

Introduction

Weighbridge software is a weighing and computing system with extensive data extraction, collection and processing functions. This Weighbridge software solution is designed to help you to manage and track the critical information created at the time of weighing and label products in an easy and flexible manner. A weighbridge is a large steel or concrete platform used to weigh a large vehicle.

A weighbridge measures the overall weight of the vehicle, and we use this to calculate the weight of the waste we've retrieved.

Loaded removal lorry – unloaded removal lorry = weight of the retrieved waste.

The reliability of a weighbridge stems from the load cells. These are highly accurate transducers that convert a small resistance change into a usable electric signal. This signal is then filtered and calibrated before being digitally displayed.

Ajeevi Weighbridge system Dashboard displays the Summary of:

- Total Vehicle Measured
- Collected Waste

Uses :-

- Full integration and comprehensive reporting
- Precision and Cost-effective
- Improvement in productivity
- Monitoring and identification of overloaded vehicles
- Improvement in efficiency
- A perfect integration of technology and precision

Benefits of Weighbridge System:-

- The all features of software are specially programmed for weigh- Bridge management & Data Logging.
- This software has its own baud rates and receive-sending facility with any electronic instrument with serial data transfer facility.
- The storage memory of this software is Infinity.
- User Friendly Operation & Setting with administrating password protection
- Customize facility
- Calculate accurate weight of goods
- Easy GST Invoice Generation
- Integration with third party
- Auto Email alerts to admin
- Invoice with integrating real time photos of Goods

Features

- Reduce admin tasks
- Greater visibility of stock
- Easy reporting
- Greater financial control

The screenshot displays the 'Digital Weighbridge - Dashboard' interface. On the left is a dark blue navigation sidebar with the following menu items: DASHBOARD, SWM, TRANSPORT, USER MANAGEMENT, HELP DESK, VEHICLE MAINTENANCE, ATTENDANCE, and OTHER FUEL. The main content area has a light gray header with the title 'Digital Weighbridge - Dashboard' and a search bar containing filters for 'ALL CIRC...' and 'ALL WARD', along with a 'Search' button. Below the header is a 'Notifications' section with a dropdown arrow, refresh icon, and close icon. The dashboard features two primary data cards, each with a scale icon: the first card shows '81' for 'Total Vehicle Measured', and the second card shows '316.79' for 'Collected Weight(Ton)'. At the bottom left of the dashboard, there is a copyright notice: '© 2022 Patna Smart City Limited'.

Technical Specifications:

S#	Parameter	Remarks
A	GENERAL	
1	Centralized and Integrated Solution	Ajeevi Weighbridge System
2	Technology Used	COTS (Commercial Off The Shelf) Technology
3	Access Features	RBAC Model (Role-based access and control)
4	Architecture	N-tier scalable architecture, modular design, robust software
5	Framework	.NET Core Framework, ASP.Net MVC
6	Database	SQL Server 2016 and above, Mongo DB, Posgre SQL, Unifieddatabase for all SWM data
7	Operating System	Windows / Open Source Linux
8	Front end	Java Script, JQuery, React JS, Angular, HTML, Bootstrap, RazorPages
9	IOT Hub Integration	Kafka, Rabbit MQ, Socket Programming, Web APIs
10	Application Availability	High availability and DR replicability
11	Single-Sign On facility	Available
12	Audit Trail	Ability for logging, audit, and tracking of any changes carried out on the database
13	Interoperability Standards	Can be integrated with any other application through web APIs(Push or Pull)
14	Security Features	<ol style="list-style-type: none"> 1. Security design with well-designed identity management system, security of physical and digital assets, data and network security, backup and recovery and disaster recovery system. 2. Support for security features such as W3C specifications, Information access/transfer protocols SOAP, HTTP/HTTPS, etc.

		3. API Integration allowed post authentication
15	External Communication	Through SMS Gateway and SMTP Integration
16	Web Enabled Solution	Yes
17	Services for GIS Integration	Google Maps, ESRI Map, Any other available open map
18	GIS Features	Geo-mapping, Geotagging, POI, Geofencing through Geo JSON and drawing tool
19	Deployment Features	SaaS Model, On-Premise Model, BOOT Model
20	Cloud Deployment	Amazon AWS, Microsoft Azure
20	Information Security	ISO 27001 certified System
21	Operations	ISO 9001 Certified
B	FUNCTIONAL FEATURES	
➤	General Features	Ajeevi Weighbridge system Platform is Easy to Access, Easy to Use & User Friendly Graphics.
		Weighbridge Anti-Theft Facility. (Special Password)
		Provide Direct Net Weight Feature.
		Provide ERP, Oracle Connectivity based on client requirement.
		Individual Reports Access Rights.
		Auto SMS, Mail on every Weighment.
		Data Base Auto Backup Facility.