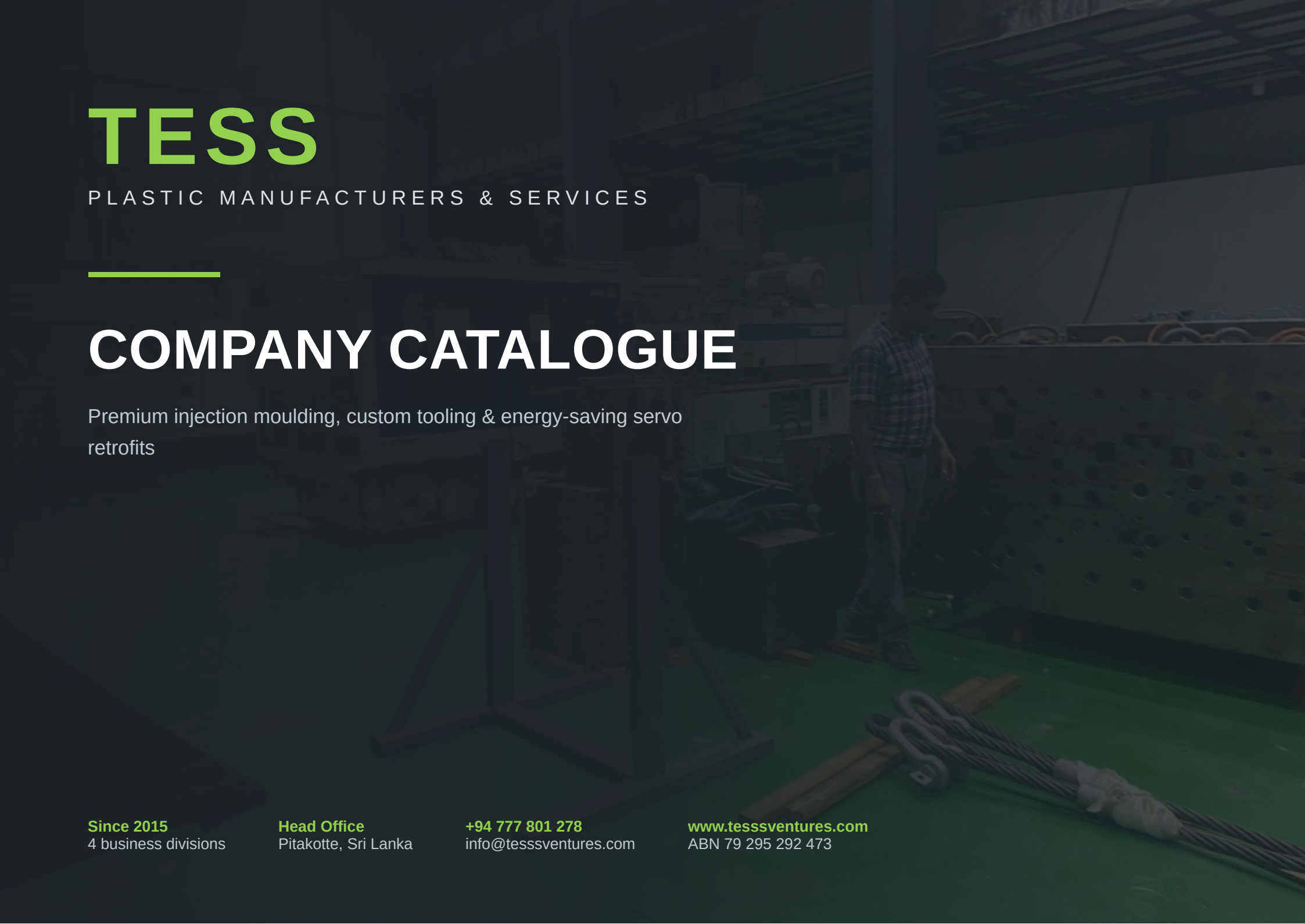
TESS

PLASTIC MANUFACTURERS & SERVICES

COMPANY CATALOGUE

Premium injection moulding, custom tooling & energy-saving servo retrofits



Since 2015
4 business divisions

Head Office
Pitakotte, Sri Lanka

+94 777 801 278
info@tesssventures.com

www.tesssventures.com
ABN 79 295 292 473

ABOUT US

TESS PLASTIC MANUFACTURERS AND SERVICES

Tess Plastic Manufacturers and Services works across manufacturing and engineering-based industries. It is a business entity established in 2015. Tess Household Plastics began manufacturing in 2015 as our first business, focused on plastic injection moulding of plant pots and plastic household products.

Our team understands the complex issues our business clients face. Whatever the industry, you need to be competitive and efficient. Our experienced engineering and design team stays with you from first contact to final product, so you have what you need to compete in today's marketplace. Whether it's a new product concept or an improvement to an existing product, we have the resources you need.

- Experienced engineering and design
- Product development with patent research and filing
- Rapid prototype resources
- Material selection support: 50+ filled and unfilled engineering and commodity grades



2015
Established

4
Business divisions

50+
Material grades supported

ABOUT US

OUR BUSINESSES

2015

TESS HOUSEHOLD PLASTICS

Our first manufacturing business: plastic injection moulding of plant pots and plastic household products.

2017

TESS AUTOPLASTIC

Moved into engineering plastics, supplying plastic auto parts to branded automobile companies as an OEM supplier.

2019

TESS BAGS

Compostable and recyclable non-woven bags, exported to the USA and Africa and supplied to leading local supermarket chains.

2021

TJJ ENGINEERING

Our vertically integrated tooling arm, delivering high-precision, cost-effective moulds and machinery: CNC machining, turning and milling, fabrication, and manufacture and repair of injection moulds and precision dies.

INDUSTRY COLLABORATION

We collaborate with reputed engineering companies in Sri Lanka, sharing resources to widen the range of products we can offer our customers.









PRODUCTS & SERVICES

WHAT WE OFFER

PRODUCTS

- Paint & Chemical Containers
- Food Containers
- Mobile Phone & Other Communication Components
- Industrial Components (incl. automotive OEM parts)
- Flower Pots & Agricultural Containers
- Non-Woven Bags (Tess Bags)

SERVICES

- 3rd Party Production & Sampling Services
- Energy Saving Servo System Installation Services
- Mould Design, Manufacture & Repair (TJJ Engineering)
- Component Painting & Finishing

NEW: Servo energy retrofits

Save up to 60–75% of machine electricity, with payback in under six months.

PRODUCTS

OUR PRODUCT LINES



PAINT & CHEMICAL CONTAINERS

Durable, leak-resistant buckets, tubs and containers for paint, adhesives and industrial chemicals.

FOOD CONTAINERS

Hygienic, stackable food-storage containers and packaging made from food-safe raw materials.



MOBILE PHONE & COMMUNICATION COMPONENTS

Precision housings, keypads and covers for mobile, remote-control and walkie-talkie devices, including export orders.



INDUSTRIAL COMPONENTS

Engineering-grade plastic and rubber parts: automotive OEM parts, grommets, bellows and covers.



FLOWER POTS & AGRICULTURAL CONTAINERS

Decorative and nursery pots, planters and agricultural containers in a wide range of designs and colours.

+

3RD PARTY PRODUCTION & SAMPLING

Your mould, our machines: production at very competitive rates, sampling at reasonable rates.

60–75%

ENERGY SAVING SERVO SYSTEMS

Retrofits for all injection moulding machines, with payback in under six months.

SERVICES

3RD PARTY PRODUCTION & SAMPLING SERVICES

Bring your mould and we'll run it on our machines. You get our tonnage range, process know-how and quality control without investing in machines of your own.

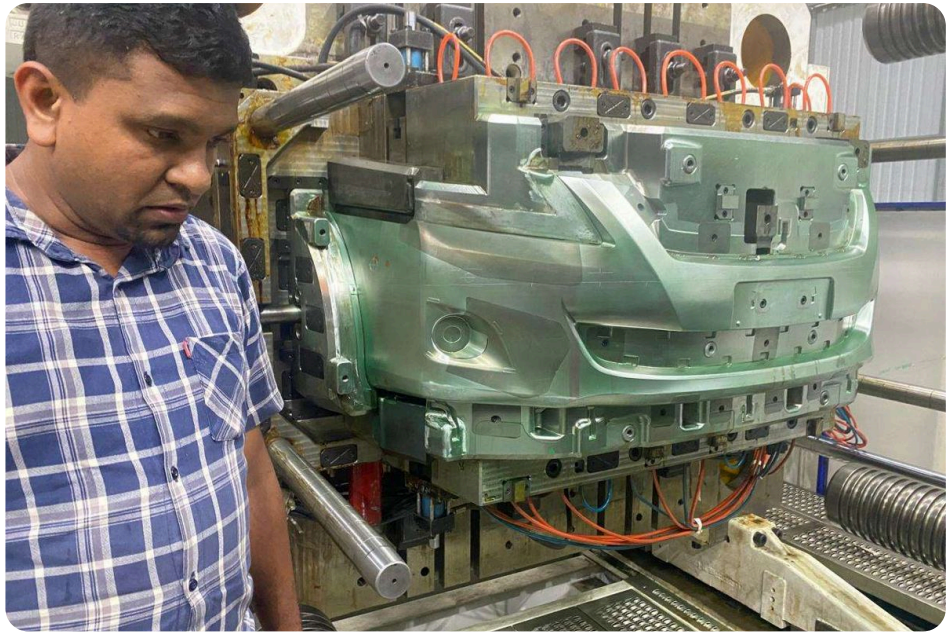
CUSTOMER MOULD PRODUCTION

We take on customer moulds for production at very competitive rates.

MOULD SAMPLING

We sample customer moulds at reasonable rates, so you can prove a tool before committing to volume.

- Machine range 80 to 800 tonnes
- Material selection & colour matching
- Inspection with CMM, optical measurement & spectrophotometer







SERVICES

ENERGY SAVING SERVO SYSTEM INSTALLATION SERVICES

Professional servo-type hybrid system installers

Energy-saving servo systems for all kinds of injection moulding machines. We keep your machines running at peak performance.

Injection moulding is the most widely used process for making plastic items. In this field it is hard to deliver a quality product at a low price because electricity costs so much. We solve that by installing energy-saving servo units on your machines.

A servo-hydraulic system lets hydraulic injection moulding machines run with very low energy use and emissions. The drive, a servo motor and a constant pump, continuously adjusts to the power actually required. When the machine stops, the pump drive stops too, so there are no idle losses. That saves **60–75% of energy**, especially in processes with long cooling periods, and also greatly reduces the machine's cooling demand and noise.

We help you improve production efficiency, and you see results immediately.



60–75%
Energy saving

<6 mo
Payback period

SERVO SYSTEM

BENEFITS

ENERGY SAVING

Save 60–75% of electrical energy. Run more machines on less electricity: four 300-ton machines can run on a 60A supply.

PERFORMANCE

Better precision, durability and stability by replacing hydraulic pumps, motors and sometimes the PLC.

HIGH SPEED

A highly responsive hydraulic circuit and high-performance servo system cut cycle time substantially, so efficiency improves significantly.

SAFE INVESTMENT

A longer guarantee period, with full guarantee on material and manufacturing defects.

SAVE WATER

No oil overheating, so less cooling water is required.

ENVIRONMENTAL PROTECTION

The machine runs quietly with low energy consumption and no oil pollution.

CONVENIENT

Maintenance is easy and convenient.

FUTURE-PROOFING

Payback period of less than six months.

PAYMENT AFTER CONFIRMATION ON SAVING

Pay 75% to start the project. Pay the 25% balance after installation.

75% **25%**

AFTER-SALES SERVICE

Our local engineering team gives you quick, reliable after-sales service for every kind of issue.

INDUSTRIAL COMPONENTS

AUTO PLASTICS

AUTO PARTS CUSTOMER BASE

- Stafford Motors (Pvt) Ltd – Colombo
- DPMC – Colombo
- Ranjith Auto Parts – Kurunegala
- Ravi Industries – Ekala
- Browns Thermal Ltd – Pannala
- Cable Solutions (Pvt) Ltd – Kadawatha

MOULDING CAPABILITIES

- Large & small part injection moulding
- Insert moulding & over-moulding
- Automated systems
- Mould design, selection & manufacture
- Raw material selection
- Stack moulds for large parts
- Wide variety of decorating options

FACILITIES & TRANSPORT

- Factory warehouse: 3,850 sq ft
- Bag manufacturing plant: 7,000 sq ft
- New 13,200 sq ft building with all-new technology
- 14.5 ft full-body lorry × 1
- 10.5 ft full-body lorry × 1

PROCESS FLOW

Design → Material selection → Moulding → Painting → Quality checking → Packing









CAPABILITIES

MOULDING MACHINERY

NO.	SIZE (TON)	MACHINE	QTY
1	800	Haitian	01
2	275	Cincinnati	01
3	240	Chendi	01
4	200	Cincinnati	01
5	330	Auckland	01
6	350	Toyo	01
7	250	Auckland	01
8	200	Auckland	01
9	180	Chendi	01
10	180	Poyon	01
11	140	CH	01
12–13	120	Multiplus Rubber	02
14	80	Multiplus Rubber	01



HAITIAN 800T: KEY SPECIFICATIONS

Clamping force	**800 ton**	Screw diameter	**100 mm**
Shot volume (PS)	**4,200 g**	Shot size (theoretical)	**4,330 cm³**
Injection pressure	**1,800 kg/cm²**	Plasticizing capacity	**410 kg/hr**
Max. toggle stroke	**1,250 mm**	Mould height	**400–1,050 mm**
Tie-bar clearance	**1,150 × 950 mm**	Mould platens	**1,600 × 1,450 mm**
Ejector force / stroke	**15.5 t / 250 mm**	Total power	**145 kW**
Machine weight	**47 t**	Dimensions (L×W×H)	**12.34 × 3.59 × 3.37 m**

PROJECTS

MOULDING SETS & MOTORCYCLE COWLINGS



Moulding sets: Toyota Premio side-mirror moulds



Honda 'Dio' front cowling mould on 660T machine



Dio front cowling, as moulded



Running Dio front cowling unit



Finished Dio cowlings



Premio side-mirror covers after painting

PROJECTS

BUMPER PROJECTS & PAINT PROCESS



Overhead conveyor line with automated paint booth



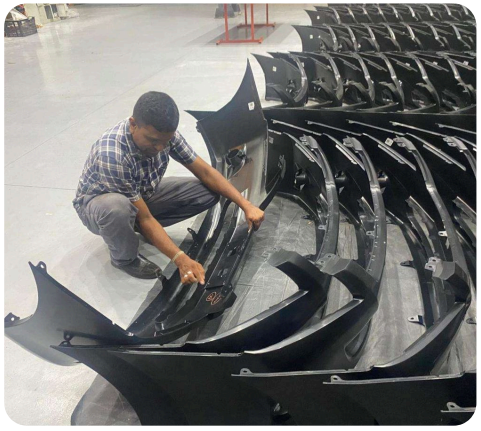
Bumper painting: paint booth section



Bumper manufacturing for Ranjith Auto, Kurunegala



Bumper mould



Bumper finishing



Toyota Premio front bumpers after painting

QUALITY

QUALITY ASSURANCE & QUALITY CONTROL

Our commitment to customer service is backed by a quality management system that requires strict compliance with stated policies and procedures. Every part we deliver represents our commitment to 100% customer satisfaction. We believe in strict quality control and continuous improvement, and we keep raising our standards to exceed customer expectations for new and existing products.

INSPECTION EQUIPMENT

- **OGP SmartScope Flash 500 (20×24×8):** touch-probe and optical measurement accuracy
- **6′ FARO arm CMM:** measures both small and large parts
- **Spectrophotometer:** checks part colour against customer standards
- **Moisture analyser:** measures moisture content of raw material

PARTNERSHIPS

JOINT VENTURE WITH CABLE SOLUTIONS (PVT) LTD, KADAWATHA









JV component production



R&D visit to our factory

FLOWER POTS & AGRICULTURAL CONTAINERS

PLANT POTS

CUSTOMER BASE

- Omega Green (Pvt) Ltd
- Plastica Industries – Kerawalapitiya
- Geethani Plastic – Kaduwela
- Blossom Plastic Industries – Nainamadama
- Shekulanka Export (Pvt) Ltd
- Mathale Plant Distributors
- Horana Anthurium Exports (Pvt) Ltd
- Southern Agro Serve
- Bandarawela Plant Nursery

CAPABILITIES

- In-house machine retrofitting team
- Sister company for mould repair and manufacturing
- Experienced technical know-how in injection moulding
- Own recycling plant for reliable supply
- Modern machine fleet from 120T to 800T



TESS BAGS

NON-WOVEN BAGS & EXPORT PRODUCTS

OUR STRENGTH

- Strong export marketing team
- State-of-the-art non-woven bag-making line
- Bag-on-roll printing machine
- 6-colour flexo printing machine

PRODUCT PORTFOLIO

- D-cut bags
- Rice bags
- Supermarket bags
- Liquor bags
- Cooler bags
- Grow bags

MARKETS

Local supermarket reusable and recyclable bags; exports to the USA and Ghana.



TJJ ENGINEERING

TOOLING & PRECISION ENGINEERING

OUR STRENGTH

- Dedicated human resources
- State-of-the-art machinery
- Experienced CAD/CAM design team
- Top management with engineering & management background

PRODUCTS & SERVICES

- Blow moulds
- Injection moulds
- Die casting
- Precision machinery parts
- Aluminium & wood façade design and manufacture
- Stamping & forging dies

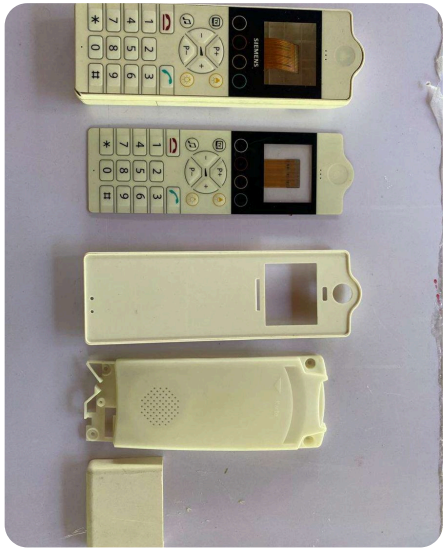
PLANT & MACHINERY

- CNC lathe
- CNC engraver × 2
- CNC milling machine
- Wire-cut EDM
- EDM
- Manual lathe
- Manual milling machine
- Surface grinder
- Column drill
- Water jet drill
- Power band saw

COMMUNICATION COMPONENTS

REMOTE CONTROL & WALKIE-TALKIE KEYS FOR EXPORT







TESS

PLASTIC MANUFACTURERS & SERVICES

THANK YOU

Let's talk about your next product, mould or energy-saving project.

COMPANY REGISTRATION · ABN 79 295 292 473

HEAD OFFICE
150/1, Thalawathugoda Road,
Pitakotte, Sri Lanka

FACTORY
No. B6A, Eraminigolla,
Hiriwadunna, Sri Lanka

MOBILE
+94 777 801 278

EMAIL
info@tesssventures.com

WEBSITE
www.tesssventures.com