



RFID BASED WEIGHBRIDGE AUTOMATION

Weighbridge Automation

Weighbridges continue to play an increasingly vital role in the process and related industries, acting as critical control points for vehicles arriving and leaving sites. Vehicle Identification and Data Collection from Weighbridge using Radio Frequency Identification is a secure and convenient solution for vehicle management at industries, providing authentication and accurate weight data for incoming and outgoing vehicles.

Truck drivers are identified via contactless RFID cards and IP cameras assuring the access only to authorized drivers.

SUMMARY

Industry

Weighbridge Automation

Challenge

A busy Industrial Plot should have an automated, efficient monitoring system that allows for accurate vehicle identification as well as an easy measuring system for the load

Solution

- Passive RFID tagging
- HF based Passive RFID with IP Cameras
- Each Weighbridge is equipped with HF RFID Reader and IP Camera for automatic Data Capturing from Weighbridge.
- Each and every authorized Truck Driver has a passive RFID tag

Results

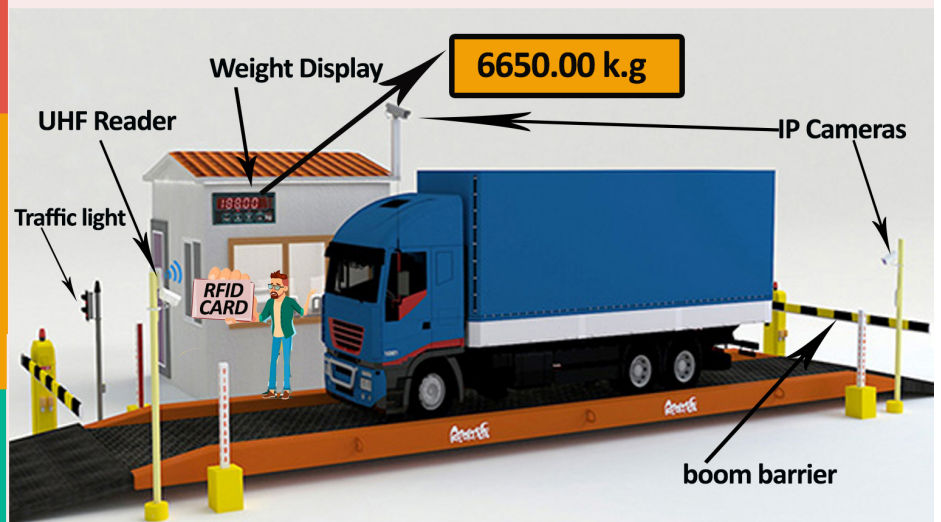
- Our solution can both enhance the efficiency of the operation and protect human malpractice on weighing
- Automatic identification of driver, truck, trailer
- Efficiency improvement in managing receipts and dispatch of material .
- Our Solution can be used for unmanned weighing operations
- Increase visibility, safety, security, asset utilization

Benefits

*He does not need to rekey truck license plate number every time when the truck is on the weighbridge.

* Simultaneously, this can protect the problem of cloning truck.

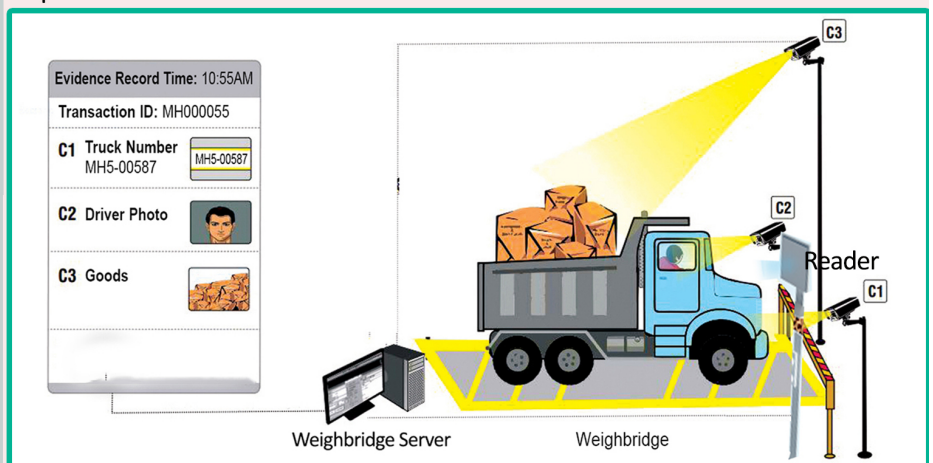
* As a result the problem of duplicating or artificial weighing can be removed completely.



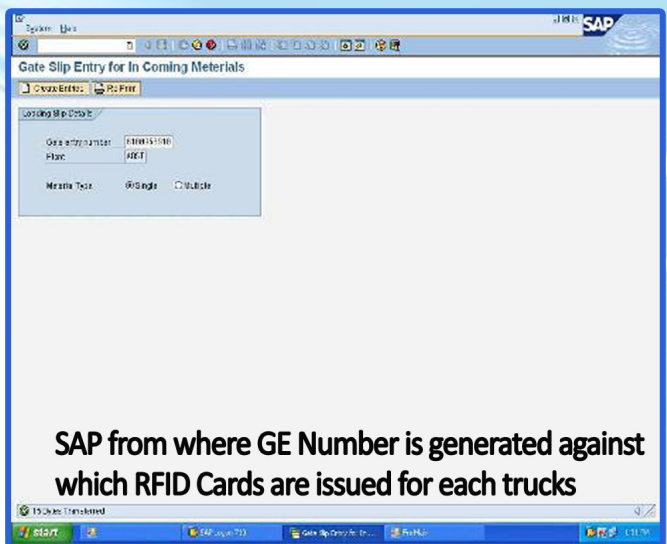
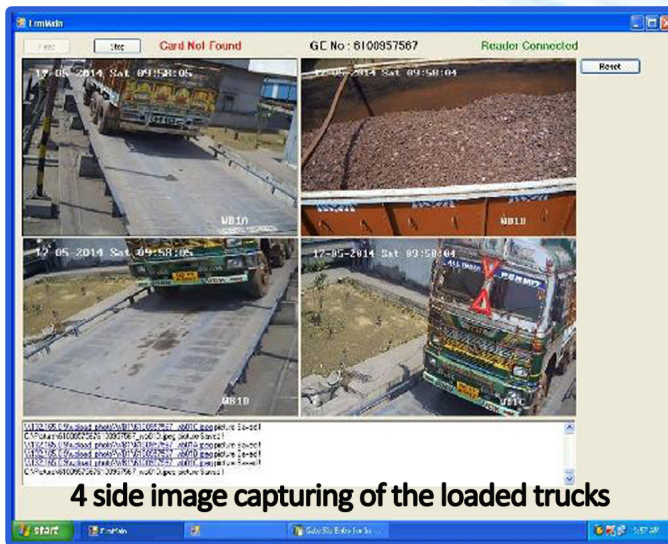
Empty Truck Weight on Gross1Weighbridge.

Each and every authorized Truck Driver has a passive RFID tag. The HF Card type tag is a high performance tag that is ideal for harsh and dirty environment. Whenever a Truck arrives at the entrance of Gross1 weighbridge, the driver is supposed to pass the card to the guard standing there. He will show the Card to the RFID Reader mounted at each of the weighbridge.

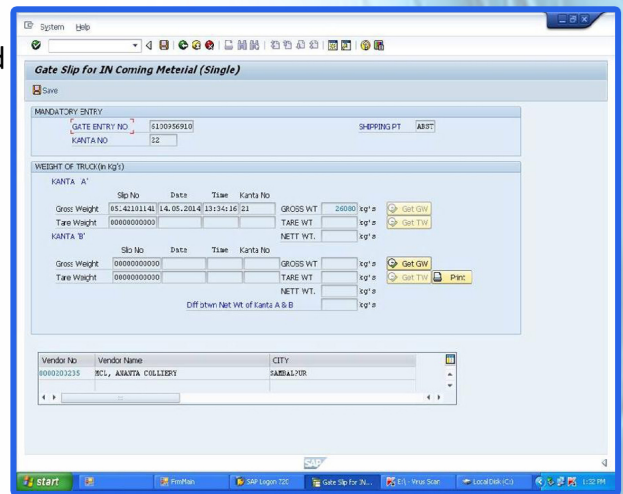
The RFID system is integrated with software systems for billing, reporting, and revenue collection, that provides even greater cost and time efficiency to operators.



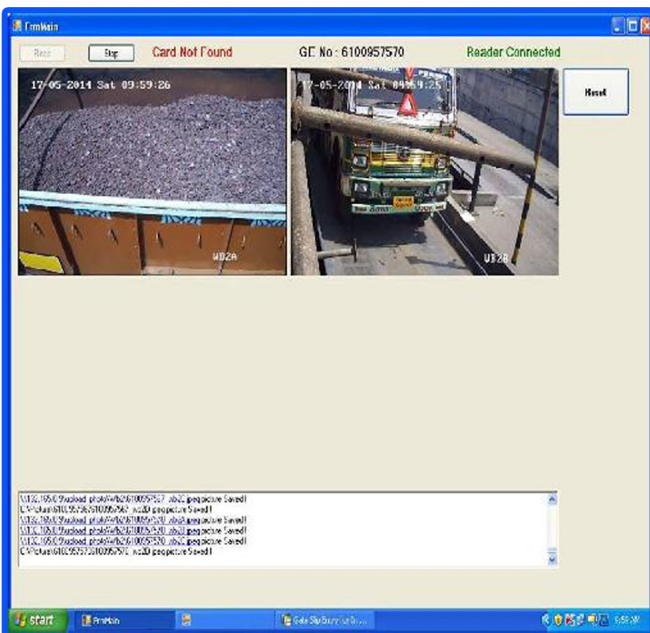
Same process will be held when driver load their truck and back to weighbridge for weight the material.



As soon as the card is displayed, the cameras are triggered for capturing images of Respective trucks. At the same time the weight along with the GE (gate number) is inserted in their SAP. The same process is repeated in Gross2 Weighbridge for verification and curbing any kind of residual error from Gross1. Same process is repeated in Tare1 & Tare2 and hence NET WEIGHT is calculated.



Rollout of System is quick and easy and can be used in conjunction with existing systems.



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