



Certified with



Smart Engineering
With Innovative



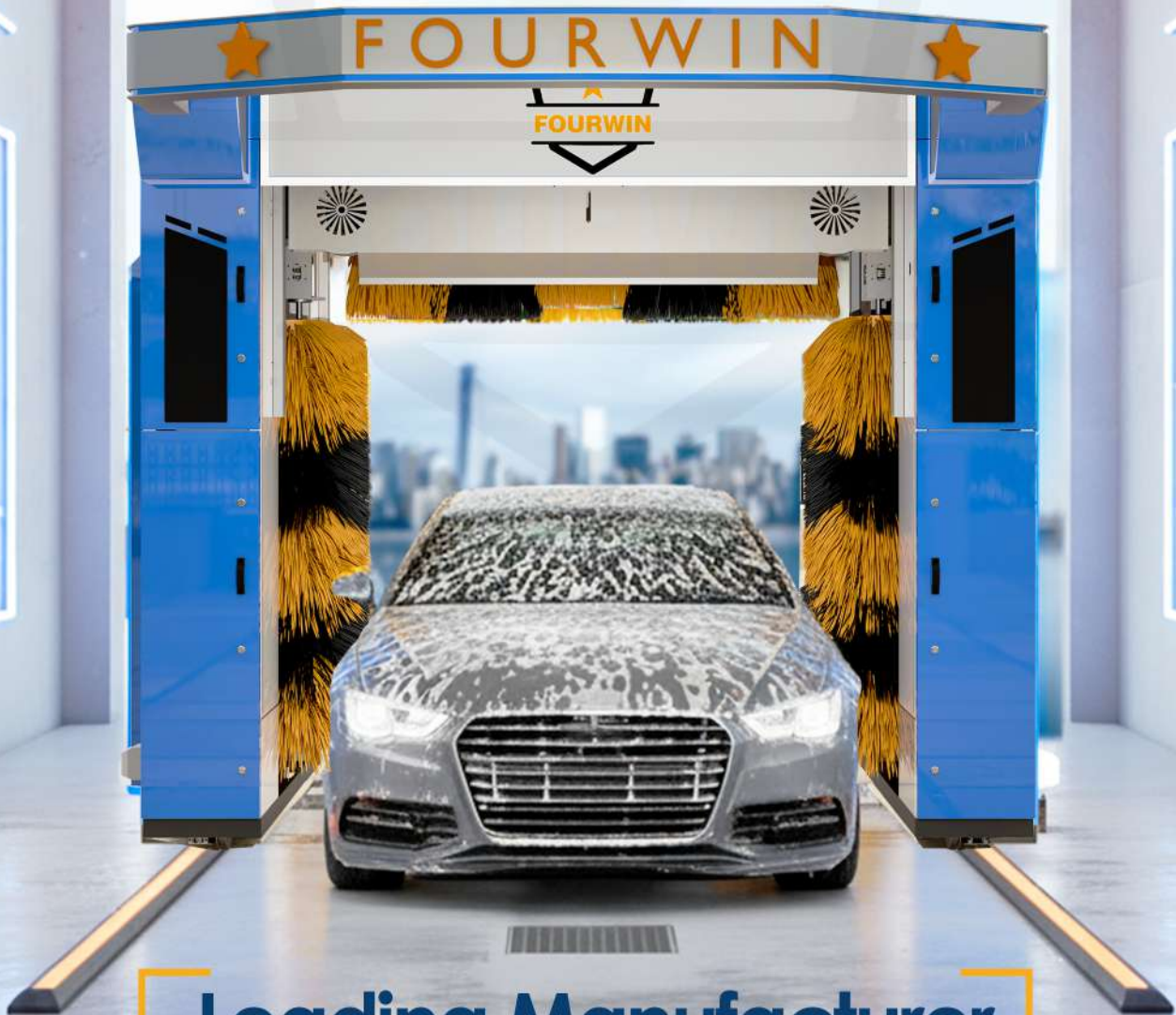
Technology Designed
For Growth



Empowering with
End to End Solutions



Trusted Nationwide,
Preferred Worldwide



Leading Manufacturer
Global Exporter
Trusted Indian Brand

for Automatic Vehicle Wash & Service Equipment

Company Overview

Treo Engineering Pvt. Ltd. stands at the forefront of India's automotive cleaning revolution with its flagship brand "FourWin", renowned for pioneering touchless robotic car wash systems and sustainable cleaning technologies.

Since our inception in 2009, we have remained steadfast in our commitment to transforming traditional vehicle washing through innovation, efficiency, and eco-conscious design.

Headquartered in Pune, Maharashtra, Treo Engineering operate a cutting-edge ISO-certified manufacturing facility, fully equipped to conceptualize, engineer, and deliver a complete range of automated washing and water treatment solutions. Our systems are proudly Made in India, tailored for performance and built to exceed industry expectations in terms of quality, durability, and cost-effectiveness.

Today, FourWin is a trusted partner to over 6,500 installations across India, serving an elite clientele that includes service centres and showrooms of leading automotive brands such as Maruti Suzuki, Tata Motors, Hyundai, Kia, MG Motors, Mahindra & Mahindra, Toyota, Renault, Citroen, Honda, Nissan, Jeep, and two-wheeler leaders like TVS, Hero, Bajaj, Yamaha, Honda and Royal Enfield, among others.

With over 500 systems delivered annually, Treo Engineering continue to set benchmarks in reliability, ease of use, and sustainability. Our presence is rapidly expanding beyond Indian borders, successful installations and partnerships in Nepal, Bangladesh, Sri Lanka, Saudi Arabia, Qatar, Georgia, and UAE.

Driven by a clear vision to democratize access to smart, resource-efficient vehicle wash systems, Treo Engineering is not just a manufacturer – We are a long-term solutions partner for clean and sustainable mobility.

**FourWin is an Ideal Partner of choice
for Global & Indian Auto OEM.**

Our Mission & Vision

***"MAKE AUTOMOBILE
CLEANING AND DETAILING SERVICES,
AN PROFITABLE AND SUSTAINABLE BUSINESS,
BY OFFERING INNOVATIVE, AFFORDABLE AND
ECOFRIENDLY PRODUCTS AND SERVICES"***



Our Mission

To lead the transformation of the service automation industry by delivering safe, progressive, and intelligent solutions that redefine operational excellence.

We are driven by an unwavering commitment to quality, innovation, and sustainability, creating lasting value for our customers and establishing ourselves as a trusted, forward-thinking partner across industries.

Our Vision

To develop and deliver the most innovative, automated, and safety-focused engineering solutions that go beyond customer expectations.

We aim to design dynamic systems that enhance performance, ensure operational excellence, and consistently delight customers through every interaction.

FourWin AT Glance

6500+ Installations **25+** Products

1700+ Clients **23+** 4W Auto OEM **8+** 2W Auto OEM

29 States Present **5** Union Territories **6+** Countries **7** Tyre Manufacturers

India's **#1** Touchless Auto Washer



Advanced
Manufacturing Unit
Large production capacity



Inhouse Team
Concept to
Creation



Customized
Products Market
Share # 60%



OEM
Approvals



Most Trusted Brand
Quality range of products
Retention @95%



Monitored quality
control process Ne
Products # 20% of
Turnover



Pan India
Competent
workforce



CAGR #40%



FourWin Range of Equipment

FourWin Automatic Full Car Wash System



Product Overview

◆ System Description

The FourWin Automatic Full Car Wash System is a high-speed, fully automated solution for efficient and consistent vehicle cleaning. Made in India, it delivers complete exterior washes for fuel stations, dealerships, service centres, and commercial garages. From pre-soak to foam and high-pressure rinse, it ensures a spotless, scratch-free finish while saving time and manpower.

◆ Key Features

- **SS 304 Build** – Long-lasting & rust-proof.
- **14+14 Top Wash Nozzles & 20 Underbody Nozzles** – Powerful shampoo & rinse with Deep clean underneath.
- **Maintenance-Free Pump** – Consistent performance.
- **High Throughput & Low Resource Use** – More cars, less time & Saves water & power.
- **Automated Process** – Minimal labour.

◆ Technical Specifications

Product Description	Technical Specification
Required Area (in mtr)	7 Mtr (L) × 3.5 Mtr (W) × 3.5 Mtr (H)
Required Area (in Ft)	23 Ft (L) × 12 Ft (W) × 12 Ft (H)
Electrical Supply	3 Phase connection
Air Supply	6 Bar Pressure
Water Supply	Overhead water tank with min 12Ft height
Electricity Consumption	0.5 Unit p/vehicle
Water Consumption	150 Ltr
Shampoo Consumption	20 ml p/vehicle
Wash Time	3 min p/vehicle (Cycle Time)
System MOC - Supporting Structure	Stainless Steel SS 304
All Operational Parts	Stainless Steel SS 304
Underbody Nozzles	20 Nozzles- SS 304
Top Wash Water Nozzles	14 Nozzles - SS 304
Top wash Shampoo Nozzles	14 Nozzles - SS 304
Nozzle Pressure	22-24 Bar from each nozzle
Mud Guard Cleaning	Separate Hose & Gun is provided
Manual Hose Length	10 Mtr - Grade R3
Manual Gun Nozzle Pressure	22 - 24 Bar
Control Panel	In FRP material for longer life
Control System	PLC Programming
High Pressure Pump	Shakti – Centrifugal Multistage
Pump Capacity	7.5 HP
Air Pump for foam dispensing	Air operated diaphragm pump (Flowjet)
Geared Motor (3 Nos)	Grade IP69 with Temp Control
Switchgear	Siemens / Schnieder
Cables	Polycab / Finolex
Length Detecting Sensor (3 Nos)	Proximity Sensors
Arm Sensors (4 Nos)	Proximity Sensors
Ball Valves (2 Nos)	Pneumatically actuated
Water(3Nos) & Shampoo Hoses(1No)	Gates

FourWin Automatic Twin Full Car Wash System



Product Overview

◆ System Description

The **FourWin Automatic Twin Full Car Wash System** is a high-speed, fully automated solution for efficient and consistent vehicle cleaning. Parallel setup boosts vehicle throughput, cuts waiting times, and maximizes efficiency. It delivers faster, thorough cleaning for various vehicle types, reduces labor costs, ensures continuous operation during maintenance, and enhances customer satisfaction—driving loyalty and attracting more business.

◆ Key Features

- **SS 304 Build** – Long-lasting & rust-proof.
- **14+14 Top Wash Nozzles & 20 Underbody Nozzles** – Powerful shampoo & rinse with Deep clean underneath.
- **Maintenance-Free Pump** – Consistent performance.
- **High Throughput & Low Resource Use** – More cars, less time & Saves water & power.
- **Automated Process** – Minimal labour.

◆ Technical Specifications

Product Description	Technical Specification
Required Area (in mtr)	7 Mtr (L) × 6.5 Mtr (W) × 3.5 Mtr (H)
Required Area (in Ft)	23 Ft (L) × 21 Ft (W) × 12 Ft (H)
Electrical Supply	3 Phase connection
Air Supply	6 Bar Pressure
Water Supply	Overhead water tank with min 12Ft height
Electricity Consumption	0.5 Unit p/vehicle
Water Consumption	150 Ltr p/vehicle
Shampoo Consumption	20 ml p/vehicle
Wash Time	3 min p/vehicle (Cycle Time)
System MOC – Supporting Structure	Stainless Steel SS 304
All Operational Parts	Stainless Steel SS 304
Underbody Nozzles	20 Nozzles– SS 304 /System
Top Wash Water Nozzles	14 Nozzles – SS 304 /System
Top wash Shampoo Nozzles	14 Nozzles – SS 304 /System
Nozzle Pressure	22–24 Bar from each nozzle
Mud Guard Cleaning	Separate Hose & Gun is provided
Manual Hose Length	10 Mtr – Grade R3 – 2Set
Manual Gun Nozzle Pressure	22 – 24 Bar
Control Panel	In FRP material for longer life
Control System	PLC Programming
High Pressure Pump	Shakti – Centrifugal Multistage
Pump Capacity	7.5 HP * 2Set
Air Pump for foam dispensing	Air operated diaphragm pump (Flowjet)
Geared Motor (3 Nos)	Grade IP69 with Temp Control – 2Set
Switchgear	Siemens / Schnieder
Cables	Polycab / Finolex
Length Detecting Sensor (3 Nos)	Proximity Sensors – 2Set
Arm Sensors (4 Nos)	Proximity Sensors – 2Set
Ball Valves (2 Nos)	Pneumatically actuated – 2Set
Water(3Nos) & Shampoo Hoses(1No)	Gates – 2Set

FourWin Automatic Underbody Car Wash System



Product Overview

◆ System Description

The **FourWin Underbody Wash System** is an automated, high-pressure cleaning unit designed to thoroughly clean the underside of vehicles — removing dust, mud, oil, and chemical build-up. It can be operated manually or automatically and is ideal for car wash bays, service centres, and fleet maintenance facilities.

◆ Key Features

- **Durable & Reliable:** Built with SS-304 stainless steel and a maintenance-free multistage pump for long-lasting performance.

- **Powerful Cleaning:** 20 precision nozzles deliver 24 Bar high-pressure jets ensuring 360° underbody coverage.
- **Fast Operation:** Completes a full wash cycle in just 48 seconds, increasing daily vehicle throughput.
- **Smart & Safe Control:** Auto/manual modes, indicator lights, and overload protection ensure smooth and safe operation.
- **Eco & Cost Efficient:** Optimized water use, low power consumption, and reduced labour for higher ROI.

◆ Technical Specifications

Product Description	Technical Specification
Required Area (in mtr)	7 Mtr (L) × 3.5 Mtr (W) × 0.65 Mtr (D) × 5 Mtr (H)
Electrical Supply	3 Phase connection
Air Supply	6 Bar Pressure
Water Supply	Overhead water tank with min 12Ft height
Electricity Consumption	0.3 Unit p/vehicle
Water Consumption	64 Ltr
Wash Time	48 Sec/vehicle (Cycle Time)
System Material Of Construction	Stainless Steel SS 304
Underbody Nozzles in Pit	20 Nozzles- SS 304
Nozzle Pressure	22-24 Bar from each nozzle
Mud Guard Cleaning	Separate Hose & Gun is provided
Manual Hose Length	10 Mtr - Grade R3
Manual Gun Nozzle Pressure	22 - 24 Bar
Control Panel	In FRP material for longer life
Control System	PLC Programming
High Pressure Pump	Shakti
Pump Capacity	7.5 HP
Geared Motor (1 Nos)	Grade IP69 with Temp Control
Switchgear	Siemens
Cables	Polycab / Finolex
Length Detecting Sensor (1 Nos)	Proximity Sensors
Ball Valves (1 Nos)	Pneumatically actuated
Water Hose	Gates

FourWin Automatic Brush Type Car Wash System



Product Overview

◆ System Description

FourWin Brush Type Car Wash System – Delivers fast, gentle, and scratch-free cleaning with durable soft foam brushes (up to 1,00,000 cycles). Features advanced safety systems, rapid contour-following drying, and extras like handgun wash, wax polish, wheel wash, SS304 build, and high-pressure pumps. Customizable, low-maintenance, and highly efficient for premium, cost-effective vehicle cleaning.

◆ Key Features

- **Durable Brushes:** Soft foam, pressure-sensing, up to 1,00,000 cycles.
- **Low-Cost Maintenance:** Replace individual brushes, not the whole unit.
- **Advanced Safety:** 200% safety logic board, sensors, & emergency trip.
- **Fast Drying:** Contour-following dryer for quick, efficient results.
- **Extra Functions:** Handgun wash, wax polish, wheel wash, SS304 build, high-pressure pumps.
- **Custom-Built:** Tailored designs to meet client needs.

◆ Technical Specifications

Product Description	Technical Specification
Machine Structure	Stainless steel 304 (SS304 Grade)
Number of Brushes	3 Nos
Vertical Brushes	2 Nos
Horizontal Brushes	1 No
Wheel Wash	Jet Type
Brush Type	Foam Brushes
Dryer	Automatic Contour following dryers
Washing L * W * H	6.5 Mtrs * 2.6 Mtrs * 3.5 Mtrs
Power Required	20 kW
Electrical Supply	(4Sq. mm X 4 C): 415 V +/- 10 V, 50 Hz
Control System	HMI Panel Touchscreen Display – Delta
Control Programming	PLC – Siemens
HMI	Siemens
Switchgear	Schnider
Electrical Components	Omron, ABB, Delta, GIC
VFD	Delta – 0.5HP & 1HP
Pressure Pump Capacity	7.5 HP & 3HP
Pressure Pump Type	Centrifugal Multistage Pump
Pressure Pump Make	Shakti
Time Required for Complete Wash	8 to 10 min per vehicle
Machine Nozzle Pressure	22-24 Bar
Hand Gun Wash	Yes
Hand Gun Foam Wash	No / Auto Foaming
Hand Gun Nozzle Pressure	22 Bar
Wax System	Optional
Motors – 36 Nos	Grade IP55 – Rotomotive / Havells
Gear Box – 36 Nos	Rotomotive
Sensors	Pepperl+Fuch
Infrared Sensor	Telco
UPS Single Phase	1 Set
Hydraulic Hoses	Gates
Drag Chains	Igus
Cables	Polycab
Safety Features	Sensors, MPCB & MCCB for current overload, and Phase Preventer

FourWin Washing & Drying System – Falcon



Product Overview

◆ System Description

FALCON by FourWin is a fully automated, touchless car wash system with no moving arms—all water and shampoo nozzles are built into the gantry for a durable, low-maintenance design. It features smart sensors, high-pressure cleaning, precise chemical dosing, and powerful drying for quick, consistent, and premium results. With easy controls and minimal manpower, FALCON is perfect for high-traffic wash sites.

◆ Key Features

- **Durable & Low-Maintenance** – High-grade, rust-resistant build with maintenance-free pump.
- **High Productivity** – Fast wash & dry cycles for more vehicles per hour.
- **Superior Cleaning & Drying** – Spotless finish with up to 90% drying efficiency.
- **Eco-Friendly Operation** – Optimized water & energy use, minimal waste.
- **Safe & Versatile** – Built-in safety features, compatible with all vehicle types

◆ Technical Specifications

Product Description	Technical Specification
Required Area (in mtr)	9.5 Mtr (L) × 5 Mtr (W) × 3.8 Mtr (D)
Electrical Supply	3 Phase connection
Air Supply	6 Bar Pressure
Water Supply	Overhead water tank with min 12Ft height
Electricity Consumption	0.725 Unit p/vehicle
Water Consumption	100 Ltr p/Vehicle
Shampoo Consumption	30 ml p/Vehicle
Cycle Time	6 Min/vehicle (washing + Drying)
System Material of Construction	Stainless Steel SS 304
Wax Nozzles	2 Nos
Nozzle Pressure	22-24 Bar from each nozzle
Mud Guard Cleaning	Separate Hose & Gun is provided
Manual Hose Length	10 Mtr - Grade R3
Manual Gun Nozzle Pressure	22 - 24 Bar
Control Panel	FRP material for longer life
Control System	PLC Programming
High Pressure Pump	Shakti
Pump Capacity	7.5 HP
Geared Motor (2Nos)	Grade IP69 with Temp Control
Dryer Blower	2HP – 4nos & 5HP – 2nos
Drying Efficiency	90%
Switchgear	Siemens
Cables	Polycab / Finolex
Sensors	Proximity Sensors – 2nos; Sender Receiver sensor – 1no
Ball Valves (1 Nos)	Pneumatically actuated
Water Hose	Gates

FourWin Washing & Drying System – Spyder



Product Overview

◆ System Description

SPYDER by FourWin – Fully automated, touchless car wash with robotic arms, high-pressure cleaning, smart chemical dosing, and powerful drying. Intelligent sensors and easy controls ensure quick, consistent, premium washes with minimal manpower—perfect for high-traffic sites.

◆ Key Features

- **Durable & Low-Maintenance** – High-grade, rust-resistant build with maintenance-free pump.
- **High Productivity** – Fast wash & dry cycles for more vehicles per hour.
- **Superior Cleaning & Drying** – Spotless finish with up to 90% drying efficiency.
- **Eco-Friendly Operation** – Optimized water & energy use, minimal waste.
- **Safe & Versatile** – Built-in safety features, compatible with all vehicle types

◆ Technical Specifications

Product Description	Technical Specification
Required Area (in mtr)	9.5 Mtr (L) × 5 Mtr (W) × 3.8 Mtr (D)
Electrical Supply	3 Phase connection
Air Supply	6 Bar Pressure
Water Supply	Overhead water tank with min 12Ft height
Electricity Consumption	0.1 Unit p/vehicle
Water Consumption	100 Ltr p/Vehicle
Shampoo Consumption	30 ml p/Vehicle
Cycle Time	6 Min/vehicle (washing + Drying)
System Material of Construction	Stainless Steel SS 304
Wax Nozzles	2 Nos
Nozzle Pressure	22-24 Bar from each nozzle
Mud Guard Cleaning	Separate Hose & Gun is provided
Manual Hose Length	10 Mtr - Grade R3
Manual Gun Nozzle Pressure	22 - 24 Bar
Control Panel	FRP material for longer life
Control System	PLC Programming
High Pressure Pump	Grundfos
Pump Capacity	7.5 HP
Motors	Grade IP55 - Rotomotive / Havells / Equivalent
Gear Box	Rotomotive / Nord / Bonfiglioli
Dryer Blower	2HP - 4nos & 5HP - 2nos = 20HP
Drying Efficiency	90%
Switchgear	Siemens
Cables	Polycab / Finolex
Sensors	Proximity Sensors & Sender Receiver sensor
Ball Valves (1 Nos)	Pneumatically actuated
Water Hose	Gates
Y Strainer	Yes
Safety Features	Sensors, MPCB & MCCB for current overload, and Phase Preventer

FourWin Automatic Static Car Dryer System



Product Overview

◆ System Description

FourWin Car Dryer System – Fully automatic, energy-efficient dryer with up to 80% drying efficiency, advanced airflow and nozzles for all vehicle types, quick 4-minute cycles, and high-capacity handling—delivering fast, uniform, and streak-free results with minimal labour.

◆ Key Features

- **80% Drying Efficiency** – Less manual work, faster service.
- **Energy-Efficient** – Low power use, cost-saving, eco-friendly.
- **Tall Vehicle Coverage** – Roof-to-side airflow for SUVs & large cars.
- **Advanced Nozzles** – Focused air for uniform drying.
- **Universal Fit** – Works for all vehicle types.
- **Fully Automatic** – Consistent results, minimal supervision.
- **Quick Cycle** – Dries in 4 minutes, boosting throughput.
- **High Capacity** – Handles more vehicles during peak hours.

◆ Technical Specifications

Product Description	Technical Specification
Required Area (in mtr)	5 Mtr (L) × 3.9 Mtr (W) × 3.5 Mtr (H)
Required Area (in Ft)	16.40 ft (L) × 12.80 ft (W) × 11.48 ft (H)
Electrical Supply	3 Phase connection
Electricity Consumption	0.6 Unit p/vehicle
Drying Time	2-3 min maximum p/vehicle (Cycle Time)
MOC - Supporting Structure	MS Galvanized
Blower Material	Aluminium Casting - Stronger & More Durable
No of Blower	7 Nos
No of Motors	7 Motors
Total HP of Motors	20 HP (2HP×5 + 5HP×2)
Drying Efficiency	80%
Control Panel	Yes
Switchgear	Siemens / Schnieder
Cables	Polycab / Finolex

FourWin Automatic Movable Car Dryer System



Product Overview

◆ System Description

FourWin Car Dryer System – Fully automatic, energy-efficient dryer with up to 80% drying efficiency, advanced airflow and nozzles for all vehicle types, quick 4-minute cycles, and high-capacity handling —delivering fast, uniform, and streak-free results with minimal labour.

◆ Key Features

- **80% Drying Efficiency** – Less manual work, faster service.
- **Energy-Efficient** – Low power use, cost-saving, eco-friendly.
- **Tall Vehicle Coverage** – Roof-to-side airflow for SUVs & large cars.
- **Advanced Nozzles** – Focused air for uniform drying.
- **Universal Fit** – Works for all vehicle types.
- **Fully Automatic** – Consistent results, minimal supervision.
- **Quick Cycle** – Dries in 4 minutes, boosting throughput.
- **High Capacity** – Handles more vehicles during peak hours.

◆ Technical Specifications

Product Description	Technical Specification
Required Area (in mtr)	6 Mtr (L) × 3.9 Mtr (W) × 3.5 Mtr (H)
Required Area (in Ft)	19.68 ft (L) × 12.80 ft (W) × 11.48 ft (H)
Electrical Supply	3 Phase connection
Electricity Consumption	0.6 Unit p/vehicle
Drying Time	2-3 min maximum p/vehicle (Cycle Time)
MOC - Supporting Structure	MS Galvanized
Blower Material	Aluminium Casting - Stronger & More Durable
No of Blower	7 Nos
No of Motors	7 Motors
Total HP of Motors	20 HP (2HP×5 + 5HP×2)
Drying Efficiency	80%
Control Panel	Yes
Switchgear	Siemens / Schnieder
Cables	Polycab / Finolex

FourWin Automatic Industrial Vacuum Cleaner



Product Overview

◆ System Description

The FourWin Industrial Vacuum Cleaner is a high-performance cleaning solution designed to meet the demanding needs of commercial and industrial environments. Built with robust engineering and advanced suction technology, this machine delivers powerful, efficient, and long-lasting performance for a wide range of applications.

The FourWin Vacuum Cleaner stands out for its industrial-grade durability, ease of use, and superior cleaning capabilities—making it the ultimate choice for professionals seeking efficiency and reliability in vehicle cleaning.

◆ Key Features

- **Long-lasting & Reliable:** Induction motor technology, continuous operation, and low maintenance.
- **Powerful Cleaning:** High suction, superior airflow, and advanced filtration for tough jobs.
- **Safe & Durable:** Voltage protection, rugged steel frame, and quality components.
- **Easy to Use:** Mobile design with flexible hoses and strong wheels for large vehicle cleaning.

◆ Technical Specifications

Product Description	Technical Specification			
	Model - 2HP	Model - 3HP	Model - 5HP	Model - 7.5HP
Power Supply	415V/50Hz	415V/50Hz	415V/50Hz	415V/50Hz
Motor	2 HP	3 HP	5 HP	7.5 HP
Motor Type	Induction Motor			
Max. Vacuum rate (mm.wg)	2200	25000	32000	40000
Max. Air flow (Cubic Mtr. /hr.)	270	350	550	600
Filter type	Non-Woven Polyester			
Filter surface (pocket filter) cm.sq	25000	25000	32000	32000
Filter efficiency	5 Micron			
Capacity (Ltr)	40 Ltr	80	100	100
Hose Length	5 Mtr			
Suction inlet (mm)	50			
Fixed Wheels	2 Nos			
Swivel Castors	1No			
Starter	DOL			
Protection	IP55			
Noise level dB(A)	65 to 70			
Dimensions (L x W) cm	114 × 69	114 × 76	114 × 76	114 × 76
Height (cm)	136	139	139	139
Weight (Kg)	80	85	117	130

Mat Cleaner



Product Overview

◆ System Description

The FourWin Mat Cleaner is a compact, fully automatic system designed to wash, scrub, and dry all types of vehicle mats (Plastic, Rubber, Cloth, Grass, etc.) — except 3D/curved mats — in one quick cycle.

◆ Key Features

- **All-in-One Cleaning:** Washes, scrubs, and dries mats in a single operation.
- **Durable Build:** Made of anti-rust SS-304 with chrome coating.
- **Fast & Efficient:** Cleans one mat in just 20 seconds, using only 250 ml water.
- **User-Friendly:** Easy plug-and-play installation with caster wheels for mobility.
- **Professional Results:** Industrial-grade brushes ensure perfect cleaning and quick drying.

◆ Technical Specifications

Product Description	Technical Specification
Car mats type	Plastic, Rubber, Cloth, etc.
Mat Thickness & Width	Thickness 1mm > 10mm & Width-800 mm
Cleaning system	Full automatic
Washing	City water - No chemical
Brushing	High End special Brush
Drying by	Sponge Rollers
Drying type	Absorption + Pressing
Drying Motor	1 HP, 3 ph., 415 V
Roller Motor	0.5 HP, 3 ph., 415 V
Air Blower	1 HP
Running time	15-20 sec average / Mat
Dimension (L x W x H)	1000 mm x 800 mm x 1000 mm
Weight	154 kg (Approx.)
Water Inlet	Standard 1/2" Pipe
Water consumption	2 Ltr / Mat Average
Power Supply	3 ph., 415 V +/- 10%, 50 HZ
Case	Stainless Steel - 304

FourWin Static Underbody Car Wash System



Product Overview

◆ System Description

The Static Underbody Car Wash System is a ground-level cleaning solution designed to remove dirt, mud, and debris from the underside of vehicles using high-pressure water jets. Ideal for car wash centres, service stations, and fleet operators, it offers fast, consistent, and maintenance-free performance.

◆ Key Features

- **Static Design** – Fixed installation for easy integration with existing wash bays.
- **High-Pressure Nozzles** – Targets hard-to-reach areas for effective cleaning.
- **Low Maintenance** – Minimal moving parts for reduced service requirements.
- **Quick Operation** – Cleans underbody in just 1–2 minutes.

The **Static Underbody Car Wash System** is a cost-effective, durable, and efficient choice for businesses aiming to enhance vehicle maintenance standards while ensuring customer satisfaction.

◆ Technical Specifications

Product Description	Technical Specification
Required Area (in mtr)	5 Mtr (L) × 3 Mtr (W) × 4 Mtr (H)
Equipment Dimension	2.1 Mtr (L) × 2.9 Mtr (W)
Electrical Supply	3 Phase connection
Water Supply	Overhead water tank with min 12Ft height
Electricity Consumption	0.1 Unit p/vehicle
Water Consumption	30 – 40 Ltr
Wash Time	Less than 1 Min/vehicle
Ramp – MOC	Mild Steel
Underbody Nozzles	19 Nozzles- SS 304
Nozzle Pressure	22-24 Bar from each nozzle
Mud Guard Cleaning	Separate Hose & Gun is provided
Manual Hose Length	10 Mtr – Grade R3
Manual Gun Nozzle Pressure	22 – 24 Bar
Control Panel	DOL Starter
High Pressure Pump	Shakti
Pump Capacity	7.5 HP
Cables	Polycab / Finolex
Ball Valves (1 Nos)	Manual Ball Valve
Water Hose	Gates

FourWin Manual Washing Setup



Product Overview

◆ System Description

The FourWin Manual washing setup is a durable, high-pressure cleaning solution designed to effectively remove stubborn dirt, mud, and grime from vehicle underbodies and wheel arches. Engineered for performance under tough conditions, it ensures fast, efficient cleaning with minimal maintenance requirements.

◆ Key Features

- **High-Pressure Cleaning:** Effectively removes dirt, mud, and grime from underbodies and wheel arches.
- **Durable Design:** Built to withstand tough conditions with long-lasting performance.
- **Fast & Efficient:** Ensures quick cleaning with minimal downtime.
- **Low Maintenance:** Requires minimal upkeep for continuous operation.
- **Optimized Performance:** Engineered for reliable results in all environments.

◆ Technical Specifications

Product Description	Technical Specification
UB Lance MOC	Stainless Steel 304
No of Nozzle in Lance	6 nos - SS 304
Foam Dispenser Capacity	30Ltr
Foam Dispenser MOC	Stainless Steel 304
Pump Type	Vertical Multistage Pump
Pump Capacity	4 HP (Lubi/Shakti/CRI)
Manual Hose Length	10 Mtr - Grade R3
Manual Gun Nozzle Pressure	22 - 24 Bar
Ball Valves (1 Nos)	Pneumatically actuated (Pneucon)
Air Supply	6 Bar Pressure
Electrical Supply	3 Phase

FourWin High Pressure Washer



Product Overview

◆ System Description

The FourWin High-Pressure Vehicle Wash System is engineered to deliver powerful and efficient cleaning, even under the toughest working conditions. It effectively removes stubborn dirt from vehicle underbodies, wheel arches, and external surfaces. Equipped with a robust centrifugal multistage pump and a high-pressure hose, the system ensures long-lasting performance, minimal maintenance, and fast cleaning cycles, making it ideal for industrial and commercial vehicle cleaning applications.

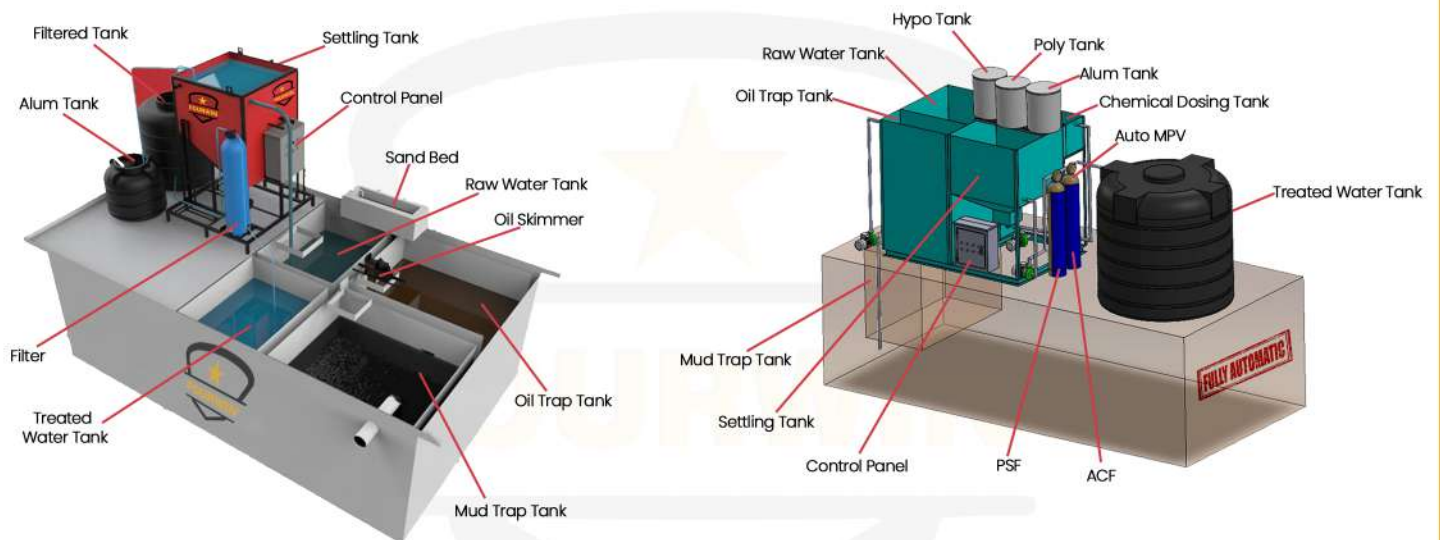
◆ Key Features

- **High-Pressure Cleaning:** Removes stubborn dirt from underbodies, wheel arches, and external surfaces
- **Durable Pump:** Centrifugal multistage pump ensures long life with minimal breakdowns.
- **Fast & Efficient:** Cleans vehicles quickly, saving time and effort.
- **Low Maintenance:** Minimal service requirements for hassle-free operation.
- **High-Pressure Performance:** 3 HP pump generates 24 bar pressure with R3 grade hose for durability.

◆ Technical Specifications

Product Description	Technical Specification
Pump Type	Vertical Multistage Pump
Pump Capacity	3 / 5 / 7.5 / 10 HP (Shakti)
Manual Hose Length	10 Mtr - Grade R3
Manual Gun Nozzle Pressure	22 - 24 Bar
Ball Valves (1 Nos)	Pneumatically actuated
Air Supply	6 Bar Pressure
Electrical Supply	3 Phase

FourWin Automatic ETP Plant



Type - Civil Tank

Type - Fabricated Tank

Product Overview

◆ System Description

FourWin Automatic ETP – A beacon of hope for our planet's waterways. Each year, countless litres of contaminated water find their way into our oceans, wreaking havoc on our environment. At FourWin, we've taken up the mantle of responsibility. Our cutting-edge plant stands as a testament to our dedication. It's not just a solution; it's a promise. A promise to safeguard our precious ecosystems, to restore the balance, drop by drop. With every cycle, we're not just treating water; we're nurturing the future. Join us in this vital endeavour, as we redefine sustainability, one treatment at a time.

The Equipment is designed as per norms of Pollution Control Board dtd 26th Dec 2019.

◆ Stages

- **Pre-Treatment:** Remove solids, oil, equalize flow, adjust pH.
- **Secondary:** Coagulation, flocculation, sludge settling & disposal.
- **Tertiary:** Filtration, disinfection, treated water storage.

◆ Key Features

- **Static Design** – Fixed installation for easy integration with existing wash bays.
- **High-Pressure Nozzles** – Targets hard-to-reach areas for effective cleaning.
- **Low Maintenance** – Minimal moving parts for reduced service requirements.
- **Quick Operation** – Cleans underbody in just 1–2 minutes.

◆ Technical Specifications

Product Description	Technical Specification
Mode of Operation	Automatic
Water Recovery	Upto 90%
Process	Continuous Process
Oil Skimmer	Provided
Filter Feed Pump	Monoblock centrifugal – Shakti / CRI / Eqv.
Effluent Transfer Pump	Submersible Pump – Shakti / CRI / Eqv
Coagulation & Sedimentation	Settling tank & tube Media will be provided
Dosing System (Alum/Poly/Hypo)	Electronic diaphragm Pump
Pressure Sand Filter	In FRP for long life – Pentair/Aventura
Activated Carbon Filter	In FRP for long life – Pentair/Aventura
Piping & Fittings	Ashirwad/Astral / Eqv.
Electrical Instruments	Pressure gauges, level switches (float)
Multiport Valve	Fully Automatic – Initiative/ Pentair / Eqv
Electrical Control Panel	In FRP for long life
Electrical Components	Siemens, Delta, Omron, GIC, Schneider
Auto control Valve	Pneumatically actuated ball valve
Control Panel	In FRP For long life
Dimension (L x W)	3.2 Mtr (L) x 2.3 Mtr (W)

FourWin Sewage Treatment Plant



Product Overview

◆ System Description

FourWin Sewage Treatment Plant, a symbol of innovation and environmental responsibility. As global water resources face increasing strain, effective wastewater management has never been more critical. At FourWin, we've embraced this challenge by developing an advanced system that purifies wastewater with exceptional efficiency.

◆ Stages:

- **Pre-Treatment:** Screening / Mud Trap, Oil Skimmer & Equalization Tank.
- **Secondary:** Coagulation, flocculation, sludge settling & disposal.
- **Tertiary:** Filtration, disinfection, treated water storage.

◆ Key Features

- **Aerobic Treatment:** Utilizes aerobic processes for effective biological purification.
- **PP Media Technology:** Attached growth PP media with 400 m²/m³ surface area boosts efficiency.
- **Compact Design:** Reduced bioreactor volume saves space without performance loss.
- **Efficient Aeration:** Diffused aeration system ensures uniform air distribution.
- **Enhanced Microbial Growth:** MBBR media provides a rich habitat for microorganisms.
- **Sustained Aerobic Environment:** Air diffuser system supports continuous pollutant degradation.
- **Hybrid Operation:** Integrates suspended and attached growth for maximum treatment efficiency.

◆ Technical Specifications

SNo	Equipment	Specification / Key Features	Quantity / Make
1	Bar Screen	Manual perforated coarse screen	1 No. / FourWin
2	Sewage Transfer Pump	Self-priming centrifugal Monoblock	1 No. / Kirloskar/Equi.
3	Aeration (MBBR) Tank	MSEP tank with floating PP media	1 No. / FourWin
4	Air Blower	Twin lobe rotary, CI body, V-belt drive, accessories included	1 No.
5	Air Diffusers	Fine bubble disc/tube type, EPDM membrane, UPVC air grid	1 Lot
6	MBBR Media	PP UV-stabilized, cylindrical, 400–475 m ² /m ³ surface area	1 Lot
7	Tube Settling Tank	MSEP hopper-bottom tank with tube modules for sludge settling	1 No. / FourWin
8	Settling Media	PVC hexagonal/square, 1 mm thick, 0.75 m length, max temp 55°C	1 Lot
9	Sludge Recirculation Pump	Centrifugal, CI body, direct-coupled motor, NRV & strainer	1 No.
10	Sludge Disposal System	MSEP unit for efficient sludge handling	1 No. / FourWin
11	Chlorine Dosing System	6 LPH @ 4 kg/cm ² , PP head, Teflon diaphragm, HDPE tubing, adjustable flow	1 No.
12	Filter Feed Pump	Horizontal Monoblock	1 No. / Kirloskar/Equi.
13	Pressure Sand Filter	FRP, graded media, MPV valve	1 No.
14	Activated Carbon Filter	FRP, activated carbon, MPV valve	1 No.
15	Piping	Air – MS/UPVC; Liquid – UPVC	1 Lot / Astral, Tata, Jindal
16	Pressure Gauges	Bourdon type, 2.5" dial, installed at all pumps, blowers, vessels	1 Lot
17	Control Panel	Floor-mounted, CRCA sheet 14 SWG, powder-coated, MCBs, contactors, meters, indicators	1 No.
18	Cabling	Armoured/unarmoured as required, Polycab /Incab/Equivalent	1 Lot

FourWin Water Softener



Product Overview

◆ System Description

The FourWin Water Softener Plant is designed to effectively treat hard water by removing excess calcium and magnesium, which cause scale formation, soap inefficiency, and pipe clogging. Using the ion exchange process, hard water ions are replaced with sodium ions, producing soft water suitable for household, industrial, and commercial applications.

◆ Stages:

- **Softening Cycle:** Hard water passes through ion exchange resin, where calcium (Ca^{2+}) and magnesium (Mg^{2+}) ions are replaced with sodium (Na^+) ions, producing soft water.
- **Regeneration Cycle:** Brine solution (salt + water) flushes the resin, restoring sodium ions and removing collected hardness, preparing the resin for the next softening cycle.

◆ Key Features

- **Automatic Regeneration:** Self-maintaining system with timely resin regeneration.
- **Compact Design:** Skid-mounted, space-saving, and easy to install.
- **No Civil Work:** Ready-to-use system requiring minimal setup.
- **High Reliability:** 95% system reliability with long-lasting resin life.
- **Protects Surfaces & Skin:** Prevents white spots, paint damage, and dryness.
- **Extended Appliance Life:** Prolongs life of water-using equipment.
- **User-Friendly:** Integrated display, easy salt refill, and high flow rate for efficient operation.

◆ Technical Specifications

SNo	Equipment	Specification / Key Features	Quantity / Make
1	Softener Feed Pump	Monoblock centrifugal, 3 phase	1 No. / KBL, CG, CRI or Equivalent
2	Salt Dosing System	Electronic diaphragm operated, 0–6 LPH @ 4 kg/cm ² , 0.025 kW, 200 L LDPE tank	1 No. / E-dose, Minimax, Equivalent
3	Media Vessel	In FRP, 25 NB pipeline	Pentair, Aventura, Equivalent
4	Softener Media Filter	Polystyrene Divinylbenzene Resin	As per TDS
5	Interconnecting Piping & Fittings	White PVC Sch. 40, UPVC air & other piping	1 Lot / Ashirwad, Astral, Equivalent
6	Electrical Instruments	Automatic multiport valves	1 Lot / Initiative, Pentair, Equivalent
7	Electrical Control Panel	MCC starter, FRP panel, ON/OFF & trip buttons, single-phase protection, flexible cabling	1 No. / FourWin
8	Cabling	As per requirement	1 Set – Finolex / Polycab

FourWin Industrial RO Plant



Product Overview

◆ System Description

The FourWin Industrial RO Plant efficiently removes dissolved salts, hardness, and impurities from water, delivering high-quality, low-TDS water for industrial use. With a compact, skid-mounted design and fully automatic operation, it ensures reliable, low-maintenance, and continuous water purification for industries like boilers, cooling towers, and food processing.

◆ Stages:

- **Feed Water Intake:** Pre-treated water enters the RO system.
- **High-Pressure Pumping:** Water is pressurized to overcome osmotic pressure.
- **Membrane Filtration:** Semi-permeable membranes remove 95–99% dissolved salts and impurities.

- **Permeate Collection:** Purified water is collected for use.
- **Reject Disposal:** Concentrated reject water is discharged or recycled.

◆ Key Features

- **Chemical-Free Purification:** Removes salts and harmful impurities without chemicals.
- **TDS Reduction:** Lowers total dissolved solids, making water suitable for drinking and industrial use.
- **Removes Contaminants:** Eliminates bacteria, algae, heavy metals, and other harmful substances.
- **Simple & Low Maintenance:** Easy to operate, modular design allows future expansion.
- **Effective Pollutant Removal:** Treats both inorganic and organic contaminants efficiently.
- **Ambient Operation:** Works at normal temperature, reducing scale formation and corrosion.
- **Compact & Skid-Mounted:** Space-saving design fits easily in any location.
- **High Reliability:** 95% dependable system suitable for brackish, tap, and sea water.

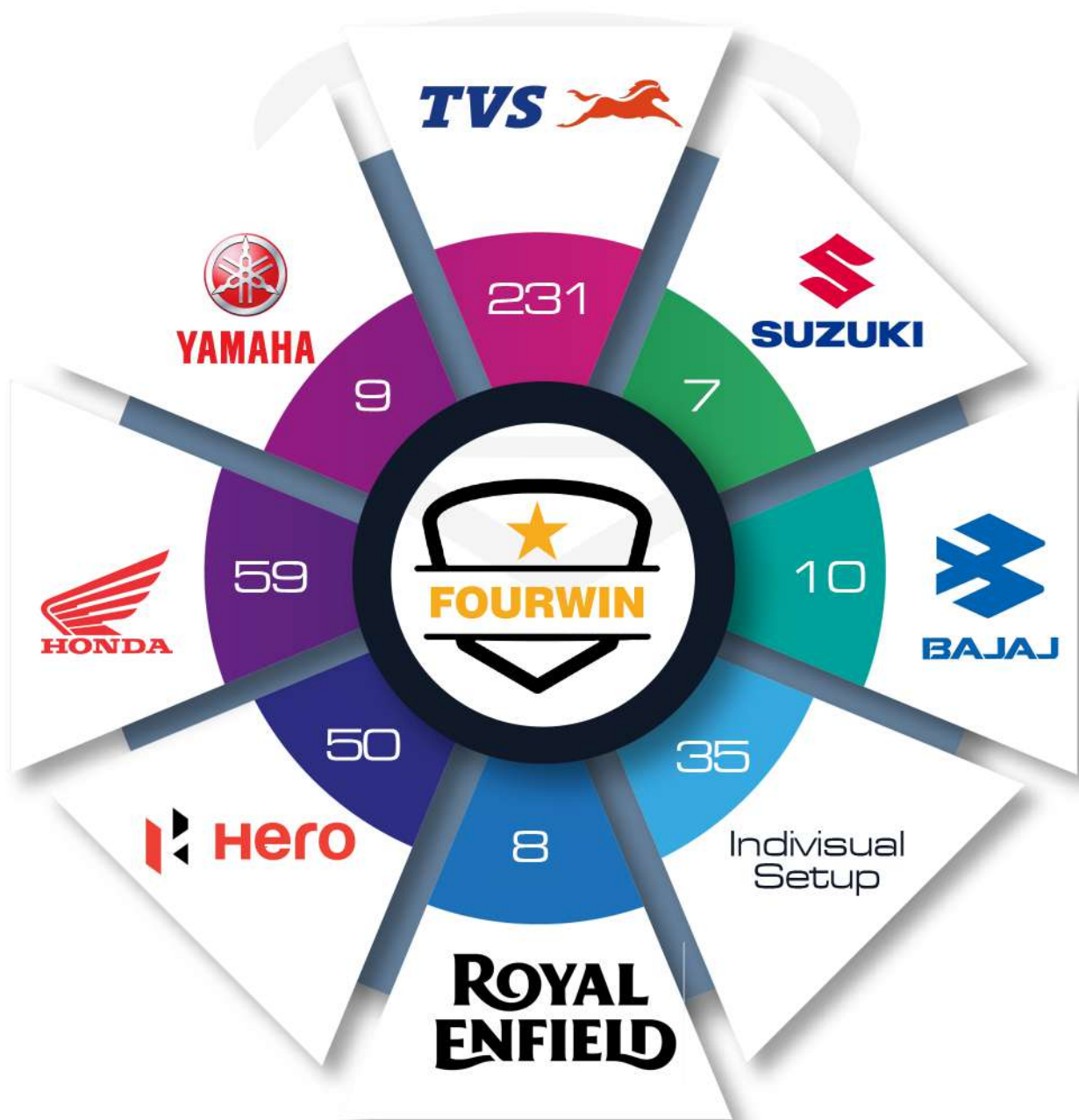
◆ Technical Specifications

SNo	Equipment	Specification / Key Features	Quantity / Make
1	Raw Water Pump	Monoblock centrifugal, 3 phase	1 No. / CNP
2	Sand Filter	Media: Graded Sand, Vessel: FRP, Backwash: 10 min	1 Lot
3	Activated Carbon Filter	Media: Activated Carbon IV 900, Vessel: FRP, Backwash: 10 min	1 Lot
4	Anti-Scalant Dosing System	Tank: PP, Capacity: 30 L, Pump: Solenoid diaphragm type, Chemical: RO Anti-Scalant	1 Set / EDOSE or Equivalent
5	RO High-Pressure Pump	Vertical Multistage, Power: 2 HP (1.5 kW), 3 Phase	1 No. / CNP, CV or Equivalent
6	Reverse Osmosis Membrane	Spiral Wound Polyamide, Salt Rejection: 97.5%, Permeate: 500 LPH, Recovery: 45–55%	1 Set / Hydranautics, CSM, DOW or Equivalent
7	Micron Filter	Type: LDPE/PP, Cartridge Rating: 5 micron, Housing: PP	1 Set
8	Interconnecting Piping & Fittings	Material: White PVC Sch. 40, Valves: Ball & NRVs, Air & Liquid Piping: UPVC, Puddle Flanges: 1 Set, Skid-mounted	1 Lot / Ashirwad, Astral, Equivalent
9	Electrical Instruments	Automatic Multiport Valves, Pressure Gauges: 2, High Pressure Switch: 1, Low Pressure Switch: 1, TDS Meter: 1, Level Switch: 2, Reject Control Valve: 1, Rotameter: 2	1 Lot / Initiative, Pentair, Equivalent
10	Electrical Control Panel	PLC-based Semi-Automatic MCC, FRP, ON/OFF & Trip Buttons, Single Phase Protection, Flexible Cabling	1 No. / FourWin; Cabling: Finolex, Polycab or Equivalent
11	Raw Water Pump	Monoblock centrifugal, 3 phase	1 No. / CNP

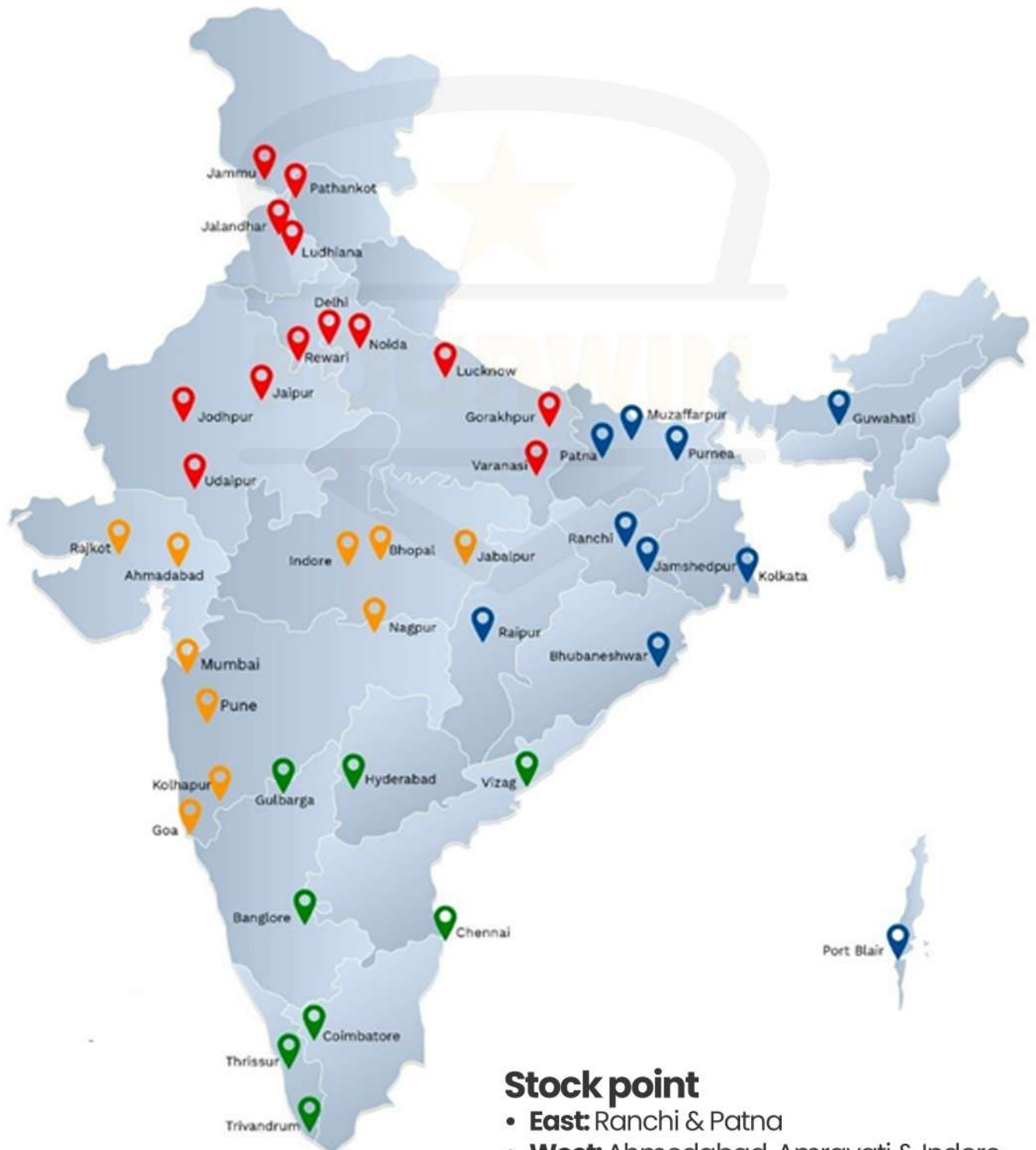
Our Installation in 4-Wheeler OEM



Our Installation in 2-Wheeler OEM



FourWin Service Support



Stock point

- **East:** Ranchi & Patna
- **West:** Ahmedabad, Amravati & Indore
- **North:** Ghaziabad & Lucknow
- **South:** Cochin & Bangalore

Global Map



At Treo Engineering Pvt. Ltd., Innovation Knows No Borders

With a strong base in India, Treo Engineering delivers world-class vehicle wash solutions across Asia, the Middle East, Africa, and beyond. Our Automatic Touchless and Brush-type Car Wash Systems are trusted globally for their quality, reliability, and sustainable performance —making us a preferred partner for modern wash setups worldwide.

Where You Can Find Us

- **India** – Headquarters and Pan-India installations
- **United Arab Emirates** – Regional partnerships and car wash systems
- **Saudi Arabia** – Middle East expansion through turnkey solutions
- **South Africa** – Growing footprint in sustainable vehicle wash systems
- **Nepal, Bangladesh, Sri Lanka** – Reliable presence in South Asia
- Ongoing collaborations in **Europe** and **Southeast Asia**

Partnering Beyond Borders

Focused on innovation, customer satisfaction, and eco-conscious engineering, Treo Engineering continues to build lasting global relationships. Our presence reflects not just the reach of our products, but the impact of our values.

Our Manufacturing Unit & Inhouse Team

Our Manufacturing unit is based at Survey No.87/4C, New bye pass road, vitthalnagar, Dehu, Pune - 412109, Maharashtra, India having an area of 18000 sqft area.



Business Segment



Automobile Industry



Manufacturing Industry



Real Estate



Bus Depots



Food Processing Industry



Hotels & Restaurants



Pharmaceutical Industry



Oil & Gas Industry



Paper & Pulp Industry



Mining Industry



Textile Industry



Marriage Halls & Banquets



Chemical Industry

Let's Connect



Fourwin stands apart through:

- **Proven Expertise:** Over a decade of industry leadership.
- **End-to-End Support:** Installation, training, and maintenance.
- **Sustainability Focus:** Water recycling and eco-friendly consumables.
- **Competitive Pricing with Superior Value** - no compromising on quality equipment.
- **Scalable Production Capacity** - Our advanced manufacturing infrastructure supports high-volume orders, ensuring timely delivery even on large-scale export demands.
- **Global Quality Standards** - meets international quality and safety standards, ensuring reliable performance across global markets.

We invite you to collaborate with a partner committed to elevating efficiency, reducing costs, and future-proofing your operations.

Contact us to explore customized Solutions for our business.

Company Name : Treo Engineering Pvt Ltd

Office Address : Plot No. 54 / 55, 2nd Floor, H-Block, MIDC Pimpri, Pune -411018, Maharashtra, India.

Factory Address : Survey No. 87/4C, New ByPass Road, Vitthalnagar, Dehu, Pune — 412109, Maharashtra, India

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CIN No. : U29190PN2009PTC134901

Website : www.treo.co.in

Mail Id : service@treo.co.in | sales@treo.co.in

contact No : +91 8408002080 | +91 8408002040

