



ARD GROUP/ RAP ECO MOTORS



Manufacturers of Petrol Three Wheelers & Electric Vehicles

Welcome to ARD Group

- **ARD** Group is in existence from more than 25 Years in the field of trading & manufacturing. ARD Group is an 100% Export Oriented Unit came into existence in 2004 & have started manufacturing of **“THREE WHEELER PASSENGER AUTO (Petrol/Diesel) & PICK-UP VAN” 4 Stroke with its Brand name “STAR / IND- STAR ”** The unit has well-trained technical team & we also have a state of the art manufacturing unit at Cherlapally which has a capacity to manufacture 1000 autos per month.



VISION

To become a world class company in the automobile industry.

MISSION

Continuous improvements in meeting all requirements through excellence in the transformation process.

CORE VALUE

Commitment to Quality

Growing Together With Clients.

Striving For the Best.

Respecting Each Others as Members of the Team.

Responsive To Changes

At ARD we strongly believe that with us

“ EVOLUTION IS THE WAY OF LIFE”

We are exporting 3 wheelers to 17 different countries for the past 15 years providing them with excellent products and world class services.



Peru



Belize



Bangladesh



Nepal



Tanzania



Ghana



Egypt



Sierra Leone



Ethiopia



Nigeria



Japan



Brazil



United kingdom



Sri Lanka



Kenya



Netherlands



Italy

- **ARD GROUP** manufactures quality three wheeler passenger auto, and Pick up Cargo models (Petrol/ Diesel/ Gas) automobiles and a semi automated assembly line in, Hyderabad that possess a manufacturing capability of over 1000 auto's per month.



MODELS OF PETROL VEHICLES



ARD MAX



ARD 205 RE



ARD KING

PRODUCT QUALITY AND STANDARDS

Being a manufacturer and exporter of 3 wheelers for around 25 years we take pride in our product quality and the product goes through a number of processes to maintain the quality of the vehicle ensuring longer life of the vehicle, and also we always strive to lift its quality benchmark to the next level.

Our product was certified by **SGS** and **Bureau Veritas** and meets their certification standards.



INFRASTRUCTURE



Our state of the art factory is the major reason for maintaining our quality in the product



PROCESSES TO MAINTAIN QUALITY



7 tank chemical treatment
for rust removal and
corrosion resistance

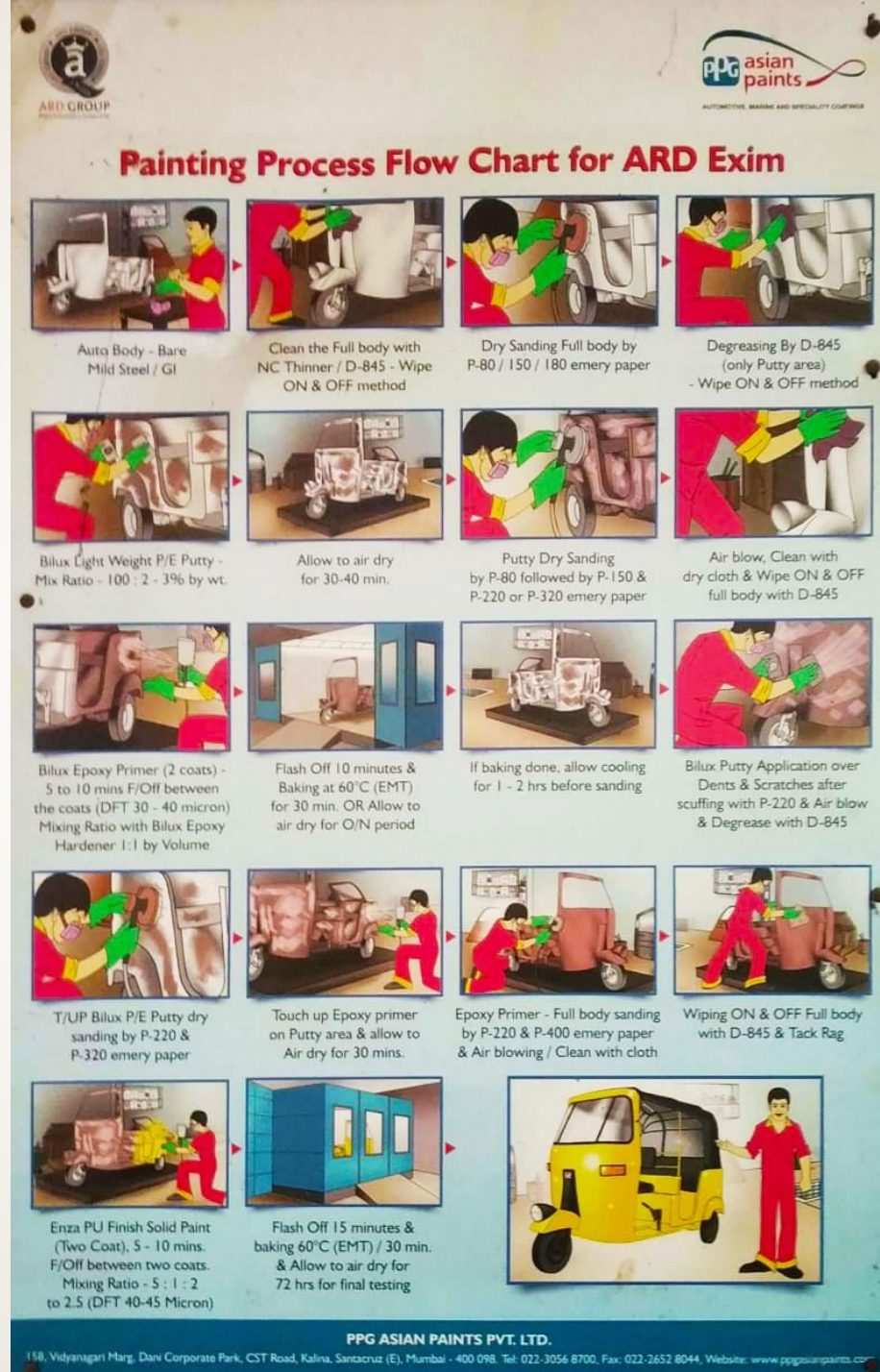


- Degreasing
- Water wash
- Derusting
- Water wash
- Surface activation
- Zinc phosphating
- Passivation.

Semi automated assembly
and sub assembly line
provided with pneumatic
tools



- 60 foot semi automated paint booth inclusive of a heating and cooling chamber for excellent finish of the product



ELECTRIC- VEHICLES IN INDIA

- The assurance by Prime Minister Narendra Modi that internal combustion engine (ICE)-powered vehicles will stay, as India's market is big enough to accommodate both these and cleaner technologies like electric vehicles (EVs), is big relief for automobile makers.
- In response to a question in the Rajya Sabha, the Ministry of Road Transport and Highways led by Union Minister Nitin Gadkari listed all the steps taken by the government to promote the use of electric vehicles in the country
- The Narendra Modi led BJP-NDA government is planning to curb the pollution by giving a major push to electric vehicles in India. As per a report on CNBC-TV18, government sources have informed that the Nitin Gadkari led Ministry of Road Transport and Highways has started working on a draft notification proposing to ban all the IC engine powered two-wheelers and three-wheelers in India starting 2025 for two-wheelers and 2023 for three-wheelers.

ARD GROUP AND ELECTRIC VEHICLES

- Seeing the electric 3 wheelers sales go up in India we have decided to make our entrance in the market by launching our first electric auto RANIE.
- RANIE as the name states is queen of all the rickshaws' in quality and performance.
- Our electric auto **RANIE** is ARAI approved in the L1 segment .



OUR PRODUCT AND THE EVOLUTION OF E-RICKSHAW



HANDLE RICKSHAWS



ELECTRIC RICKSHAWS



RANIE

ELECTRIC AUTOS

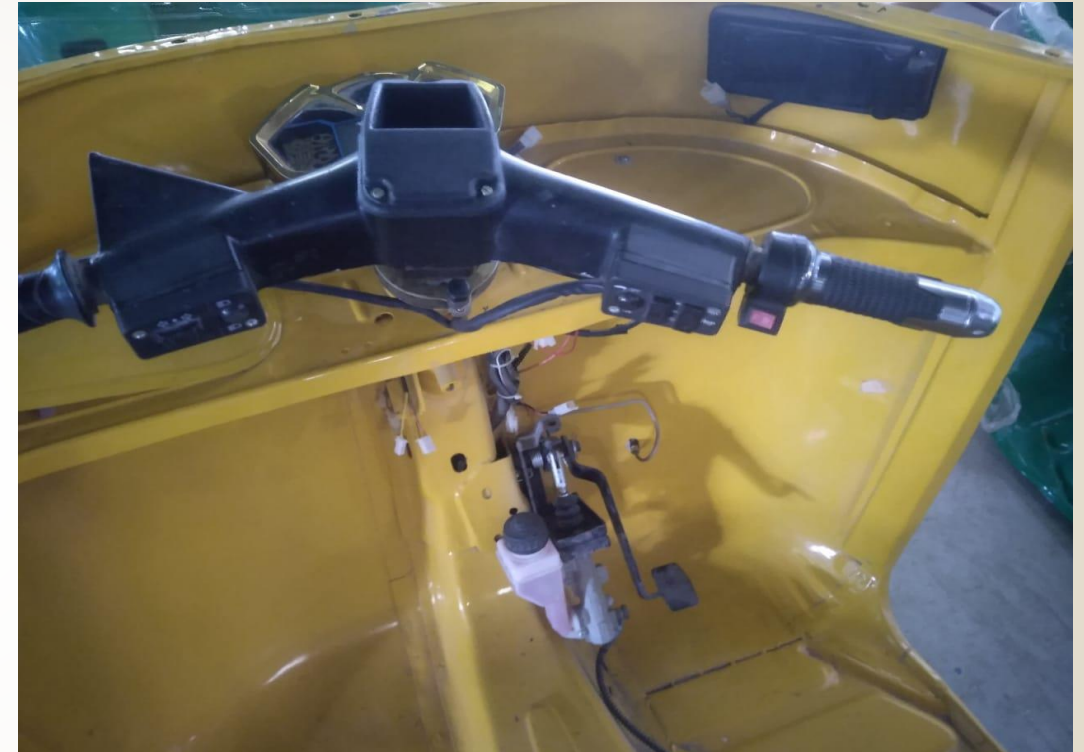
RANIE INDIA'S FIRST E-AUTO

- Being an exporter of 3 wheelers we take pride in our quality and performance of the vehicle.
- we also take pride in saying our machine is totally Indian and all manufactured in-house in our state of the art setup at our manufacturing unit





**HELICAL SPRING + HYDRAULIC
SHOCK ABSORBER WITH ANTIDIVE**



**COMFORTABLE AUTO HANDLE WITH
LOCKABLE GLOVE BOX & HYDRAULIC
MASTER CYLINDER BRAKING SYSTEM
FRICTION SHOE EXPANDING TYPE.**



**RIGID AXLE, LEAF SPRING &
SHOCK ABSORBER WITH HELICAL
SPRINGS**



**DUAL COLORED COMFORTABLE AND
SPACIOUS SEATS**

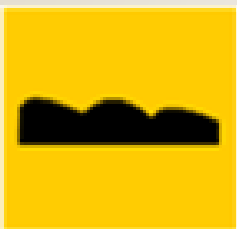


**RIGID AXLE, LEAF SPRING & SHOCK
ABSORBER WITH HELICAL SPRINGS**



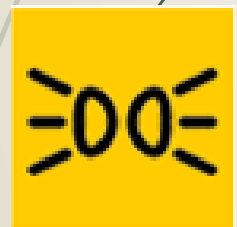
**HYDRAULIC MASTER CYLINDER BRAKING
SYSTEM DISC BRAKE**

FEATURES



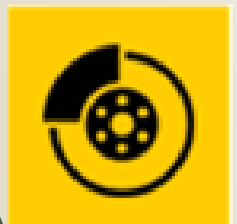
UNEVEN TERRAIN

Owing to the secure/steady design feature of mounting the front wheel on trailing link type suspension and providing the rear wheels with leaf spring and shock absorber it align themselves to the rough terrain and gives a comfortable ride.



PARKING BRAKE

The parking brake indicator light helps the operator know that the brake is on. This is useful on an incline, while stopping, starting and parking



HYDRAULIC BRAKING SYSTEM

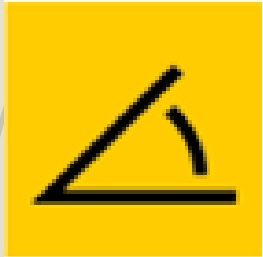
The front and rear brakes are fitted with hydraulic cylinders which helps in applying brakes effortlessly and are very effective in emergency braking also, accompanied with a powerful hand brake.

FEATURES



REVERSE DRIVING

Reversing a vehicle has never been easier, just flick a switch and the vehicle begins to reverse effortlessly. This has been accompanied with a reverse buzzer for safe and accurate driving.



INCLINE MANAGEMENT

This vehicle can smoothly handle inclines of up to 15 degrees.

RANIE-L CARGO

A revolutionary new range of electric three wheelers. Powered by lead acid and Lion, RANIE-L will change the world of three wheeler cargo vehicles , it offers increased savings, superior weight carrying capacity and best-in-class comfort for drivers , along with zero emission technology, for a better tomorrow.



The RANIE-L is an electric three-wheeled goods carrier made to positively impact the lives and livelihoods of its owners and drivers. It's the only vehicle of its kind with a 12-month warranty, and designed to make the loading, moving, and unloading of small cargos easier and faster. It's hardy frame handles oversized and tall loads with ease, and is available in custom colors



RANIE E-DELIVERY VAN

A more efficient way of delivering the required goods or product to the customer, An electric delivery van solving all the delivery solutions for short distance deliveries, The zero emission vehicle is not only energy efficient, but also way cheaper than a conventional auto rickshaw.



FEATURES

Extremely Strong Body; Built for carrying heavy load; Super Strength Motor; Customization available ;Service Provided all over India; Environment friendly; Tons of Storage space; Fire and corrosion resistant body; Better handling and better stability; Attractive everlasting colors; Advertisement space



TECHNICAL SPECIFICATIONS- RANIE

VEHICLES DIMENSIONS & WEIGHT:-

VEHICLE CATEGORY	ELECTRIC RICKSHAW
SEATING CAPACITY	D + 4 (DRIVER = 4 PASSENGER)
DIMENSIONS - LENGTH * WIDTH * HEIGHT	2755* 995 * 1710
WHEEL BASE - mm	2140
TURNING RADIUS - m	2.8
VEHICLE KERB WEIGHT - kg	358
GROUND CLEARANCE - mm	190



ARD GROUP



PERFORMANCE:-

TOP SPEED - km/h	24.5
CERTIFIED RANGE - km	125
TYPICAL DRIVING RANGE - km	110
GRADEABILITY - DEGREE	15

BATTERY: -

BATTERY TYPE - VOLTAGE	LEAD ACID / Lithium 48 Volts
BATTERY CAPACITY (INSTALLED) - kWh	120AH (140AH)/ 100 AH
CHARGING TIME 0-100% @ STANDARD CONDITIONS	7 - 8 HRS / 3.5 hours
BLDC MOTOR	1200 WATTS



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DRIVE TRAIN:-

PEAK POWER - Kw	2.25
PEAK TORQUE - Nm	17.5
TRANSMISSION TYPE	DIRECT DRIVE

SUSPENSION & BRAKES: -

SUSPENSION - FRONT	HELICAL SPRING + HYDRAULIC SHOCK ABSORBER WITH ANTIDIVE
SUSPENSION - REAR	RIGID AXLE, LEAF SPRING & SHOCK ABSORBER WITH HELICAL SPRINGS
BRAKE - FRONT / REAR	HYDRAULIC MASTER CYLINDER
	FRONT: FRICTION SHOE EXPANDING TYPE; REAR:DISC BRAKE

ROOF TYPE	Weather resistant artificial leather canopy
WARRANTY	One YEAR OR 30000 km/OEM warranty applicable for batteries.
BODY TYPE	Full metal body
WIND SCREEN & WIPING SYSTEM	Yes
SPARE WHEEL PROVISION	Yes
DRIVING MODES - LMH (LOW MEDIUM HIGH) SPEED	Optional
LOCKABLE GLOVE BOX	Yes
GRAB HANDLES	Yes
12V HANDLES	Optional
HAZARD INDICATORS	Optional
TELEMATICS UNIT & GPS	Optional



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Address: Survey no 312, Rampally Main Road, Rampally, Hyderabad, Telangana 501301, India

Contact us at: rapmotorsindia@gmail.com; sales@ardgroup.co.in

(Ph No: +916300744755; Whats app no:+917799844247)

Website: <https://rapmotorsindia.business.site> ; <https://www.ardgroup.co.in/>