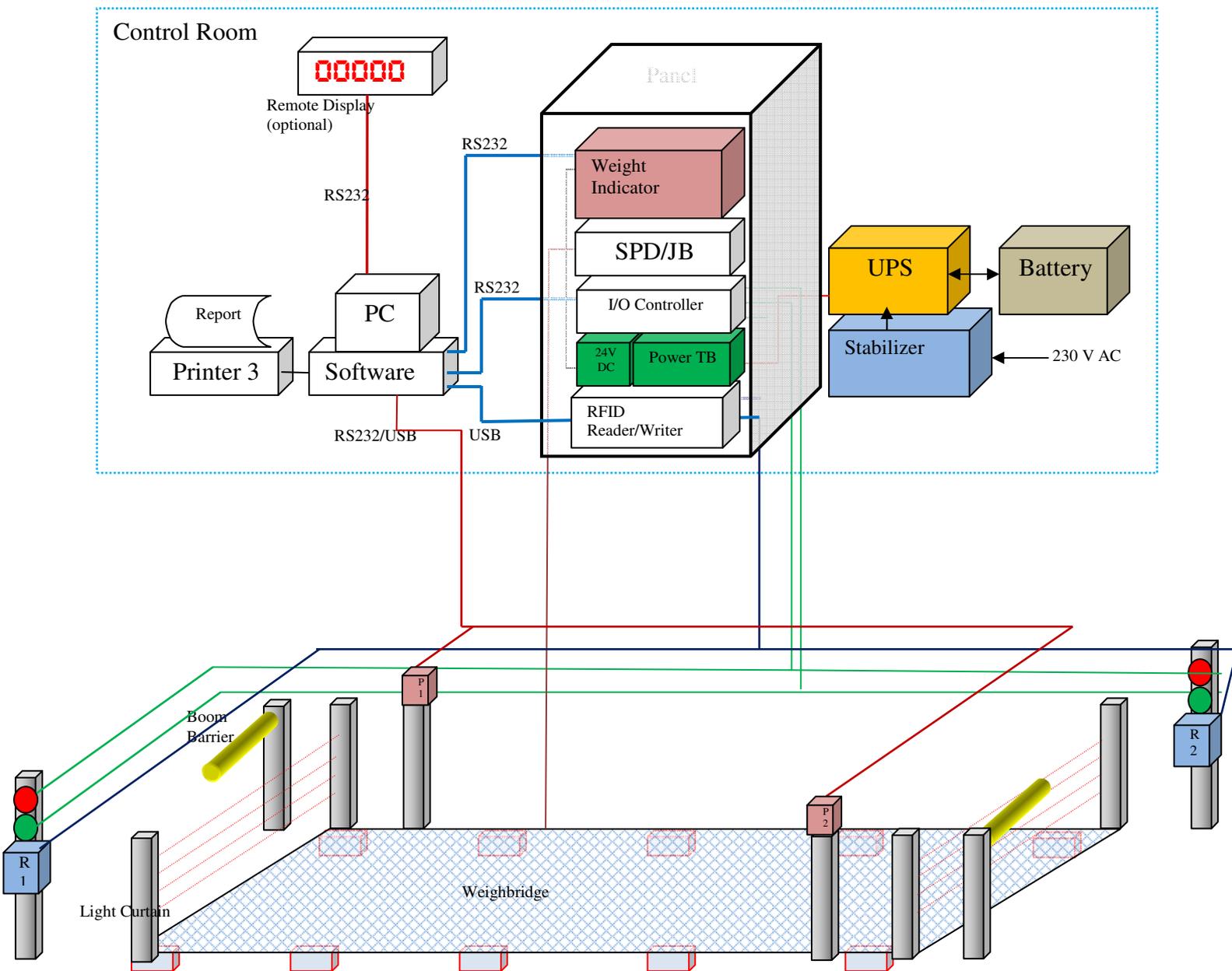


# Trucksoft – Truck Weighing & Automation System

## 1.1 System Overview



**Note:** - This system can be used for bidirectional vehicle movement and weighing.

1. Weight Indicator will be connected through RS232/USB (1)
2. IO Controller will be connected through RS232/USB (2)
3. R1 & R2 – RFID Antenna's/Card Readers 1 & 2 will be connected through RS232 (R2 is optional)
4. P1 & P2 - Micro/Thermal Printer 1 & 2 are connected through RS232 (3), it is limited to 15m (P2 is optional )
5. Printer 3 (Optional) – Laser Printer 3 connected through Parallel/USB for Reports Print
6. Red & Green LED lights (Optional) to give notification to the driver
7. Boom Barriers (optional) to allow the truck to enter into the weighbridge
8. Light Curtain (optional) to confirm the vehicle is placed inside the weighbridge

# Trucksoft – Truck Weighing & Automation System

## 1.2 Sequence of Operation

- ✓ Driver will drive the truck near to the weighbridge, the RFID/Smart card antenna will capture card information
- ✓ The PC software (Autoweigh) will capture the truck information from RFID/Smart card reader and check the card no. which is issued by authority (Truck Number, Tare Weight (optional), Material Code)
- ✓ If valid, the software will open the Boom Barrier. If not valid, the software will not open the Boom Barrier and ON the Red Light
- ✓ If Boom Barrier opens, Driver can move the truck to the weighbridge
- ✓ The Light Curtain (1m sensing height) will check the truck is placed at center of the weighbridge or not
- ✓ If the truck is positioned at center, the software will capture the gross/tare weight and print the slip, enable the output to PLC, PLC will give 24 VDC relay output to boom barrier to open the boom barrier, enable the Green LED which will confirm the Driver to leave the weighbridge

# **Trucksoft – Truck Weighing & Automation System**

## **1.3 Trucksoft – Truck Weighing & Automation Software**

Truck Weighing & Automation Software is application software for weighbridge vehicle weight management in the field of Mining, Logistics, Industrial Plants, Ports, and Roadways Industries as private and public usage. This software can be used in all type of vehicle weighbridges, axle weighbridges and wheel weighing pads. Autoweigh supports all type of transactions such as single, first & second, loading, unloading, entry gate, exit gate, multiple and dual scale weighing. The system is designed to accommodate the vehicle weighing processes using weight indicator in static mode of environment.

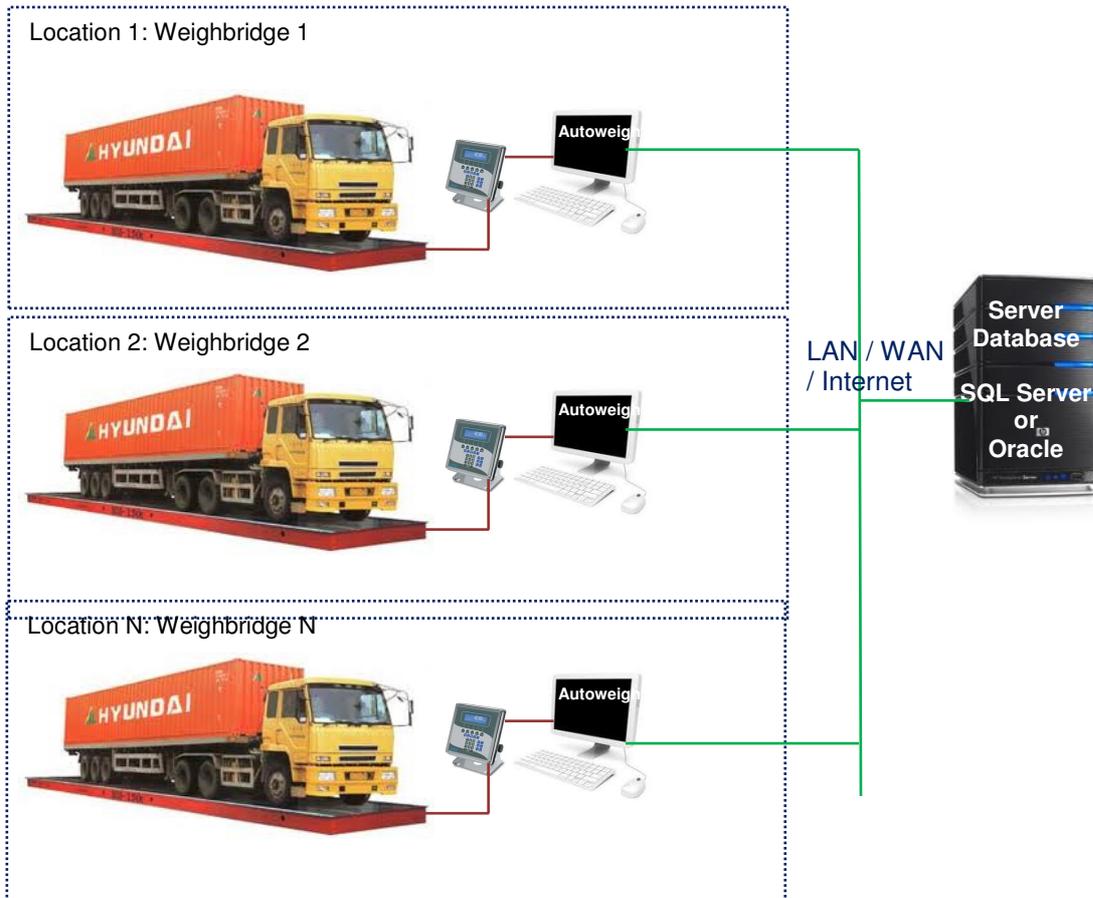
This system can manage regular weighment of all type of vehicles, data storage and printing weighment slip. In addition to weighment, system also generates vehicle, products, sources, destination, suppliers, driver, transporter, containers, custom fields, date, shifts, weighbridges and operator wise reports. Autoweigh having the features of data managements like invoicing, resource utilization, modify transaction of user entry, reprint slip, data upload and close pending transactions. Autoweigh contains the manageable master data for vehicles, products, sources, destination, suppliers, driver, transporter, containers, customers, resources, weighbridges, shifts, user master with privileges.

Autoweigh has the configurable custom user field, weight indicator, remote display, vehicle positioning, RFID reader/writer, ANPR, CCTV, Barcode scanner/printer, SMS, SMTP for email with attachment, text file location for SAP/ERP, price, unit and printer settings. This system provides the tools to users to change password, main screen picture, company address, ticket & report format design, software configuration as client or client and centralized or client and server data base, server configuration to set the server details, weighbridge configuration, to reset the ticket number and software online activation.

This system provides the diagnostic facility to weighbridge calibration and testing, weighbridge checking, system, settings and calibration reports. This system will have fat client architecture to transfer the weighment details into specified SAP, ERP, Cloud, Shared or Main server database in online and offline mode.

# Trucksoft – Truck Weighing & Automation System

## 1.3.1 Atoweigh for PC – Server Database



This system will store the all transaction details in Weighbridge PC and generate all reports. And also it can be stored all transaction in Server Database. The server database can be a customer's own server database (SAP/ERP).

The left screenshot shows the 'Settings' menu of the Trucksoft software. The menu items include: Transaction, Reports, Data, Masters, Settings, Tools, Diagnostics, Email, Logon, Help. The 'Settings' sub-menu is expanded, showing options like: Customize Fields, Weight Indicator, Remote Display, Controller Setting, Camera Setting, RFID Setting, Printer Setting, SMS Setting, Price & Unit Setting, SMIP & FTP Setting, Privilege Setting, Text & XML & CSV File.

The right screenshot shows the 'Transaction Details' window. It displays a large digital scale reading of '01 9300'. Below the scale, there is a table of transaction data:

Scale 1, kg	First (kg)	Second (kg)	Net (kg)	TransNo
01 9300	19300	0	19300	247

Below the table, there is a list of transactions with columns: TicketNo, Vehicle No, First, Second, Net, ProdID, Product, CustID, Cl.

TicketNo	Vehicle No	First	Second	Net	ProdID	Product	CustID	Cl
244	KA28JU8765	45000	0	45000	0	x	0	x
245	KA28JU8765	45000	0	45000	0	x	0	x
246	HR12HN6512	45610	0	45610	100	Iron Ore	0	
247	JK74KJ1000	45610	0	45610	200	Coal	800	Web

## Trucksoft – Truck Weighing & Automation System

### 1.4 BOM

<b>Sl.No.</b>	<b>Item Description</b>	<b>Manufacturer</b>	<b>Quantity</b>	<b>Unit Price</b>
1	Weighbridge	Reputed	1 No.	
2	Load cells	Reputed	1 set	
3	Weight Indicator	Reputed	1 No.	
4	Autoweigh Software	Mariansoft	1 No.	
5	PLC Controller	Mariansoft	1 No.	
6	Printer	Epson (any)	1 No.	
7	Light Curtain (1.25m height)	Cedes, <i>www.cedes.com</i>	2 Nos.	
8	Boom barrier	Raj Udyog <i>info@rajudyog.com</i>	2 Nos.	
9	Signal Light		2 Sets	
10	ANPR	Delopt <i>info@delopt.co.in</i>	2 Nos.	
11	RFID smart card reader	Reputed	2 Nos.	