

COMPANY

Since 1985, **ETHER ENGINEERS** have been producing & selling equipment that is used in technical education at **Polytechnics, Technical Training Institutes & Engineering Colleges**. Thanks to the outstanding product quality, high productivity & broad know-how, the company has developed into one of the leading manufacturers in the technical training systems sector.

The product range has now grown to more than 1000 units & systems. It is constantly being updated & expanded with new equipments. This allows us to cover all the aspects of training in engineering & related areas.

As a customer, you benefit from our broad-based experience of more than 20 years of extensive research & development.

We sell our products directly & indirectly to almost all the **Polytechnics, Technical Training Institutes & Engineering Colleges**.

All the equipments & systems are thoroughly tested before delivery to ensure that they function without problems. Service plays a crucial role in day-to-day dealings with our customers. Therefore, you can take it for granted that we always provide you with expert support.

What We Offer:

- Flexible and professional implementation of specific technical solutions for our customers based on our comprehensive know-how
- Experienced sales teams with an excellent consultancy expertise
- Complete product cycle under one roof :
 - From product development to warranty
 - Experienced, high-performance design and development department
 - Versatile state-of-the-art production facilities
 - Final assembly and testing of products

For every Product :

- Clearly defined range of experiments and carefully thought-out learning objectives
- Extensive use of real industrial components and parts to give our training systems a high degree of practical relevance
- Clear and comprehensive experimental and operating manual for every product
- Systems ready to use with little work
- Robust design for reliable long-term use, primarily by pupils and students

Cat No.

Product

Photo

1450 Plate Girder Bridge

A properly constructed model of usual construction abutment wing walls all necessary transverse and longitudinal sleepers and track of rail road. The model is About 135 cm long and is made of metallic and wooden parts.



1451 Lattice Girder Bridge

A properly constructed model of usual construction showing abutment, wing walls, all necessary transverse and longitudinal sleepers and track of rail road. The model is about 135 cm. long and is made of metal and wood.



1452 Lattice Bowstring Girder Bridge

The properly constructed model of usual construction is with all necessary transverse and longitudinal sleepers and single track of rail road. The model is about 135cm. Long and is made of metallic and wooden parts.



1453 Road Suspension Bridge

A properly constructed model of usual construction About 135 cm. long with piers, suspension cable. Link & anchor plates.



1454 Stone Arch Bridge

The model representing a two span segmental stone arched bridge Showing details as abutment, wing walls, pier, parapet wall. Road Embankment, revetment and drainage coarse etc. The model is made of timber wood. Complete fitted on about 100X25 cm. Base.



1455 R.C.C. Deck Slab Bridge

The properly constructed model is of usual construction Showing two span with abutment piers, wing walls, road embankment, revetment etc. The model is made of timber wood complete fitted on about 100 X 25 cm base.

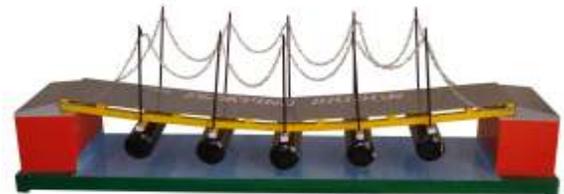


1456 R.C.C. Balanced Cantilever Bridge

The properly constructed model is of usual construction. The Model is made of wood Complete fitted on approx. 100X25 cm base.

1457 Floating Bridge

The model is of usual construction showing cylindrical pontoons Road way, longitudinal timber with planks type. Fitted on about 125 X30 cm base.



1458 T Beam Bridge

With two span and square returns. a properly constructed all Wooden model duly sectioned showing main girder with Secondary girder, pillars, span & piers. Size approx. 100X25 cm.



Cat No.

Product

Photo

1459 Lift Bridge Across A Port Channel

(Showing Bridge) A properly constructed model with necessary lifting device operated by a F.H.P. electric motor working on 220 volts A.C giving upward and downward motion. The model is approximately 120 cm long and is made of metallic and wooden parts.



1460 Bridge Trusses

Properly constructed model of mild steel each about one Meter long.

- (A) Plate Type
- (B) N. Type
- (C) Lattice Type
- (D) Warren Type
- (E) Lattice Bowstring Type.



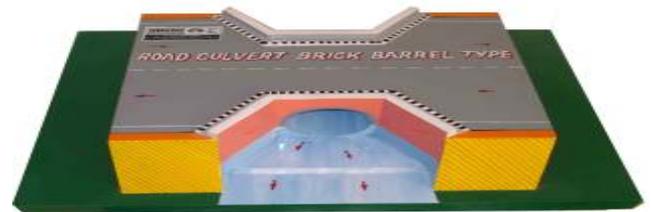
CULVERT MODELS:

1461 Road Culvert with Single Arch

Properly constructed wooden model showing the splayed wing walls, road way, parapet walls, drain portion and Concrete apron on either end. Size 60 X 45 cm. Approx.

1462 Road Culvert Brick Barrel Type

Properly, Constructed model in wood showing details as brick barrel surrounded by concrete, Parapet, wing Walls, roadway and concrete apron on either sides Size 60x45 cm Approximately.



1463 Road Culvert Box Type

Properly constructed model in wood showing roadway, Parapet walls drain portion and concrete. Size 60 X 45 cm. Approximately.



1464 Road Culvert With R.C.C. Slab

Properly, Constructed model in wood showing details as brick barrel with R.C.C. Slab.



Cat No.

Product

Photo

1465 Road Culvert Skew Type

Properly constructed model in wood showing roadway, drain portion, wing walls and parapet walls. Size about 60x45 cm.



1466 Railway Culvert

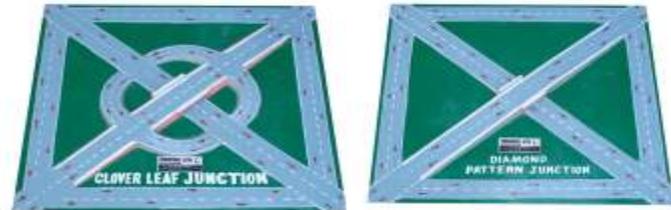
Properly constructed model in wood showing abutment, drain portion girders, sleepers, running rails and ground rills, size approximately 60x45 cm.



ROAD MODELS:

1467 Flyover Road Junction

The model is fabricated of wood and mounted on a 60x60 cm. base board showing the uninterrupted flow of one way traffic. The connections to the main high way are very nicely demonstrated for the students of the traffic engineering.



(A) Clover Leaf Junction.

(B) Diamond Pattern.

1468 Model of Cross Section of National Highway

Showing proper formation of embankment, carriage Way shoulder and courses. Complete on about 60 x 40 Cm base board.



1469 Model of Sub-Surface Drainage

It is properly constructed and dissectible model showing lateral and longitudinal pipe, drainage chamber, and carriage way. Complete on about 60 x 40 cm. base board.



1470 Road Signs

A set of 12 signs beautifully drawn on metal plate pieces and all fitted on a 60 x 30 cm. wooden base.



Cat No.

Product

Photo

RAILWAY MODELS:

1471 Model of Points Crossing

Properly constructed model to demonstrate to direct a moving train from one tract to another. Consisting of sleepers, stock rail, loop rail stretcher bar, switch lever and a two wheel trolley. Complete on about 100x35 cm. polished wooden base.



1472 Model of Inter Locking

Properly constructed model. To demonstrate the mechanical singalling and inter-locking. Consisting of stock rail, stretcher bar, detector signals and switch levers. Complete on about 90x40 cm. Polished wooden base.



BUILDING MODELS:

1473 Grillage Foundation

A properly constructed model of cast aluminium and metal parts Showing concrete footing grillage on platform of I beams, Antivibration mat, base plate and column. Complete on wooden Base of size about 30 x 25 cm.



1474 Model of foundation

Showing two walls of a room basement, foundation footing, foundation. Concrete, sand filing, steps ground level etc. Size 45x40cms. Approximately.



1475 Pile Driving Machine Model

Showing a hoist, pile, hammer guides, sliding base etc. Size 60x40 cm. Approximately.



1476 Piles of Different Type

(a) Steel Sheet Pile



(b) Screw Pile



(C) Timber Pile

Cat No.

Product

Photo

1477 Wing Walls

An all wooden and properly constructed model of three different types of wing walls, beautifully pointed & mounted on wooden base of about 30 x 45cms. Size.



1478 Pneumatic Caisson

A properly constructed large size dissected model showing main shell with cutting edge at the bottom. The roof has holes for vertical shaft for the passage of men & material and for the outer air into the working chamber. The model is made of Wooden 40x40 cm. size. Overall height of the model is about 52cm.



1479 Model of Bricks

Properly constructed models of ten different kinds and in 1/3 full size. Complete mounted on a base Board with nomenclature.

- (a) Full size of bricks with frong is about 70x37x25 mm.
- (b) Half Bat
- (c) Three quarter bat
- (d) King Closer
- (e) Queen Closer
- (f) Queen Closer quarter.
- (g) Bevelled bat large
- (h) Bevelled bat small
- (i) Bull Nose
- (j) Splay Header



1480 Bricklayer's Scaffolding:

Showing ledgers, putlogs, standards, brace and wall. Size 50x20x40 cm. Approx.



1481 Raking Shore

A properly constructed wooden model, showing rider, Braces, sole piece, cleats, wall and wall plate etc. Complete on base with names of parts. Size approx. 35x20x60 cm.



1482 Flying Shore

Properly constructed model showing wall plate, cleats, straining piece, wedges, horizontal strut and inclined struts etc. Complete on base with walls and names of the parts size about 40x20x40cms



Cat No.

Product

Photo

1483 Centering of Arch
Model showing ribs, tie struts, leggings, trammel rods, bearer, easing wedges, posts, sleepers, wall etc. Size 50x15x30 cm .approximately.

1484 Carpentry Joints
A set of 20 wooden joints in polished wooden box with nomenclature.

1485 Model of Door Leaf
The types are as under. Size about 65x30 cm. without hinges. Made of timber wood, beautifully painted and labelled.

(A) Fully paneled Door

(B) Half paneled and half glazed Door

(c) Sash Door

(d) Ledged and braced Door

(e) Flush Door

1486 Model Of Doors With Surrounding Frames
Same as No. 10338, but with surrounding frame. Made of Timber Wood, beautifully painted and duly labeled. Complete with holds fasts, hinges, tower bolt etc.
(a) Fully panalled Door

(b) Half panalled and half glazed Door



Cat No.

Product

Photo

(c) Sash Door



(d) ledged and braced Door



(e) Flush Door.



1487 Model of Venetian Door with Surrounding Frame

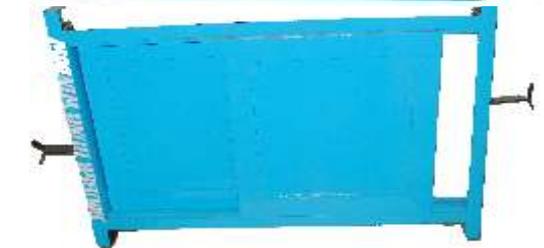
Model showing style lock rail venetian blades, panels, hold fasts, hinges tower bolts etc. Overall size 70x40 cm approximately .



1488 Model of Window

Different type, properly constructed, in timber wood, beautifully painted. Complete with frames.

(a) Louvred or Venetian Window Stationary, size 27x40 cm. Approx.



(b) Double Hung Window
Top portion slides down and lower portion slides up, size about 35x50cm.



(c) Sliding Window
Sliding horizontally, size 40x60 cm.



(d) Casement Window
Hinged at side, swings outward, size about 27x40cm

Cat No.

Product

Photo

(e) Awning Window
Hinged at top, swings outward, size 30x50 cm.
Approx.

(f) Hopper Window
Hinged at bottom, Swings into room, size about
30x45 cm.

(g) Bay Window
Stationary, Projecting outside size about 40x60cm

1489 Corner Window Lintel
Showing two walls only without shutters. Size
approxx35x40 cms. Properly constructed all
wooden model.

1490 Model of Stair Cases
Properly constructed and painted wooden models
showing various details.
(a) Dog Legged stairs 32x30 cm. approx size.

(b) Open well stairs 32x30 cm. approx size.

(c) Quarter Turn Stairs 42x35 cm. approx size.



Cat No.

Product

Photo

(d) Bifurcated stairs 75x35 cm. approx size.



(e) Geometrical stairs 35x25 cm approx size.



1492 Spiral Stairs: All metal stairs parts are fitted on wooden base. Size approx 42x30 cm



1493 Lean to Roof Model
A wooden model showing part of wall stone carbon, drip moldings, Rafters, purlin, slating eave's board and post. Complete on about 45x30 cm. size base board.



1494 Collar Beam Truss Model
Representing a wooden truss, properly constructed, Complete with iron straps and names of the parts.



1495 King Post Truss Model
Representing a wooden truss, properly constructed, complete with iron straps and names of the parts



1496 Queen Post Truss Model
Representing a Wooden truss, properly constructed complete with iron straps and names of the parts.



1497 Joints of Trusses
Set of four types of joints, properly constructed wooden models. Complete with iron straps and Beautifully Painted.



Cat No.

Product

Photo

1498 Model of Steel Roof Truss
Showing different members such as principles rafters. Tie, studs, husset plates, rivets, etc. about 1.5 meter long span.

1499 Model of Roof Showing Ridge Hip & Valley
L shaped, one end is provided with a hip and other end with a gable.

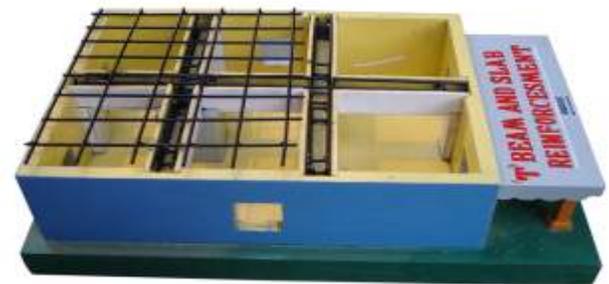
1500 Model of Partition Wall
Showing heads, tie, studs, noggings, doorway, walls etc. size 45x30 cm. Approximately.

1501 Model of Jack Arch Flooring
For four bays showing different details such as girders, surrounding concrete arches, floor finish etc. size 60x12 cm. Approximately.

1502 T Beam & Slab Reinforcement
A properly constructed model in wood, showing main girder with secondary girders, pillars, reinforcement, flooring, drip hanger etc. Complete on board.

1503 Two Rooms & Varandah
Properly Constructed model in wood illustrating cross section of a Building of two rooms and one verandah with sectional details. Complete on 40x30cms. base approximately.

1504 Two Storied Building
Of flat roof, showing different details including stairs case. The First floor can be removed to see inside details, four rooms are shown in each floor, the model is sectionised so that students may get clear idea. Size 70x60 cm. Approximately



Cat No.

Product

Photo

IRRIGATION

1505 Model of Cofferdam

Properly constructed wooden model showing earthen dam, Permanent dam, crib, tunnels, roadway, size 40x30 cm. Approximately.



1506 Gravity Dam

The model is properly constructed in wood showing dam portion, spillway of five span, canal sluices, canal guide wall, Road over dam and inspection gallery, Size 90x35 cm. Approximately.



1507 River Head Work

The model is properly constructed showing main canal, head work with controlling system. Complete on about 70x60 cm base board.



1508 Gibb's Module

The model is properly constructed showing inlet spirally running rising pipe eddy chamber, baffle plates and outlet with divergent Flume. Complete on 30x60 cm base.



1509 Saddle Syphon Spillway

The model is properly constructed to explain the disposal of high flood discharge. Size Approximately 40x35 cm.



1510 Spill way Gate

The properly constructed model showing road way, bucket water Cushion and down stream deflector wall. Size about 40x30 cm.

Cat No.

Product

Photo

1511 Volute Syphon Spillway
Showing part of a dam, main vertical Syphon pipe, Bell mouth dome on pillar, outlet etc. made of two units. Size about 50x40 cms.



1512 Level Crossing
A properly constructed model of about 60x30 cm. Size



1513 Viswewaraya Gate
The Properly constructed model showing four light gates and four heavy gates, pulleys, master pier well and counter weight etc. complete on about 90x30 cm. size base.



1514 Tank Sluice with Plug & Cistern
Showing tunnel platform, head wall, cistern, wing wall, earthen dam with slope. The model is properly constructed in wood and size approx. 55x30 cm.



1515 Tank Sluice with Tower Head
Properly constructed model showing in take wall, bund slopes, roadway revetment cistern, down stream side and controlling device, size about 80x30 cm.



1516 Tank Weir
The model is properly constructed showing the body wall splayed wing walls, stepped apron, earthen dam and rivetment size about 70x50 cm approximately.



1517 Suppressed Weir
With stepped apron. The model is properly constructed showing the body wall, Splayed wing walls, stepped apron, water cushions, earthen



Cat No.

Product

Photo

bund and revetment. Size about 70x50 cm.

1518 Sluice Gate

Properly constructed having wooden an metallic parts. Rack work type size about 30x20 cm.

1519 Canal Intake

The properly constructed model showing main chamber, coarse screen, outlet pipe, canal banks and road. Size approx. 60x50cm.

1520 Model of Canal Drop

Showing the canal side embank ment, connections, trapezodical notches and other necessary details, size approximately 60x60 cm.

1521 Model of Slit Ejector

Showing the main canal, slab, tunnels with curved piers, escape chting arrangement, complete on about 70x50 cm base board.

1522 Model of Canal Regulator

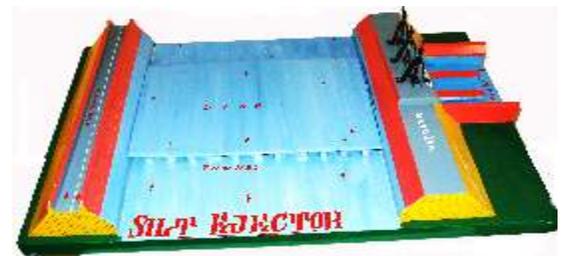
Showing canal portion, each connections, roadway and shutters with litting arrangement. Complete on about 60x60 cm. base board.

1523 Fish ladder

A properly constructed model showing the inclined chute Cross wall with openings, parts of weir and divide wall, complete on 60x30 cm base.

1524 Model of an Aqueduct

Showing canal over a drain, with beel, bank pier, abutment embankment, drainage and wing wall, size about 70x50 cm.



Cat No.

Product

Photo

1525 Syphon Aqueduct

A properly constructed model showing canal over a drain, abutment, wing wall, embankment, roadway, the drain bed in depiction under canal crossing etc. size 70x50cm. Approximately.



1526 Super Passage of Two Span

The properly constructed all wooden model showing the drain over a canal crossing. Size approx. 70x50 cm. about 70x50cm



PUBLIC HEALTH MODELS

1527 Model of Slow Sand Filter

This is a gravity type sand filter and is properly made in water proof housing. Front panel is in plexi glass for clear visibility with filter collectors in sand gravel bed. Size approximately 30x25x20 cm



1528 Model of Rapid Sand Fitter

Water flows by gravity through bed of sand and then thorough gravels. The mild steel sheet filter tank is of about 28 cm dia and 45 cm high approx. A lid with rubber strap is given at top and eye bolts with wing nuts to put the lid down tight. A standard 3/4" size fitting are provided for inlet, outlet and back washing arrangement. Without motor and pump etc.



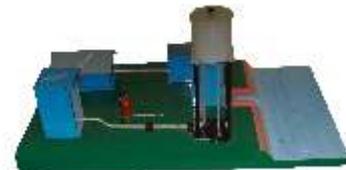
1529 Model of Pressure Fitter

The system of filtration adopted in this unit is cheaper to operate an high flow rate enables to have turn over in about half the time. The mild steel sheet tank is of approx 28 cm dia and 45 cm high. The unit is complete with filtering bag inside and lid at the top with rubber strap and eye bolts. Wings nuts are used to put the lid down taught. Without motor and pump etc.



1530 Safe Water Supply From a Pond

It is demonstration model. Student can easily understand the system only by seeing it . The installation layout showing a pond with water inlet, pump house, setting basin, filter, pump chlorinator and thence to service reservoir, complete on about 90x50 cm. wooden with wooden and metal parts.



Cat No.

Product

Photo

1531 Safe Water Supply From a River
Same as No. 10430 But instead of pond river site is shown.



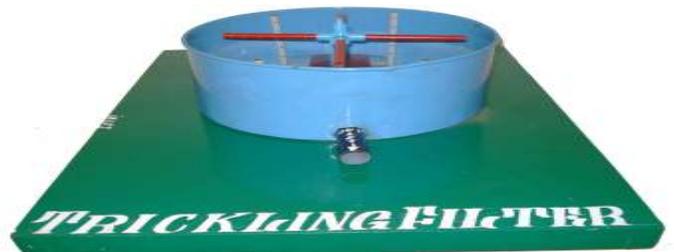
1532 Sedimentation Tank
With mechanical sludge scraping and collecting devices. The properly constructed model is rectangular in shape showing influent, effluent, scum collector, sludge hopper, devices. Overall size is about 52x19x30cm.



1533 Flocculator
The model is properly constructed consisting of alum supply tower tank, water inlet, alum mixing chamber, and chambers of high and low speed churners. The main tank is with grand churner and outlet system. Complete on about 60x45 cm wooden board.



1534 Trickling Filter
The Model is properly constructed and all metallic showing the main chamber with filtering arrangement, outlet, the central column with rotating shaft and four reaction sprinkles. Complete on about 60x45 cm. Wooden base board.



1535 Indian Type Water Closet
A properly constructed dissected wooden model showing privy, septic tank, soakage pit and internal connections. Size approx. 45x20 cm.



1536 Septic Tank
Properly constructed dissectible wooden model showing different compartments, baffle walls. Inlet and outlet pipes, vent pipe and manhole covers etc. Size 20x25x50 cm approx.



1537 Imhoff Tank
Properly constructed wooden model of about 45x30 cm. size showing upper and lower compartments, drainage, inlet, outlet and piping.

