BACKWATER
TRAILERS & CAMPERS
ENGINEERED IN KERALA

SPECIALTY TRAILERS & VEHICLE CONVERSIONS

Your business.
More possibilities.

Engineered in Kerala. Built for the Road Ahead.



Independent reference vehicle. Licensed photograph, AI edited to remove branding.

BACKWATER PORTFOLIO

Company & product portfolio
Kerala manufacturing ambition. Pan-India opportunity.

01 / THE COMPANY

A Kerala base.
A national ambition.

Portable spaces that help businesses, communities and travellers operate beyond a fixed address.

Backwater Trailers & Campers is an emerging specialty manufacturing venture founded by **Muhammed Fayas Khan**. We are developing towable commercial spaces and selected vehicle conversions for customers across India.

01

Commercial spaces

Event and production suites, food-business units and partner-led healthcare concepts.

02

Mobility formats

Purpose-built trailers and fit-outs for suitable vans and commercial vehicles.

03

Long-term support

Planned maintenance, refurbishment, upgrades and spare-parts support.

FOUNDER PERSPECTIVE

International experience.
Practical manufacturing focus.

Seven years of international experience and market exposure across North America and Europe, supported by hands-on North American trailer manufacturing experience.

Our aim is to combine useful design, repeatable production and serviceable systems. Products are at the development stage; final specifications and commercial availability are being established.

Ready for the location.

Proposed event and production suites, configured around the working day.

AI INTERIOR CONCEPT / NOT TO SCALE



Illustrative interior arrangement. Space, access, equipment and load ratings remain to be validated.

WHERE IT CAN WORK

Weddings & outdoor events

Film shoots & production bases

Celebrity appearances & promotional tours

WHY OPERATORS MAY CHOOSE IT

A consistent makeup and dressing space. Privacy and organised storage. A room that can remain at the venue between bookings.

Configuration options: makeup stations, wardrobe storage, lounge seating, LED lighting, climate control and equipment charging. Choose a towable suite or a suitable vehicle conversion after reviewing access, movement and power needs.

Bring the business to the customer.



Independent concession trailer. Licensed photograph; branding removed with AI.

FOOD TRAILERS & SELECTED VEHICLE CONVERSIONS

Professional enclosed concession spaces for coffee, packaged food, catering and menu-specific kitchen operations.

Use it at

Organised events, campuses, business parks, tourist destinations and approved trading sites.

Designed around the menu

Serving hatches, washable work surfaces, refrigeration, water storage and equipment provision can be specified around the operator's actual workflow.

Kitchen layout, ventilation, fire protection, electrical demand and food-business permissions must be defined for each application. Site access and trading rights remain the operator's responsibility.

Care, closer to people.

Partner-led mobile healthcare spaces for a clearly defined clinical service.

AI INTERIOR CONCEPT / NOT TO SCALE



Concept layout only. Clinical workflow, accessibility and equipment integration require specialist design.

APPLICATIONS

Outreach & screening

Consultation, basic screening, sample collection or selected diagnostics, subject to the agreed clinical scope.

POTENTIAL PARTNERS

Hospitals, NGOs & CSR

Spaces for qualified healthcare operators to extend services to community sites and workplaces.

Our proposed role: the mobile space, fit-out and equipment integration with qualified partners. Clinical services, staffing, medical devices, waste handling and operating permissions require the relevant specialist approvals.

Work. Travel. Discover.

Future product families to be developed around validated customer demand.



Independent camper van in California, USA. Licensed photograph; branding removed with AI.

BACKWATER CAMPERS

Private escapes

Compact recreational caravans and camper concepts for travellers and hospitality operators. Planned options include sleeping, kitchen, washroom and solar provision.

BACKWATER CONVERSIONS

Business on board

Suitable-vehicle concepts for vanity studios, salons, pet grooming, mobile offices, promotional rooms and service workshops.

Tourism opportunity: support organised camping, destination events and hospitality experiences, subject to suitable sites and permissions. **Selection principle:** choose the platform after confirming usable space, payload, access and operating pattern.

06 / PRODUCTION DIRECTION

A more repeatable way to build.

Proposed composite-panel construction and a structured assembly process.

Our development direction is factory-made insulated sandwich panels, precision-prepared components and controlled assembly. A potential frameless structural shell remains subject to engineering validation.

PROPOSED PRODUCTION FLOW

01
Configure

02
Prepare

03
Integrate

04
Validate

Target benefits: consistent fit, controlled mass, thermal comfort and simpler repeat builds. Production processes are under development; prototype testing and field trials will establish the final method and performance.

CHINA / INITIAL

Specialist sourcing

Selected composite materials or body kits planned from specialist Chinese manufacturers; supplier agreements to be finalised.

AUSTRALIA / INPUT

Engineering direction

Australian specialist engineering support is envisaged within the development model; appointments and scope remain to be confirmed.

INDIA / EXPANSION

Local capability

Kerala chassis and integration development, with a longer-term aim to localise materials production and grow Indian supplier content.

Construction recipes, joint details, supplier terms and internal cost structures are reserved for technical discussions.

Solar support. Sized to the job.

There is no single maximum for every trailer or van. Roof area, equipment, mounting, weight and shading determine the feasible system.

ILLUSTRATIVE 16 FT TRAILER ROOF

Up to 1.8 kWp

Four 450 W modules, only where a clear roof layout and structural assessment permit. This is an example ceiling for this layout, not a confirmed product rating.

EXAMPLE CONFIGURATIONS

Panels	Rated solar power	Illustrative daily energy
2 x 450 W	0.90 kWp	2.7 kWh/day
3 x 450 W	1.35 kWp	4.1 kWh/day
4 x 450 W	1.80 kWp	5.4 kWh/day

Calculation: array kWp x 4 equivalent full-sun hours x 0.75 system factor. Assumptions only; output varies with location, season, shading and equipment losses. Battery losses can further reduce delivered energy.

Useful support: lighting, charging, electronics and part of suitable refrigeration loads. Battery storage shifts energy use; it does not create energy.

Higher loads: air conditioning, electric cooking, water heating and grooming dryers need a separate energy budget. Solar alone is not promised to run the entire unit; shore power or another backup may be required.

Geometry example: 4.877 x 2.2 m gross roof; each reference panel 1.762 x 1.134 m and 21 kg. Four panels total 84 kg before mounts. Roof AC, vents, access and safety clearances may reduce capacity.

Reference: Trina Solar Vertex S+ 450 W specification (click). Calculation is Backwater planning arithmetic.

Practical value.
A stronger local economy.

Our price-convenience strategy is to match investment to the job: repeatable layouts, selected equipment packages, local integration and serviceable components. Prices and savings will be established through quotations and pilot results.

ENTREPRENEURS

More locations

Help operators take a consistent workspace to events, approved sites and customers. Mobility creates options; profitability depends on utilisation.

KERALA & INDIA

Skills & suppliers

Build opportunities in fabrication, interiors, electrical work, plumbing and servicing; increase domestic value addition as the business develops.

COMMUNITIES

Access & tourism

Support outreach partners, destination events and organised travel experiences. Benefits will be measured through operating pilots.

INNOVATION & DEVELOPMENT

Advanced engineering & materials

Composite integration, weight control, digital design and prototype validation.

Energy & sustainability

Thermal performance, right-sized auxiliary power and repairable assemblies.

Health-tech product development

Mobile clinical infrastructure developed with qualified healthcare partners.

Support sought: engineering mentorship, testing access, pilot customers and manufacturing collaboration. Alignment is a proposed fit with relevant event themes, not selection, certification or endorsement.

09 / LET US BUILD THE NEXT STEP

Where could your business go next?

Talk to us about a pilot application, a practical customer problem or an engineering collaboration.

MUHAMMED FAYAS KHAN

Founder | Backwater Trailers & Campers

+91 86060 26411

mfayaskhan@backwatertrailers.com

backwatertrailers.com

Kerala, India | Pan-India market

SCAN TO CONNECT

DEVELOPMENT STATUS

Concepts and proposed capabilities are shown. Final dimensions, masses, towing compatibility, production capacity, prices and approvals are not confirmed. Road-use release requires the applicable engineering, testing and registration route; specialist applications need their additional permissions.

IMAGE CREDITS & REFERENCES

Exterior reference photographs are independent vehicles, not Backwater-built products. Used under the Unsplash License and AI edited to remove branding. Interior illustrations are AI concepts, not engineering drawings. No photographer, vehicle maker, festival or institution endorsement is implied.

Cover: Devon MacKay / Unsplash - travel trailer, Vancouver Island, Canada.

P4: Arlind Photography / Unsplash - concession trailer.

P6: Fabio Sasso / Unsplash - camper van, California.

Photo licence: unsplash.com/license. Interior concepts: Backwater development collection.

Innovation support context: Kerala Startup Mission - Idea Grant.

Public portfolio | November 2026 | Supplier names, commercial terms and proprietary construction details omitted.