



An ISO 9001 : 2008 Certified Company



**SENSOTECH**  
**WEIGHING SYSTEMS PVT. LTD.**

SWS/MKT/IND/AP/21-22/170077

To,

**Sanvardhansrushti Farmer**

**Producer Company Limited.**

**Malkapur (M.H.)**

**Date 11/03/2022**

## INTRODUCTION LETTER

*Dear Sir or Madam,*

*We take this opportunity with a great pleasure to introduce ourselves as one of the established leading manufacturer of Fully Electronic weighbridge of capacity ranges from 01 M.T. to 150 M.T.*

*We provide the following services in the weigh bridge:-*

- 1. Manufacture and supply Fully Electronic weighbridge ranges from 01 M.T. to 150 M.T. with size of plate forms as per customer requirements.*
- 2. Supply conversion kit to convert mechanical weighbridge in to electronic weighbridge.*
- 3. We undertake annual services and maintenance contracts of all type of weighbridge (Electronic – Mechanical) at the nominal rates.*
- 4. We also provide special soft ware for ginning, milk weighing, solvent plant, steel plant & A.P.M.C. oras per customer requirement*
- 5. We have sufficient stock of spare, some are as follows:-*
  - A. Load cells (compression, rocker, Digital, shear beam, S type) of any Capacity*
  - B. Weight indicator (Alpha numeric simple, Alpha numeric with USB port and GSM modem, Alpha numeric indicator with Graphical LCD, Plane digitizer and Weighbridge Software)*
  - C. Mechanical parts (Knife bearing, ball rest, ball guide plate, steel balls ect. )*

*Thanking you and assuring our best of attention at all time*

*Yours truly,*

*For Sensotech Weighing Systems Pvt. Ltd.*

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9425053824/9300210009

Regd. Office: -H-9 M.I.G. Colony, INDORE (M.P.) INDIA  
City Office: -103, Sapna appt. 39, Kelash park, near Geeta Bhawan Indore (M.P.) India



**SENSOTECH**  
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To,  
**Sanvardhansrushti Farmer**  
**Producer Company Limited.**  
**Malkapur (M.H.)**

*Date :11/03/2022*

**Sub: Competitive Offer for 60 M.T. Fully Electronic Weighbridges.**

Dear Sir,

Please refer to the above Mention Subject & Personal Discussion had with you. We are Pleased to Quote our Offer for 60 M.T. Fully Electronic Weighbridge with All Technical and Commercial Terms & Conditions.

**Price Bid with Commercial Terms and Conditions.**

<b>Capacity</b>	<b>: 60 M.T.</b>
<b>Plate form Size</b>	<b>: 10 X 3 mtr</b>
<b>Minimum Graduation</b>	<b>: 10 Kg.</b>
<b>Price</b>	<b>: Rs.6,90,000/-</b>
<b>GST@18%</b>	<b>: Rs.1,24,200/-</b>
<b>Transportation</b>	<b>: Rs.20,000/-(Approx)</b>
<b>Crain &amp; Labour Cost</b>	<b>: Rs.8000/-(Approx)</b>
<b>Total Amount</b>	<b>: Rs.8,42,200/-</b>
<b>GST NO.</b>	<b>:23AAPCS0634N1Z2</b>

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#### **COMMERCIAL TERMS AND CONDITIONS.**

1. **Crane / Unskilled labour** : Will be provided by you during loading, unloading, fitting & at the time of stamping.
2. **Transportation Charges** : Extra As actual .
3. **Stamping Charges** : Extra As actual
4. **Standard test weights** : will be provided by you if required during testing & at the time of stamping.
5. **Guaranty** : One year from the date of commissioning against any manufacturing defect.
6. **Commission period** : 20-30 days Weeks from the date of confirm order along with advance.
7. **Operator Training** : Free of cost provided by us.
8. **Free services** : We will give 4 Nos. (Quarterly) free services.
9. **Separate Earthing** : Will be provided by you as per our earthing pit design.
10. **Power supply Board** : will be provided by you as per our drawing.
11. **Payment terms** : 80% Advance along with order  
: 20% at the time of structure delivery
12. **GST** : (a) GST TAX @ 18% will be charged Extra

**Thanking you,**  
*For Sensotech Weighing Systems Pvt. Ltd*

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**SENSOTECH**  
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**.3.**

**SCOPE OF SUPPLY**

1.Alpha Numeric Weight Indicator	: Sensotech	: 01 No.
2.Printer	: EPSON	: 01 No.
3.Key board	: Logitech	: 01 No.
4.Load cell	: Digital Appalto	: 06 No.
5.Extra Display	: Sensotech	: 01 No.
6.Electronic Junction Box	: Sensotech	: 01 No.

**SERVICES**

- Supervision of civil foundation work .
- Supply of civil foundation

**WEIGHMENT SLIP FORMAT**

Three line Header→	<b>SENSOTECH WEIGHINGSYSTEMS PVT. LTD.</b>		
	<b>25,R.R.INDUSTRIALESTATE</b>		
	<b>INDORE(M.P.)</b>		
<b>RST NO.</b>	: 35→Auto Generated Ticket No.	<b>Entry 1→Vehicle No.</b>	: MP09 HD8901
<b>Commodity</b>	:Wheat→ <b>Entry 2</b>	<b>Entry 2→Source</b>	: Godown
	:Anuj → <b>Entry 4</b>	<b>Entry 5→Address</b>	: A.B.Road
Customer	: 16005 Kg.	Date : 20/05/09	Time : 15 : 35
Gross	: 8000 Kg.	Date : 20/05/09	Time : 15 : 05
Tare	: 8005 Kg.		
Net			
Charges(1) : Rs. 10 Charges(2): Rs. 10 Charges(Total) : Rs.20			
Operator Signature :			
<u>Two line</u>	<b>Sensotech Weighing Systems Pvt. Ltd.</b>		
<u>Footer</u>	<b>09300210009</b>		

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### GENERAL TECHNICAL SPECIFICATION

#### 1. SENSOTECH FULLY ELECTRONIC WEIGHBRIDGE

In this type of weighbridge, once the vehicles come on the platform, its weight is displayed automatically on the Electronic Weight Indicator. The platform structures having the arrangement of total load distribution into four, six & eight load cells (depending upon the length of the platform) The Load cell converts the pressure energy into electrical energy in the analog form. The process of conversion of analog signal into digital is done by the Weight Indicator and finally the weight is obtained on the display of Weight Indicator. The input data's and commercial information feeded by the key board into the weight indicator and finally the Printer prints out Tickets and commercial information along with date and time. The technical specification, description and other details of all the accessories of fully Electronic Weighbridge are described below:

#### 2. PIT TYPE & PIT LESS LOAD STRUCTURE OF ELECTRONIC W/B

The load structure comprises of wide Flanged steel beams at adequate section and high grade tested steel and is designed to take heavy loads. Accurately fabricated, the side Flanged and other structure members are build of high quality engineering standards for durability and accurate performance. and being installed in Pit type & Pit Less foundation ( strength – Robust in construction with ample safety margins) the platform is covered with M.S. Plates dulyribbed.

##### PIT TYPE

- \* Suitable, if there is space limitation, as the ramp are not required in eitherside.
- \* Flush to ground Level.
- \* Designed for heavy usages and harsh environment.
- \* Easy movement of vehicles on platform.

##### PIT LESS & TOP LOADING PITLESS TYPE

- \* Low civil cost with lesser excavation is required.
- \* Very rugged and tough in structure.
- \* Available in module form for easy transportation and installation.
- \* Surface mounted.
- \* The load cells and the top of deck plate are above the ground level, facilitating easy maintenance.
- \* No high water table or drainage related problem.

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### 3. ALPHA NUMERIC WEIGHT INDICATOR

THIS Micro-Processor based Digital Weight Indicator is the most advance and efficient for commercial application. The tough enclosure and durable cover style offer protection against moisture and dust. The display stabilizes in less than 5 second to speed up your weighing.

#### TECHNICAL SPECIFICATIIONS

Microprocessor	8051 derivative.
Clock	18 MHz
Memory	128 K for data storage with battery backup.
Power Supply	SMPS type with EMI/RFI filter and Spike Suppressor.
A/D Converter	Sigma Delta type 24 BIT ADC.
Conversion Speed	20 Hz
Load cell Excitation	7 V @ 330 mA (up to eight load cells of 350 ohms each).
Signal / Unit weight	0.3 $\mu$ V/div (minimum).
Keyboard	101-key Keyboard IBM PC AT type.
Printer Port	Centronics compatible parallel port.
PRINTER	EPSON LX 800/ LX 300 OR TVSE make.
Serial Port	1 Number Rs-232C type port is available( For computer interface or remote displayinterface )
Display	40 char X 2 or 16 char X 2 lines LCD display with backlight for data entry and display of weight, date and time.
Remote Display Port	9-Pin D-shell female connector for optional ½" /1" / 2.3" / 4" 6-digit bright red LED display.
Indications	Buzzer for fault and data entry.
Fuse	F 1 fuse of 2.5 A for AC power in.
Protection	a) RFI/EMI filter for input power. b) Spike Suppressor for input transients.
Weight Record Storage	1530 records, depending on options programmed.
Consolidated Reports	Date wise, RST wise and all 5 entries wise for full & pending report.
Input Voltage	90 V – 270 V AC @ 50 Hz/ 60 Hz.
Power Consumption	10 V A (approx).
Environment	Operate Temp : 10° to + 55 ° Celsius
	Humidity: 0 to 95% relative humidity non- condensing.
Mechanical	Dimensions : 250X 260 X 80 mm mm mm (W) (D) (H)
	Weight : 2.8 Kg . (approx)

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#### 4. DESCRIPTION

This is the model of Weight Indicator with facility of Electronic balance detector and convenient zero adjustment by push button. Also, the system has Automatic zero tracking, even if small particulars of dirt, water accumulates on the scale platform during continuous weighment. The system has facility of entry and printing of alpha – Numeric information. IBM compatible 101Key board provided for entry purpose. It can also print following information:

1. Commodity 2. Address 3. Customer Name 4.Truck No. 5. Source

The following types of reports can be print out in the standard format:

1. Date wise Report: List of all weighments on particular date.
2. Commodity wise / truck No. wise /address wise/ customer wise etc. report can be obtained.

#### 5. Electronic printer (Make– EPSON LX 300+ / OR TVSE / WEP):

This is fully Electronic Dot Matrix Printer; which can print Weight with accuracy and clarity. The printing can be obtained onPrinter Stationery. The Printer is suitable for operation on 220+/- 10% Volt.

#### 6. Load Cells (Double Ended Shear Beam /Compression):

The Load cell are of compression type having better stability, repeatability and zero temperature drift in operating condition. The load cells are hermetically sealed IP- 68 rated and also shielded against any stray electric and magnetic fields in the vicinity. The temperature effects on linearity and sensitivity are nil. The Load cell structure is designed in such a way that the applied horizontal forces are eliminated by allowing the cells to align freely. The applied load is converted directly to an electrical signal by the loads cell having ample load capability (150% functional & 400% structural) to withstand accidental overloading.



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## ADVANTAGES OF DIGITAL LOAD CELL

### Description of digital load cell:

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

### Advantages of digital load cell:

- Analog to digital converter is mounted on the load cell. This reduces the noise pick up and delivers a very stable analog signal from load cell for ADC conversion. When a high quality analog signal is obtained for ADC conversion, it will give **more accurate weight display** with low noise.
- Since each load cell has its own ADC, the internal resolution increases multiple times. This facilitates offering of a **very small weight graduation** for display. For example in a conventional weigh bridge using 4 nos. 30t analog load cells of 2mv/V output, a minimum of 5kg resolution is obtained for stable weight display. However when a similar weigh bridge is designed using 4 nos. 30t digital load cells, we can get a resolution of 2kg.
- Digital load cells are pre calibrated and hence **no field calibration** is required. The digital load cells can be directly mounted on the weigh bridge and the weight obtained without any need for calibration. In case of exceptional structure deformity or mounting assembly defects, the weight display can be adjusted using smart calibration feature which only requires entering the correction factor using the keyboard on the weight indicator.
- **Corner correction is normally not required** when the weigh bridge is designed using digital load cell. However, in case of exceptional structure deformity or mounting assembly defects, the corner errors can be removed with minimal effort. Only correction factors are to be entered through keyboard for corner error correction.
- The output from a digital load cell is in digital form and hence the **distance from weigh platform to weigh room can be up to 300m** without any distortion in weight display. When we use analog load cell, this distance is limited to 20m.
- Since the load cells are pre calibrated, it offers a facility of **easy field replace ability**. After field replacement, no calibration and no corner correction is required.