

# CONCRETE BATCHING PLANTS, WEIGH BRIDGES & WEIGHING EQUIPMENTS

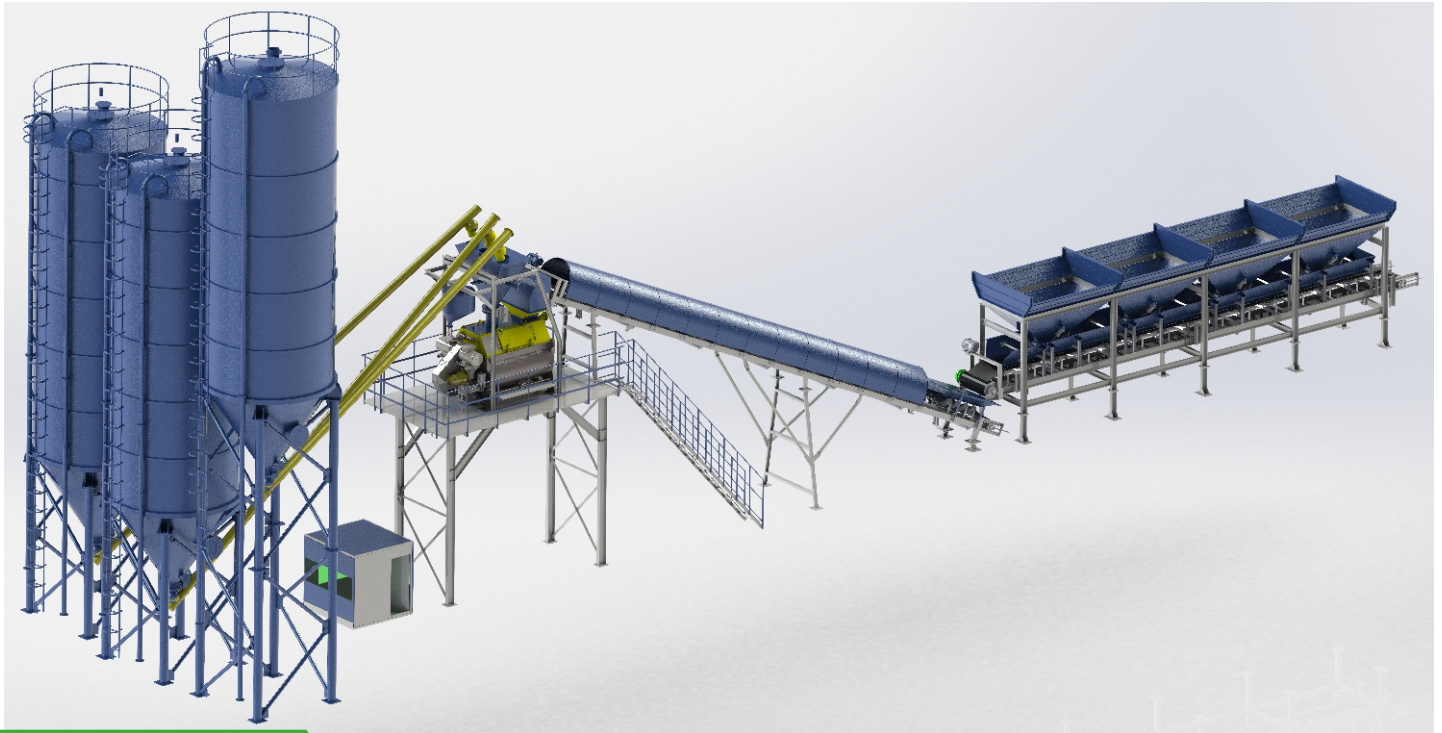


**Solutions & Service Can make a Competitive Difference**

## About Us

About Met Weigh India Private Limited Established in 1998, Met Weigh India Private Limited has emerged as a prominent player in the fiercely competitive manufacturing sector. Our unwavering commitment to excellence, coupled with our ISO 9001:2015 certification, sets us apart. Our Product Portfolio at Met Weigh India, we specialize in designing, manufacturing, supplying, and exporting a diverse range of high-quality machinery. Quality and Reliability every Met Weigh product undergoes meticulous design and manufacturing processes. We adhere to the highest standards of performance and reliability, ensuring that our machinery meets the demands of diverse industrial applications. Whether it's a weigh bridge, or a concrete batching plant, you can trust Met Weigh India for top-notch quality and dependable performance, are the cornerstone of any exceptional product or service, ensuring not only superior durability and reliability but also consistent results that exceed customer expectations and foster long term trust and satisfaction.

## Concrete Batching Plant



## WHY METWEIGH

### High Efficiency and Speed:

**Faster Mixing:** The twin-shaft design ensures rapid and thorough blending of materials (cement, aggregates, and water). This significantly reduces mixing time compared to other mixer types, boosting overall operational efficiency.

### Superior Mixing Quality:

The counter-rotating shafts efficiently break down aggregates and cement, resulting in a highly uniform and consistent concrete mix. This consistency is vital for large-scale projects or applications that demand the highest concrete quality.

### Efficient Handling of Heavy Aggregates:

Twin-shaft mixers are engineered to handle large volumes of aggregate and coarse particles without compromising mix quality, making them ideal for demanding, heavy-duty applications.

### Robust and Durable Design:

**Extended Service Life:** Designed for rigorous use in harsh conditions, these mixers feature robust construction, including wear-resistant liners and heavy-duty motors, ensuring a long operational lifespan.

### Reduced Wear and Tear:

The twin-shaft mechanism effectively distributes mechanical stress, minimizing wear on key components and reducing maintenance needs, which enhances long-term reliability.

### Versatility:

**Wide Range of Concrete Mixes:** Twin-shaft mixers are capable of producing a diverse range of concrete mixtures, from dry to wet, and can accommodate various mix designs, including high-aggregate content formulations.

### Adaptability for Specialized Applications:

These mixers are equally suited for ready-mix concrete production as well as specialized applications such as high-strength and self-compacting concrete, offering versatility for a broad spectrum of projects.

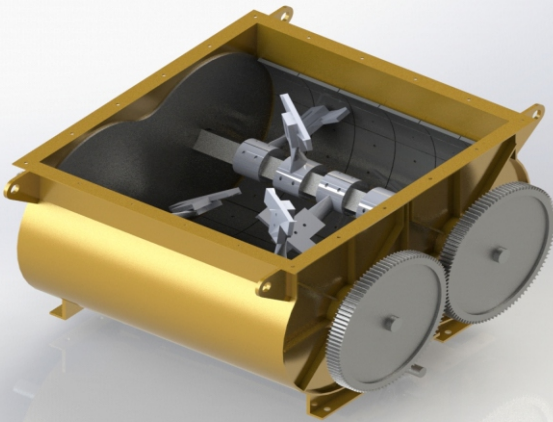
### Energy Efficiency:

**Optimized Power Consumption:** The twin-shaft design is engineered to maximize motor efficiency, reducing energy consumption per batch compared to other mixer types. This results in significant energy savings, particularly in large-scale production environments.





## Twin Shaft Mixer



## High Efficiency and Speed

**Faster Mixing:** The Twin shafts ensure that the materials (cement, aggregates, water) are mixed thoroughly and quickly. This significantly reduces mixing times compared to other types of mixers.

### Superior Mixing Quality

**Consistent Concrete :** The counter rotating shafts break down aggregates and cement evenly, leading to a highly uniform and consistent concrete mix. This is especially important in large scale or high quality concrete applications.

**Efficient Handling of Heavy Aggregates :** Twin shaft mixers can handle large volumes of aggregate and coarse particles without sacrificing the quality of the mix, making them ideal for heavy duty applications.

### Robust and Durable Design

**Long Service Life :** These mixers are designed to withstand heavy use and harsh conditions. Their construction typically includes durable components such as wear resistant liners and heavy duty motors.

**Less Wear and Tear :** The Twin shaft mechanism helps distribute the mechanical stress more evenly, reducing wear and tear on the equipment.

Versatility

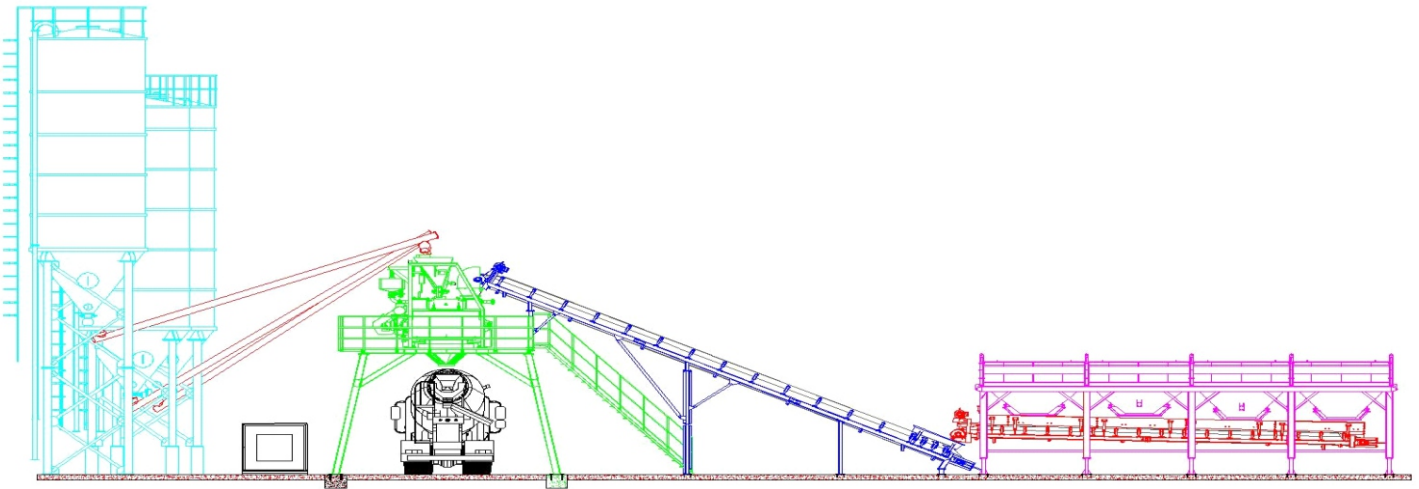
**Wide Range of Concrete Mixes :** Twin shaft mixers are capable of producing a variety of concrete mixtures, from dry to wet mixes, and can accommodate different mix designs, including those with high aggregate content.

**Adaptability :** They are suitable for both ready mix concrete production and specialized concrete applications, such as high strength or self compacting concrete.

### Energy Efficiency

**Optimized Power Use :** The design of twin shaft mixers maximizes the efficiency of the motors, reducing the amount of energy required for each batch of concrete compared to other types of mixers, leading to energy savings in large scale operations.

## Concrete Batching Plant

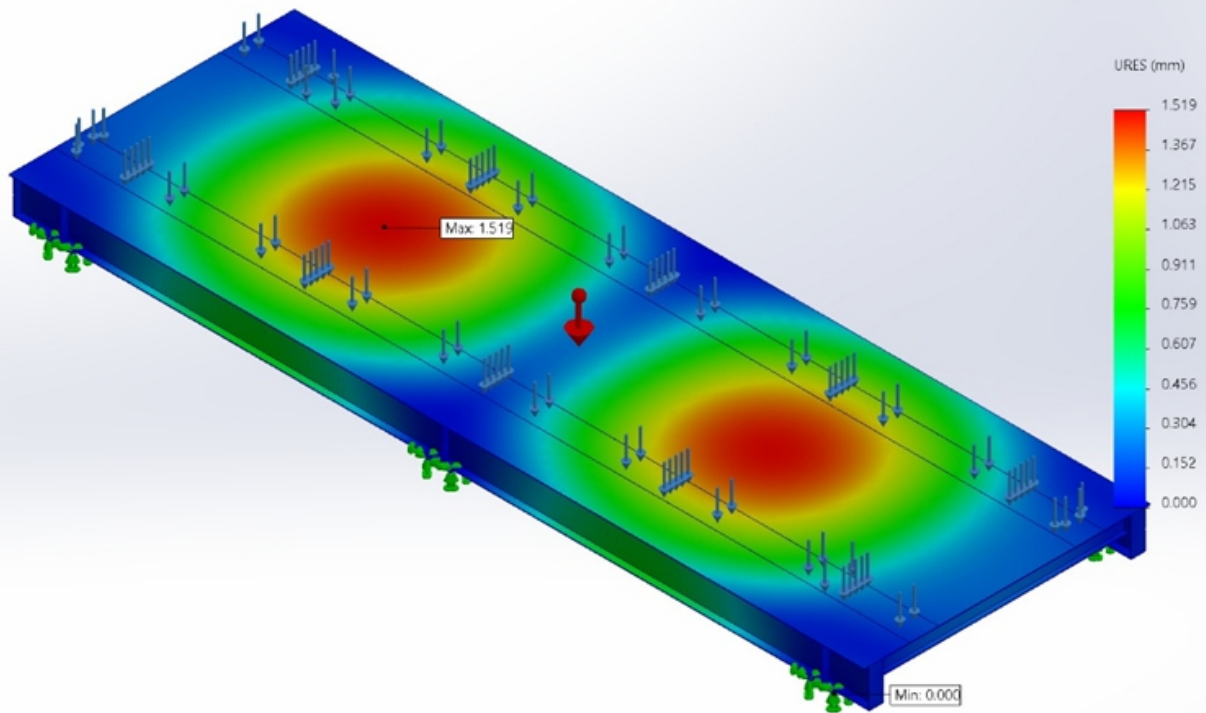


**Concrete Batching Plants of different Capacities.**

## TECHNICAL DATA

	Unit	Mi 30	Mi 45	Mi 60	Mi 75
Capacity (compacted concrete with 30 s mixing time)	(m3/h)	30	45	60	75
Twin Shaft Mixture (filling/compacted concrete)	(m3)	750/500	1250/750	1500/1000	1875/1250
Concrete discharge height	(m)	4.1	4.1	4.1	4.1
Aggregate weighing system (inline Bin )	(kg)	2000x4	2000x4	2000x4	2000x4
Cement weighing system	(kg)	500x3	500x3	500x3	500x3
Water weighing system	(kg)	500	1000	1000	1000
Inline Bin with capacity (4 bin)	(m3)	8x4	8x4	10x4	10x4
Filling width of each bin	(m)	2750	2750	2850	2850
Types of cement	upto	2/3	2/3	2/3	2/3
Water connection	DN	80	80	80	80
Operating pressure of water	bar	3 to 4	3 to 4	3 to 4	3 to 4
Operating voltage	V	415	415	415	415
Admissible voltage fluctuation	%	+/-10	+/-10	+/-10	+/-10
Mains frequency	Hz	50	50	50	50

## Simulation of Weigh Bridge



## Our products includes

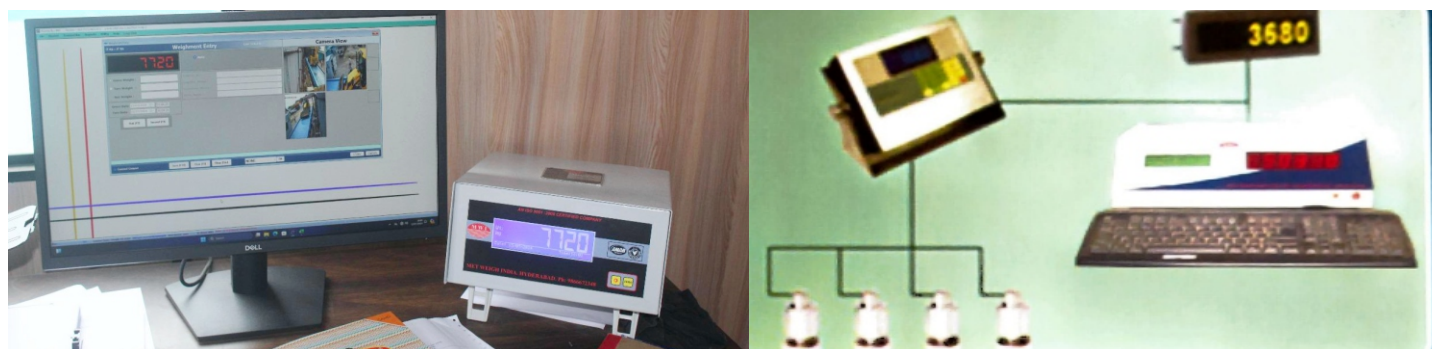
Different capacity of Weigh Bridges with allied accessories

Our state of the art weigh bridges are engineered to deliver precision and durability As regular suppliers to various government departments and esteemed listed companies, we pride ourselves on our commitment to quality and customer satisfaction



With a remarkable track record and supplying more than 8,000 weighbridges across India and beyond, our product stand as a testament to our expertise. Our weighbridges are not just tools for measurement; they are pillars of trust that support business and economies.





**Model : Akash - MP32 Alpha Numeric Digitizer is a microprocessor based indicator for use on a single weigh platform**

Processor	32bit Processor
Processor clock frequency	50 Mhz
Real time clock	On board battery backed RTC.
RTC Clock frequency	32.768 KHz.
Memory	2GB for data storage. Capable of storing approximately 2lac weighment records.
Power supply	SMPS Power Supply
Input Voltage	90V to 270VAC @ 50Hz.
Protection	a) 2.5A fuse for input AC mains. b) Input line filter for EMI and RFI suppression. c) Spike suppressor for input transients. d) Opto-isolation of signals and 1/0s for high immunity from electrical noise.
Power Consumption	10VA (approx.)
A/D converter	Sigma Delta type with 24 Bit resolution
A/D Clock	2MHz
Conversion Speed	Internal 25 samples per second
Loadcell excitation to 12	8V DC with current capability to drive up to 12 load cells of 350 ohms input resistance.
Signal Sensitivity	1.0 microvolts per division of weight (unit weight).
Display	16 characters by 2 line LCD display with backlight for displaying numerals and alphabets for data entry and 6 digit */2" RED LED numeric display.
Keyboard port	101-key with USB connector compatible keyboard.
USB Port	USB Port configured for Pen Drive.
Printer port	Isolated Centronics compatible printer port
Serial port	provided on rear panel for connecting 80 - column dot matrix printer for printing of weighment record and reports. Isolated RS-232 serial port is provided for computer interfacing, driving remote

**Model : Akash - MP32D Alpha Numeric Digital Intelligent Terminal is microprocessor based Digital indicator for use on a single weigh platform**

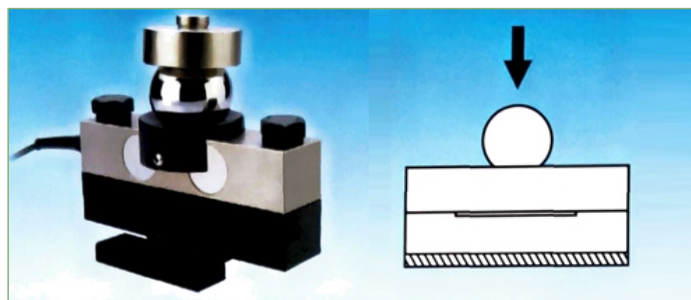
### TECHNICAL SPECIFICATIONS

**Auto zero tracking:** The auto zero tracking feature is provided to Zero the platform, in case of small debris accumulation.

**Auto zero tracking delay:** The delay will be used by the system internally to delay the zeroing of weight by AZT function

**Weight tracking:** Weight Tracking is a facility provided to stabilize weight on display in loaded platform condition.

- Adopt RS485 interface to carry out communication with digital load cell.  
The maximum (transmission distance) is up to 1200 meters.
- Adjustment for eccentric load manually or automatically, through the digital indicator (4-corner adjustment)
- Trace single load cell and read out data automatically. Estimating the load balanceable when installation
- Change the load cell serial No. in the spot. that is, diagnose the malfunction automatically
- Save 256 pcs records, 256 sets car No. and item No., Data-protection > 50000h when power off
- Display date, time, leap year, leap month. Consecutive clock.



## Model 87860 - Double Ended Shear Beam Load Cell

### DESCRIPTION

- 87860 load cells are suitable for truck, tank and hopper weighing.
- This is constructed from electroless nickel plated heat treated tool steel suitable for harsh industrial applications.
- Cup and steel ball mounted mechanism is self restoring and self centering.
- Transient voltage protection is provided for protection against lightning and line voltage faults.

### FEATURES

- 10Tf. to 30Tf. Capacities.
- Complete environmental Protection - IP68 class.
- Standard output 2.0m V/V available.
- Hardened tool steel construction.
- Good side force and shock resistance.
- Full mounting hardware are provided with the load cell.

### APPLICATIONS

- Truck weighbridge
- Tank and hopper weighing
- Tensile testing

### PERFORMANCE SPECIFICATION

Standard Capacities (Tf.)	: 10, 20, 30
Excitation Voltage	: 10 VDC - Maximum 15 VDC
Nominal Output	: 2.0 mV/V
Non - Linearity	: < z 0.025 % FSO (Full Scale Output)
Hysteresis	: < z 0.02 % FSO
Non-Repeatability	: < + 0.01 % FSO
Creep (30 minutes)	: < + 0.03 OF FSO
Input Resistance	: 770 + 20 Ohms
Output Resistance	: 770 z 7 Ohms
Insulation Resistance (SOVDC)	: > 1000 Mega Ohms Cable Length (4 core): 15 mtr.
Safe Overload	: 150 %
Ultimate Overload of Rated	: 300 %
Allowable Side Load	: 50%
Side Load Discrimination	: 500:1
Temp. Compensated Range	: 0-60 B
Temp. Effect on Output	: < 0.0015 OF FSO/ C
Temp. Effect on Zero	: < 0.0020 % FSO/ C
Deflection	: < 0.5 mm at FSO
Tightening Torque	: 10 m.kg.
Finish & Construction	: Electroless Nickel Plated Tool Steel
Environmental Protection Class	: IP68
Transient Voltage Protection	: Provided



## Digital Load Cell Model 97960

### SPECIFICATION

Rated Load	: 30T
Temperature Range	: -30C - +70C
Rated Output	: 30000
Zero Balance	: 0.1% F.S
A/D Module Resolution	: 200000
Safe Overload	: 150% F.S
Data Refresh Rate	: 50Hz
Protection Class	: IP68
Communi. Baud Rate	: 9600 BPS
Input Voltage	: 9-12V DC
Combined Error	: 0.02% F.S
Max Input Voltage	: 1200M
Creep Error	: 0.02% F.S
Signal Trans. Dist.	: 1200M
Temp. Effect Sensitivity	: 0.02% F.S/ 10C

### APPLICATIONS

- Truck weighbridge
- Tank and hopper weighing
- Tensile testing

Digital Load Cells are basically a combination of analog load cell and an analog to digital converter mounted on the load cell itself. The MWI Digital Load Cells are calibrated and are capable of transmitting the weight on the load cell in digital form.

### DESCRIPTION

- Every Digital Load is pre-calibrated in the factory, so there is no corner error during installation or even with regular usage.
- Digital Load Cells are pre calibrated with weight and hence no calibration is required in the field.
- Each Digital Load Cell has an individual A/D converter. This helps in generating higher internal counts for the total system and hence a lower division size can be achieved leading to higher accuracy.
- Digital Load Cells are equipped with better lighting & electrical protections. Even the problem of flickering does not exist in Digital Load Cell. Thus results in better performance of the load cells.

## Unmanned Weighing

### FEATURES

- Manless Controller
- Faster Operating Cycle
- Better traffic management
- SAP Integration
- Handling weighbridge down time
- Enhanced reporting system

### Description :

Weighment can be carried without an operator at the weighbridge with audio instruction, Boom Barrier, Traffic Light, IR Sensors Integration etc as complete information is scanned through RFID cards which boost up the operation cycle and prevents the manual entry error.

## I-Net – Intelligent Terminal



### FEATURES :

- I-Net gives an opportunity to avail on-line weighing data without any computer at Weigh Bridge. Weighment is automatically transferred from the intelligent terminal through modem as soon as weighment is done.
- Weighment data can be seen anywhere in the world by the registered users, as this uses internet as a tool from data viewing.
- Search data by vehicle no. wise, data wise & running serial ticket wise.
- View date in excel format.
- Export Reports: Click on the export tab available on the screen to export the reports on your PC in excel format.
- Add no. of user id to the main account
- Get printout at the weighment point & also at your place.

My data

My Users

My Profile

☐ Search by VEHICLE NO.
   
☒ Search by RST

Device :121364401001 : ABC WEIGH BRIDGE

SELECT DEVICE

RST No. From 1

RST No. To 3

Search

Export

Date From

Date To

RST NO.	VEHICLE NO.	CUSTOMER	COMMODITY	WEIGHT 1	DATE1	TIME 1	WEIGHT 2	DATE 2	TIME 2	NET
1	MP09AB5690	BONI	IRON	94530 kg	02-03-11	10:38	17000 kg	02-03-11	11:30	77530 kg
2	MP09AB1564	RAJA	IRON	87930 kg	10-03-11	09:30	14000 kg	10-03-11	10:30	73930 kg
3	MP09AB1234	RONI	IRON	99930 kg	31-03-11	11:38	20000 kg	31-03-11	12:30	79930 kg

### Hardware Requirement for using I-Net:

- Intelligent Terminal with I-Net facility
- Mobile SIM with GPRS facility
- Modem for inserting SIM and to connect to the Intelligent Terminal

## I-Net – Intelligent Terminal



### FEATURES :

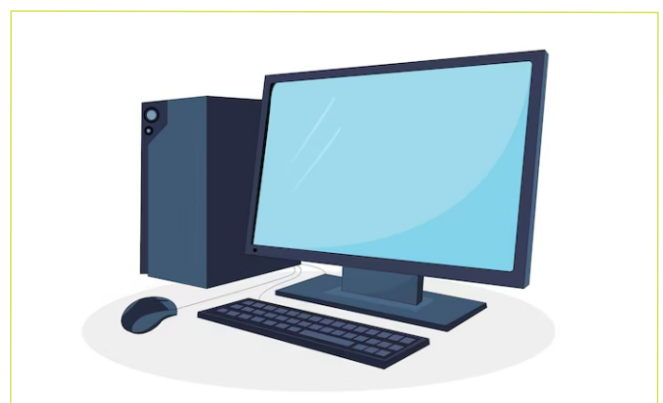
- The system automatically sent the weighment details to your cell phone more than one mobile number (upto 5 mobile numbers)
- This application sends every weighment transaction to predefined mobile numbers without human interaction.
- The customers with their registered mobile numbers can request for ticket or report or both with RST wise / Vehicle wise / Data wise / 2nd Subtitle entry wise.

## Technical Specification :

Mother Board, Processor, RAM, Hard Disk, Cabinet, Colour Monitor, Key Board (101 keys)

We have standard printing software in basis to print gross, Tare and Net Weights Date & Time of weighment, Customer Name, Supplier Name, Material Truck Number. We made the pervasion very easy only minimum qualified person can operate for second weighment platform number is taken as reference. Customer can restart the serial number and register the old weighment for future records (upto 2 Lakh memory)

## Desktop Computer





Standard Sizes & Capacities of  
Pit Type Pit Mounted Weigh Bridges of

## Model: MET WEIGH-PWB

Capacity in Kg	Resolution in Kg	Platform Size in meter	No. of Load Cell
40000 Kg	5 Kg	7.5m x 3m	4
50000 Kg	5 Kg	7.5m x 3m	4
50000 Kg	5 Kg	8m x 3m	6
60000 Kg	10 Kg	8m x 3m	4
60000 Kg	10 Kg	9m x 3m	6
60000 Kg	10 Kg	9m x 3m	4
60000 Kg	10 Kg	12m x 3m	6
60000 Kg	10 Kg	15m x 3m	6
80000 Kg	10 Kg	15m x 3m	6
100000 Kg	10 Kg	16m x 3m	8
80000 Kg	10 Kg	16m x 3m	8
100000 Kg	20 Kg	18m x 3m	8
100000 Kg	20 Kg	18m x 3m	8
120000 Kg	20 Kg	20m x 3m	10
100000 Kg	20 Kg	20m x 3m	10
120000 Kg	20 Kg	20m x 3m	10
150000 Kg	20 Kg	20m x 3/3.5	10/12

Standard Sizes & Capacities of  
Pit Less/ Surface Mounted Weigh Bridges of

## Model: MET WEIGH-PLWB

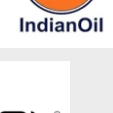
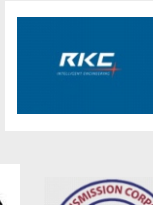
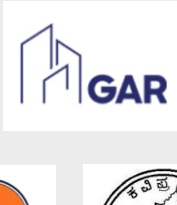
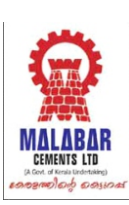
Capacity in Kg	Resolution in Kg	Platform Size in meter	No. of Load Cell
40000 Kg	5 Kg	7.5m x 3m	4
50000 Kg	5 Kg	7.5m x 3m	4
50000 Kg	5 Kg	8m x 3m	6
60000 Kg	10 Kg	8m x 3m	4
60000 Kg	10 Kg	9m x 3m	6
60000 Kg	10 Kg	9m x 3m	4
60000 Kg	10 Kg	12m x 3m	6
60000 Kg	10 Kg	15m x 3m	6
80000 Kg	10 Kg	15m x 3m	6
100000 Kg	10 Kg	16m x 3m	8
80000 Kg	10 Kg	16m x 3m	8
100000 Kg	20 Kg	18m x 3m	8
100000 Kg	20 Kg	18m x 3m	8
120000 Kg	20 Kg	20m x 3m	10
100000 Kg	20 Kg	20m x 3m	10
120000 Kg	20 Kg	20m x 3m	10
150000 Kg	20 Kg	20m x 3/3.5	10/12



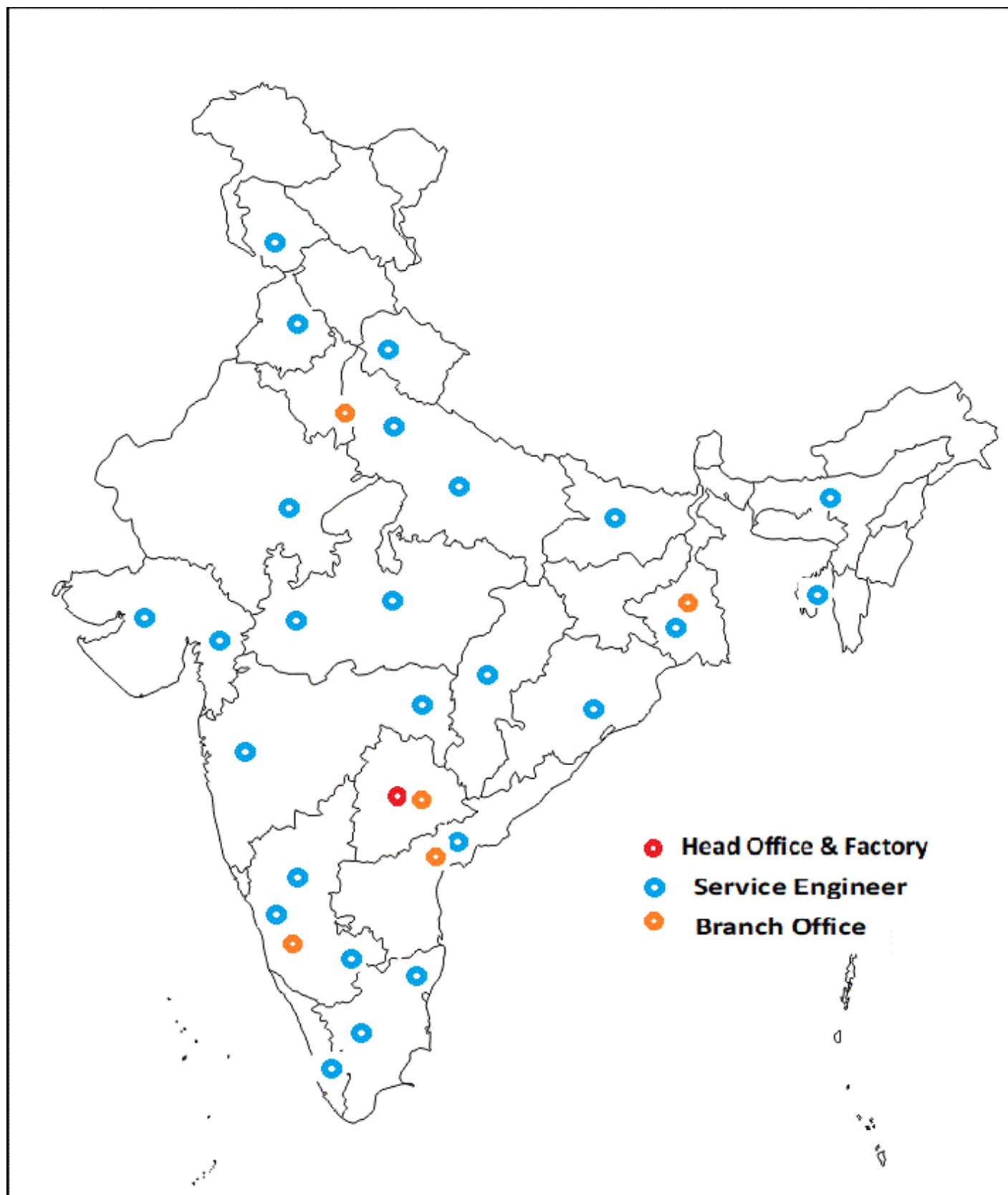
"Mobile Weigh Bridge"



## CLIENTELE











**Thank you**

**Factory & Office:**

**Unit 1**

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