brix. The process, the storage and the utilisation
conditions are determined to obtain a stable and
economic product. The same process is also
used to produce Tamarin concentrate
(Tamarindius Indica L). Both Hibiscus and
Tamarin concentrate are produced using ITA
pilot plant.

302111 310 L/J R HIGH PROTEIN AND NON BEANY FLAVOUR SOYAMILK The soyamilk is made of soybean and vegetable oils by a special process to eliminate the beany flavour. The level of unsaturated fatty acids and iron content are more than in milk. The content of total sugar is only half that in milk. The production capacity is 40,000 to 50,000 bag (200 ml plastic bag) per day (10-12 hours). The local cost is US\$ 0.04 per bag. The Institute estimates that an investment of US\$ 0.55 million is required to set up a plant with a daily (10-12 hours) output of 8-10 tonnes soyamilk, including equipment cost of US\$ 0.3 million.

Status Offer Source

302260 346 M L/J G
PROCESSED WEANING FOODS based on locally available raw materials. Five (low cost and nutritious weaning food based on local cereals: (maize, sorghum and rice) and tubers: (vam and sweet potatoes) supplemented with

Ref. No. Org.No.

(yam and sweet potatoes) supplemented with cowpea and a small amount of milk have been developed. The methods used are simple and practical.

302267 343 P S P
M-I-NIT RICE PROCESS Produces one
minute cooking rice, breakfast cereal and infant
food - all from parboiled rice. Simple hot air
process. Technology US\$ 500.

401253 165 F/C L/S C
MUSTARD POWDER This is being used for
the preparation of mustard paste, table mustard
etc. The process involves splitting and dehusking
the graded seeds. The husk and cotyledons are
screened and air classified into different fractions
where the cotyledons are ground to required
fineness.

401396 396 C J G
NATURAL PIGMENT FROM CHILLI A
series of refined product of natural red chilli
pigment, yellow pigment, capisaicin and
capsiciol are produced in a new technique process.
The series of refined products is applied in food
industry, medicine production, cosmetics
products etc.

Ref No. Org.No. Status Offer Source

PRODUCING ICE CREAM DIRECTLY FROM SOYBEAN It needs less equipment investment and can be easily adopted by the present ice cream factories. With the technique, the intrinsic rancid smelling of soybean can be eliminated and the activity of trypsin inhibitor can be passivated. Using the technique, about 0.5 tonnes of ice cream can be produced per day. The cost of 1 piece of ice cream (7 C) is about US\$ 0.05 at present. The investment for setting up a factory with production capacity of 0.5 tonnes is about US\$ 75 000.

401591 81 C L/J C WINE/BEER INDUSTRIES Complete plant and technology may be provided on turn key basis.

401606 86 U LJ C 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. Main usages of technology include: food, medical, pharmacological, chemical industries. Main advantages of technology are: technology does not depend on the type of processed vegetable raw material; production of quality pectin; exlcusion of labour consuming processes of sedimentation and flushing of pectin by organic solvents.

401678 106 M L/S/J G CATTLE FEED FROM COTTON PLANTS Processing of dry leafs of cotton plant for food fractions. Pneumatic separation to sizes and particles with the emission of high protein containing fractions for cattle raising, production of combined fodder.

Ref .No. Org.No. Status Offer Source R/P 401784 129 P/L S/J PROCESSING AND PRESERVING PLUM JUICE could be preserved in natural sweet form by simple physical/chemical processing, preserving it either as a sweet tasty healthy drink after clarification, settling, filtration, pasteurisation etc. Entire plant is simple and inputs cheap. It can be preserved in airtight glass bottles/plastic containers. Attractive tasy syrup can also be made by vacuum evaporation. Tree is grown abundantly throughout India.

402016 64 C L C
FRUIT WINE Production of fruit juice and the technology of fruit wine with special reference to Papaya wine making for commercial purpose. The process entails simple equipment for juice extraction which requires no electrical power.

402025 133 C S G
DISTILLATION OF ALCOHOL from palm wine/molasses.

402084 76
SUGAR PRODUCTION The equipment artechnology for growing, harvesting and processing sugar beet, its bi-products and downstream products such as alcohol.

402093 296 IJ R C ABSTRACTION TECHNOLOGY FOR NATURAL ESSENCE The technique is applied to abstract essences or pigments from natural plants by use of solvents (the solvent could be water, polar or nonpolar solvent) because of the adoption of advanced abstraction equipment and an instantaneous evaporating concentrator, it will turn out a product with natural flavour. The equipment production capacity is 3,000-5,000 kg/day. The technology and equipment are available for flat fee of US\$ 800,000.

Ref No. Org.No. Status Offer Source 402108 307 C LJ R A NEW TYPE ALCOHOL FIGHTING DRINK Jiu Le is a new alcohol clearing drink. which is made mainly from edible Chinese medicines with animal experiment and human body experiment show Jiu Le is an effective alcohol clearing drink. It has an obvious effect on eliminating alcohol as you drink 250 ml (1 bottle) of it after getting drunk. Annual output 30 million bottles. Annual profit US\$ 30 million. Transfer fee: US\$ 400,000 (including complete sets of equipment, but not including factory building).

402126 327 C S G
UTILISATION OF ALL UNTANNED HIDE
WASTES Production of protein feed stuff and
technical fat from hide wastes - raw and limmed
on very simple equipment. Main advantages:
feed meal of standard value for poultry farming
and technical fat for chemical processing are
obtained from hide wastes - reduction of
environment pollution.

402224 165 F/C LS C DEHULLING OF SEASAME SEED The orange beverage prepared from the orange flavour is similar to 'FANTA' an item formally imported. A crystal clear lemon-lime beverage prepared is similar to 'seven up' a popular beverage in the USA. The deterpenated citrus oil finds use in flavouring confectionery, bakery goods and pharmaceuticals while the by-product terpene, a rich citrus oil, can be used as a flavouring agent in cosmetics and toiletries and also as a solvent in perfumery and thinner for paints.

402269 152 F L G
CEREALS Technology of producing powdered
(baby foods) for infants and children. Method of
producing (instant cereal) products by (drum
drying) and modified milk formula for infants.

Ref. No. Org.No. Status Offer Source 501004 95 C L R RICE BRAN OIL EXTRACTION, REFINING AND ITS BY PRODUCT UTILISATION The technology of by product utilisation includes: crude fatty acid, oleic acid and stearic acid from soapstock. Oryzanol extracting technology and equipment, phytin and inositol preparing technology and equipment. Different standards of edible rice bran oil can be reached according to customers requirements eghigh grade cooking oil and salad oil.

501335 388 C L C
TECHNOLOGY AND EQUIPMENT FOR
EXTRACTING VEGETABLE OILS Turnkey
project takes raw material (such as sunflower
seeds, cottonseeds, peanut, castor oil plant etc).
Treatment includes: raw material treatment and
raw material. Pre-processing for oil pressing,
oil refining and oil filling.

501389 396 C J G
ASPARTAME AS SWEETNER Aspartame
is new type of sweetner which is synthesised
from aspartic acid and phnenylalanine. This
product has been confirmed by JECFA as a new
sweetner of A(1) class with low calorie value
and high sweetness potency which is
approximately 200 times more than that of
refined sugar. It is a superb sweet additive
conductive to food, drink and cosmetics industry.

501491 26 C S C
VEGETABLE OILSEED PROCESSING
From the seed to salad, cooking oil, margarine.

Ref No. Org.No. Status Offer Source 501607 86 M J C PROTECTION OF CEREAL CROPS Doses, terms and methods of introduction of protection means of cereal crops. 2;4D-amine salt, dialen, baileton, vofatox and their tank mixtures in growing of summer hard wheat. Used for protection of hard wheat from diseases and pests. Increased economic effect due to decrease of preparation expenditure rate and yield increase.

501625 101 C L/J U TECHNIQUE OF PTC (POSITIVE TEMPERATURE COEFFICIENT) CERAMIC ELEMENTS By the combination of some advanced technoliues a series of BAT103 stables PTC ceramic elements with curie temperature ranging from 50 to 300 DC have been produced. The products have the features of quick heating, thermostatic, ballastic, safe and electricity saving. Besides PTC elements can also be used as motor starter, automatic switch alarm, demagnetising device in TV sets etc.

501629 106 P L/S G
LONG TERM STORAGE OF APPLES
Utilising protective films on the basis of surface
sective substances and antiseptic. Reduction of
losses and extension of the storage terms.

501638 106 P L/S/J G
SOLAR ENERGY CONVERSION
Concentrating devices for radiating seeds and
treating patients with pulsed concentrated sun
and neon light. For use in heat and power
supply, agriculture, medicine.

Ref .No. Org.No. Status Offer Source 299 502097 C LJ C A NEW TYPE OF SALT-DENDRITIC SALT Technology for producing a new type of salt dendritic salt which is superior to the regular refined salt in the following distinctive ways: higher capacity for absorbing moisture, low bulk density, rapid solubility, good blending properties with other finely divided materials, outstanding non-caking and flow properties. These features offer a variety of applications for dendritic salt, such as curing sausage casings, flavouring butter, dry curing bacon and ham.

502226 165 F/C L/S C
PAPAIN (IP) & PAPAIN CONCENTRATE
FROM PAPAYA Papain (IP) is widely used in
pharmaceutical industries for protein hydrolysate,
lacto peptone etc in the food industries for
clarification of juices, beer etc, textile industries.

601210 312 L/J REFINING NATURAL RED PIGMENT FROM CHILLI The red pigment is natural and is widely used in foods, medicines and cosmetics. The process using simple equipment and a flexible investment level produces no waste and is environmentally friendly. The price of the red pigment is about US\$ 150,000 per tonne. The initial investment required is US\$ 300,000. This biotechnology, including know-how, feasibility research report and relevant information, is available for a flat fee of US\$ 100,000. The company is ready to co-operate with clients in joint venture, co-operation, turnkey and other styles.

601328 381 C S P
SOYA NUTRITION PROJECT (which is carried out on a self-help basis) has shown that with soya beans it is possible to cover the demand for protein and energy at an affordable price. A booklet - 'How Can I Cook Soya Beans' is available.

Ref No. Org.No. Status Offer Source
601574 73 C L C
EQUIPMENT FOR THE SORTING,
GRADING AND PACKING OF DELICATE
FRUITS particularly deciduous and citrus.

601580 78 C L/J C
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.

601714 106 P L/S/J G
AGRICULTURAL ENERGY SAVING
PROCESSES for cultivating and harvesting
crops. Undercrust cultivator and energy saving
technology of snow fence by means of wide
catch units envisaging periodic cut of 7-10 rolls
of 50-60 m long stripes alternating with untreated
stripes at a proportion of 1:2 or 1:3.

601941 231 C L/J C
MANUFACTURE AND CANNING OF
SOBRASADA This company has created a
new technology for the manufacture of sobrasada
with emphasis on: the possibility to manufacture
in any part of the world; it allows the maturing
of the product in 15 days; it allows the canning
of the product; conservation in cans can be of
more than one year; all the above means a big
economical save in transportation and
refrigerators.

602006 25 F J C
PRODUCTION OF SUGAR SYRUP FROM
TAPIOCA AND SORGHUM Development
of processing conditions for the production of
sugar syrup from sorghum based on the extraction
and hydrolysis of sorghum starch. Improvement
of the raw material based for sugar syrup which
the traditional raw material for is corn.

602015 256 C J C
MANUFACTURE OF MOULDED
ARTICLES Setting up complete plant for

Ref. No. Org.No. Status Offer Source

ARTICLES Setting up complete plant for manufacture of stretch blow moulded articles in pet, polycarbonate materials, like soft drink and beverage bottles, jars, baby feeding bottles, edible oil bottles etc.

602092 92 LJ C R VITAL MESSAGE TEA The tea produced by this technique and craft has both the special taste of various species of tea-leaves and a soft taste as natural mineral water. It is light and delicious, quenching in thirst. The product contains beneficial elements to human body. The apparatus can produce daily 250 kg the tea, needs an investment of US\$ 3,000. To establish a factory producing daily 10 tonnes of the tea, needs an investment of US\$ 200,000 (including the pouring equipment). Packing is in 500 ml bottle. Selling at the price of US\$ 0.625, the production cost is US\$ 0.3 per bottle.

602110 309 C L/J C **ACTIVE DRY YEAST PRODUCTION The** active dry yeast produced by this technology contains various nutrition its fermentation ability is 900-1200. Its activity of enzyme keeps 9-10 months. The price is US\$ 5,000 per tonne. The investment needed to set up a factory of 200 tonne per month is US\$ 5 million. The company prepares to share the key to technology with the purchaser in passing on engineering information providing training and building the factory. The technology is available for a fee of US\$ 200,000.

602228 165 F/C L/S C
PROTEIN ISOLATE FROM GROUNDNUT
AND SOYBEANS Isolated protein with low fat
contents is superior to protein concentrates with
respect to colour flavour and taste. Protein
isolate can be used in the preparation of ready
mixes, hydrolysate, textured protein preparation
toning to milk, enriched bakery products.

Ref No. Org.No. Status Offer Source

701207 262

BISCUITS & BREAD. Turnkey projects in the field of biscuits, bread, confectionery and allied food products. Also offering technical assistance and consultation in the field of food, packaging and any small scale industry.

701252 165 F/C L/S C GARLIC POWDER is used as a condiment in food preparations and the use of garlic powder is well established in European countries and in USA.

701462 3 W/F S G
ANIMAL FODDER With specifications for different animals and ages. Fodders with high protein content are available. Produced as noodles of 12 or 6 mm diameters. Special additives can be added on request.

701538 58 C L C
CANE TRAILER Equipped with opening mechanisms. Capacity: 8 ton, dead weight: 5.7 ton, max speed: 50 km/hr, dimension: 3.2x9
31x2.43 m, No of wheels: 6, wheel diameter: 1.2 m, material of construction: alloy steel and carbons teels, use: transportation of cane, beat.

701550 58 C L C
BLACK LIQUID FILTER Capacity: 2000 L/
min, power: 105 kw, drum speed: 5 rpm,
operating weight: 2350 kg, dimension:
2.1x1.9x1.95 m, material of construction:
stainless steel, carbon steel.

Ref .No. Org.No. Status Offer Source 63 C 701562 IJ R CANS FOR FRESH PRESERVATION FOR BEER OR OTHER BEVERAGES technology for the production of cans which provide fresh preservation of the beverage. The product has 30-40 L volume of inner cans. The closed can consist of an inner can which is used to keep the beverage at the required temperature. A small steel bottle filled with dry ice is used as an additional cold resource. In China the production cost of one set is US\$ 45-55, selling US\$ 80.

701889 C L/J C
GELATINE Basic raw material for producing hard gellatine capsules. Used in the various projects for enhancing protein in food industry etc.

701621 97 C L C
NATURAL RED PIGMENT OF RED VINE
SPINACH This food additive is obtained from
the ripe fruits of red vine spinach (basella rubra
L) by physics methods. Its main ingredient is
beet glucoside. The product is a sort of dry
powder with a purple black colour. It has no
abnormal taste and can be dissolved in water
easily. The product can conform in the hygiene
standard of the state.

701630 106 P L/S/J G GROWING OF BERRIES currants and mechanisation of harvesting. Cultivation of blackcurrants. High productivity and adaptability to mechanised harvesting of berries. Effectivity of late autumn cultivation of soil to preclude water erosion.

701778 127 C S C
MANUFACTURE OF SEED DRILLS
pneumatic precision seed drills, fertilizers and
sprayers.

Ref No. Org.No. Status Offer Source 702024 133 C L G INDUSTRIAL STARCH PRODUCTION

702104 303 C IJ A SERIES OF LYOPHILIZED PRODUCTS Many of the biological materials (eg vegetables, the condiments, pharmaceutical materials and the edible fungi) are the articles difficult to transport and store because they contain a high percentage of water. This problem was solved by means of the lyophilizing technique. The lyophilized product can keep the original shape, colour, taste, smell and composition of the fresh item. An initial investment of US\$ 500,000 is required to set up a plant with a 100 tonne per annum capacity. This amount covers the cost of equipment and machninery, technical knowhow, fees etc.

702107 306 C L/J C A NEW TYPE OF NOODLES which have better taste, higher nutrition, easier to cook than the old type noodles. The production cost of the new noodle is 90% of the old type of noodles. The cost of the technology transfer: US\$ 110 thousand, offers composition, technology, personnel, training, design and installation of the factory. US\$ 70 thousand, offers composition, technology and personnel training. US\$ 4.5 thousand, offers composition and the technology.

801001 37 F J R
NATURAL COCONUT JUICE A processing method to produce a drinking product of natural coconut juice in good colour, better and sweeter taste with fresh pulp of the coconut as raw material. The coconut juice drink made with this method is an ideal nutritious drink.

Ref. No. Org.No. Status Offer Source

801056 396 C J C
CONCENTRATED SOYBEAN
PHOSPHOLIPID the technique is process for
soybean oil foods. The production could be used
for emulsifier in food, medicine, light and
textile industries.

801169 12
TROPICAL BEE-KEEPING Information to all who need it.

801187 106 P L/S/J G PRODUCTION OF APPLES Plant growing. Reduces pre-yield period of apple trees and increases harvest.

801249 165 F/C L/S C
ANNATTO DYE finds its use in the dairy industry for the colouring of butter, cheese an margarine. It is also used in ice-creams, bakery products and edible oils.

801314 376 F J C
ORGANIC GEOTEXTILE has been developed to promote growth and stability on steep slopes indeed those areas which could be affected by erosion and has the ability to enhance water filtration while protecting precious top soils.

801559 60 C L/J C
NUTRITIOUS DAIRY SNACK A small
vitaminised cake, prepared from de-fat powdered
milk, cane sugar, glucose and various vitamins.
This piece form snack food is nutrimental and
convenient to eat. The transfer fee would be US\$
25,000. The transfer items include technical
know-how, feasibility study and engineering
design.

Ref No. Org.No. Status Offer Source 801565 65 F/C S C EQUIPMENT MANUFACTURERS FOR FRUIT AND VEGETABLE PROCESSING consists of 14 members who manufacture machines for: grading and packaging of fresh fruit and vegetables, processing of fruit, vegetables and roots for juice, canning, freezing and dehydrating.

801617 93 C 1/1 R A TECHNOLOGY FOR PREVENTING AND CURING DISEASES OF WILD RICE STEMS The wild rice stem, an aquatic vegetable, is a special product of China. Wuxi wild rice stem is famous for its good quality, high output in the whole country. During the last years, because of serious flax tache, the output and quality of the wild rice stem have been somewhat decreased. Having researched for many years, the Research Institute has mastered the synthetical technology to prevent and cure this disease.

801635 106 W L/S/J G
HELIO DRIERS Technology and means for drying vegetables and fruits using solar energy.
Single line conveyor for helio driers with reversive operation, data for installation of the elements of helio driers, programmed process for helio drying with discrete ventilation.

801648 106 M L/S/J G
FISH PRODUCTS Enlarging the assortment of culinary items on the basis of fish stuffing. Changes in the recipe of sausage stuffing, production of fish loaf wrapped in impregnated paper.

CATEGORY 6: FOOD PROCESSING

Ref .No. Org.No. Status Offer Source

OFFERS

801671 106 C L/S/J G CONTINUOUS MACHINE TREATMENT OF SHEEP Processes of zoo-veterinary treatment of sheep with the use of mechanisation means in the following sequence: separation of lambs, grading, veterinary treatment, hair trimming, fleece shearing, antiscabby bathing, formation of flock.

801680 106 W L/S/J G CONSERVED FOOD FOR SEA MAMMALS Recipes and technology of preparing formed sublimated food for sea mammals. Food for sea animals in emergency cases. Possibility of long term storage in non controlled medium.

802019 258 W L G
PRODUCTION OF CRYSTALLINE SUGAR
The equipment consists of a crusher, settling/
clarification tank, crystalliser, centrifuge, boiling
pan and dryer. The set can be run both on electric
power and by diesel engines.

802223 165 F/C L/S C ACIDO WHEY Whey is a liquiduous product separated from the solids in the process of preparation of cheese.

802284 251 C L/J C PRODUCTION OF CANDY AND PASTILLES We produce powder, liquid filling machines, labelling machines, bottle washing machines. Main use: food and medicine industry. Main advantages: quick and economical manufacturing, quality and service are also guaranteed.

Ref No. Org.No. Status Offer Source 901334 387 F C **CULTURE** TECHNOLOGY **FOR** MULBERRY FIELDS in beach with 100, 150, 200 kg cocoon output per mu (0.67 HA), suitable for popularisation in beach and mountainous area and are referred to sericultural area in plain. This culture technology is composed of 5 parts, that is, condition of mulberry plantation, mass structures of mulberry field, rational manuring technology and mulberry harvest and protection technology, containing 34 technologies, 381 technological datum and necessary silkworm rearing technology and equipment that ensure output in mulberry field per mu.

901388 396 C J G
TWO GENERATION HIGH FRUCTOSE
SYRUP MADE DIRECTLY FROM CORN
BY DRY MILLING METHOD The production
is divided into two parts: part one is to use corn
direct milling to prepare the first generation
glucose syrup; part two is to produce the second
generation high frucose syrup through
crystallisation and separation using the first
generation glucose as raw materials.

901653 106 C L/S/J G
INTENSIVE CULTIVATION OF WINTER
WHEAT on irrigation in arid zones. Growing
of winter wheats, high quality main and pre-sow
cultivation of soil, more rational arrangement of
plants along the field, fractional fertilisation
with nitrogen fertiliser in calculated norms in
combination with retardants, use of integrated
system of fighting weeds, pests, diseases,
utilisation of special technological set of
machines.

901708 106 P L/S/J G
HIGHLY EFFECTIVE ANIMAL FOOD
mixes and combined fodder. Recipes of food
mixes and combination fodder for sheep of
various ages and sex.

Status Offer Source

Ref. No. Org.No. 901734 106 M L/S/J RAISING RAINBOW TROUT Full process and normative base of mother flock, incubation of fish egg. Low wastes at all stages, large amount of growing material.

901780 F S/J R/P 129 CASHEW APPLE/NELLIKKAI - FOOD BEVERAGE A process is developed for extraction of the juice, clarifying, filtering, flavouring and bottling the final product as aerated ready to serve drinks or syrup by addition of sugar, jaggery etc. The equipment will cost 45 lakhs of rupees for a small viable unit. The product is highly nutritious and is of high medicinal value. Alternatively cashew apple juice can be fermented into tasty wine.

901800 139 W J U **AUTOMATIC IRRIGATION SYSTEM It** can operate up to 16 outputs (solenoid valves). Low cost system with sensors and without humidity sensors.

901964 232 C C MANUFACTURING TINY OIL MILL MACHINERY consists of expeller, filter press, boiler, decorticator etc. All the machinery can be manufactured in a mechanical workshop. Scope for thousands of Tiny Oil Mills in every country. Provides edible oil to 5000 people. Simplest but most modern technology. Runs on 10 HP diesel engine/motor. 425 mills working in 13 countries.

902023 C S G CEREAL GRAINS MANUFACTURING **PLANT**

Ref No. Org.No. Status Offer Source 902059 283 U S MICROBIAL BETA-GALACTOSIDASA Enzyme for lactose gydrelysis in milk and milk products. Enzyme can be used in dairy confectionery, baking industry and for producing dietary low lactose containing products.

902095 297 C LJ R SOYBEAN PHOSPOLIPID REFINING TECHNIQUE by setting up a production workshop with a daily processing capacity of 3 tons hydrate of oil dregs, 15 tonnes of refining soybean phopholipid product can be produced each month. To produce 15 tonnes of refined soybean phospholipid per month needs an investment of US\$ 3 million for setting up the factory and US\$ 500,000 of circulating capacital. Turnkey services would be provided and knowhow may be shared with clients. Personnel training and factory building are also provided. The know-how, including feasibility research report and engineering design is available.

902225 165 F/C L/S C FRUIT BARS are prepared from pulpy fruits such as mango, banana, guava and papaya which are abundantly available in the country.

902259 346 M L/J G TRANSFORMATION AND OF CONSERVATION LOCAL VEGETABLES Green leafy vegetables including C Olitoriu and S nigrum, Amaranthus Gnetum, Veronia and cassava leaves have been processed into dried forms, as well an okra and hor pepper. Tomatoes and onions have been processed into flours. Their shelf life has improved several fold.

CATEGORY 6: FOOD PROCESSING

Ref .No. Org.No. Status Offer Source

OFFERS

902261 346 M L/J 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' porriges, fritters and biscuits have been
made from these flours. The flours obtained are
of good quality with an energy content
comparable to that of cereals.

902270 152 L G
TECHNOLOGY OF INSTANT ERSATZ
CORN Method of producing (instant com coffee)
using vegetables of high (carbohydrate) contents
applying such procedures as (roasting)
(extraction) (extract processing) and (spray
drying).

Ref No. Org.No. Status Offer Source Dehydrated Vegetables Fish Processing **Garlic Processing Ginger Processing** Instant Noodle Making Plant Mushroom Processing Salt Refining Soya Sauce Brewing Plant Ice Cream Making Plant Egg Trays of Different Sizes Milk Pouch (bag) Plastic Bottle Caps Plastic Bottles Cardboard Boxes Tin Containers (up to 18.5 litres)

The following Project Profiles are available from The National Small Industries Corporation Ltd (NSIC). For more details see the section entitled NSIC Project Profiles at the back of this catalogue.

Bread Cutter (stainless steel)
Cigarette Lighters
Dairy Cans
Meat & Food Safes (metallic)
Metallic Watch Straps (stainless steel)
Rice & Dal Mill Machinery Manufacturing
Banana Processing
Bread & Biscuit Plant
Candy Making
Canning of Meat & Allied Products
Canning of Potatoes
Cashew Nut Shell Liquid (CNSL) Oil
Cheese Making Unit
De-hydration of Fruits & Vegetables

Ref. No. Org.No. Status Offer Source
1309 285 C L C
TEXTILE FINISHING and processing chemicals.

1584 80 J C
PRODUCING SPRAY DRIED
PRECIPITATED SILICA in powder, granule
and pellet form and of varying the physical and
chemical properties as per customer
specifications.

1823 151
TABLETING CAPSULATING AND INTRAVENOUS INFUSIONS In tableting, we would be in need of powdered form. As regards capsules, machinery and raw materials are equally requested. For pharmaceutical use.

1840 166 C L/J C
MEDICAL AND HEALTHCARE
PRODUCTS FROM PLANTS AND ROOTS
Technology, plant and equipment to process
locally available plants and roots and the
production of medical and healthcare products.
Plant to be capable of carrying out different
operations ie grinding, separation, sterilisation
and packaging.

1856 174 C L/J C CEMENT PRODUCTION Minicement, lime and lime mortar production plant (150 or 300 tonnes per day cement).

1859 174 C L/J C
MANUFACTURE OF CEMENT-ORGANIC
PANELS (cement bonded particle board from agricultural residues, forest waste and binding agent).

1873 182 C/F S C
PRODUCTION OF VINYL CHLORIDE
which is a basic raw material for the manufacture
of PVC (poly vinyl chloride).

Ref No. Org.No. Status Offer Source

1874 182 C/F S C

AMMONIUM PHOSPHATE FERTILIZER

production. Both methods of production, ie wet

process and dry process to be considered.

Ammonia and phosphoric acid which are the
main raw materials are manufactured locally.

1875 182 C/F S C
PRODUCTION OF SYNTHETIC RUBBERS
The main types manufactured being polybutadiene, polystyrene butadiene and nitrile rubber. Preferably fabrication of the production equipment to be done in Zimbabwe.

2036 28 C L P
MANUFACTURE OF PARADICHLORO
BENZENE as insecticide, deoderants made of paradichlobenzene, automatic toilet bowl cleaner, napthalene as insecticide, conimerce of ortho di chlorobenzene, methyl napthalene beta methyl naphthalene.

101172 28 C L/J P PRODUCTION OF SOYBEAN PRODUCTS Technical know-how, plant and machinery.

101302 165 C L C COPY MACHINE TONER

101311 374 C S C
PLATE HEAT EXCHANGER Design and supply of drawings along with the supply of plates of different sizes so that the heat exchanger may be manufactured/assembled in India.

101336 384 F J P
HIGH ALUMINA REFRACTORY for industrial application up to 900 degrees C such as mullite and recrystallised alumina tubes, element holding bricks and tubes, muffles round and rectangular insulating beads 1, 2 and 4 holes, alumina guides, bobbins and products for specific applications.

101826 158 C C J **EXTRACTION OF ESSENTIAL OILS for**

Ref .No. Org.No. Status Offer Source

use in fragrance industry. Infrastructure available. Joint venture partner is required.

101832 164 INDUSTRIAL STARCH Plant and process know-how to produce industrial starch.

C \mathbf{C} 101837 166 ESSENTIAL AND VOLATILE OILS distilling and refining (oils obtained from various plants and are used in production of soap, perfume, foodstuffs and several other products).

166 101838 C IJ DIESEL FUEL Biochemical process for the production of diesel fuel from methano! and soya bean oil.

101841 166 IJ C AND SUGAR-BASED SUGAR PETROCHEMICALS AND POLYMERS Process, plant and equipment to produce 82 million litres per annum ethanol from sugar juice and 49 000 tonnes per annum raw sugar. Price quotation required for whole plant from cane handling to products handling. Price to include bagasse handling and effluent treatment plant.

101847 169 C LJ C **ACTIVATED CARBON PROJECT Process** for the production of activated carbon for gold purification from coal or coconut or any carbonaceous raw material. Plant capacity is 2 000 tonnes per annum. Price quotation required for whole plant from raw materials handling to product handling.

Org.No. Status Offer Source Ref No. 101848 169 C LJ C **CAUSTIC SODA USING LIME PROJECT** Commercialised process for the production of caustic soda from soda ash and lime. Capacity of plant is 180 000 tonnes per annum. Price quotation for whole plant from raw materials handling and treatment to product handling and storage.

169 C LJ 101849 HYDROGEN PEROXIDE Process, plant and equipment for the production of hydrogen peroxide. The peroxide is to be used in paper, textile, etc industries.

101853 172 C LJ MANUFACTURE OF MINERAL WOOL from rock and glass fibre (this is used extensively in the building, automotive and other industries for thermo-acoustic insulation).

101871 182 C C/F MANUFACTURE OF CHLORINE GAS Offer to include various methods of manufacture. Latest technology in this field will be acceptable because of low production cost.

182 C/F 101872 PRODUCTION OF PVC (poly vinyl chloride) also prepared to consider an offer of a secondhand plant.

182 C/F S 101876 MANUFACTURING BUTADIENE from either butane or ethanol. Ethanol is a product of Hipp & Valley Estates. Butadiene is one of the basic raw materials in the manufacture of synthetic rubber.

Ref. No. Org.No. Status Offer Source 101891 196 W J C PHARMACEUTICAL MANUFACTURE Secondary pharmaceutical manufacture seeks joint venture partners with know-how, technical, managerial and financial assistance in construction of plant and manufacture of bulk drugs such as ampicillin, amoxycillin cephalosporins and trimethoprim.

101894 199 W L/J
DECORATIVE LAMINATES Technology
and equipment to manufacture formica sheets,
including paper impregnation, impregnating
resins, melamine surfacing.

101981 246 J C
PHARMACEUTICALS We are looking for an industrial joint venture project in India starting with seed marketing and its production in the 2nd phase in the areas of pharmaceuticals, agrobiotechnology, chemicals etc. We are also interested in setting up export oriented projects in the areas of food processing, textiles and other products of interest.

102281 154 C L/J C
N542 SILICON DIOXIDE FROM RICE
HUSKS A method of producing pure silicon
dioxide from impure raw materials, including
rice husks has been devised.

201470 9 W L C
TITANIUM - MICA LUSTROUS PEARL
(NACREOUS) PIGMENTS Technology
required to coat titanium dioxide on mica particles
to produce above pigments in various colours
using titanium chloride/titanium hydroxide
sludge as raw materials with an initial capacity
of 100 kg/8 hrs/day.

201495 28 C J P
METHOD TO MANUFACTURE
SYNTHETIC PYRETHROIDS Plant
machinery, technical know-how.

Ref No. Org.No. Status Offer Source 201971 238 U/F/C L/J C/P FOOD PROCESSING Dairy, spices, beverage.

301193 182 C/F S C
PRODUCTION OF ACETYLENE GAS from
calcium carbide and water. Quality of gas
produced to be of pharmaceutical grade ie to
exclude impurities such as hydrogen sulphides,
phosphanes, ammonia etc. Preferably the process
to be a wet process.

301202 235 C J C CALCIUM SILICON ALLOY (Ca-30-35%, Si 60-65%) in lump and powder form. The alloy is used for deoxidation and inclusion modification in steel manufacturing process. Manufacturing technology for production of approximately 2000 MT/yr.

301925 218 C
UNSATURATED POLYESTER RESIN gelcoat, FRP pigments. Unsaturated polyester resin, gelcoats and unsaturated polyester resin, gelcoats and colour pigment for fibreglass reinforced plastic moulding. For storage tank, sheets, pipes, boats, domes canopy, planters, water treatment plant.

302276 153 F C
BRINE ELECTROLYSIS PLANT Equipment for the production of sodium hypochloride from sodium chloride (salt) of 10% solution. Output of 3500 litres/day. The equipment shall be of a modular construction permitting expansion. The package shall also include filling machine in 1 litre plastic bottles.

401256 369 C L/J
POLYMERISATION OF ACRYLIC ACID
Acrylic acid copolymers for scale/deposit
inhibitors in boilers and water cooling systems
to prevent the precipitation of zinc in the cooling
system.

Ref .No. Org.No. Status Offer Source 401306 165 C L C POLYMIDE 66

401308 285 C L C
BASIC INDUSTRIAL CHEMICALS like
Yellow Phosphorus, Potassium Chlorate for
match industry.

402061 286

DISTILLATION OF COAL TAR required for the production of pitch and industrial oils such as resins. Know-how, training and techno-economic data requested for a commercialised process.

501310 285 C L C INTEGRATED PEST MANAGEMENT

601768 117 J C
SILICAT ZIRCON TECHNOLOGY Joint venture sought for the manufacture of silicat zircon. A feasibility study has been prepared for the expansion/modernisation of the existing project. It is used in the glaze industry, frit industry, zircon fire-brick. Local investment capacity: US\$ 200.000.

601786 130 C J C
FORMULATION PLANT for synthetic pyrethroids.

601967 236 C J C
WATER IN OIL EMULISIFICATION FOR
OIL CONSERVATION AND POLLUTION
CONTROL Technology to make oil/water
emulsion to save 3-8% of heavy fuel oil in
boilers/furnaces and to control pollution. Process
involves a special emulsification machine and
chemical catalyst, making off line, permanent
emulsion.

Ref No. Org.No. Status Offer Source
602038 269 L C
MANUFACTURE OF ACRYLAMIDES
AND POLYACRYLAMIDES Process to
manufacture acrylamides and polyacrylamide.
Consultant for vanadium based catalysts
manufacture.

602060 285 P/F/C L/S/J C
PETROCHEMICALS AND INSECTICIDE
AND PESTICIDES Interested mainly in acquiring technology for the process chemical industry including heavy and fine chemicals, electrochemicals.

602264 344
MANUFACTURE OF GRAPE GUARD
PAPER and biotechnology products in the field
of agriculture, Veterinary and fisheries.

602282 154
BIOTECHNOLOGY BASED PRODUCTS
such as citric acid, alcohol from corn syrup,
high fructose syrup from sugar cane, itaconic
acid, xanthan gum etc.

701496 28 C L/J P
TECHNICAL GRADE PESTICIDES
Technical know-how to manufacture carbofuran, dichlorves, propoxur, penthion, methyl parathion, fenitrothion, dicofol, diuron, butachlor, alpha napthyl acetic acid (ANA), monocrotophos, oxy dementon methyl, fenvalerate, cypermethrin, alachlorgibberelic acid, aldrin. All technical grade pesticides.

701975 242 P J C
FOOD PROCESSING Vegetables, fruits fresh or preserved with process of dehydration,
freezing or drying etc.

702055 279 F S C
FACTORY FOR PRODUCTION OF
FILTERS for engine oil and gasoil

Ref. No. Org.No. Status Offer Source

Ref No. Org.No. Status Offer Source

801494 28 C L/J P
METHOD TO MANUFACTURE
ALLETHRIN Development of processing
conditions, plant and machinery, raw material,
technical know-how. Installed capacity 1000
MT/annum.

C S C 801787 13i LIQUID PESTICIDE FORMULATION PLANT We can give technical know-how on turnkey basis for pesticide formulation plant, liquids, wetting powders, granules and dusting powders, NPK granulated fertilizer plant, zinc phosphite plant and technical grade pesticides. Monocrotophos, DDVP, phosphamidon, phorate, cypermethrin, fenvalerate, quinalphos, chlorpyriphos, dimethoate, 2,4-D sodium salt. Used for plant protection, municipality and household purpose.

901195 218 C
FIBREGLASS SHEET MOULDING
COMPOUND (SMC) Bulk moulding
compound (BMC), sheeting moulding compound
and bulk moulding compound. Technique to
manufacture two side finished panel, sandwiched
structure. For insulation, switchgears, boxes,
covers, parts for automobile, door frame.

901307 285 C L C LEATHER TANNING CHEMICALS

901937 135 C L/S G
PLASTIC INTRA-VENOUS BAG
Development and production of a plastic bag, with a cap, for the packaging of intra-venous medical preparation in 500 ml units.

902032 263 C L/J BULK DRUGS AND CHEMICALS with export potential.

Ref. No. Org. No. Status Offer Source 1203 241 J P MANUFACTURE OF HOSES 1. Technology to manufacture hydraulic high pressure hoses to SAE J157 June '81 standard and hydraulic hose fittings to SAE J516 Mar '81 standard. 2. Technology to manufacture stainless steel flexible bellow type hoses and hose end fittings. 3. Technology to manufacture PTFE (Teflon) hoses and hose assemblies.

1813 145
STEEL SHEET GALVANISATION Steel surface protection with zinc metal as provision against corrosion for roofing sheets and packaging industries. Piece rate galvanising, coil to coil galvanising.

1825 157 C J C
LEATHER PROCESSING Equipment/plant to process leather into 1.2 million sq ft wet blue leather for export and 0.4 sq ft finished leather for the local market per annum.

1839 166 C L/J C
MANUFACTUREOF COTTON YARN AND
FABRIC State of the art technology and plant
and equipment to manufacture high quality
cotton yarn and fabric for export. Plant to be
capable of handling production of lace.

1845 168 C L/J C
SPRING PRODUCTION Manufacture of small and large coil springs for applications in motor vehicles, agricultural machinery and throughout industry.

1857 174 C L/J C LIGHTWEIGHT CELLULAR CONCRETE Manufacture of blocks and panels used in the building industry for both outside walls and partitions.

Ref No. Org.No. Status Offer Source

1858 174 C L/J C

MANUFACTURE OF SAND-LIME BRICKS
used as structural or non load bearing material.

1865 178 C L C
ROAD TRANSPORT DESIGN Method and design details of all road transport trailers etc and fuel road tankers - updated technology for trailer design and materials involved.

1870 181 C S C

JEWELLERS WORKSHOP requisites.

Casting equipment. Tools and accessories.

1878 183 C J C
EXHAUST MANUFACTURE Development
of a non-manual exhaust manufacturing process
which is not labour intensive but requiring
reasonable capital investments - versatile pipe
bending procedures for exhaust modification.

1879 184 P S C
TOOL DESIGN AND MANUFACTURE
Able to design tools, including moulding tools, from initial design concept through to finished product. Fully qualified design teams and toolmakers ensure optimum product and delivery performance.

1954 231 C LJ PRODUCTS IN THE TEXTILE FIELD This dynamic company wants to diversify its activities in the textile field: Treatment and commercialisation of new materials for the garment sector (microfibre); Commercialisation of chemical products related to textile sector (additives, stain remover) especially ecologically advantageous products; Commercialisation of new products, systems and technologies within the garment field; Collaboration agreements to widen its present range of technologies to offer best service to its clients (printing); Subcontracting agreement to dye and finish garment fabrics.

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Ref.No. Org.No. Statu Offer Source 1973 239 F L/J C MANUFACTURING OF PRECAST CONCRETE PRODUCTS Pipes, poles, prefab building elements.

2045 272 COTTON LINTER PULP PLANT 3000 t/yr (RM - raw cotton linters).

2063 286
NI/CR CAST IRON Know-how requested in the field of heat treatment of chromium and nickel chromium alloy cast iron.

2081 291 C L C
FINAL PROCESSING OF GEAR-WHEELS
produce small lots of medium size gear-wheels
for the motor reducers for fork-lift trucks.
Modern technology sought.

101257 366 C J
CNC MACHINES/GENERAL-VARIOUS
DIFFERENT PARTS OF MACHINES A
factory with more than 90 machines, we
manufacture air chambers, palm couplings,
several kinds of valves and various spare parts
for commercial vehicles/buses/trucks etc. We
need to use the latest technology for our
manufacturing department to improve the overall
efficiency.

101811 144
OPEN MINING MACHINERY Bulldozers, excavators, water pumping machines, compressors.

101822 150
FLOAT GLASS PRODUCTION For building automobile and allied industries for patterned, bronze and safety glass production.

Ref No. Org.No. Status Offer Source 101831 163 U J C MILL EQUIPMENT INSTALLATION (LARGE SCALE) Fabrication of stainless steel tanks and vessels boilers, steam and product pipework. Silo installation and general machine installation.

101836 166 C L/J C
MANUFACTURE OF RIGID BUILDING
PANELS with a wide range of applications (ie
pre-fabricated housing, schools, clinics,
furniture, roofing, factory linings etc). Basic
raw materials should be straw/stalks of wheat,
maize etc or wild grass (70% value), recycled
paper liner (20%) and (UF resin 10%).

101842 167 C L/J C SPECIAL STEELS PROJECT Process, plant and equipment required for production of special steels to include 316, 304 and 430 stainless steels and carbon steels. Plant to produce 90 000 tonnes of steel per annum.

101843 167 C L/J C
MOULDING AND FORGE PROJECT
Forging equipment to produce railway axles, high alloy billets, heavy and engineering spares, automotive spares, dies for plastic and rubber industries. Moulding machinery capable of producing various moulds to handle 131 tonnes of molten metal per day.

101844 167 C L/J C
SHEETING PRODUCTION Manufacture of standard corrugated or trapezoidal sheeting used for roofing and building walls (production semi-automatically controlled).

101846 168 C L/J C VEHICLE COMPONENT PRODUCTION Flexible manufacturing of vehicle components and parts/production of various/several components and parts in one manufacturing plant.

Ref.No. Org.No. Status Offer Source
101854 172 C L/J C
MANUFACTURE OF GLASS MOSAIC
TILES for interior and exterior applications in
the building industry where decorative and
protective finish are required.

101855 173 C L/J C PROCESSING OF BLACK GRANITE to produce tiles, slabs, tombstones and other building and construction materials.

101866 179 F C U
METHOD OF BONDING ALUMINIUM heat transfer plate to the base of stainless steel houseware (pans) using molten aluminium.

101892 197 C L/J C ENERGY CONSERVATION systems/devices, setting up of a model energy service company.

101893 198

PRODUCTION OF BUILDING

MATERIALS The process will have to make use of industrial waste, especially cellulose production waste - saw-dust, tree barks etc. For production of building and landscaping elements.

Utilisation of cellulose production waste.

PRODUCTS FOR THE PETROCHEMICAL INDUSTRY Company are searching for new technologies to harden austenitic stainless steel (of 316 degrees) and any other materials which could be substituted for the stainless steel with better performance. They also want to profit from their commercial network, and they would like to manufacture and/or commercialise new products or systems within instrument installations in the chemical and petrochemical industry (valves, adapters, filters, joints).

Ref No. Org.No. Status Offer Source

102236 207 C J

PAINT AND VARNISH Required process: to produce paint and varnish - an integrated factory.

Proposed standard capacity: 5000 tons/year.

102247 355 C J
TRANSPORTATION FOR CKD IMPORT
of washing machines, dishwashers, refrigerators
and their transportation in Kenya.

201329 382 C L C
AIR BUBBLE POLYTHENE SHEETS
MANUFACTURE Know-how, details,
requested by polythene sheet and bag
manufacturer.

202062 286

ROUGH CASTINGS Joint venture partner sought for production of up to 8,000 T per annum for domestic use. Co-operation sought for: equity participation, technical know-how and expertise and equipment supply.

202080 291 C L C
AUTOMATIC WELDING of low and medium carbon steels to improve safety.

301322 378 C J C
SMALL PAPER MAKING PLANT using recycled paper and rice straw or sugar cane waste as raw material.

301475 14 F L C
MOBILE BRICK PLANT Hydraulic and automatic, mounted on wheels and towed away to construction site to produce soil-cement bricks of compressive strength over 80 kg/sq cm. Four unskilled workers can operate and run plant to produce 2400 bricks in 8 hours. Compaction pressure 15 tonne/sq cm and 30 tonne/sq cm depending upon material being pressed. Power source either diesel engine or electric motor mounted self contained.

Ref .No. Org.No. Status Offer Source

301774 122

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LOST FOAM PROCESS Production of polyurethane models of the parts to be cast. Complete equipment will be installed to the foundry. Moulding equipment is also included. For moulding of cast pieces of automotive industry.

302044 272 METHYL AND HYDROXY ETHYL/ PROPYL CELLULOSE 3000 t/year.

302231 366 C J

AIR BRAKE EQUIPMENT High quality/ sufficient delivery/just in time manufacturing department has to be ready for all requests and all orders. Production level required: at least 70,000 pcs in a year has to be manufactured at our factory in Turkey.

302240 361 C J
SUPPLYING NEW AND MODERN
MACHINES AND EQUIPMENT The above
mentioned equipment and machines will be for
the production of metallised polypropylene
capacitors. They are used to increase production
capacity and by way of this decrease the cost.

302285 363 C L/J
SPLIT AIR CONDITIONERS Main components should include compressor, control unit, outdoor unit propeller fan, sirocco fan assembly procured from abroad, local production of certain parts, local assembling all parts. Gas charge locally.

Ref No. Org.No. Status Offer Source 401005 117 J C WRAPPING GLASS TECHNOLOGY Joint venture sought for the manufacture of wrapping glass. A feasibility study has been prepared for the expansion/modernisation of the existing project. This factory has a production capacity of 8000T/year. The products are exported to Russia, Germany, Rumania, Bulgaria. Product: soft drinking bottle, wine bottle, mineral water bottle. Planned capacity/output: 8000T/year. Local investment capacity: US\$ 1,000,000.

401208 273 U L
METAL AND SHEET FABRICATION for wire and steel products and for small machined for sheet work.

401298 165 C L C
POWDER COATING COMPOUND

401315 377 C L/J C CIGARETTE MANUFACTURE complex plant for manufacture and packaging.

401317 377 C L/J C PLANT FOR TIN COATING

501013 280 C L/J
MANUFACTURE OF AUTOMATIVE
ALUMINIUM DIECAST PRODUCTS Cost
= 15 million US\$, foreign part to be financed.
35 million Z\$ including land and buildings produced by local sources. Export possibilities more or less received.

Ref .No. Org.No. Status Offer Source

C 501958 231 L/J TOOLS AND MACHINE ACCESSORIES that are sold to painters and powder paints to cover plastics which have added value, such as airless system painting machines, compressors, air and aerographic pistols, auxiliary paint tanks, electric agitators, glass paper polishers, drip sponges etc. Tools for painters, large and small brushes, spatulas etc. Paint to cover plastics. Powder paints. Paints with added value (flame retardant, anti-damp etc). New developments within the paint sector for the protection of wood, restoration of buildings etc.

501968 236 C L/J C/F/G ENERGY CONSERVATION Any relevant technology in the field of energy which will be suitable to a country like India.

502043 271 C L/J

Application of modern control systems to process plants and discrete manufacturing operations. Design develop sophisticated control schemes for industrial applications. Engineering polymers application. Fired heater design.

502065 286

CAST IRON Know-how requested in production technology for FGS-60-90 cast iron.

502079 291 C L C
HYDRAULIC CYLINDERS - PISTON AND
PLUNGER manufacture for fork-lift trucks.

Ref No. Org.No. Status Offer Source 601201 231 C L/J

PAINTS AND COATINGS This company wants to begin an expansion of its present range of products with new kinds of paints and coatings especially: With different compositions: water based, powder coatings, natural solvents and raw materials (without environmental problems), paints with high solids content. With special performances: fire-resistant paint, fire retardant paints, rustproofing paint, paints with special effects (antigraffiti, insecticide, ultraviolet). To coat steel and plastic (especially polyethylene, polypropylene and new plastics).

601337 390 U L/S C
10 TPD SODA ASH PLANT grass root technology.

601949 C L/J C 231 PRODUCTS AND COVERINGS FOR **DECORATION** New and innovative panels for both interior and exterior decoration (imitation, stone, bricks, paper, plastic). New applications based on plastic materials (resins, polyester) for decoration (such as columns, false fire screens or other materials). Decorative systems made with cement-fibre (artificial stones, fountains). Innovative decorative products. Systems that approach old decorative problems with innovative solutions (lights without wires, new locking systems).

602047 272 MICRO CRYSTALLINE CELLULOSE POWDER 3000 t/year.

602051 277 P J C
EXTRUDED BRASS, BRONZE AND
COPPER RODS, sections etc. Copper and
brass sheet production. Joint venture to be tied
up with international marketing.

Ref .No. Org.No. Status Offer Source 602244 358 C J MACHINE PRODUCE CNC rectifying machine.

701330 383 J C
HOTEL INDUSTRY, HOSPITAL AND
MEDICAL EQUIPMENT Public Limited
Company interested in diversification in the
hotel industry and hospital and medical equipment
and medical requirements industry. Any
technology relating to the above or suitable for
South India can be considered.

701471 10 F/C L/S/J C/P MANUFACTURERS OF RUBBER AND PLASTIC PARTS AND COMPONENTS

701957 231 C LJ TECHNICAL FABRICS for geological safety. health, agriculture, construction etc. Fabrics with detailed technical characteristics: flame retardant, fireproof, thermal textiles, highresistance against physical exertion, resistant to chemical attack. Sanitary fabrics such as bights, bedspreads, plastic and antibacterial mattress covers, shaggy fabrics for geriatric use etc. Fabrics for agriculture such as hailstorm protectors, for silos, for water storage systems etc. Geological fabrics such as those for consolidation: of bankings, of the subsoil, for sub-acuatic work.

701966 234 U L/J C
BUS/TRUCK TYRE MANUFACTURING
PLANT in the Chittagong export processing
zone, Bangladesh, under joint venture with
foreign private investment, with the transfer of
the newest technology from a multinational tyre
manufacturer. Multinational tyre manufacturers
are requested to send their complete offer with
process manuals etc.

Ref No. Org.No. Status Offer Source
702010 254 L/S/J P
SPINDLES - MOTORS 1. High frequency
motorised grinding spindles + milling + boring
spindles. 2. Stepper motors and FHP permanent
magnet DC motors (ie less than 1 km rating).

702275 153 U C
NAIL MANUFACTURING PLANT End
products: roofing nails sizes (2.5 x 60 · 3.1 x 8
od mm 200 tons/year, ordinary nails (1.6 x 30
- 2.2 x 50 (mm x 100 tons/year, ordinary nails
(2.5 x 60 - 3.8 x 1000) mm - 200 tons/year.
Equipment for wire drawing, descaling, nail
making, head forming, polishing and metalising
are sought.

801258 206 C
PRODUCTION AND QUALITY CONTROL
of high strength nodular iron crank shafts used
in automotive industry. Tensile strength 900 N/
mm sq and minimum elongation 5%.

801305 165 C L C CNC LATHE

801902 204

EXTRUSION PLANT 1) aluminium profile extrusion plant complete with anodising or oxidation unit with melting furnace right up to finishing and packing stage. 2) raw material for aluminium longspan roofing sheets aluminium profile for doors and windows. As a result of the great demand on our product our stock of material exhaust is less than in time. And as one of the biggest industrial set up in the North, it is desirous we establish an extrusion plant.

Ref No.

Ref.No. Org.No. Status Offer Source 801974 240 F L/J C ELECTRONIC PRODUCTS in the following areas: 1) Telecommunication and data communication test equipment. 2) Medical electronic products. 3) Child development aids/interactive teaching aids. We would like to work in a joint venture or under licence or even with a design and drawings transfer. We are open for any arrangement.

802037 268 C J C
POLYPROPYLENE ROPES Required knowhow for establishing project for PP/HDPE ropes
in India for 3 strand (hawser laid) and 8 strand
(braided) ropes - EOU. With overseas partner
with/without financial participation. Marketing
tie up and imports of equipment only where
necessary, marketing tie up compulsory. Also
know-how for metallic dyes wanted.

802046 272 CELLULOSE POWDER FOR PLASTICS other industries - 6000 t/year.

802064 286
CASTINGS Know-how sought for meehanite cast iron production technology.

901316 377 C L/J C GALVANISED COLD-ROLLED (CR AND HOT-ROLLED (HR) COILS galvanising being by electrolytic process.

MATERIALS FOR PETROL PIPES in the automobile sector. New rubber (caoutchouc) formulations, especially the ones applicable to petrol pipes. New materials (technical plastics, synthetic elastomers) and solutions (cloth to reinforce pipes) in order to improve the benefits of the petrol pipes. Adapters and quick connectors to facilitate the assembly of the pipes within the car (which can substitute the clamps presently used). New systems related to the fluid conduction (water, air, petrol, brake liquid) within the car.

Status Offer Source

Org.No.

902014 255
MANUFACTURING PLANTS 1. Plant to manufacture bricks. 2. Plant to manufacture sanitary wares.

902086 293 F L/J C
MANUFACTURE OF CONSTRUCTION
MATERIALS seeks business co-operation for
the production and marketing of glue laminated
structural woods for rural buildings.

REQUESTS CATEGORY 3: ELECTRONICS AND OPTICAL DEVICES

Ref. No. Org.No. Status Offer Source 1296 165 C L C HEAT SHRINKABLE TUBE COMPOUND

1868 180 F L C
ELECTRONIC EQUIPMENT of all kinds including electronic PABX systems telephone equipment, communications radios, computers. Offshore manufacture of your products from supplied kits of parts, at very competitive rates.

2243 359 C L
AUTOMOTIVE ELECTRONIC
PRODUCTS Proposed product process required
involves the production of SMD and thick film
circuits to be used in the automotive electronic
industry.

101852 171 M S C INFORMATION AND TECHNOLOGY OF METROLOGY

101897 202 F S C
AIRBREAK CONTACTORS 16 amp to 400
amp 440V 3PH 50c/s AC block type AC3/AC4
category, having special unique features ideal
for switching various types of loads in industry,
power station, mines etc and building motor
starters and control panels.

101898 202 F S C
AIRBREAK AND VACUUM
CONTACTORS 6.6 Kv 250 amps 3 PH 50 c/
s airbreak and vacuum contactors and systems ideally suitable for all types of industrial motor control and applications.

101899 202 F S C
MOTOR STARTERS 3 PH 440V 50 c/s AC
both manual and automatic suitable for squirrel
cage/slipring induction motors up to 400 HP
suitable for all industrial applications. Robust,
reliable design having unique features and
offering trouble free operation.

Ref No. Org.No. Status Offer Source 101980 245 F L C MACHINES Personal computers, plain paper copiers, facsimile, calculators, cash registers.

202238 362 C J
FIBER OPTIC CABLE Telephone cables for use in telecommunications.

301006 126 J C
SOLAR ENERGY for household and office
use. To power the lighting etc.

301766 117 J C
SATELLITE TRANSRECEIVERS To satisfy
the demands of national TV program coverage
in the promotion of dissemination and
communication. Local investment capacity
12,000 US\$. Firstly, this project serve the CKD
component national demands and then its product
export will be expected in the future.

401473 13 P/F/C L/J
COMPUTER SOFTWARE - UNIX for workstations. Data capture services for healthcare, insurance etc. Electro optical devices - optocouplers, optoswitches etc.

402048 274 F L/J C
MANUFACTURE OF OPTICAL FIBRE
FOR TELECOMMUNICATION Looking
for joint venture partner. Transfer of technology.

501301 165 C L C MULTILAYER TECHNOLOGY FOR PRINTED CIRCUITS

REQUESTS - CATEGORY 3: ELECTRONICS AND OPTICAL DEVICES :

Ref. No. Org.No. Status Offer Source 501950 231 C 1/1 TV OR RADIO INTERACTIVE SYSTEMS in any of their possibilities: broadcasted, cabled TV. New technologies and diffusion, treatment and codification systems of TV signals, transmitters, receivers, codifiers, decodifiers. Systems of information or assistance that offer services at home from an information central: centrals of alarm, security systems elaborated for old people, disease diagnostic, centrals of products acquisition, general information (weather, transit, economy). Systems and electrical machines (non appliances) that can be sold to individual homes.

601464 5
AUTOMATIC WINDING MACHINE capable of winding metallised polypropylene film capacitors, with element diameter from 20 mm up to 63 mm with high productivity.

701255 370 C L/J
ASSEMBLY OF AN ELECTRONIC
BALANCE MACHINE and manufacture of lathe and hydraulic press. The machine balances the rotor of an electric motor.

701297 165 C L C EPOXY MOULDING COMPOUND for IC encapsulation.

701303 165 C L C
PTC HEATERS (POSITIVE THERMAL
CO-EFFICIENT)

Ref No. Org.No. Status Offer Source 701769 117 J C ASSEMBLY LINES FOR DIGITAL TELEPHONE Joint venture sought for the manufacture of telephone as part of our expansion/modernisation programme. The products are sold in the domestic market as well as in countries in East and South of Asia. Popular digital telephone with CCITT standard. Planned capacity/output: 30,000 sets/year. Local investment capacity: US\$ 100,000.

801956 231 C L/J
INFORMATION TECHNOLOGY AND
TELECOMMUNICATIONS Looking for
companies in information technology,
telecommunications, electronics and service
sectors who are interested in developing
themselves in the Spanish market in the following
ways. Companies with which to establish
distribution/representation agreements; creation
of joint ventures, the acquisition of Spanish
companies. Direct investment (subsidiary) in
the Spanish market.

802239 361 C J CAPACITOR PRODUCTION The technology is required to increase production capacity and by way of this decreasing the cost. The proposed standard capacity would be 2,000.000 pcs/year (for local market).

CATEGORY 3: ELECTRONICS AND OPTICAL DEVICES REQUESTS Org.No. Status Offer Source

Ref No.

Status Offer Source Ref. No. Org.No. L/J C 231 901200 ELECTRONIC AND COMPUTERISED PRODUCTS for blind and disabled people. The company wants to expand its range of business. It is looking for novel or development state products with applications in the market of physically disabled people, especially products and systems: Electro-mechanical products for blind people: that makes their lives easier. Electromechanical based for physically disabled people: especially PC's, peripherals, new symbol language software and items that makes communication easier. With artificial voice incorporated: for all markets, voice alarms etc.

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L 165 C 901300 CARBON TRACK ELEMENTS for variable resistors (potentiometers).

5 901465 AUTOMATIC EPOXY ENCAPSULATION element testing and finished capacitor element plant.

139

Ref. No. Org.No. Status Offer Source 1863 177 F L C COMPUTERISED REGISTER of Zimbabwean export/import companies. It provides company profiles and their products together with product codes based on the Harmonised System (HS). The system has a mailshot facility for speedy communication with desired companies on a selective basis. Company profiles and/or product reports can be printed or viewed on screen on request. The database is also used to produce export/import directories.

101936 229
MICRO-ELECTRONICS AND SOFTWARE
ENGINEERING Micro-electronics technology
and applications and software engineering
technology. For the operation, maintenance and
design NC/CNC machines. CAD/CAM systems.
Capital required: US\$ 50 million.

401952 231 C L/J DESIGNING AND IMPLEMENTATION OF INFORMATION SYSTEMS/STAFF TRAINING Tools which allow, the training, the giving of support and/or the assistance in the making of decisions, in whichever area of the company (marketing, finances, human resource management). They are seeking only advanced and innovative tools, such as: business simulators, expert systems which help one to take decisions, multimedia training systems amongst others. Advanced tools to help and support in programming and in the development of complex informatic solutions. Standard software packages with direct applications to help in the management of activities.

Ref No. Org.No. Status Offer Source 501951 231 C IJ **ELECTRONIC AND COMPUTERISED** PRODUCTS for blind and disabled people. This company wants to expand its range of business. For that reason it is looking for novel or development state products with applications in the market of physically disabled people, especially products and systems: Electromechanical products for blind people: that makes their lives easier. Electromechanical based for physically disabled people: especially PC's, peripherals, new symbol language software and items that makes communication easier. With artificial voice incorporated: for all markets, voice alarms etc.

701204 245 F L C
MACHINES Personal computers, plain paper copiers, facsimile, calculators, cash registers.

901474 13 P/F/C L/J
COMPUTER SOFTWARE - UNIX for workstations. Data capture services for healthcare, insurance etc. Electro optical devices - optocouplers, optoswitches etc.

REQUESTS CATEGORY 5: CONSUMER DURABLES

Ref .No. Org.No. Status Offer Source

1850 170 C S C
CLOTHING PRODUCTION Manufacturing
of graduation dress, protective clothing, uniforms
for all types of industries ie catering, schooling
etc. Low raw materials used.

1860 175 C L/J C
MANUFACTURE OF QUILTING (including single and multi-needle embroidery and quilting machines for a variety of applications such as bedspreads, sleeping bags, mattresses, furniture and car upholstery, insulating materials, clothing etc).

101299 165 C L C
DOMESTIC ELECTRICAL APPLIANCES

101320 377 C L/J C MARBLE PRODUCTS like ash trays, pen stands, up to medium sized flower vases etc.

101827 159 C C C RIGID WOVEN FABRIC PRODUCTION
Technology for production of rigid woven fabrics out of cotton eg mattress ribbons, lampwicks, shoe laces etc for domestic use and export. Infrastructure available.

101972 238 U/F/C L/J C/P CHEMICAL Production of ethyl alcohol.

201304 165 C L C PIN TYPE CYLINDRICAL LOCKS

202049 275 C J
COTTON CLOTHING MANUFACTURE
for the safari industry and hunters. We, however,
require assistance in marketing our product in
other African countries, USA and Europe.

401466 6 C J P
CONDOM (LATEX PROPHYLACTIC)
PRODUCTION TECHNOLOGY

Ref No. Org.No. Status Offer Source 401978 244 F S C LEATHER PROCESSING We would like to have the know-how for leather processing chemicals, especially the environmentally friendly types.

601319 377 C L/J C
FANCY PLASTIC PRODUCTS like hair brushes, hard coloured bottles (resembling glass) for cosmetics and toiletries and one litre bottles along with pilfer proof caps (plastic and/or metal) for mineral water and other liquid products.

902041 270 L/J C
REQUEST FOR ELECTRONICS and optical devices, light industry, food processing and consumer durables.

902077 290 C L/J C DOMESTIC REFRIGERATORS AND FREEZERS Development of ne 7 range of hermetic compressors and units with displacement of 6 up to 13 cu cm for refrigeration. Development of new types household refrigerators and freezers. Increasing the production of the compressors and units under licence (with displacement of 14 up to 45 cu cm. Starting the production of equipment for internal use (ice-generators, beverage coolers and other similar products).

Ref No.

Ref.No. Org.No. Status Offer Source
1318 377 C L/J C
PACKAGING FRUIT JUICES iced tea etc in handy packs.

1481 20 W J C
DAIRY PRODUCTS Technology of producing mayonnaise, yoghurt and another beverage from soya beans.

1490 25 F S/J C
PRODUCING SUGAR SYRUP FROM
TAPIOCA AND SORGHUM Development
of processing conditions for the production of
sugar syrup from sorghum based on the extraction
and hydrolysis of sorghum starch. Improvement
of the raw material based for sugar syrup which
traditional raw material is corn.

1492 27 C L G
FAT LIQUOR based on natural oil has been synthesized with a new method. It can combine with leather fibre firmly and suitable for various high quality soft leather. There is not the three wastes in processing. It sold 3000 ton a year.

1506 38 C L/J C
FAST FOOD Method of producing fast food for domestic and neighbouring markets is being sought. Specific items of production would be determined in line with market needs. Offer should also contemplate upon machinery and expert assistance provisioning.

1509 41 C J C
ESSENTIAL OILS from pepper and ginger is being sought. The licensee has already obtained government licence, acquired the necessary plot of land for the project and has the necessary managerial skill. Local and export demand for the product is high.

BREWERY Partner with know-how for building European type pub-brewery is being sought. Product has an attractive market at pub sites and classy hotels and the required raw materials are almost available locally. Licensee or local partner has already obtained the required

licence and is well qualified in the field.

Org.No. Status Offer Source

1515 43 C L/J P
CHEWING GUM PRODUCTION A modern technology and expert assistance for the production of high quality chewing gum targeted for both the local and foreign markets are being looked for.

1518 45 C L/J P
BISCUIT PRODUCTION Method of producing high quality packed cookies (biscuit) out of local and imported raw materials and destined both for upper end of domestic and neighbouring markets is being sought. Licensee has qualifications for and experience in the production of low quality similar products.

1521 47 C L/J P
CHEWING GUM PRODUCTION Knowhow and expert assistance for the manufacturing
of high quality chewing gum are being sought.
There is an unsatisfied demand for such products
both at home and neighbouring countries.
Licensee or joint venture partner seeker is
already well experienced in the production of
low quality candies.

1524 50 C L/J P
HIGH QUALITY FLOUR Appropriate
technology for the production of high quality
flour from different types of local raw materials
(wheat, barley, maize etc) is being sought.
Scarcity of such product is forecasted to persist
for a long time to come. Its bi-product is also in
high demand for the production of animal feed.

Ref. No. Org. No. Status Offer Source
1527 51 C L/J C
CONFECTIONERY Method and expert
assistance for producing various types of high
quality candies and chocolates using sugar,
cocoa and other ingredients is being sought. The
upper class of the domestic and foreign market
is the target for the produce.

1530 54 C L P
CONFECTIONERY Know-how methods and expert assistance for the production of high quality candy products that uses sugar as its main raw material are being requested. The would be licensee has rich experience in the production of low quality candies.

2027 133 W S G FRUIT JUICE PRODUCTION PLANT

101499 31 P C
PRODUCTION OF COCONUT SHELL
CHARCOAL AND ACTIVATED CARBON
for small scale operations. Technology for the
production of dessicated and coconut cream.

102058 282 C J C
FRUIT CONCENTRATE EQUIPMENT for
the processing of Hibiscus Tamarin and mango
into concentrate without any loss of the natural
flavour and colour. For this purpose, contacts
have been established with delegates from India.

201497 8 C L/J C
MANUFACTURE OF SOFT DRINKS from
fresh fruits and other artificial flavouring essences
in disposable boxes and disposable cans, together
with other fast food products.

201970 238 U/F/C L/J C/P PHARMACEUTICAL PRODUCTS Technology for commercial production of surgical cotton, gauze, clinical pads, surgical instruments etc and other surgical dressings, apparatus and disposables, cat gut etc.

Ref No. Org.No. Status Offer Source
202053 278 U L C
TOMATO KETCHUP Technology and
machinery.

202274 153 U P
CANDY MAKING MACHINE Equipment
for the production of 500-800 kgs/8 hours of
hard boiled sweets, equipment shall include
cooker (steam or electric), centre filler, rape
sizer, die forming machine, corlec double twist
wrapping machine complete with auxiliaries.

PHARMACEUTICALS We are looking for an industrial joint venture project in India starting with seed marketing and its production in the 2nd phase in the areas of pharmaceuticals, agrobiotechnology, chemicals etc. We are also interested in setting up export oriented projects in the areas of food processing, textiles and other products of interest.

301504 38 C L/J C
PRODUCTION OF EXPORT QUALITY
DONUT from flour and other ingredients is being sought. Demand for the product both at home and in neighbouring countries is high. Technology seeker is aiming to expand and upgrade existing factory and improve product quality.

301507 39 C L P
SWEETENED FOOD STUFF FROM
SESAME SEEDS is requested. This is a
product that has much demand in the rather large
Muslim community both here and in neighbouring
countries.

Ref.No. Org.No. Status Offer Source 301510 41 C J C KNOW-HOW FOR THE PRODUCTION OF POTATO CHIPS (CRISPS) is being sought. The licensee has already obtained government licence, acquired the necessary plot of land for the project and has the necessary managerial skill. Local and export demand for the product is high.

301516 44 C L
CONCENTRATED ANIMAL FODDER
Know-how or method for the production of
concentrate, composits and balanced feed for
dairy, poultry and swine from barley, 'teff',
and/or wheat straw coupled with wheat bran,
wheat medlings, molasses, oil, salt, minerals etc
is being sought.

301522 48 C L/J POWDER BAKING AND YEAST PRODUCTION A technology and expert assistance for the production of baking powder and yeat using both local and imported raw materials are being requested. The products have high demand from local private industries. foreign markets and domestic users. The licensee has already obtained an investment licence from the government.

301528 53 C L/J P
DRIED FOOD Processing technologies for the production and packaging of biscuit and other dried food based on local and imported materials and destined for the local market as import substitution are being sought. Licensee or partner sought who has qualification and experience in the stated field.

301576 74 P S C
A PROCESS FOR PRODUCING CARAMEL
FROM GLUCOSE (know-how) - method of producing caramel with high EBC.

Ref No. Org.No. Status Offer Source
301969 237 C J P
REFINING AND HYDROGENATION OF
EDIBLE OILS palm and soyabean oils.

302030 133 W S G GLUCOSE/FRUCTOSE PRODUCTION PLANT

401513 43 C L/J P
MACARONI AND SPAGHETTI
PRODUCTION A modern technology and
expert assistance capable of improving the quality
of the macaroni and spaghetti being currently
produced so as to enable entry to high class local
and foreign markets are being looked for. Flour,
eggs and other ingredients are expected to be the
inputs.

401519 46 C L/J P
HYDROGENATED OILS Manufacturing
methods and technical assistance for the
production of high quality hydrogenated oils,
margarine, table oils etc are being sought. Both
domestic and export markets are targeted.

401525 50 C L/J P
MACARONI AND SPAGHETTI
PRODUCTION Appropriate technology for
the production of high quality macaroni and
spaghetti from different types of local raw
materials and imported ingredients is being
sought. The demand for such product is expected
to remain strong in the foreseeable future.

40153! 55 C J P
BEER BREWING Joint venture partnership
for the establishment of European type pub
brewery is hereby sought. The required raw
materials are, by and large, locally available.
The product would be sold at pub sites and big
hotels. Local partner has more than 10 years
experience in brewing practices. Investment
licence is already obtained from the government.

Ref .No. Org.No. Status Offer Source

401959 231 C LJ PLASTIC PRODUCTS To develop their presence in the cosmetic, pharmaceutical and food markets, they are looking for plastic products with added value, which can be sold in the said markets especially: Plastic products (of whatever sort) which are sold to the following industries. Processing of cosmetics: bottles for shampoo, deoderant sticks, pots for creams, lids, dosers, sprays. Decorative cosmetics: cases for makeup, lipsticks and eyeshadow. Pharmaceuticals: bottles for medicines and samples, dosers, inhalers, special lids, catheters, one-does containers. Food: sweet containers etc.

402007 25 F J C
MODIFIED STARCH PRODUCTION
Method of producing modified starch from
tapioca, maize and sorghum starches. Modified
starches so produced are used in paper, textiles,
packing, foundry, glue etc industries.

402052 278 U L C
FRUIT AND VEGETABLE
PRESERVATON Technology and machinery.

402278 153 F C
SPICE EXTRACTION PLANT Equipment for the extraction of oleoresin from red pepper, ginger and turmeric. The oleoresin red pepper to be separated with the sweet and capsicum elements. Annual outputs, red pepper: 85 tons, ginger 9 tons and turmeric 9 tons per annum in finished product. Equipment for the extraction of essential oils of ginger, garlic, couaudec and eucalyptus oils of 2 tons each per annum.

501480 18 F/C L P
EXPORTER OF SEED AND GRAIN
PROCESSING MACHINERY Specialist in
rice and dall (pulse) milling plants (compact
automatic) on turn key basis. 30 years experience
with professional team for after sales service.

Ref No. Org.No. Status Offer Source

501767 117

MUSHROOM PRODUCTION Besides domestic market, we have exported mushroom in Taiwan. Planned capacity/output: 500T/year. It is a kind of valuable food. Estimated total project cost: US\$ 900.000. Local investment capacity: US\$ 450.000.

501977 243 L P
MANUFACTURE OF CHEESE Process/
consultant to manufacture different types of cheese.

502020 259

1. Seafood smoking kiln. 2. Palm oil extraction unit. 3. Cassava processing/gari manufacturing equipment. 4. Biogas electricity plant/cooking gas. 5. Arc information system.

601174 52 C L P
BROWN AND WHITE BREAD Methods for
the improvement of the associated traditional
raw materials and for the production of world
standard brown and white bread are being
sought.

601502 34 F CASHEW NUT PROCESSING

601508 40 C L P
ESSENTIAL OILS AND SPICE POWDERS
from different spices by utilizing hydrolysis and
other extraction methods is being requested.
Various domestic raw materials exist.

Ref.No. Org.No. Status Offer Source 601514 43 C L/J P CANDY PRODUCTION A modern technology and expert assistance capable of improving the quality of the candy being currently produced and further entailing diversification into related products so as to enable entry to high class local and foreign markets are being looked for. Sugar and other ingredients are expected to be the inputs. Licensee has experience and qualification in low quality sweet production.

601520 47 C L/J P
CHOCOLATE CONFECTIONERY Knowhow and expert assistance for the manufacturing
of high quality chocolates from cocoa and other
flavouring ingredients are being sought. There
is an unsatisfied demand for such products both
at home and neighbouring countries. Licensee
or joint venture partner seeker is already well
experienced in the production of high quality
candies.

601976 242 P J C
CHEMICAL ENGINEERING Basic drugs
for pharmaceutical industries or any specialty
chemicals.

602029 133 W S G FRUIT AND VEGETABLE PRESERVATION

701002 47 C L/J P
CONFECTIONERY Expert assistance and method of manufacturing high quality sweets from sugar and other ingredients are being sought. There is an unsatisfied demand for such products both at home and neighbouring countries. Licensees or joint venture partner sought already well experienced in the production of low quality candies.

Ref No. Org.No. Status Offer Source 701321 378 C J C FOOD PRODUCTS FROM TROPICAL FRUITS

701348 398 F J C
FRUIT AND VEGETABLES processing plant producing canned and bottled products (ie juices, fruits in syrups, jams, paste, puree and sauces).

701505 38 C L/J C
DRIED ICE CREAM A technology, machinery
and expert assistance for the production of dried
ice cream basically for the export market is
being sought. Inputs are expected to be both
from foreign and domestic sources.

701511 41 C J C
MEAT PROCESSING A know-how for meat
processing is being sought. The licensee has
already obtained government licence, acquired
the necessary plot of land for the project and has
the necessary managerial skill. Local and export
demand for the product is high.

701517 44 C L
DAIRY PRODUCTS Know-how or method
for the production of dairy products (milk,
cheese, cream etc) poultry products and swine
products is being sought.

701523 49 C L/J P
BREW MASTER Technology and collaboration are being sought for the building up of a European standard mini-brewery for the production of different types of beer. About 95% of the required raw materials are locally available. The product is intended to be sold to consumers mainly at the brewery's pub and beer garden and the rest to big hotels. Licensee or joint venture partner seeker is sought qualified and experienced brew master.

701526 50 C L/J P
BISCUIT PRODUCTION Methods of
producing high quality cookies (biscuit) from
different types of local raw materials, in the

Ref .No. Org.No. Status Offer Source

different types of local raw materials, in the main is being sought. The demand for such product both at home and in neighbouring countries is expected to remain strong in the foreseeable future. The licensee is already operating a plant that produces low quality

801173 41 C J C
GROUND NUT AND COFFEE ROASTING
A know-how for ground nut and coffee roasting
and packing is being sought. The licensee has
already obtained government licence, acquired
the necessary plot of land for the project and has
the necessary managerial skill. Local and export
demand for the product is high.

801469 8 U/C L/J P
PRODUCTION OF FAST FOODS
Confectioneries and soft drinks beverage plants
(small scale). Seeking financial assistance (under joint venture), technology know-how and machineries - production plants.

802028 133 W S G TOMATO KETCHUP PRODUCTION PLANT

802050 276 C L/J
FOOD PROCESSING Animal products, cereals (maize, sorghum, millets), fruit and vegetables. General technology transfer contacts.

901467 7 C J P
MULTI-LAYERED PLASTIC FILMS for
packing of cooked food which can be directly
heated in microwave oven without opening.
Similar food packaging technology.

Ref No. Org.No. Status Offer Source 901500 32 F CURRY AND OTHER SPICES

902277 153 U C
FRUIT JUICE PRODUCTION PLANT
Process technology and equipment for the
production of fruit concentrates of the following:
orange, lemon, mandoline, papaya, mango,
pineapple and grapes. Annual plant capacity
500,000 litres of concentrate in an 8 hour single
shift operation. Product mix 40% citrus fruits,
50% tropical and 10% grapes.

701577 74 P L/S C
METHOD OF PRODUCING NATURAL
ESSENCES (ESSENTIAL OILS) including
orange oil, lemon oil, dewaxing and purifying
oil.

701529 53 C L/J P
CONFECTIONERY Processing technologies
and expert assistance for the production of
export quality chocolate from cocoa,
hydrogenated fat and other imported materials
are being sought. The product is to be sold both
in the local and export markets. Forecast indicate
good demand for the product.

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- 6 Aluminium Rivets
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	Soya Sauce Brewing Plant	370	Electric Iron
334		371	Electric Kettles
335	Starch from Tamarind Seeds		Electric Meter
336	Starch from Tapioca	373	Electric Mixers/Grinders
	Starch Syrup	374	Electric Motor
	Tamarind Concentrate	375	Electric Stoves
339	Tamarind Powder		Electronic Fan Regulator
340	Tanning of Hides		Electronic Flash Gun
341	Tomato Ketchup Sauce		Electronic Gas Lighter
342	Vermicelli		Electronic PABX System
343	Vinegar		Emergency Light
344	Yeast from Molasses ·		Exhaust Fan
			Frictional Horse Power Motors
		383	_
1	ELECTRONICS AND ELECTRICAL	384	• • • • • • • • • • • • • • • • • • •
	INDUSTRIES	385	
			Hot Plates
	AAC & ACSR Conductors		Ice Cream Making Plant
346	Air Break Switches	388	Immersion Rod

		432 Pencil & Ink Eraser
_	Inverters/Emergency Lights	433 Pencil Sharpener
	Loud Speaker	434 Polypropylene Box Strapping
	Low Tension Porcelain Insulator	435 Sanitary Napkins
	Microphone	436 Synthetic Fibre Tips
	Miniature Bulbs	437 Telex; Teleprinter; Calculating Ro
	Miniature Circuit Board	438 Typewriter Ribbons
	PA Amplifiers	439 Anti Vibration Engine Mounting
	Potential Transformer	440 Auto Rubber Components
	Public Annoucing Devices	441 Canvas Hoses
	Push Button Starter	441 Canvas rioses 442 Microcellular Sheets
	Quarter Analog Clock-Electronic	442 Microcentual Streets 443 Reclaimed Rubber
	Radio	444 Rubber Balloons
	Radio & TV Coils	
	Room Heaters	445 Rubber Beading
403	Rubber Insulated Cable	446 Rubber Oil Seals
	Soldering Wire	447 Rubber Reclaimation
	Starters for Fluorescent Lamps	448 Rubber 'O' Rings
406	TV Antenna	449 Rubberised Coir Mattresses
407	Table Fan	450 Surgical Gloves
408	Tape Deck Mechanism	451 Tyre Flaps
409	Toaster	452 Tyre Retreading
410	Uninterrupted Power Supply	453 'O' Rings
411	Video Cassettes	
412	Voltage Stabilizer	PVC INDUSTRIES
413	Washing Machine	- Litter Continue
414	Water Heater	454 Blow Moulded HDPE Containers
415	Wire Wound Resistors	455 Handle Bar Grips
416	Ball Pen	456 Latex Foam Mattresses
417	Ball Point Pens	457 Milk Pouch (bag)
418	Bituminised Waterproof Paper	458 PVC Cable
	Carbon Paper	459 PVC Watch Straps
	Craft Paper Manufacturing	460 Polythene Film
	Drinking Straws	461 Polythylene Films & Bags
	Egg Trays of Different Sizes	462 PVC Footwear
423		463 PVC Gum Tape
	Geometry Sets	464 PVC Pipe Fittings
	6 Gum Tape	465 PVC Rain Coats
	6 Hand Made Paper	466 Rigid PVC Pipes
	7 Paper Cones	
	8 Paper Cups & Saucers	
	Paper Cups for Yoghurt	PLASTIC INDUSTRIES
	O Paper Napkins & Toilet Paper Rolls	
	1 Paper Pins & Gem Clips	467 Acrylic Sheets
75	• • • • • • • • • • • • • • • • • • • •	

468 Compression Moulded Plastic Goods
469 Disposable Syringes
470 Fibre Glass Products
471 Hope Woven Sacks
472 Injection Moulded Plastic Goods
473 Plastic Bottle Caps
474 Plastic Bottles
475 Plastic Buttons
476 Plastic Combs
477 Plastic Flash Light Torches
478 Plastic Recycling Unit
479 Polyester Sheets
480 Spectacle Frames

LEATHER INDUSTRIES

481 Ankle Shoes & Booties
482 Chappals and Sandals
483 Industrial Leather Shoes
484 Leather Garments
485 Leather Goods (small items)
486 Leather Handbags - Ladies (nonframed)
487 Leather Handbags - Ladies (framed)
488 Leather Hand Gloves & Other Products
489 Leather Shoe Uppers
490 Leather Shoes (children)
491 Leather Shoes (moccasin)
492 Semi Finished Leather
493 Travel Goods (leather)

501 Rear View Mirrors (auto)

- 502 Scientific Laboratory Glass Wares
- 503 Simple Glass Mirrors

PACKAGING INDUSTRIES

- 504 Cardboard Boxes
 505 Corrugated Box Making Plant
 506 Corrugated Fibreboard Containers
 507 Tin Containers (up to 18.5 litres)
 508 Wax Coated Paper

WOODEN INDUSTRIES

- 509 Drawing Boards
- 510 Fuel Briquettes
- 511 Plywood Making Plant
- 512 T-Squares
- 513 Universal Wood Working M/C
- 514 Wooden Furniture & Fittings

GLASS & CERAMIC INDUSTRIES

- 494 Ceramic Table Ware
- 495 Glass Beads
- 496 Glass Flooring Tiles
- 497 Glass Marbles
- 498 Glass Tubing
- 499 Marble Tiles
- 500 Melamine Crockery Manufacturing Unit

OFFERS

Ref No. Org.No. Status Offer Source

CATEGORY 1: CHEMICAL ENGINEERING

802349 453 M L/J R
CENTRIFUGAL PARTITION
CHROMATOGRAPHY Apparatus specialised in preparative separations: Kromaton composed of 2 coils (capacity 1,61).

302343 541 C L/J C WATER BASED GLUES AND HOT MELT ADHESIVES for industrial use in the packaging, labelling, cigarettes and bookbinding fields. Manufacturing technology offered includes: equipment, chemical formulations, studies for the use of local raw materials, on-site and offsite training.

302348 453 W L/J R EXTRACTION BY MICRO-WAVES for aromatic compounds and perfumes. Capacity: 101; Power: 200 W.

2345 453 W L/J R
EXTRACTION USING ULTRASONIC
TREATMENT in order to increase the yield
extraction or modify fonctional properties of
macromolecules. Equipment includes
sonoreactor equipped with 2 sonotrodes: 20 &
40 KHz.

502346 453 U L/J R SOLVENT EXTRACTION Solid/liquid and liquid/liquid solvent extraction capacity: 300 l with monofluid system (-7°C / +130°C).

902347 453 U L/J R EXTRACTION AND PURIFICATION with supercritical fluids of solid/liquid and liquid/liquid combinations. Pilot plant capacity: 21 for both solid and liquid extraction.

Ref No. Org.No. Status Offer Source

CATEGORY 2: LIGHT INDUSTRY

102363 458 F L R WAREHOUSE EQUIPMENT AND SURFACE TREATMENTS Centre specialising in warehouse equipment and surface treatments; equipped with a sophisticated test laboratory and industrial production equipment for new technologies (thermal projection by electron torch, vacuum heat treatment, thermionic treatments, thick coating, nondestructive testing).

802342 450 C J C
ELECTROLYTIC PLATING PROCESS
following successive stages: electrolytic
degreasing, two electrolytic etchings, an
undercoat of nickel for adhesion and nickelcobal coating, always applied within tolerance.

302368 463 W L/J U
SOLAR MOTOR WATER PUMP is an autonomous product, based on a simple technology to be manufactured, maintained as well as commercialised and marketed by thirdworld countries. The current prototype allows pumping of 2.5 cubic metres of water per hour at a depth of 30 metres.

102361 457 F/C S/J C
MILLING COMPLEXES technological and
managerial know-how offered from worldwide
experience.

2365 460 U/C L/J C SURFACE TREATMENT AND COATING technology transfer offered.

OFFERS

Ref No. Org.No. Status Offer Source 502355 456 F/C J C PNEUMATIC FLEXIBLE FORMS including gutter casting techniques for surface water drainage, inflatable hoses, inflatable lifting jacks, etc.

802367 462 P/W S R
WATER AND GAS TREATMENT, waste
treatment, fermentation, cosmetics, food
processing, etc: technology transfer and
consultancy offered.

CATEGORY 4: COMPUTERS

702351 454 M/F
SOFTWARE ERGONOMICS Observation laboratory used in order to improve man/machine interface by examining work on a computer.

602353 454 M/F
INFORMATIC METHODOLOGY AND
HUMAN FACTORS for human-centred approach to informatics.

202350 454
CAD/CAM TECHNICAL DATA
EXCHANGE Center of competence providing:
IGEB ans SET processor expertise; seminars for
sensibility and knowledge transfer; processor
testing; realisation of methodologies for exchange
between prime and sub-contractors.

202352 454 M/F
ERGONOMICS OF ARCHITECTURE
Methods of activity analysis assisted by CAD/
CAM in 3-D.

Ref No. Org.No. Status Offer Source

CATEGORY 6: FOOD PROCESSING

502344 452 P R
POST-HARVEST LOSS analysis of the causes of post-harvest losses at different in the fruit and vegetable systems and to overcome physical and economic losses at the critical points.

302357 457 F/C S/J C
POULTRY Egg production, production of broilers and breeders.

702360 457 F/C S/J C
AGRO-FOOD PLANTS for baking, biscuits
and rusks, pasta, animal feed, etc.

602362 457 F/C S/J C
AGRICULTURAL PRODUCTION
TECHNIQUES large sacle production of food
crops, cereals and mechanised industrial farming.

2354 455 P J C
QUALITY ANALYSIS OF FOOD
PRODUCTS, certification of conformity of
products to worldwide regulations, especially in
EEC countries.

502364 459 C L/J P
PRODUCTION OF MILK REPLACERS
used to replace mother's milk for young
ruminants: calves, lambs and kids from birth
after the colostrum to weaning. This licence
should interest dairies enabling them to collect
more cow, ewe or goat milk. A complete set of
literature is available for inspection.

2356 457 F/C S/J C
INTEGRATED AGRO-FOOD
COMPLEXES Frozern and fresh food
production; bread; croissants; viennese pastries;
catering; etc.

OFFERS

Org.No. Ref No. Status Offer Source 402366 461 F L/S R **AGRI-FOOD PRODUCTION** TECHNIQUES product development, new processes, all types of processing, preserving and packaging (freezing, refrigeration, vacuumpackaging, pasteurisation, bottling, dehydration), agri-food projects and sensorial analyses. Meat, poulty, game, fish, fruit, vegetables and flours all covered.

802358 457 F/C S/J C
DAIRY PLANTS U.H.T milk, yoghurt, cheeses, fresh cream, ices creams, fruit juices, etc

302359 457 F/C S/J C CANESUGAR PRODUCTION This company has built and/or is managing 9 sugar plants throughout the world with a total potential output of 300,000 tons of granulated sugar per year.

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