Indicator Intelligent Terminal "IIT 4500"

"IIT 4500" is a specially designed weighbridge application intelligent terminal for digital loadcells. Use of pre-calibrated digital loadcells enable fast installation, service support thus increasing overall productivity and reduction in downtime. Features of weighing, data processing, saving, printing makes it a stand-alone utility for public and industrial weighbridges. 'IIT 4500' is robust in nature to withstand harsh environmental conditions. It can operate reliably over a wide temperature range and also in humid weather.

Hardware Features

- 32 bit ARM processor
- Front mount 16x2 LCD display & 0.5inch LED display
- SMPS power supply
- On board memory to save 1 lakh records
- USB ports for Standard computer keyboard & pen drive
- Centronics port for 80 column Dot matrix Printer
- RS232 port for display/GSM modem/continuous weight transmission
- Table top port for connecting external wired displays

Software Features "Installation privilege"

- Initial LCD display message field settable as OEM name/ weighbridge name
- Installation settings secured under engineer login
- Engineer login password field settable by authorised OEM
- Three types of cornering features available
- Smart Calibration
- Multi-step smart calibration
- Installation report
- Mandi Application feature of Rate, Amount, Binding material deduction etc.

Applications:

| Public weighbridges | Industrial Weighbridges | Toll Ways |

IIT Features

- Manipulation not possible, as input signal from DLC's is in digital form
- Long Distance between weighbridge room and structure
- Lower division size can be obtained, leading to higher accuracy of scale
- Special OEM specific DLC interlocking
- Field settable number of loadcells, upto 16
- Simple and fast Installation
- No need of manual cornering using trimpots & calibration with test weights.
- Automatic fault diagnosis with warning of particular DLC
- Installation report

Salient Features

- Available to work with pre-calibrated Appalto DLC's
- Working with zemic/ ningbo/ thames side/ flintec or other DLC's (OPTIONAL), features may vary in IIT for these DLC's
- Field setting option for Vehicle wise working
- USB port for pen drive connectivity (data in .xls format)
- SMS provision
- Field settable pre-printed stationary
- Mandi Application features

Scope of Supply

- IIT 4500
- Power cable
- Load cell connector
- Printer isolator cable

Software Features "Weighbridge privilege"

- Simple process for weighments of Tare/ Gross Vehicle weights
- 10 entries in ticket for 25 characters each
- 4 code banks for 100 codes each(Flexibility of setting)
- Field settable header, footer, signature lines
- Facility to view/print earlier saved records according to RST no/ Vehicle no
- Multiple report option all/summary/filtered/serial no. wise/date wise/time wise
- Dumping of report into pen drive to avail softcopy of records (.xls)
- field settable Pre-printed tickets
- SMS feature in 3 different ways
- Net weight printing in words
- Mandi Application feature of Rate, Amount, Binding material deduction etc.

Optional Features

- Confidential Report
- Inbuilt wireless for connecting wireless accessories (JB, display)
- Graphical display
- Housing choices available

Peripherals
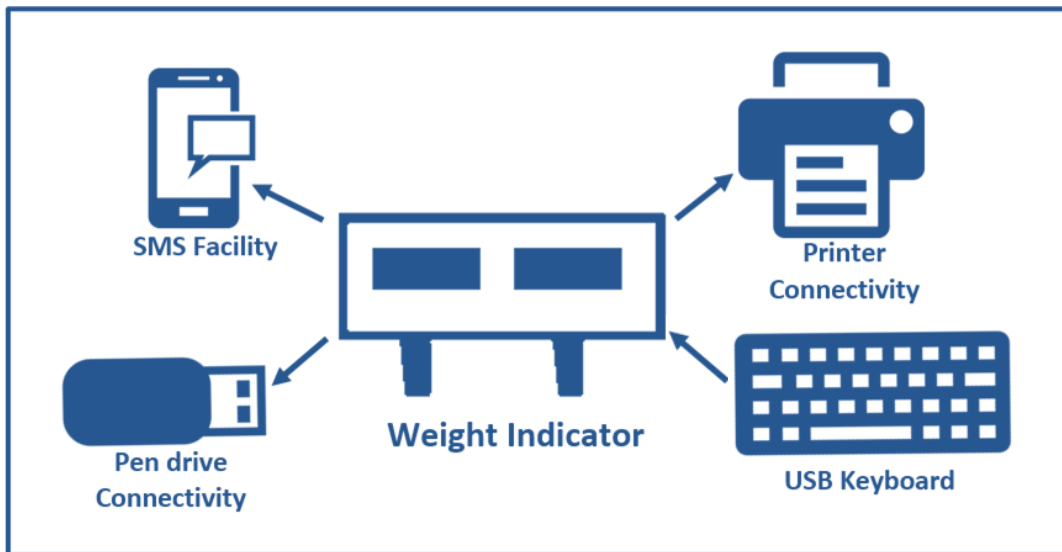
Front and Rear panel
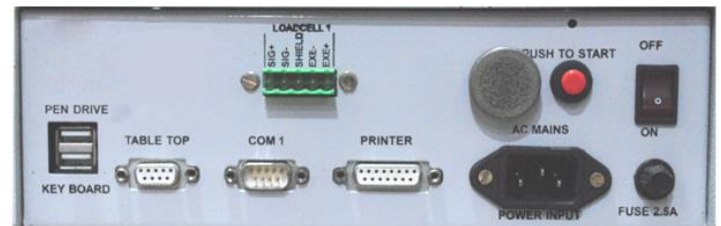
Specifications :

Processor	32bit ARM Processor
Processor clock frequency	50 MHz
Real time clock	On board battery backed RTC.
RTC Clock frequency	32.768 KHz
Memory	On board memory to save 1 Lakh records
Power supply	SMPS power supply
Input Voltage	90V to 270V AC @ 50Hz
Protection	* 750mA fuse for input AC mains * Input line filter for EMI and RFI suppression * Spike suppressor for input transients * Opto-isolation of signals and I/Os for high immunity from electricalnoise
Power Consumption	10 VA (approx.)
Load cell excitation	13.5 DC with 300 mA current capability
Display	16 characters by 2 line LCD display with backlight for displaying numerals and alphabets & 1/2" LED 7 segment red display to show weight.
Keyboard port	101-key with USB connector compatible keyboard. (Recommended for use Logitech or Microsoft)
USB Port	USB Port configured for Pen Drive
Printer port	Isolated Centronics compatible printer port provided on rear panel for connecting 80-column dot matrix printer for printing of weighment record and reports.
Serial port	Isolated RS-232 serial port is provided for continuous weight transfer
Remote Display Port	Remote display port is provided to connect optional 1/2inch, 1inch, 2.3inch or 4inch bright red LED display to indicate the weight on the platform.
Environment	Operating temperature: 0º to 55º Celsius
Humidity:	up to 95% RH non-condensing

Sample Ticket

```
                    ABC  WEIGHBRIDGE
                        NEW  CITY
                         INDIA

RST NO      .  :        23          VEHICLE NO  : MH 09 AB 1234
CUSTOMER    : GAGAN                 MATERIAL    : STEEL
COMMODITY   : RODS                  SOURCE      : NEW CITY
CHALLAN NO  : 9003                  DESTINATION : OLD CITY
ADDRESS     : 89/1 A.B ROAD NEW CITY  PHONE NO.  : 982751146
REMARK      : NA
-----------------------------------------------------------------
GROSS Wt:      23915 kg     Date:20/08/2015 Time:15:26
TARE  Wt:      15880 kg     Date:20/08/2015 Time:15:25
NET   Wt:       8035 kg     EIGHT ZERO THREE FIVE   kg

Charges(1): Rs. 700   Charges(2): Rs. 500   Charges(total): Rs. 1200
-----------------------------------------------------------------
OPERATOR'S SIGNATURE:

-----------------------------------------------------------------
                 Contact for repairs at tel no
```

Sample Report

```
                    ABC  WEIGHBRIDGE
                        NEW  CITY
                         INDIA
                                        Page Number:    1
ABC WEIGHBRIDGE
Report - from RST :   22  To :   27
For MATERIAL    STEEL
-----------------------------------------------------------------
SNo | RST | VEHICLE NO | CUSTOMER | MATERI | GROSS kg | Date & Time | TARE kg | Date & Time | NET kg | CHRG
 1 |  22 | MP 09 AB 123 | RAHUL | STEEL | 15880 | 20/08/2015 15:15 |  7940 | 20/08/2015 15:14 | 7940 |  700
 2 |  23 | MH 09 AB 123 | GAGAN | STEEL | 23915 | 20/08/2015 15:26 | 15880 | 20/08/2015 15:25 | 8035 | 1200
 3 |  24 | KA 29 AB 123 | RAHUL | STEEL | 23915 | 20/08/2015 15:28 | 15885 | 20/08/2015 15:28 | 8030 | 1400
 4 |  25 | JK 09 AB 123 | RAM   | STEEL | 15880 | 20/08/2015 15:29 |  7945 | 20/08/2015 15:30 | 7935 | 1200
 5 |  27 | JK 12 AB 123 | AMAN  | STEEL |  7940 | 20/08/2015 15:32 |    10 | 20/08/2015 15:32 | 7930 | 1200
-----------------------------------------------------------------
Total  ----------------------->                                    39870 | 5700
-----------------------------------------------------------------
```

Pen Drive dumping Screenshot

20081556.CSV - Microsoft Excel

RST	VEHICLE NO	CUSTOME	MATERIAL	COMMOD	SOURCE	CHALL	DESTINATIO	ADDRESS	PHONE NO.	REMARK	GROSS WE	DATE	TIME	TARE V	DATE	TIME	TOTAL	NET WEIGHT kg
22	MP 09 AB 1234	RAHUL	STEEL	RODS	INDORE	300	GOA	42/1 A.B. ROAD IN	9827056738	--	15880	20/08/201	15:15	7940	20/08/201	15:14	700	7940
23	MH 09 AB 1234	GAGAN	STEEL	RODS	NEW CITY	9003	OLD CITY	89/1 A.B ROAD NE	9827551146	NA	23915	20/08/201	15:26	15880	20/08/201	15:25	1200	8035
24	KA 29 AB 1234	RAHUL	STEEL	FOAMS	INDORE	9004	DELHI	UA 23 INDORE	9827511746	NA	23915	20/08/201	15:28	15885	20/08/201	15:28	1400	8030
25	JK 09 AB 1234	RAM	STEEL	PLATES	JAIPUR	800	BOMBAY	67 AH INDORE	9827511746	NA	15880	20/08/201	15:29	7945	20/08/201	15:30	1200	7935
27	JK 12 AB 123	AMAN	STEEL	TRADERS	JAIPUR	80	RAJ	12/3 JAIPUR	9827511746	NA	7940	20/08/201	15:32	10	20/08/201	15:32	1200	7930