Complete Power packed Telematics solution for Tracking and Monitoring

All Vehicle Tracking Solutions Under One Roof

www.itriangle.in
Executive Summary

Geography
A Bangalore, India, based Company.

Company Inception
Commenced operations in February 2009...

Core Competence
Engaged in Design, Development in the domains of GPS, GIS, Mobile Applications, RFID, Web Based Enterprise Applications.

Manufacturing
Manufacturing of GPS-GSM-RFID-Sensor based Tracking and Monitoring Systems.

Research
A Full Fledged R & D wing with a dedicated team of qualified professionals.

Services
End to End Solution Providers in the field of Telematics that includes hardware, software and cloud/mobile based applications for various domains. Technology Consulting Services.
To be a vibrant company, providing quality and efficient service to customers and a rewarding experience to its employees.

OUR VISION

We will develop products and provide services that will have a Strong Social Impact and would improve the quality of Human Life. From a business perspective, our products/services will help our clients get a better control over their business and make a positive impact to their bottom-line.

OUR MISSION
Market Information

**Economy**
The Transportation and the Logistics industry play a critical role in shaping and improving a Country’s economy. Efficient Operations will lead to higher productivity and higher revenues.

**Productivity**
GPS-GSM-RFID based solutions will help Companies to effectively track and monitor the movement and the status of their fleet on a real time basis and thereby reduce malpractices, wastage, and thus improve productivity and security.

**Benefit**
The ability to provide Safety, Security and Productivity has made the GPS-GSM-RFID based products and services an integral part of the managing process of the Fleet in any organisation which intends to derive maximum benefit from their assets.

**Recommended**
We are moving to a situation where it is going to be mandatory for all the Vehicles that are being used for a commercial purpose should have a GPS based tracking device fitted into them.
Market Opportunities

Telematics & IoT ($15B)

Automotive ($300M**)

Global IoT Healthcare ($162B***)

- **Existing Products**
  - Fleet Management Systems
  - Connected Car (OBD II)
  - Taxi Rental Aggregator App
  - Analytics and Modelling
  - Usage Based Insurance

- **Upcoming Products (next 3-6 months)**
  - Personal Tracking and Safety
  - Wearable Health Monitoring
  - Mobile Data Terminal

- **Roadmap**

# Total Addressable Market (TAM): $6 Trillion

*Geographies Served* Customers

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**6W Research, [India Telematics Market (2014 – 2021) Market Forecast](https://www.6wresearch.com/Mobile-Telecom/India/Telematics-Market-India.html)*


Hardware Product Offerings
Vehicle/Asset Tracking and monitoring:

We have developed a next generation GPS tracking platform on which, a variety of products for different markets like transportation, asset tracking, geographical data acquisition, fleet management etc can be developed. The technology involves GPS, GSM, RFID and various sensors with web based control, tracking, and monitoring facilities on a Google map interface. It’s even possible to acquire data pertaining to the remote entities to which the tracker device is attached.

By extending the platform, we have developed a complete vehicle and fleet management solution in the brand name of aQuila Track, loaded with a complete range of applications and features that increases the business efficiency, productivity and the bottom-line of our Customers.
Vehicle Tracking and Monitoring Software Application Features

www.aquilatrack.com
Vehicle Tracking and Monitoring System

- Interactive Dashboard
- View Vehicle on Map
- Current Summary
- Live Tracking
- Locate Vehicles
- Travel Replay
- History Tracking
- MIS Reports
- Account Management
- Group Vehicles
- Driver Registration & Management
- Over Speed Limit
- Geo-Fence settings
- Alert Management
- Configure Email/SMS alerts for Panic button, A/c status, Halt & Stop, Geo-fence violation and Over speed alerts
- Route & Trip Management
View Vehicles on Map

- Total Tracking Vehicles: 25
  - Running: 15
  - Offline: 1
- Total Non-Tracking Vehicles: 2
  - No Data: 0
  - Idle: 0
  - No GPS: 0
  - Device Dead: 1

Select All

<table>
<thead>
<tr>
<th>VLPN</th>
<th>Last Tracked Time</th>
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<td>2016-11-02 18:08:44</td>
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<tr>
<td>KA25F9060</td>
<td>2016-11-02 17:35:06</td>
</tr>
<tr>
<td>KA26F934</td>
<td>2016-11-02 18:08:15</td>
</tr>
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<td>KA22F1839</td>
<td>2016-11-02 17:35:57</td>
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<tr>
<td>KA22F2034</td>
<td>2016-11-02 18:08:53</td>
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<tr>
<td>KA22F2070</td>
<td>2016-11-02 18:08:19</td>
</tr>
<tr>
<td>KA23F9568</td>
<td>2016-11-02 18:08:11</td>
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<tr>
<td>KA23F9701</td>
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<tr>
<td>KA23F923</td>
<td>2016-11-02 18:08:43</td>
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</table>
Current Summary (Vehicle Snapshot)
Locate Vehicles
Travel Replay

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Travel Replay

Select Vehicle ▼ Date: ▼ From Time: ▼ To Time: ▼ Select Vehicle

Route Information

<table>
<thead>
<tr>
<th>Start Time</th>
<th>End Time</th>
<th>Start Location</th>
<th>End Location</th>
</tr>
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<tbody>
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<td>19:06:27</td>
<td>Unamod Road, Sai Nagar, Hubli, Karnataka 580021, India</td>
<td>State Highway 69, Karnataka 581349, India</td>
</tr>
</tbody>
</table>

Travel Information

Packet NO: | Time | Location | Cumulative Distance |
|-----------|------|----------|---------------------|

Map of travel route from Unamod Road, Sai Nagar, Hubli, Karnataka 580021, India to State Highway 69, Karnataka 581349, India.
Tracking History
MIS Reports
## MIS Reports

<table>
<thead>
<tr>
<th>Basic Reports</th>
<th>Advanced Reports</th>
</tr>
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<tbody>
<tr>
<td>1. Daily Report</td>
<td>1. Fuel Graph and Fuel Report *</td>
</tr>
<tr>
<td>7. Geo fence violation Report</td>
<td></td>
</tr>
<tr>
<td>8. Panic Alert Report **</td>
<td></td>
</tr>
</tbody>
</table>

- Available with fuel probe sensor
- ** Optional at extra cost
## Driver Management

### Fleet Management System

ISO 9001 : 2008 Certified

#### Track
- Vehicle(s)
- Reports
- Account Management
- Vehicle Management
- Alert Settings

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A monthly maintenance and service charge have to be paid on time. Failure to do so will result in disconnection of tracking services. Please contact your Account Manager.

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### Register Driver

Now, get your vehicle's Location by sending a simple SMS for more details. Click here.

---

<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>Contact No</th>
<th>Licence No</th>
<th>Start Time</th>
<th>End Time</th>
<th>VLPN</th>
<th>Shift</th>
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<th>Associate to</th>
<th>Latest Asset Time</th>
<th>Latest Asset Time</th>
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<td>B A Mahrendra</td>
<td>9140385955</td>
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<td>C S Nayakar</td>
<td>8970061488</td>
<td>63745</td>
<td>06:20:00</td>
<td>09:00:00</td>
<td>K2A 9599</td>
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</tr>
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<td>4</td>
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<td>2</td>
<td>R R Mingevar</td>
<td>9480469490</td>
<td>810</td>
<td>08:35:00</td>
<td>22:35:00</td>
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<tr>
<td>6</td>
<td>S S Puger</td>
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<td>568</td>
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# Over Speed Limit

## Fleet Management System

ISO 9001 : 2008 Certified

### Speed Limit Info

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<thead>
<tr>
<th>No.</th>
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<th>OVER SPEED LIMIT</th>
<th>EDIT SPEED LIMIT</th>
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<td>Edit</td>
</tr>
<tr>
<td>11</td>
<td>KA 25 F 934</td>
<td>82</td>
<td>Edit</td>
</tr>
<tr>
<td>18</td>
<td>KA25F1830</td>
<td></td>
<td>Edit</td>
</tr>
<tr>
<td>25</td>
<td>KA25F2054</td>
<td></td>
<td>Edit</td>
</tr>
<tr>
<td>9</td>
<td>KA22F2070</td>
<td></td>
<td>Edit</td>
</tr>
<tr>
<td>13</td>
<td>KA23F0668</td>
<td></td>
<td>Edit</td>
</tr>
</tbody>
</table>
Geo-fence Settings

![Geo-fence Settings](image-url)
Alert Settings

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Fleet Management System

ISO 9001 : 2008 Certified

Track Vehicle(s)  Reports  Account Management  Vehicle Management  Alert Settings

backup if necessary. IMPORTANT MESSAGE: Please note that the monthly maintenance and service charges have to be paid on time, before the due date. Failure to do so may lead to suspension of services.

Now, get your vehicle's location by sending a simple SMS for more details. Click here.

Overspeed Alert SMS / Email Settings

**Note:** It is under Text

<table>
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<tr>
<th>#</th>
<th>Vehicle ID</th>
<th>Speed Limit</th>
<th>Phone No 1</th>
<th>Phone No 2</th>
<th>Email</th>
<th>Records 1-7 of 27 exist</th>
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<tbody>
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<tr>
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<td>KA22F1830</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7 Entries Per Page  Page 2 of 4
Geo Tagging (Point of Interest)
Route and Trip Management
Trip Dashboard

All Vehicles Status

- Total Vehicles: 32
- 96.5% On Trip
- 3.5% Scheduled
- 8.3% Start Delayed
- 0% Destination Delayed
- 3% Off Trip

<table>
<thead>
<tr>
<th>VLPN</th>
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<th>Battery</th>
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<td>150304488</td>
<td></td>
<td></td>
<td>2016-02-19 08:50:49</td>
<td>Secondary</td>
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<tr>
<td>150308711</td>
<td></td>
<td>0104</td>
<td>2016-07-27 18:18:07</td>
<td>Secondary</td>
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<tr>
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<td></td>
<td>2016-08-27 03:14:05</td>
<td>Secondary</td>
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<tr>
<td>150301358</td>
<td></td>
<td>0345</td>
<td>2016-08-27 23:42:03</td>
<td>Secondary</td>
</tr>
<tr>
<td>150333937</td>
<td></td>
<td>0404</td>
<td>2016-08-25 13:54:52</td>
<td>Primary</td>
</tr>
</tbody>
</table>
Route Creation

[Map Image with start location in Bangalore, end location in Chennai]
Trip Creation

---

**Create Trip**

- **Select Vehicles**: Enter Vehicle
- **Select Route**: Select Route
- **Start Location**: Enter a location
- **End Location**: Enter a location
- **Start Time**: 27/10/2016 13:56:47
- **End Time**: 27/10/2016 13:56:47
- **Route Fencing**: Enabled
- **ETA (Estimated Time Of Arrival)**: Enabled
- **Trip Name / ID**: 

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*IMPORTANT MESSAGE: Please note that the monthly maintenance and service charges have to be paid on time, before the due date. Failure to do so will result in termination of the service.*
Trip History

<table>
<thead>
<tr>
<th>No</th>
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<th>Route Name</th>
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<th>Trip Created</th>
<th>Trip Start</th>
<th>Trip End</th>
<th>CSTA</th>
<th>ESTA</th>
<th>EGP Trip</th>
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<td>---</td>
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<td>2016-10-27</td>
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</table>
Trip Dashboard
Remote Fuel Monitoring
Remote Fuel Monitoring

Probe Based Fuel Monitoring

- A capacitive probe sensor shall be installed inside a Fuel tank of a Truck or a Bus.
- One time calibration of the Fuel Tank is done after installation of probe sensor.
- Accuracy is between 98-99%
- Detailed fuel reports
- The Probe Sensor has an initial capital investment, which might look expensive, but is accurate in its analysis and hence the Return on Investment (ROI) can be achieved in 1 or 2 months.

Fuel Probe Sensor
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Group</th>
<th>KA-53-B 4249</th>
<th>Month</th>
<th>Year</th>
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<tbody>
<tr>
<td>03/02/2015</td>
<td>23:53:24</td>
<td>112</td>
<td>26</td>
<td>114</td>
<td>30</td>
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</tr>
<tr>
<td>04/02/2015</td>
<td>23:57:24</td>
<td>26</td>
<td>102</td>
<td>120</td>
<td>196</td>
<td>State Highway 82, Hoskote, Karnataka 562114, India</td>
</tr>
<tr>
<td>05/02/2015</td>
<td>23:53:24</td>
<td>102</td>
<td>181</td>
<td>98</td>
<td>177</td>
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<td>06/02/2015</td>
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<td>181</td>
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<td>105</td>
<td>112</td>
<td>183</td>
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<tr>
<td>10/02/2015</td>
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<td>112</td>
<td>53</td>
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<tr>
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<td>23:44:02</td>
<td>74</td>
<td>169</td>
<td>108</td>
<td>203</td>
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<td>17/02/2015</td>
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Fuel Filling Graph

Fuel Graph

Fuel graph for the vehicle: KA-53-B 4248 Date: 9/2/2015
Fuel Consumption Graph

Fuel Graph

Fuel graph for the vehicle: KA-53-B 4248 Date: 24/2/2015
# Advance Fuel Report

## Fuel Reports

**Note:** There will be small variations in the values displayed because of the fluctuations in the graph. The fluctuations are because of bumpy road conditions.

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<th>Date</th>
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<th>End Time</th>
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<th>End Fuel Level</th>
<th>Fuel Consumed</th>
<th>Fuel Added</th>
<th>Fuel Added Locations</th>
<th>Distance(KM)</th>
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Advantage…….
Features may vary depending on the model and the variant

Small Form Factor

- Rugged form factor of 115L x 100W x 30H in mm
- Enables easy installation
- Can be installed even in two wheelers
- Completely concealed installation to protect from tampering.

High Accuracy GPS

- Location accuracy of 2.5 M @ 50% CEP.
- Glonass Support
- Can track even in GPS shadow areas (under bridges, indoor environment near windows etc)
- Best in class time to position fix: cold start duration of 39 Sec.
- Dead reckoning support

Power Optimization

- Power optimization based on ignition status.
- The tracking interval is automatically increased if the vehicle ignition is found to be OFF for more than 10 minutes. Reduces the load on the Vehicle battery and Server when the vehicle is in parked state.
- Sleep mode and Deep sleep mode available for battery optimization on small battery systems such as mopeds and bikes.

Internal Antenna

- GPS high gain internal antenna with -165dBi gain enables accurate tracking even with internal antenna and device hidden inside the dash board
- Internal high gain GSM antenna
- Completely hidden inside the dashboard.
iTriangle Advantage……..
Features may vary depending on the model and the variant

- **Internal Battery**
  - 700 mAh, Lion battery.
  - 6 to 8 hour tracking on battery when fully charged.
  - Parameter Configuration through USB interface.
  - Rugged Cylindrical battery with high MTBF.
  - Over Changing and Deep discharge protection.
  - Smart battery management enables long battery life.

- **Storage and forward**
  - The tracking information is first stored on the internal flash storage and then forwarded to server.
  - 20000 records space available on board.
  - Recorded data can be extracted offline through USB (special firmware required) if required.
  - Ensures zero data loss during GSM no coverage and communication failure, server downtime etc.

- **Parameter Configuration**
  - All parameters can be configured through USB or through SMS remotely.
  - IP address, Port number, domain name, tracking interval, admin phone number, alert phone number.
  - In built validation logic for type checking and correctness of configuration parameters ensures wrong parameters are rejected during configuration.
  - Pre configuration option available on request during manufacturing. Parameter specified by customers (such as IP, Port, Tracking interval etc) can be pre configured during manufacturing using bulk configuration process, so that effort configuration in the field can be avoided.

- **Server Connectivity**
  - Connect, transfer and disconnect type of communication, reduces the resources on the server per connection.
  - Connection interval can be separately configurable apart from tracking interval to balance the load on server.
  - Dual IP support (if required by customer, firmware upgrade required) for high availability.
  - Storage and forward architecture of data communication ensures that no data is lost during server failure, communication failure, or data congestion.
  - DNS support for seamless IP portability. Device can be configured with a domain name instead of an IP of the server for easy porting of devices from one server to another.
Features may vary depending on the model and the variant

**Communication and Data usage**

- Binary/ ASCII communication protocol ensures high packaging of data per session to reduce the size of data usage.
- Option for Text based protocol available on request, if required by system integrators/customers. (firmware upgrade needed).
- Works on TCP communication.
- Encrypted communication support (on request, firmware upgrade required) for high secure communication requirements.

**Integration & Customization support**

- To enable faster integration with client system, we provide a SDK with a multithreaded client server and protocol parser.
- SDK is available for both windows and Linux server.
- Provides a socket to HTTP bridge for quick integration.
- Protocol documentation provided for low level integration if required by the system integrator/customer.
- Customization support could be provided for large scale requirements.
Features may vary depending on the model and the variant

Accessories

- Speakers with built-in Amplifier
- Microphone
- Fuel Sensor
- Panic Button
- Immobilization Relay
- RFID Reader with Tags
WARRANTY

- iTriangle will provide One Year Limited Warranty, the scope of which is as follows:
- Accessories like Internal Battery and Wiring Kit and other related accessories will carry a Six Months’ replacement warranty.
- All Components and spares will either be serviced or replaced, during the warranty period.
- On field support will not be provided. The devices have to be sent to our Bangalore Office for services and repairs.
- All types of physical damage, damage due to extreme working conditions (Vehicle Battery Voltage range above 32 volts, Temperature above 70 degrees C and below – 20 degrees C), water logging will not be covered under warranty service terms.
- iTriangle shall provide training to the Client’s authorized personnel to handle L1 and L2 service.
- Any type of physical damage, sabotage or damage due to water log etc. (induced defects) shall not be considered under warranty, and customer shall bear the cost of the device and servicing.
- AMC options for L3 service are available.
Our Major Clients & Projects

- Bosch
- MapmyIndia
- UTOO
- OLA
- Uber
- Infosys
- Trimax
- Nissan
- Mysore Minerals Limited
- InfoTrack
- t4u telematics4u
Our Major Clients & Projects

Schools & Educational Institutions
- VDRIT, Haliyal.
- Cambridge Primary School, Lingasagur, Raichur.
- R T Nagar School, Bangalore.
- Malgudi Vidya Niketan, Bangalore.
- Kauliya Vidyalaya, Mysore.
- Gyanodaya Public School, Mysore.
- SLU School, Bangalore.
- CN National Public School, Bangalore.
- East Point, Bangalore.
- Purna Pramathi School, Bangalore.
- Euro kids, Davangere.
- BVM School, Bangalore.
- Gadag-Betageri City Municipal Council, Karnataka.
- Bangalore Metropolitan Transport Corporation
- North Western Karnataka Road Transport Corporation

Corporates & Others
- Bosch India Limited
- Infosys Limited
- OLA Cabs, Bangalore.
- Uber Cabs, Mumbai.
- Nandi Infrastructure Corridor Enterprises Pvt Ltd, Bangalore.
- Radiant Distributors, Bangalore.
- Goyal Sales Corporation, Hubli.
- Sonim Technologies, Bangalore.
- Mobily Infotech India Pvt. Ltd., Bangalore.
- Anuvarth Apparel, Bangalore.
- Medwinds Bioscience Pvt Ltd, Bangalore.
- Manpasand Manpower Pvt Ltd, Bangalore.
- Handa Transport, Hubli.
- Unitex Apparel Pvt Ltd, Bangalore.
- Gia Corp Care, Bangalore.
- Nearm IT, Hubli.
- Udupi Tours & Travels, Bangalore.
- GoGo International Pvt Ltd, Bangalore.
- Sun Multitek Enterprises, Bangalore.
- Nav Bharat Crane Service Pune.
- Unity Travels Bangalore. Sys Cabs Bangalore.
- K. Rajkamal Bangalore.
- G.S. Break Down Ahmadabad.
- Power Tech Call Centre LLP, Bangalore.
- Sys Cabs, Bangalore.
- United Associate Engineers, Bangalore.
- Creative Info Services, Bangalore.
- GW. Precision Tools Ltd, Bangalore.
- Nisarga Leisure & Travels Pvt. Ltd., Bangalore.
- Miles on Wheels, Bangalore.
- Technocon Constructions & Infrastructure, Bangalore.
- Wind World (India) Ltd., Bangalore.
- Traveelday Tours & Travels Bangalore.
- Rescue 24/7 Tow Services.
- Manjusree Car Rentals, Bangalore.
- Zen Power Technologies, Bangalore.
- Ayoni Technologies LLP, Bangalore.
- Charoen Pokphand Seeds Pvt Ltd, Bangalore.
- Navant Motors (BMW), Bangalore.
- Express Cargo, Bangalore.
- Maruthi Cement and Steels Pvt Ltd, Bangalore.
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- Infosys Limited
- OLA Cabs, Bangalore.
- Uber Cabs, Mumbai.
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- Navant Motors (BMW), Bangalore.
- Express Cargo, Bangalore.
- Maruthi Cement and Steels Pvt Ltd, Bangalore.

Govt. & Public Sector
- Bangalore Metropolitan Transport Corporation
- Bhubaneswar City Transport, Bhubaneswar.
- Central Coalfields Limited, Piparwar, Ranchi.
- Ordinance Factory, Ministry of Defence, Chanda.
- Ordinance Factory, Bhandara.
- 2rajrifles, MEG Bangalore.
- Dept. of Commercial Taxes, Karnataka.
- Dept. of Horticulture, Karnataka.
- Krishna Jala Bhagya Nigam Ltd.
- Municipal Corporation, Chintamani.
- Krushi Vigyanan Kendra, University of Agricultural Sciences, Bangalore.
- City Municipal Corporation, Chikkaballapur.
- City Municipal Corporation, Davangere.
- Gamra Bank.
- Air Force Station, Yelahanka.
- TMC, Bannur.
- Mysore Minerals Ltd, Bangalore.
- Gadag-Betageri City Municipal Council, Karnataka.
- Bangalore Metropolitan Transport Corporation
- North Western Karnataka Road Transport Corporation
- Bosch India Limited
- Infosys Limited
- OLA Cabs, Bangalore.
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- Navant Motors (BMW), Bangalore.
- Express Cargo, Bangalore.
- Maruthi Cement and Steels Pvt Ltd, Bangalore.

OEM/System Integrators
- Wipro, Bangalore.
- Trimaex IT Infrastructures & Services Limited, Mumbai.
- Tata Consultancy Services Ltd, Bangalore.
- Escorts Ltd. Faridabad
- Bayonet, Kenya.
- Argus Technologies LLP, UAE.
- Colosseum Tech Solutions Pvt Ltd, Hyderabad.
- Rolta India Ltd., Mumbai.
- Hinu Softtech, Bangalore.
- Infotrack Telematics, Bangalore.
- Pulsar Electronics, Mumbai.
- AC Tech Pvt. Ltd. Ahmedabad(Deployed at IOCL).
- Altech Ltd. Pune.
- Ragvik Technologies Pvt. Ltd., Gauhati.
- Telematics 4U, Bangalore.
- Verve Compusoft Pvt Ltd, Mumbai.
THANK YOU!
and we look forward to serve you

080-23180601