

TECHNICAL SPECIFICATION

FULLY ELECTRONIC WEIGHBRIDGE CAP. 100 Tons.

The work of supplying, installing, and commissioning the weighbridge platform, including all associated ancillary works, shall be carried out using products manufactured by Himatnagar Scale Mfg. Co. or an equivalent manufacturer, subject to obtaining prior approval from the APMC.

WEIGHBRIDGE MILD STEEL PLATFORM

WEIGHBRIDGE ASSEMBLY MAX. CAPACITY	100 tons
CONSTRUCTION TYPE	PIT LESS TYPE
PLATFORM TYPE	Steel Deck Grade IS: 2062: 2006
MS PLATFORM TYPE	16 meter x 3 meter
READABILITY	10 Kg.
NO. OF LOAD CELLS	8 (Eight)

WEIGHBRIDGE MILD STEEL PLATFORM

MATERIAL OF CONSTRUCTION OF PLATFORM	Mild Steel conforming to IS: 2062:2006 / IS: 800 standards – SAIL or equivalent (Sail, VSP, AMNS, Tata, ESSAR, Jindal, etc.) - Fully welded, modular design - Floating type platform with longitudinal and lateral bumper assemblies
Top Deck Plate	10 mm thick Mild Steel Plate (IS:800 grade) with integrated 6 mm thick anti-skid ribbing
Painting Specifications	- C5 Grade Industrial Painting System, suitable for highly corrosive industrial and coastal environments (ISO 12944-5) - Surface Preparation: Thorough cleaning to remove rust, grease, dust, and other contaminants to ensure proper paint adhesion - Primer Coat: Two coats of epoxy polyamide-based anti-corrosive red oxide primer (total DFT 60–80 microns) - Finish Coat: One coat of epoxy polyamide-based grey industrial topcoat (DFT 40–60 microns) - Total Dry Film Thickness (DFT): Minimum 120–140 microns - Provides excellent resistance against chemicals, humidity, saline atmosphere, and UV exposure
OVERLOAD CAPACITY	SAFE: 150% of rated capacity
ULTIMATE LOAD	200% of rated capacity

LOAD CELLS

TYPE OF LOAD CELL	Digital Compression Loadcells (Peer to peer connecting) Pre – Calibrated Loadcells 30000kg.
CAPACITY OF EACH LOAD CELL	30000kg (30T)
Accuracy Class	OIML R60 C5
PROTECTION CLASS	IP68 (IEC 529 / EN 60529 : 1.5m water column / 10000hrs) IP69K (Water under high pressure, steam cleaning Sealing equivalent to NEMA 6)
LOAD CELL ENCLOSURE	Deep draw pulled housing membrane and measuring element hermetically sealed, welded, filled with inert gas.
Rated Output	1,000,000 Counts
COMMUNICATION	RS485
Minimum Sensitivity (Vmin)	E _{max} / 18,000
Excitation Voltage	5 to 15 V
Temperature Compensation	-10°C to +40°C
Operating Temperature Range	-20°C to +70°C
Temperature Limits	-40°C to +80°C
Insulation Resistance	Greater than 5,000 MΩ
Mountings	Anti-Rotation Stainless Steel Mountings
SAFE LOAD LIMIT	150% of rated capacity
ULTIMATED OVERLOAD	200% of rated capacity

WEIGHBRIDGE INDICATOR

APPROVAL	Approved by weight & measures for use in Class III
DISPLAY	7 Segment LED Display
ELEMENTS	6 Digit, t Segment plus dimension and status indicating LEDs
RANGE OF INPUT VOLTAGE	0 mv/v 3.3mv/v
CALIBRATION	With standard weights
POWER SUPPLY	230V AC, 50/60 Hz, max 12VA
Communication	COM1: 9-pin D-type RS232 port COM2: USB port for modern interface requirements External wired display connection port for remote visualization

JUNCTION BOX

Specifications	N/A
Protection	N/A

CABLE

Type	6 core Shielded cable
Anti-Rat Cable Features	<ul style="list-style-type: none">• Durable outer sheath specially designed to resist damage from rodents.• Rodent-resistant construction significantly improves cable longevity.• Environmentally safe materials used in cable manufacture.• Results in fewer failures, reduced downtime, and lower maintenance costs.
Standard Length available with weighbridge	As per requirement

DESKTOP & PRINTER & UPS

# DESKTOP	
Brand	HP / Lenovo
Hard Drive	1 TB SSD
RAM	16GB DDR3
Operating System	Win pro
Screen Size	19.5 inch LED
Camera	720P HD integrated web cam
Graphic Card	Integrated Graphics
Processor	Intel Core i5
Keyboard & Mouse	Wired USB
Communication port	Serial port
# PRINTER	
BRAND	HP / CANON
TYPE	Laser
# UPS	
BRAND	APC or equivalent
Capacity	600VA/360W
Microprocessor Controlled	Microprocessor to Guarantee high reliability
Input Voltage	230V AC
Input Voltage Range	140-300 V AC
Input Frequency	45-65 Hz (Auto Sensing)
Output Voltage	230 V AC
Output Voltage Regulation	195-253V
Output Frequency	50Hz or 60Hz
Battery Type	12V7AH x 1
Recharge Time	6 hours to 90% at normal mod
Transfer Time	4-8ms
LED Indicator	Green LED for various indication modes
Audible Alarm	Beeper with various beeper modes
Full Protection	Discharge, Overcharge and Overload protection
Power Outlets	3-Pin x 3
Noise Level	Less than 40dB
Warranty Period	2 Years (1 Year for battery)
# POWER STABILIZER	
Capacity	500 VA
Type	CVT
Brand	Standard

Optional Items:

- SMS Integration facility
- WhatsApp Integration facility
- Internet (I-Net) Facility
- Ethernet Connectivity
- SAP (ERP) System Integration
- CCTV Camera Systems

Note: Optional items require separate purchase and are not included in the standard supply.