

PRECAST CONCRETE
MADURAI · TAMIL NADU

PRODUCT PORTFOLIO

TTK PRECAST

Pavers, fly ash bricks, kerbs, drains, chambers, box culverts and Hume pipes, cast in Madurai.

Factory: 3/3C Vannankulam, Kunnanampatti, Sorikkampatti, Thirumangalam, Madurai 625 706
Office: 321, LIG Colony, Arignar Anna Nagar, Madurai 625 020

ttkprecast.in

18 WHAT IS INSIDE

Select any product to jump straight to its page

A PAVERS & BRICKS

INTRO About TTK Precast — 03

A Pavers — 04

A Colours and finishes — 05

01 Uni paver — 06

02 Rectangle — 07

03 I paver — 08

04 Square — 09

05 Fly ash bricks — 10

B KERBS

06 Wet-pressed kerbs — 11

07 Fine finish kerb — 12

C DRAINAGE

C Drainage products — 13

08 U-drains with cover slabs — 14

09 Chambers — 15

10 Box culverts — 16

11 Hume pipes — 17

EVERY PRODUCT, MADE AT THIRUMANGALAM, MADURAI



MADE TO LAST

Precast concrete products from the TTK Group, Madurai

TTK Precast makes the concrete products that go into roads, footpaths, gardens and drainage: interlocking pavers, fly ash bricks, kerbs, U-drains, chambers, box culverts and Hume pipes. Everything is factory cast at our plant in Thirumangalam, so each piece arrives on site cured, consistent and ready to lay.

A · PAVERS & BRICKS

Uni, rectangle, l-shaped and square pavers in 60, 80 and 100 mm, in grey, single and blended colours. Fly ash bricks for walls and partitions.

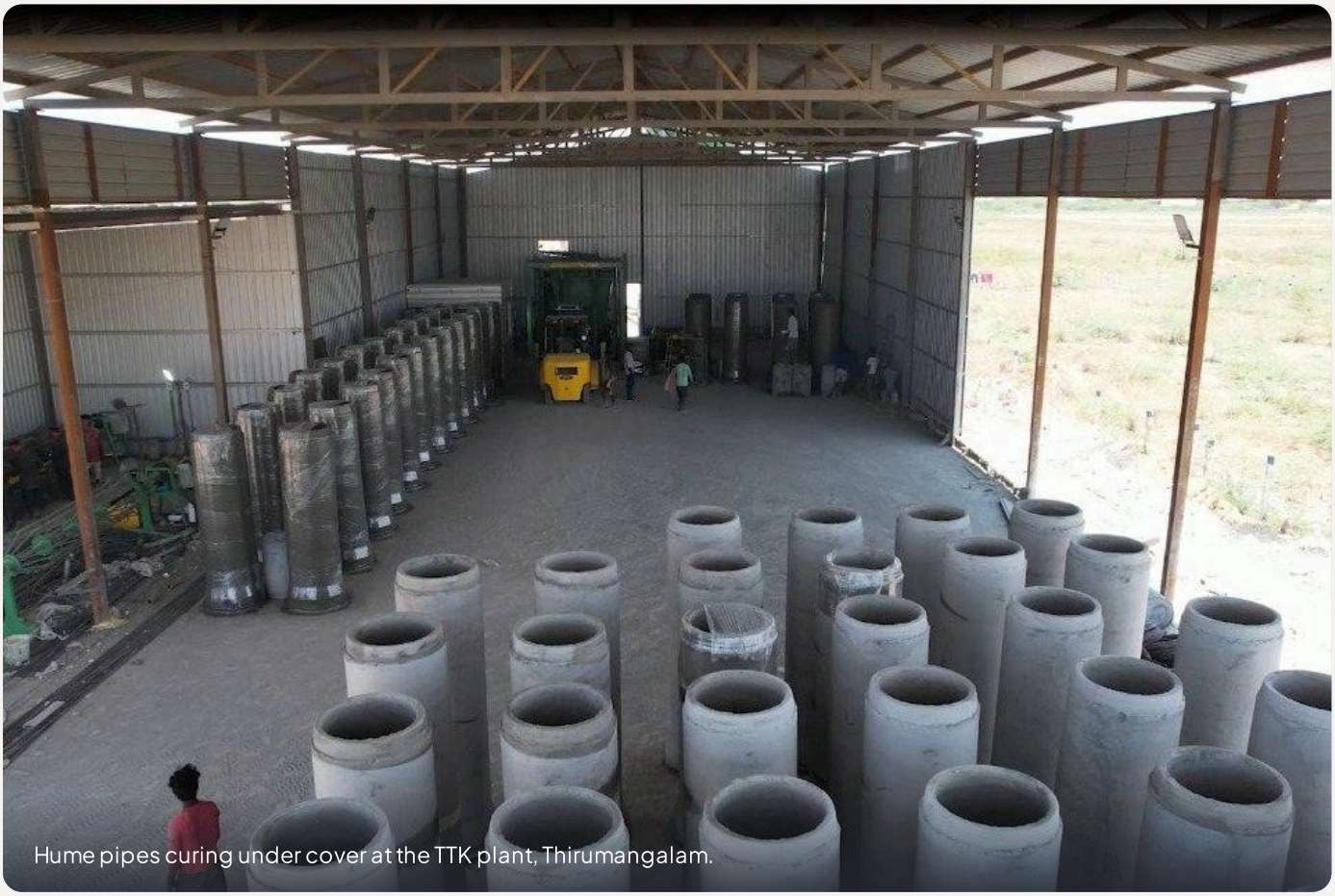
B · KERBS

Vacuum de-watered, wet-pressed kerbs and fine-finish kerbs for road edges, medians, footpaths and gardens, in splay, bull-nose, half-batter and dropper profiles.

C · DRAINAGE

U-drains with cover slabs, chambers, box culverts and Hume pipes, made to order in the sizes each project needs.

THE YARD AT THIRUMANGALAM



Hume pipes curing under cover at the TTK plant, Thirumangalam.



A PAVERS

Interlocking concrete pavers for driveways, footpaths, courtyards and parking, in four shapes and three thicknesses.

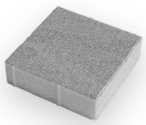
1. Highest strength and density, and the lowest water absorption, compared with any other paver in the market.
2. Manufactured on a fully automated imported machine, using high-precision moulds.
3. Unique designs, manufactured only by TTK.
4. UV-stable colours that hold up in the sun.
5. Fine finish, shot-blasted and washed finishes.
6. Grey, single and blended colours, with colour customisation available.

01 UNI PAVER | 02 RECTANGLE | 03 I PAVER | 04 SQUARE | 05 FLY ASH BRICKS

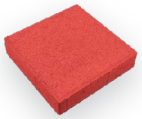
A COLOURS & FINISHES

Every paver shape is made in the same colour and finish range

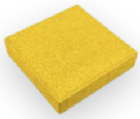
STANDARD COLOURS



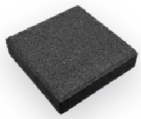
GREY



BRICK RED



YELLOW



CHARCOAL

FINE · FINISH

Smooth, dense face straight from the mould. The everyday choice for driveways and footpaths.

SHOT · BLASTED

The surface is blasted to expose the aggregate, for a textured, slip-resistant, stone-like face.

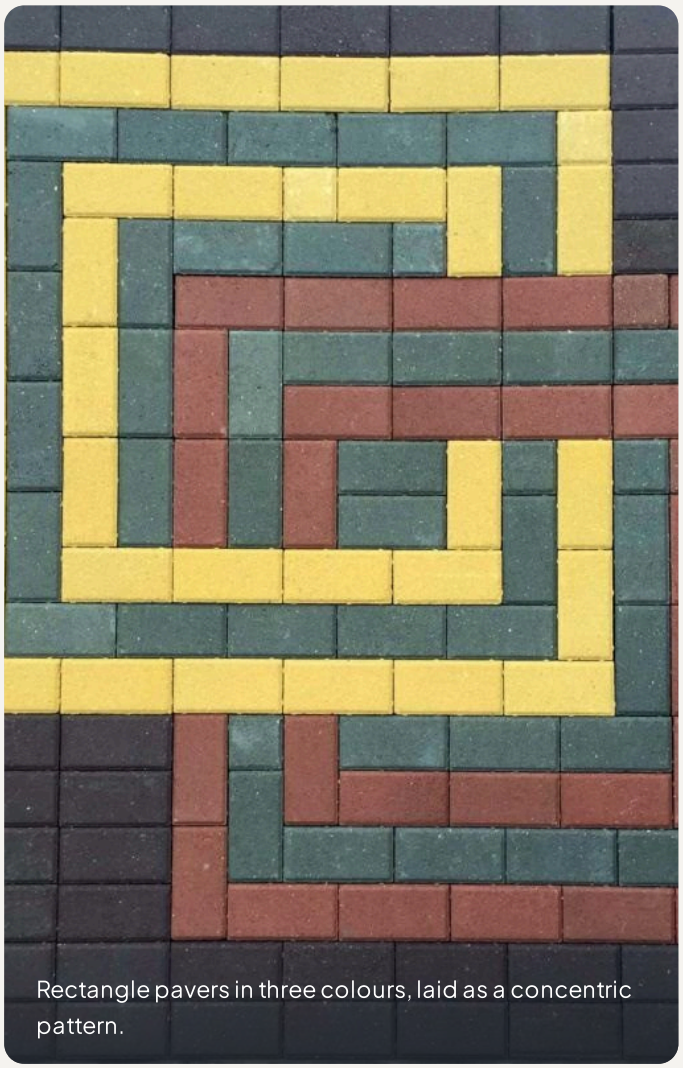
WASHED · FINISH

The top layer is washed away before it sets, leaving a natural, grainy exposed-aggregate face.

SINGLE · AND BLENDED COLOURS

Pavers come in plain grey, in a single colour throughout, or in blended colours where two tones are mixed in the face. All colours are UV stable. Custom colours can be matched to a project on request.





Rectangle pavers in three colours, laid as a concentric pattern.

01 UNI PAVER

Zig-zag interlocking paver · three thicknesses for footpaths to heavy-vehicle areas



SHOWN: BRICK RED, FINE FINISH

SPECIFICATION · UNI PAVER

DIMENSIONS · L × W × H (MM)	MODULE NO
225 × 112.5 × 100	UNI-100
225 × 112.5 × 80	UNI-80
225 × 112.5 × 60	UNI-60

60 mm for footpaths and courtyards · 80 mm for driveways and light vehicles · 100 mm for heavy-vehicle and industrial areas.

COLOURS SHOWN · BLENDED AND CUSTOM COLOURS ON REQUEST



GREY



BRICK RED



YELLOW



CHARCOAL

IN USE



Uni pavers laid in alternating colour bands on a parking apron.

02 RECTANGLE

Plain rectangular paver · lays in running bond, basket-weave and herringbone



SHOWN: GREY, FINE FINISH

SPECIFICATION · RECTANGLE

DIMENSIONS · L × W × H (MM)	MODULE NO
200 × 100 × 80	REC-80
200 × 100 × 60	REC-60

60 mm for pedestrian areas · 80 mm for driveways and light vehicles.

COLOURS SHOWN · BLENDED AND CUSTOM COLOURS ON REQUEST



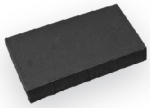
GREY



BRICK RED

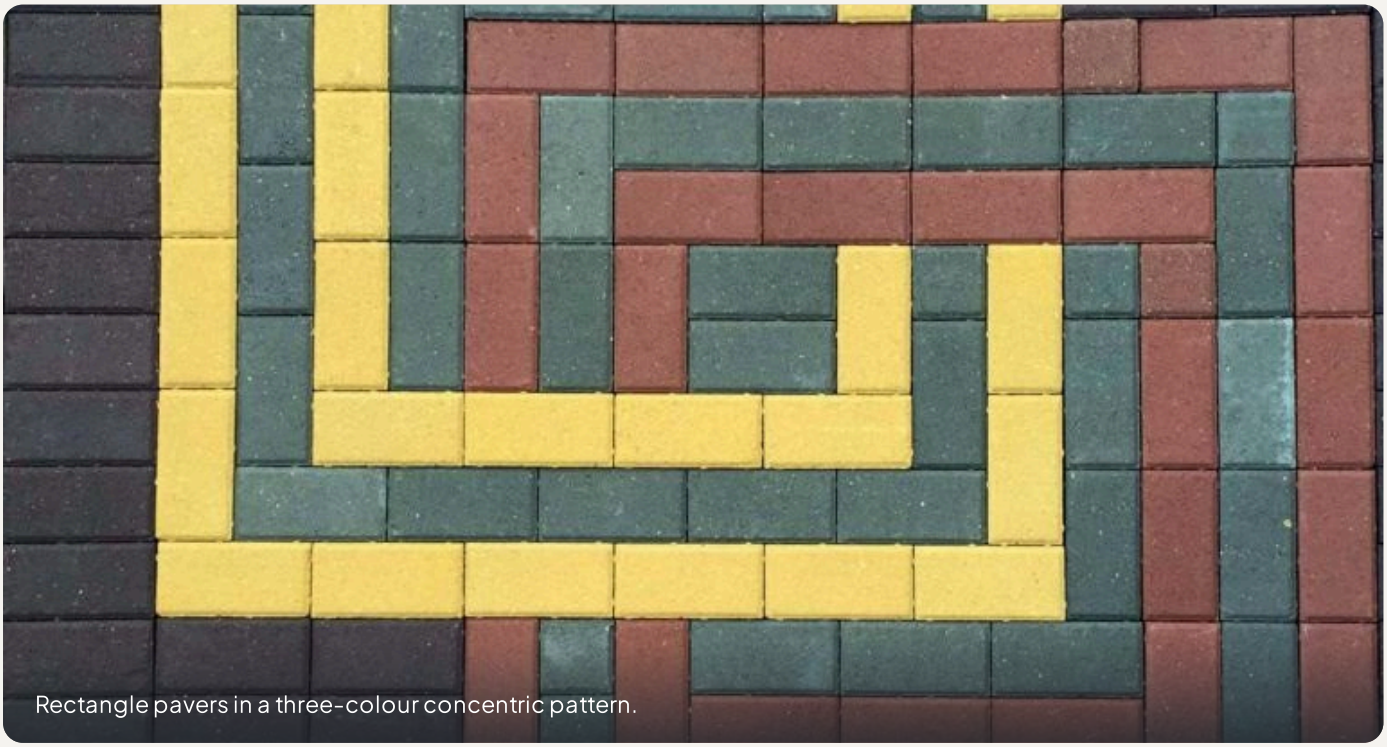


YELLOW



CHARCOAL

IN USE



Rectangle pavers in a three-colour concentric pattern.

03 I PAVER

Dumbbell-shaped interlocking paver · locks tightly in every direction



SHOWN: GREY, FINE FINISH

SPECIFICATION · I PAVER

DIMENSIONS · L × W × H (MM)	MODULE NO
200 × 160 × 80	I-80
200 × 160 × 60	I-60

60 mm for pedestrian areas · 80 mm for driveways and light vehicles.

COLOURS SHOWN · BLENDED AND CUSTOM COLOURS ON REQUEST



GREY



BRICK RED

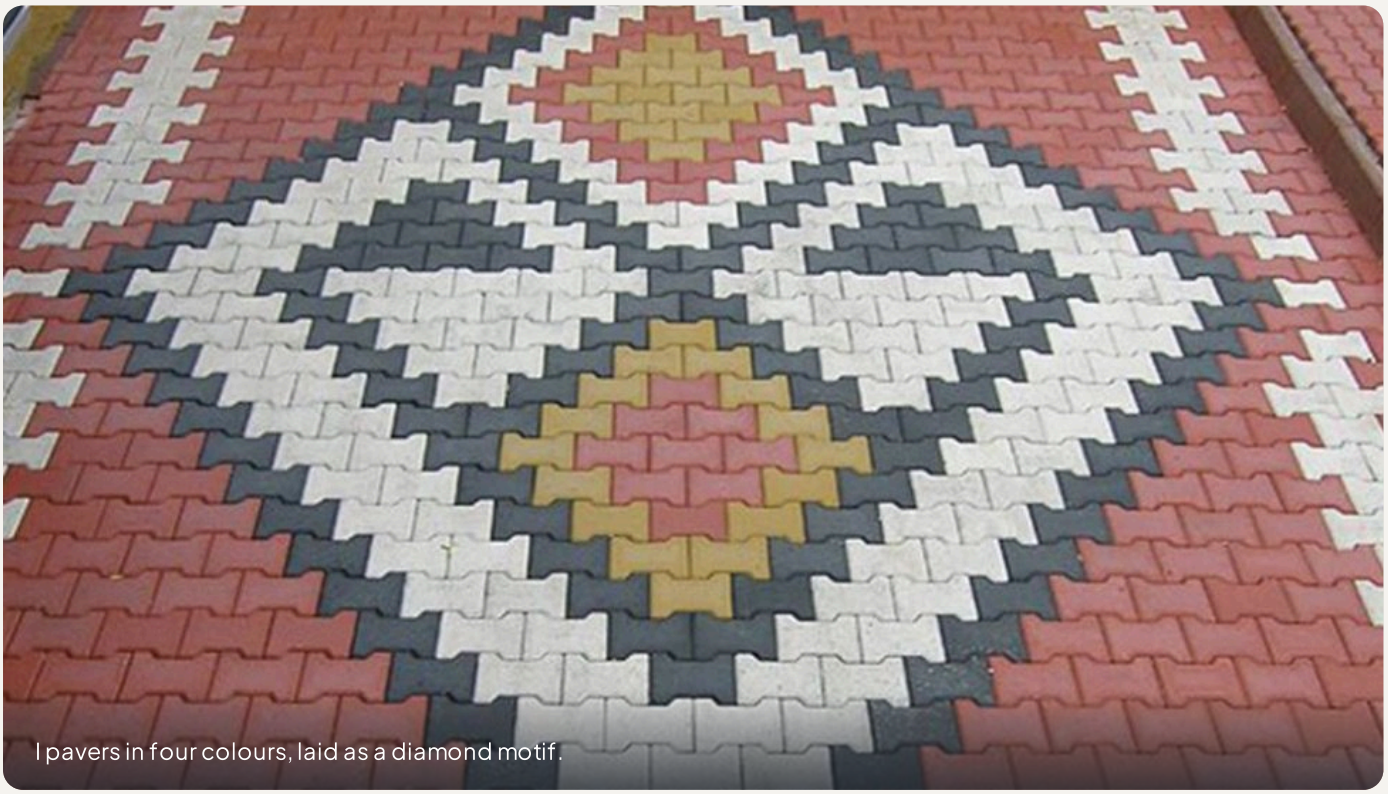


YELLOW



CHARCOAL

IN USE



I pavers in four colours, laid as a diamond motif.

04 SQUARE

Square paver in two sizes · for grids, borders and chequer patterns

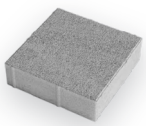


SHOWN: GREY, FINE FINISH

SPECIFICATION · SQUARE

DIMENSIONS · L × W × H (MM)	MODULE NO
200 × 200 × 80	SQ-80
200 × 200 × 60	SQ-60
100 × 100 × 80	SQ-Small-80
100 × 100 × 60	SQ-Small-60

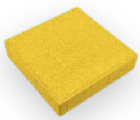
COLOURS SHOWN · BLENDED AND CUSTOM COLOURS ON REQUEST



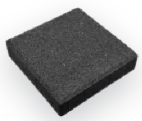
GREY



BRICK RED

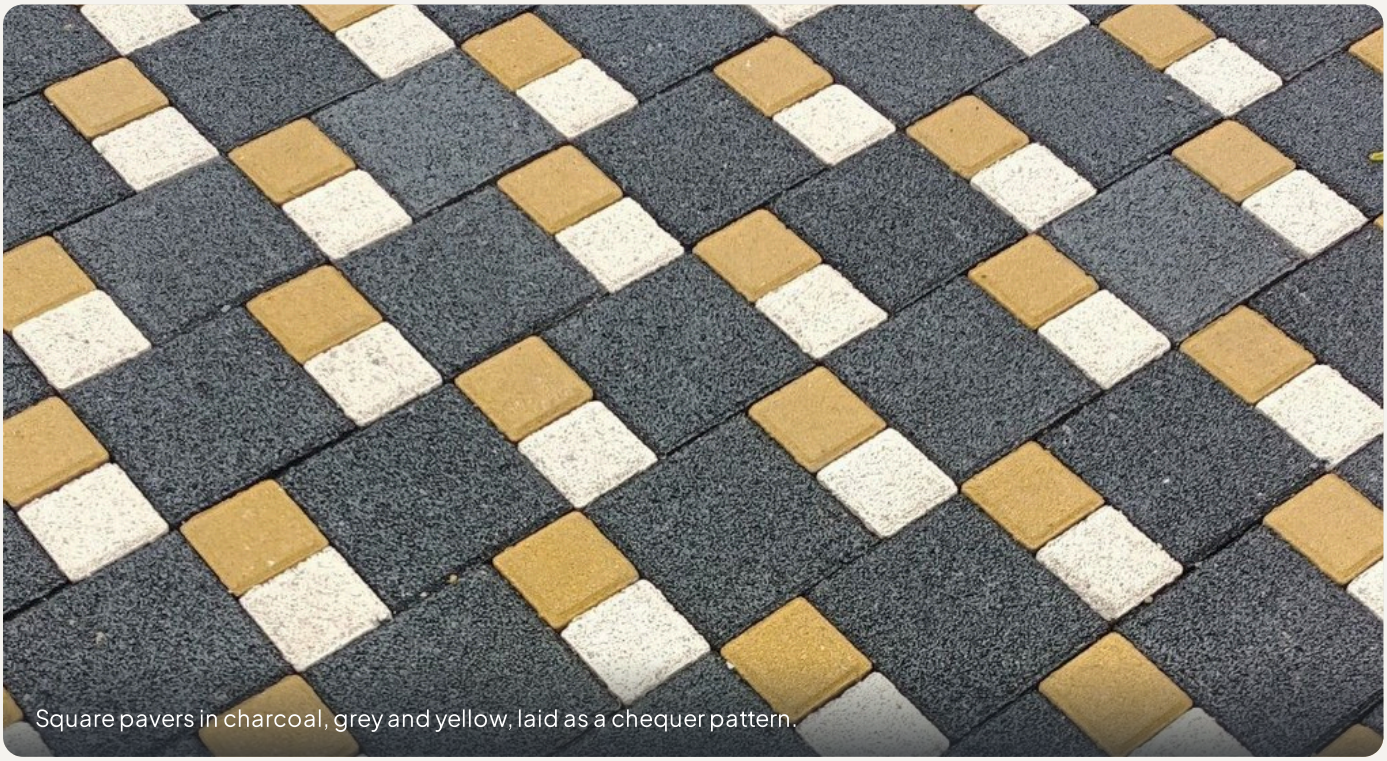


YELLOW



CHARCOAL

IN USE



Square pavers in charcoal, grey and yellow, laid as a chequer pattern.

05 FLY ASH BRICKS

Machine-pressed bricks for walls and partitions · uniform size, straight edges



FLY ASH BRICKS

SPECIFICATION · FLY ASH BRICKS

DIMENSIONS · L × W × H (MM)	MODULE NO
230 × 110 × 70	Standard

Made from fly ash, cement and aggregate, pressed and cured for a dense, uniform brick that lays fast and takes plaster well.

IN THE YARD



Bricks stacked after curing.



Fly ash bricks in stock at the plant.

06 VACUUM DE-WATERED, WET-PRESSED KERBS

Dense, high-strength kerbs for road edges and medians



Wet-pressed kerb along a planted median.

SPECIFICATION · SIZES	
DIMENSION	OPTIONS (MM)
Length	450
Width	80 · 100 · 125 · 150 · 200
Height	250 · 300 · 375 · 450

SPECIFICATION · PROFILES	
TOP PROFILE	MODULE NO
Sloped face	Splay
Rounded edge	Bull Nose
Half-angled face	Half Batter

VACUUM DE-WATERING DRAWS THE EXCESS WATER OUT OF THE MIX WHILE IT IS PRESSED, SO THE KERB CURES DENSER AND STRONGER THAN A CAST KERB



Wet-pressed kerb, sloped profile.



Wet-pressed kerb, rounded edge.

07 FINE FINISH KERB

Smooth-faced kerbs for footpaths, gardens and dropped crossings



Fine finish kerb edging a paved footpath.

SPECIFICATION · FINE FINISH KERB

DIMENSIONS · L × W × H (MM)	MODULE NO
450 × 300 × 125	Splay
450 × 450 × 150	Dropper Kerb
190 × 160 × 100	Garden Edge

Dropper kerbs step the edge down for vehicle and wheelchair crossings. Garden edge is the small profile for lawns and planting beds.

PROFILES



Fine finish kerb.



Stepped kerb unit.



C

DRAINAGE PRODUCTS

U-drains, chambers, box culverts and Hume pipes: factory-cast RCC for storm water, sewage and cable routes.

1. All are precast concrete products, manufactured for high strength and durability.
2. Used for water management: drainage, sewage and storm-water flow.
3. Designed with high load-bearing capacity, to handle soil pressure and heavy traffic.
4. Built for a long lifespan, resisting corrosion and harsh weather.
5. Quick and efficient to install, cutting labour time and on-site work.

08 U-DRAINS | 09 CHAMBERS | 10 BOX CULVERTS | 11 HUME PIPES

08 U-DRAINS WITH COVER SLABS

Factory-cast RCC channels with load-rated covers · storm water drains and cable trenches

1. Made in many sizes, each designed for the expected loads.
2. Primarily used as storm-water drains; also used as cable trenches.
3. Factory-cast RCC (reinforced cement concrete) for consistent quality.
4. Standard widths, heights and lengths, with other sizes to order.
5. The U-shaped section improves self-cleaning and drainage capacity, and supports rapid discharge.
6. Cover slabs protect the channel and are rated for pedestrian, light or heavy traffic.
7. Easy, fast installation with minimal site work; maintenance is as simple as lifting a slab.

SPECIFICATION · U-DRAINS

DESCRIPTION	MIN (MM)	MAX (MM)
Clear height	300	3000
Clear width	300	3000
Length	500	2000
Wall thickness	50	200
Other options	Insert plate · kerb attachment · splay	



Slotted cover slabs on U-drains.



U-drains stacked at the yard.



Large-section U-drains.

09 CHAMBERS

Precast inspection and junction chambers · the precast answer to a built manhole

1. Available in a range of sizes.
2. Serve the same function as manholes, giving access to drains and pipelines.
3. Can also be used as a protective chamber around valves, meters and cable joints.
4. Cast with pipe connections in the positions each project needs.

SPECIFICATION · CHAMBERS

DESCRIPTION	MIN (MM)	MAX (MM)
Clear height	600	3000
Clear width	600	3000
Length	500	2000
Wall thickness	75	200
Other options	Pipe connections	



Chamber set in position, before backfilling.



Precast chamber with a connection opening.

10 BOX CULVERTS

Rectangular RCC sections for storm water and road crossings · placed in a day

1. Used for storm-water drains and similar structures, such as cable ducts.
2. Used for road crossings, carrying water or services under the carriageway.
3. Easy to install: units are lowered into the trench and joined.
4. No PCC (plain cement concrete) bed required.

SPECIFICATION · BOX CULVERTS

DESCRIPTION	MIN (MM)	MAX (MM)
Clear height	600	1000
Clear width	600	1000
Length	500	2000
Wall thickness	75	250
Other options	Pipe connections as required · splay	



Box culverts being placed under a road.



Twin-cell box culvert units at the yard.

11 HUME PIPES

RCC pipes from 100 to 1600 mm · water supply, sewerage and culverts

TTK manufactures Hume pipes for water supply systems, sewerage systems, pipe culverts and the related needs of public and private clients. They are made at our plant in Thirumangalam, Madurai, under stringent quality control.

Each pipe is reinforced cement concrete cast around a strong steel cage, built to carry high-pressure water, sewage, chemicals and oil. Pipes are made to international specifications, in a choice of rigid or flexible joints, and in custom shapes and sizes where a project needs them.

Hume pipes have long been made for TTK's own road and irrigation projects, and are now produced for other agencies as well.

SPECIFICATION · HUME PIPES

ITEM	RANGE
Diameter	**100 – 1600 mm**
Material	**RCC, steel cage**
Joints	**Rigid · flexible**
Uses	Water supply, sewerage, culverts, drainage

Water supply RCC pipes, RCC Hume pipes, RMT RCC pipes and half-round RCC pipes are all made at the plant.



The Hume pipe machine at the TTK plant.


Finished pipes stacked for dispatch.

TTK PRECAST

Crafting pathways with precision.

GET IN TOUCH

LET'S TALK ABOUT YOUR PROJECT

FACTORY

3/3C, Vannankulam, Kunnanampatti,
Sorikkampatti, Thirumangalam,
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