

ENDEAVOUR



www.endeavourweigh.com

www.endeavourcranes.com

www.electroelsaindia.com



ENDEAVOUR

TOTAL WEIGHING SOLUTION

MANUFACTURING UNIT



OUR INFRASTRUCTURE

We possess a state-of-the-art manufacturing unit at Changodar near Ahmedabad, India with ultra modern machinery and qualified trained manpower. Positioning high upon our strong infrastructural base, we are mounting high by catering a huge market in the world with customer satisfaction by offering highly sophisticated and precise weighing & lifting equipments. Our factory is well equipped with advance technology to manufacture world-class products at the most affordable prices replete with an ideal combination of skilled manpower. We always strive for minimizing the production cost of all our products by using latest technology to avail customers. Our R&D team keeps the track of working conditions of the equipments on their depreciation.

CORPORATE OFFICE



QUALITY ASSURANCE

Every material handling & lifting equipment manufactured by Endeavour Instrument Pvt. Ltd. is high in terms of quality and performance. We engineer our products by incorporating the latest technology. We follow rigorous quality control measures at every stage of the manufacturing process, and eliminate any occurrence of quality degradation then and there. Our products have been certified by ISI, while our company has been accredited with the ISO 9001:2000 certification, which testify our strong commitment to quality.



- **WEIGHING SOLUTION**
- **MATERIAL HANDLING SOLUTION**
- **CONSTRUCTION MATERIAL LIFTING SOLUTION**

A prominent name in the field of industrial electronic Weighing Systems and Scales, Material Handling Equipments, Endeavour Instrument Pvt. Ltd., has carved a niche for itself as a trusted and reliable organization. Since its inception in 1992, EIPL has fortified its position as a “Total Weighing & Lifting Solution”.

An ISO 9001:2000 certified organization based in Ahmedabad, INDIA; Endeavour is always sensitized of modern technology, and hence it is equipped with advance machinery & testing instruments. The Company in recent times has reached exceptional milestones to its credit in the field of Weigh Bridge and MHE Products.



WEIGHING SOLUTION

www.endeavourweigh.com

PIT TYPE WEIGHBRIDGE



Pit Type Weigh bridge is installed at ground level in such a manner that vehicle can easily drive on the weigh bridge as the foundation is constructed in the pit. This type of weigh bridge is most suitable for places with limited space.

AXLE WEIGHBRIDGE



Axle weigh bridge is installed at ground level on road to know the axle weight of moving vehicle individually and in total as vehicle weight. Accuracy of the same is comparatively lesser than static weigh bridge. This weigh bridge is known as dynamic weigh bridge as the weighing is done without stopping the vehicle.



PIT-LESS TYPE WEIGHBRIDGE

Pit less type weigh bridge is installed above the ground level in such a manner that vehicle can drive on the weigh bridge through slope on both sides as foundation is constructed above the ground. The weigh bridge will be above the ground level, easy to maintain, comparatively less civil work and cost.



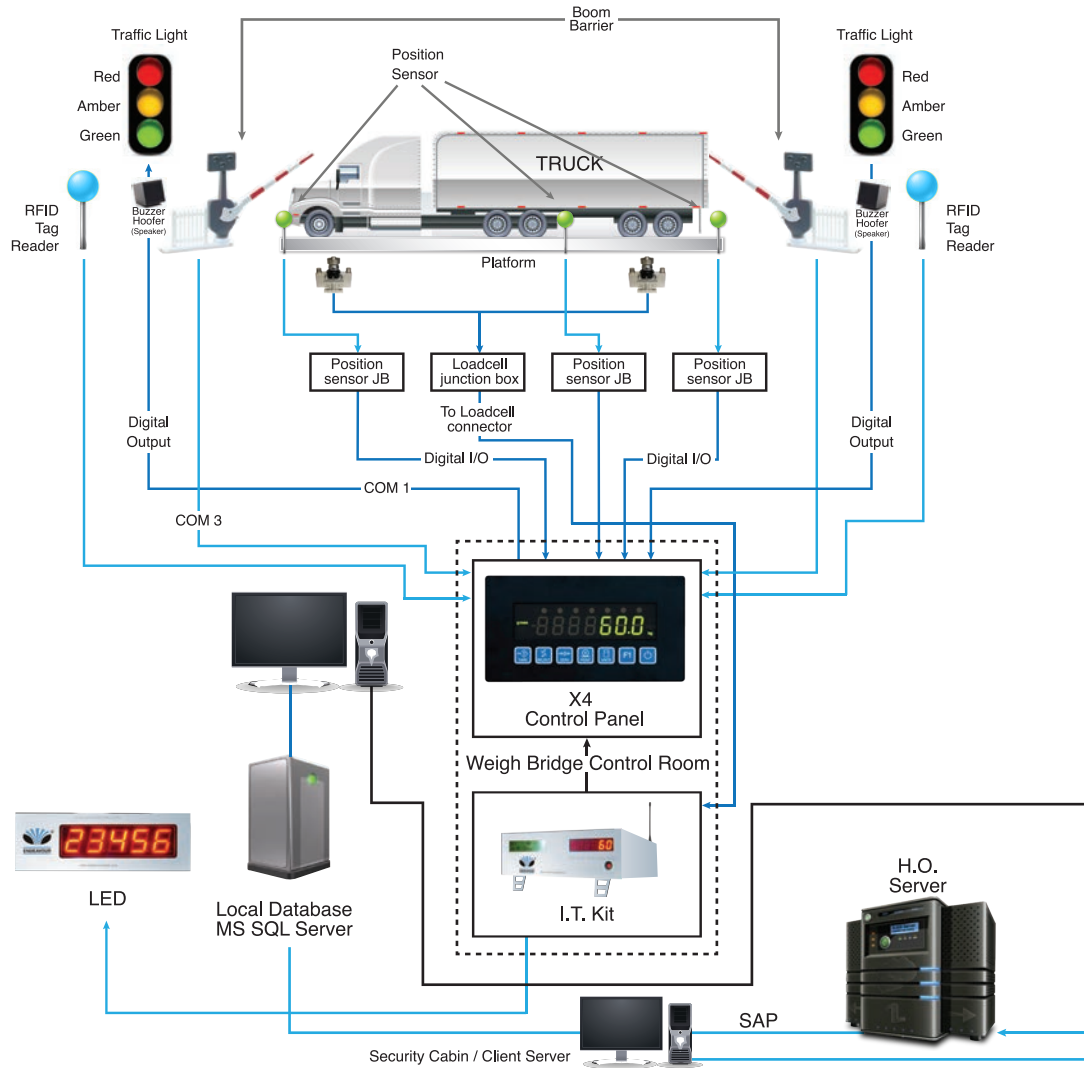
MOBILE WEIGHBRIDGE

Mobile weigh bridge is generally above the ground with least construction cost, can be installed in such a manner that vehicle can drive through type path. The whole weigh bridge is made of prefabricated blocks which can be easily transport, erect and dismantle. This weigh bridge are available with/ without prefabricated ms- ramps.



UN-MANNED WEIGHBRIDGE

EIPL have completely automated unmanned weigh bridges available with boom barrier, vehicle positioning with the help of photo sensor, vehicle identification along with the light signals for smooth operation. Weigh Bridges are available in all models.



WEIGHT PAD



EIPL manufacture high quality weigh pad at market leading prices. Weigh Pads are ideal for weighing two axle rigid vehicles. These are suitable for spot checking of overload conditions by fleet managers and law enforcement agencies. Can be placed simply on the road and also can be carried in brief case.

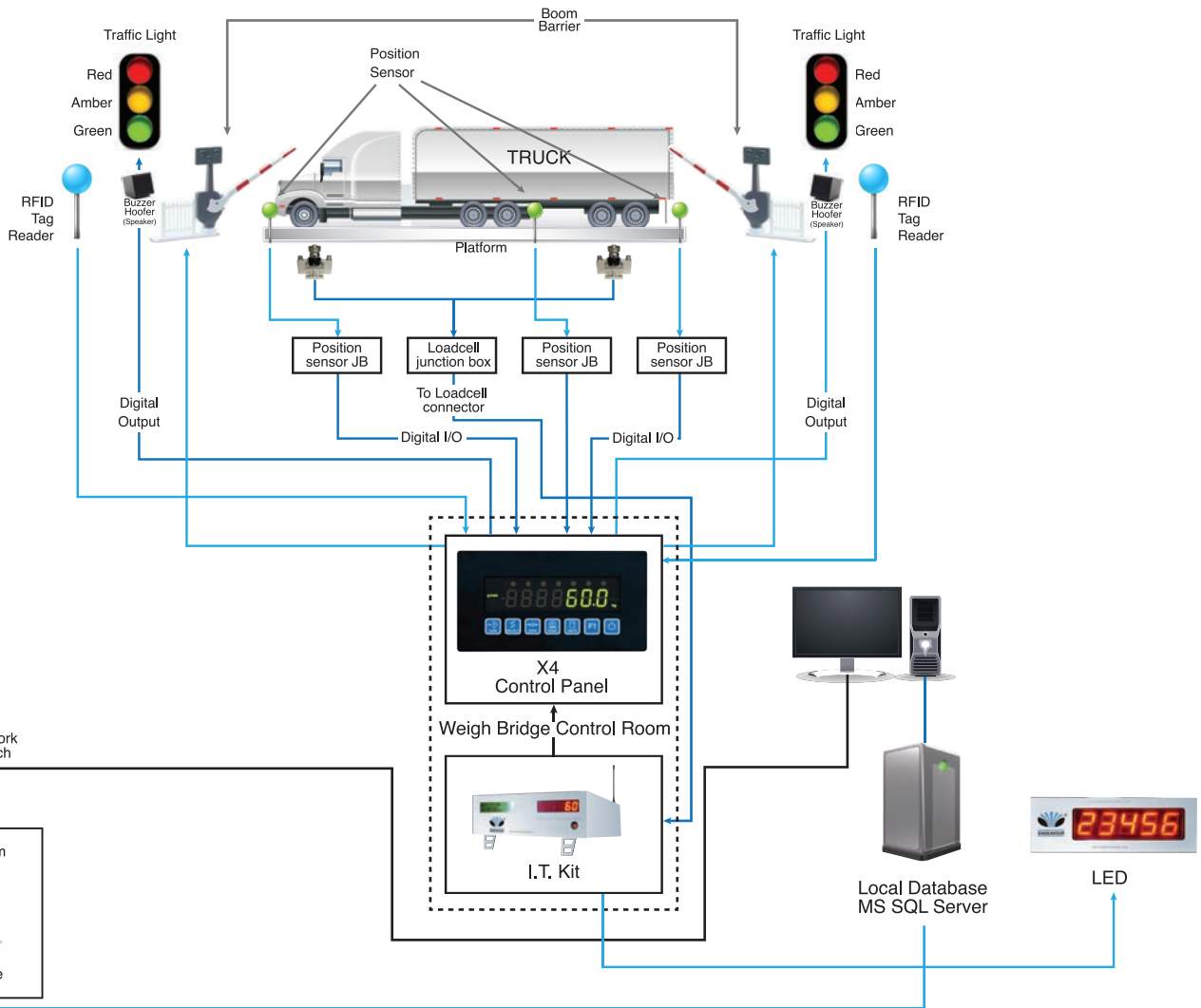
RAIL IN MOTION



EIPL manufacture the rail in motion with anti roll back facility to know the weight carried by each wagon individually and in total by placing built on load cell in existing rail track with limit switches.



ENDEAVOUR
TOTAL WEIGHING SOLUTION



Weighbridge Specifications:

Model No.	Capacity	Accuracy	Platform size (mtr)
WB-E- 25MT	25MT	5kg	7.5 X 3; 9 X 3
WB-E- 30MT	30MT	5kg	7.5 X 3; 9 X 3
WB-E- 40MT	40MT	5kg	7.5 X 3; 9 X 3; 12 X 3
WB-E- 50MT	50MT	5kg	7.5 X 3; 9 X 3; 12 X 3
WB-E- 60MT	60MT	10kg	12 X 3; 15 X 3
WB-E- 80MT	80MT	10kg	16 X 3; 18 X 3
WB-E- 100MT	100MT	10kg	16 X 3; 18 X 3; 20 X 3; 24 X 3
WB-E- 150MT	150MT	20kg	18 X 3; 20 X 3; 24 X 3
Customize	60MT to 150MT		10 X 5.5; 18 X 4.5; 17.5 X 3.5

Note

- Available in Pit type, Pit less type and Mobile type.
- Available in different type Loadcells; Cup & Ball type, Compression type, Digital type.



ENDEAVOUR
TOTAL WEIGHING SOLUTION

INTELLIGENT TERMINAL KIT FEATURES

Memory	: 8k + 128 data storage of 3000 operations with battery back up
Printer Port	: Centronics compatible parallel port
Serial Port	: 1 no. RS 232 C type port is available for computer interface
Display	: 20 character X 2 line LCD display with back light & LED display
Jumbo Display	: 7 segment, 6 digit (60mm height), red LED
Consolidated Reports	: Date wise, customer wise, commodity, consignee wise
Input Voltage	: 200V – 250V AC @ 50Hz
Power Consumption	: 10VA(approx)
Environmental Operating temperature	: 10 to 55 celsius
Humidity	: 0 to 95% noncondensing
Optional Facility	: 1 lac weightment data storage / USB port for data extracting from eprom / Auto sms facility / Auto email facility



JUNCTION BOX



IT KIT



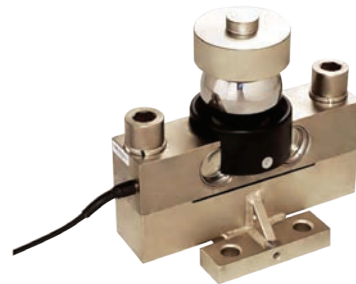
JUMBO DISPLAY

DIGITAL LOAD CELL SYSTEM

Digital Load Cell system is a brand new electronic weighing appliance developed from the strain gauge sensor by using modern micro-electronics technology and micro-computer integration. It includes two parts, analogue load cell(strain gauge) and digital converter module. Converter module is a high-integrated electronic circuit and adopts SMT on the surface. It mainly includes amplifier, A/D converter, microprocessor (CPU), memorizer (EEPROM calibration memory), interface circuit (RS485) and digital load cell.

FEATURES

- High precision, High Reliability
- Consistency & Interchangeability
- Good long term stability, great anti-interference ability
- Self-distinguish and Malfunction diagnosing easily
- High flexibility
- High security to avoid cheat function



TECHNICAL SPECIFICATIONS

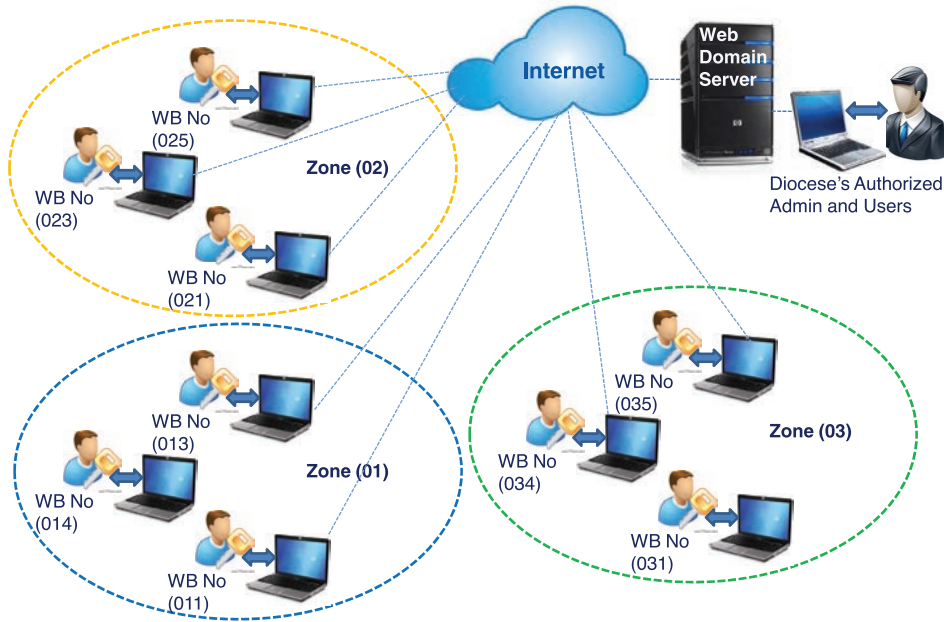
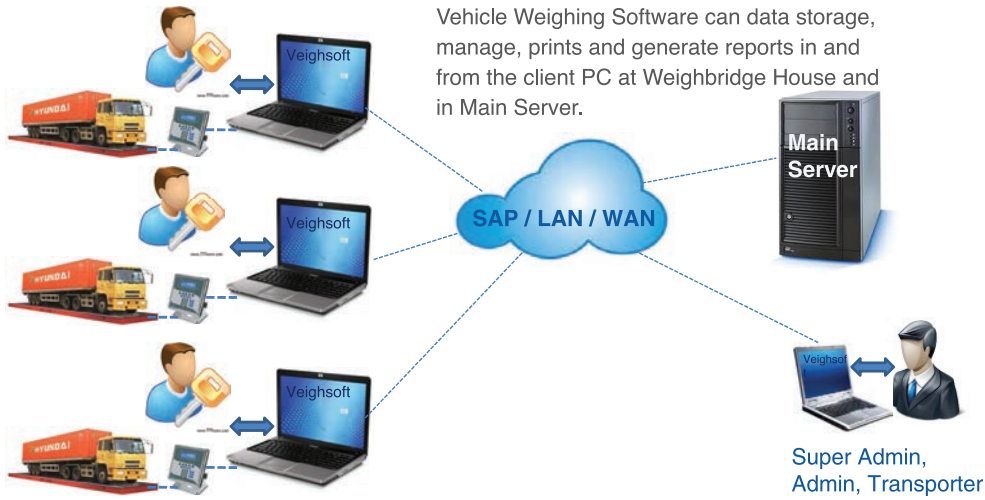
Data Conversion Rate	: 50 Measurements per second
Data Transmission Rate	: 9600 BPS
Resolution	: 100000 counts
Combined Error	: +/- 0.02 % F.S.
Creep Error (30 min)	: +/- 0.02 % F.S.
Temperature Effect on Sensitivity	: +/- 0.02% F.S. /10° C
Operating Temperature	: -30 to +70° C
Load Cell Number	: 1- 32
Zero Balance	: +/- 0.1% F.S.
Safe Over Load	: 150% F.S.
Protection	: IP68
Recommended Excitation	: 9-12 VDC
Maximum Excitation	: 20 VDC
Maximum Signal Transmission Distance	: 1200 meter



Vehicle Weighing Software System Architecture

Client – Server Model: EIPL Live

Vehicle Weighing Software can data storage, manage, prints and generate reports in and from the client PC at Weighbridge House and in Main Server.



Slip Entry

Slip Entry
Last Ticket No :

Ticket No : Select Gross Tare

Gross Weight : Date : 22/01/2013 12:32 T

Tare Weight : Date : 22/01/2013 12:32 T

Net Weight :

Nett First Second

Auto Manual

VEHICLE NO :

SUPPLIER :

RECEIVER :

MATERIAL :

CHARGES : Cash

Connect Comport

Save Clear Close

NONE OK

Software Available with

Standard for weighing with LAN | Multiple weigh bridge connectivity | Automatic SMS facility
 SAP connectivity | Automatic E-mail facility | ERP attachment facility | txt. exe. file facility |
 Any Customized software also available



CRANE SCALE



Optional Remote Display



MODEL	CAPACITY (KG)	ACCURACY
OCS-SL-2	2000	200gm
OCS-SL-3	3000	500gm
OCS-SL-5	5000	500gm
OCS-SL-10	10000	1 kg
OCS-SL-15	15000	2 kg
OCS-SL-20	20000	2 kg

TEMP. PROOF CRANE SCALE

With Remote Display

MODEL	CAPACITY	ACCURACY
OCS-SH-1	1000 Kg	100 gm
OCS-SH-2	2000 Kg	200 gm
OCS-SH-3	3000 Kg	500 gm
OCS-SH-5	5000 Ton	500 gm
OCS-SH-10	10000 Ton	1 Kg
OCS-SH-15	15000 Ton	2 Kg
OCS-SH-20	20000 Ton	2 Kg
OCS-SH-30	30000 Ton	5 Kg
OCS-SH-40	40000 Ton	5 Kg
OCS-SH-50	50000 Ton	5 Kg

Big Easy readable red LED display
Height : 1.2"
Accuracy : Compatible to OIML class III
Rapid Display (within 3 - 5 seconds)
Power saving function Auto shut off after 1.5 hrs of non - use
Full function remote controller (optional)



WIRELESS HEAT PROOF CRANE SCALE



MODEL	CAPACITY	ACCURACY
OCS-SWH6-1	1000 Kg	100 gm
OCS-SWH6-2	2000 Kg	200 gm
OCS-SWH6-3	3000 Kg	500 gm
OCS-SWH6-5	5000 Ton	500 gm
OCS-SWH6-10	10000 Ton	1 Kg
OCS-SWH6-15	15000 Ton	2 Kg
OCS-SWH6-20	20000 Ton	2 Kg
OCS-SWH6-30	30000 Ton	5 Kg
OCS-SWH6-50	50000 Ton	5 Kg

TANK WEIGHING

MODEL	EIPL-SYS-TWS
WEIGHING RANGE	Upto 100 Ton
RESOLUTION	0.016% of FSO
ACCURACY	0.25%
NO. OF LOADCELL	Three / Four

SPECIAL FEATURES

- PLC Based Controller with Lcd Display
- Fast Weigh Response
- Auto Digital Fine Calibration
- Battery backed Ram for Saving various Data
- Isolated Relay Out - put
- Fail Safe Interlocks & Protection for overload
- Accurate and Sturdy Load - Cells
- Isolated Relay Out - put
- Accuracy : Compatible to OIML Class III
- Suitable for wide variety of Tank Capacities and Shapes



SHEAR BEAM TYPE



ENDEAVOUR

TOTAL WEIGHING SOLUTION

PLATFORM SCALE

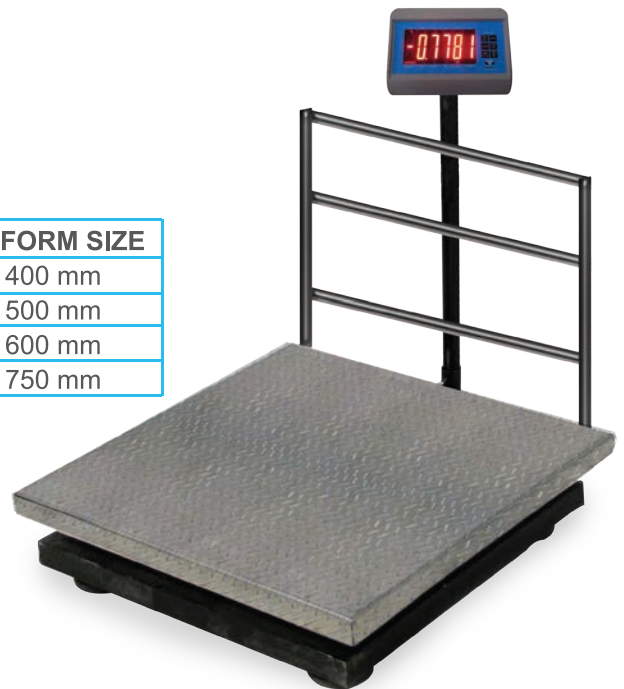


FEATURES

- Sturdy MS square pipe structure provides equal load distribution.
- Sturdy structure for rugged use.
- Optional Application:
-RS232 / Parallel display / Inbuilt printer.
- Optional SS / MS Top Available.
- Heavy duty structure.
- Stainless steel top, Back Grill.
- Overload Protection.

SPECIFICATIONS

MODEL NO.	CAPACITY	ACCURACY	PLATFORM SIZE
DS	50 / 60 / 75 Kg	5 gm	400 x 400 mm
PS	100 / 200 Kg	10 / 20 gm	500 x 500 mm
PS	100 / 200 / 300 Kg	10 / 20 / 50 gm	600 x 600 mm
PS	300 / 500 Kg	50 gm	750 x 750 mm



SPECIFICATIONS

MODEL NO.	CAPACITY	ACCURACY	PLATFORM SIZE
SS	500 Kg	50 gm	900 x 900 mm
SS	1000 Kg	100 gm	900 x 900 mm
SS	2000 Kg	200 gm	900 x 900 mm
SS	3000 Kg	500 gm	900 x 900 mm
SS	500 Kg	50 gm	1250 x 1250 mm
SS	1000 Kg	100 gm	1250 x 1250 mm
SS	2000 Kg	200 gm	1250 x 1250 mm
SS	3000 Kg	500 gm	1250 x 1250 mm
SS	5000 Kg	500 gm	1250 x 1250 mm
SS	10000 Kg	1 Kg	1250 x 1250 mm

FEATURES

- C channel structure provides equal Load distribution.
- Standard Mild Steel checkered Top cover and Back grill for support.
- Over Load stoppers and Transport Protection.
- Rocker pin foot assembly provides stability and durability (EPSX series).
- EPSS Series - four load cell system.
- EPSX Series - Four Load Cell System - Single point beam Load Cell.



MATERIAL HANDLING SOLUTION

www.endeavourcranes.com

EOT Crane | Goliath / Gantry Crane | JIB Crane
Wire Rope Hoist | Goods Lift

WIRE ROPE HOIST

ENDEAVOUR Wire Rope Hoist are designed to optimize cranes application with high efficiency, which offers high speed as per comprehensive standard features. Manufactured in compliance to IS 3938 to suit Class II, III & IV application.

Capacity : 1MT to 25MT

- Modular Construction
- Designed at 125% of rated capacity
- Components are easily accessible for maintenance.
- Flexible trolley / Push Pull Trolley, options available.
- Variable Speed Control / Micro speed, options available.
- Flame Proof Variant also available.



GOODS / HYDRAULIC LIFT

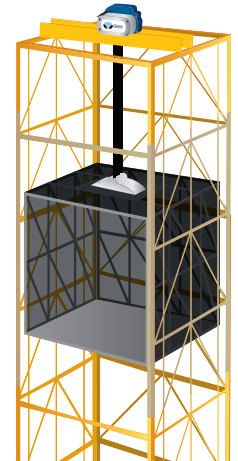
Designed to suit client's specific requirement using superior quality raw material and bought out items.

Goods Lift / Cage Lift are guided in steel guide member (T-section) with hoisting and lowering operations performed by our electric wire rope hoist. Operation is through interlocked push buttons. Limit switches are provided for safety.

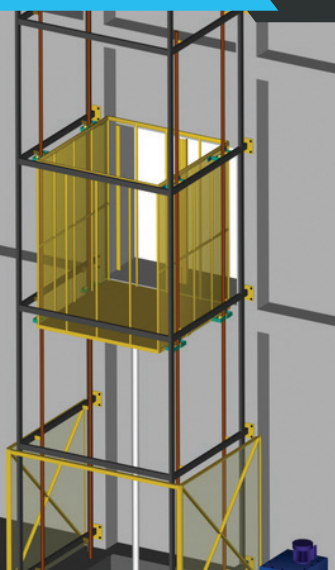
We provide a variety of cage lift in various size and capacity as per our client requirement with or without collapsible gate.

- Suitable for lifting loads from one floor to the other floors, vertically.
- Maximum lift height 12 Mtrs for Hydraulic Lift and upto 35 Mtrs for Electric Goods Lift.
- Capacity ranges from 0.5 To 3.0 Ton
- Available with Sliding and Collapsible doors.

Capacity :
0.5 tons to 7.5 tons



Electric Goods Lift



Hydraulic Lift



CRANE KIT

Shrouded Bus Bar System & Festoon System

Owing to the efficiency, robust construction and longer service life, these products are highly appreciated and demanded among the customers. Suitable for Indoor/Outdoor Installation; Touch proof, no exposed live part; Insulating cover shaped to shed from water and dust. Festoon includes Track support Bracket, Track Coupler, End Stop and End Clamp.



End Carriages - Convenient Long And Cross-Travel Motions

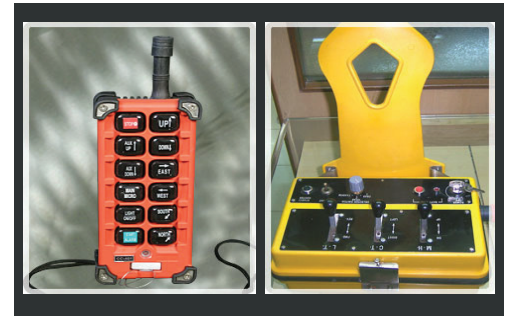
Our corner-bearing end carriages are versatile, modular rail-mounted travel units of torsionally rigid box-section design. They can be connected direct to load-bearing super structures for cranes or trolleys.

Configurable for load capacity ranges; Optimized design of the entire crane system; Convenient adjustment and maintenance.

Radio Remote Control

Our radio control system is the ideal solution for optimum ergonomic operation of high-performance hoists. This radio control offers much greater flexibility than cable-connected control systems and ensures that the operator can maintain a safe distance from the load at all times.

Strong, tough hand-held transmitter; Reliable radio transmission due to frequency hopping; Ergonomic design; Fast installation and simple operation.



Rope Drum And Guide

The Rope Drum is made of sturdy seamless pipe or fabricated from steel plates and is grooved to take the full lift without over winding. Large drum diameter to rope diameter ratio reduces wear and cable fatigue. The drum shaft revolves in ball bearings, ensuring smooth running.

Equipped with Rope Guide to prevent over lapping of the rope on the drum and to extend rope life.

GENERAL APPLICATIONS

Steel Plants Induction
Furnaces Paper Mills
Cold Rolling Mills Arc
Furnace Chemical
Plants Power Plants
Construction Sites
Cement Plants
Workshop Production
Units Assembly Lines
Automobile Industry

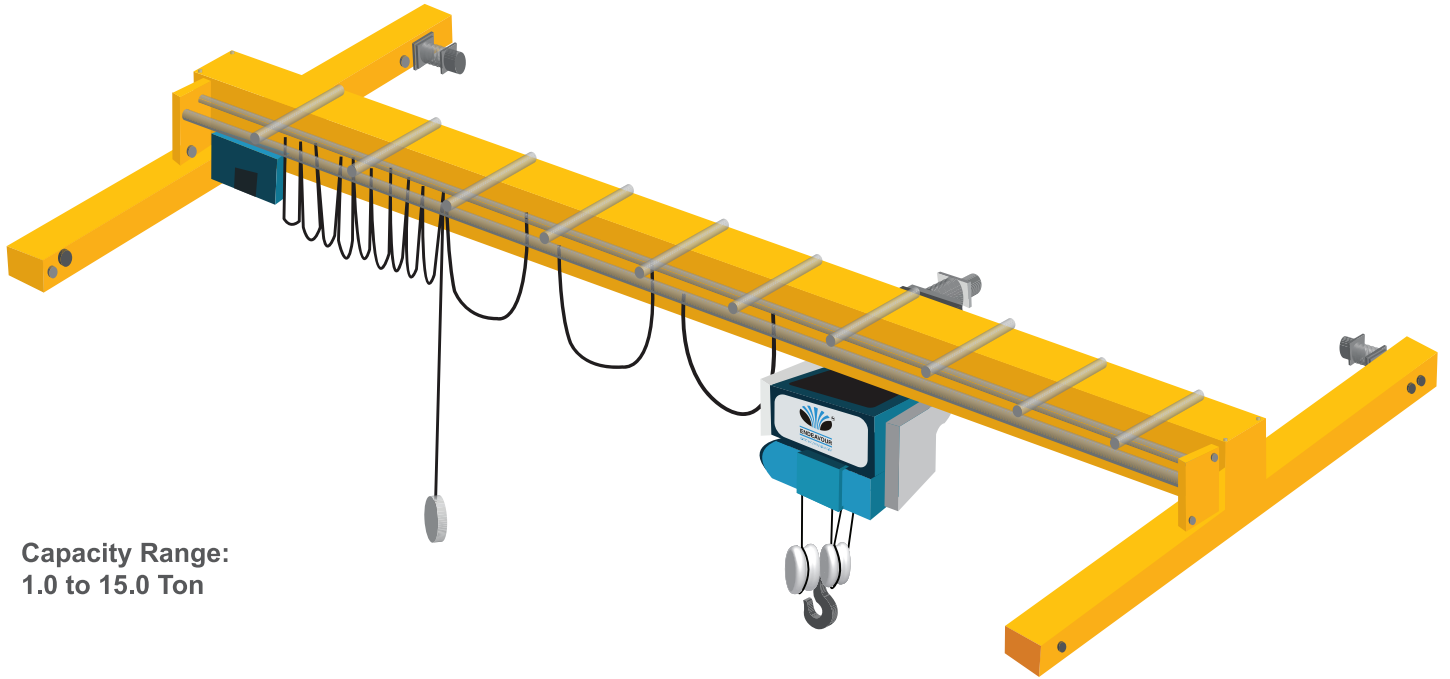
Used for Glass
Handling
Heavy Engineering
Industries
Container Handling
Dyeing Plants
Woolen Mills
Chemical Units
Pharmaceutical Units
Petrochemical Plants

Foundries
Railway Workshops.
Handling
Heavy Engineering
Industries
Fertilizers
General Engineering
works
Storage Areas
Pipe Plants



SINGLE GIRDER CRANE

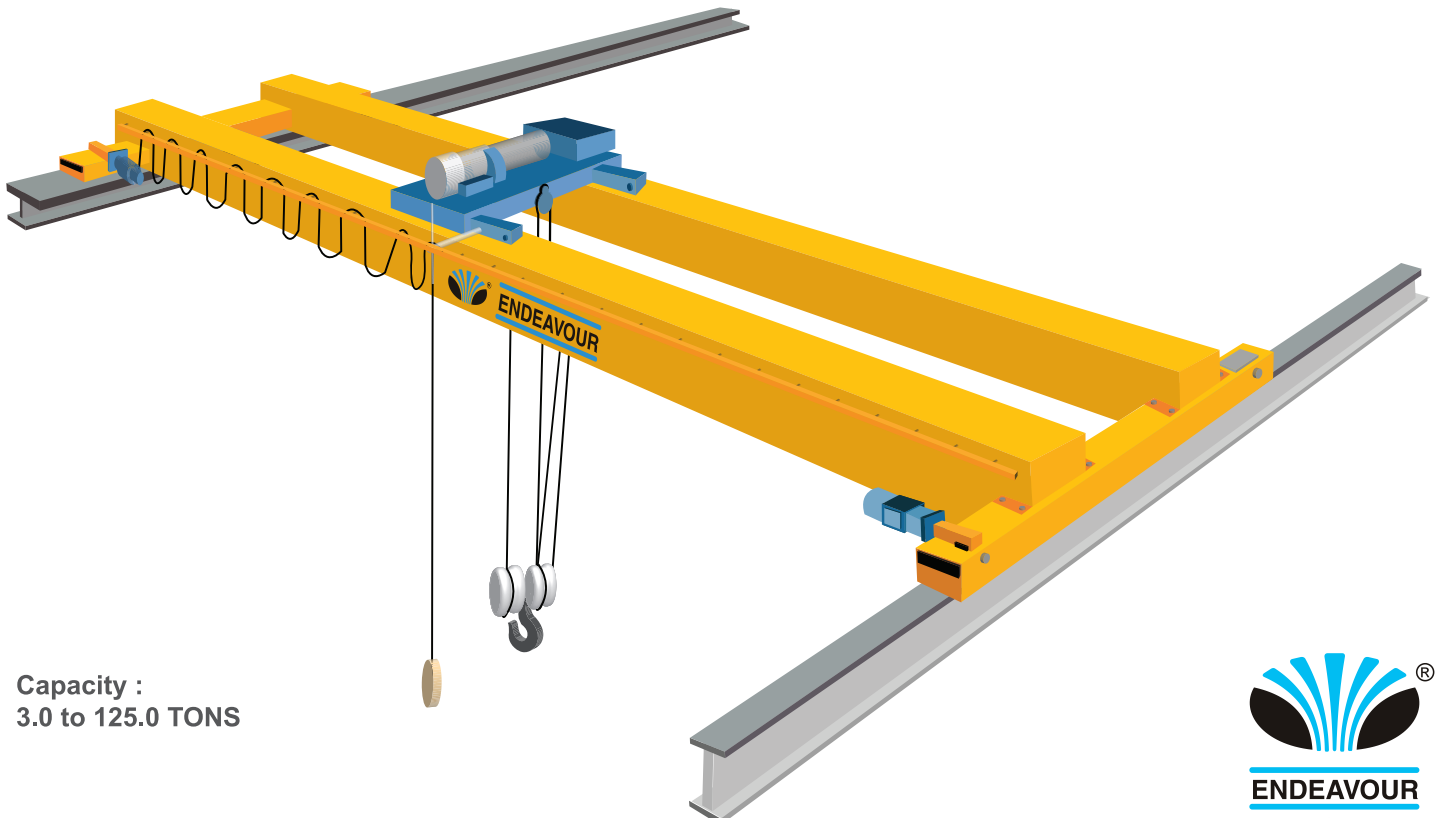
Single Girder overhead traveling cranes designed and manufactured in compliance to IS 807 & IS 3177 for different applications to appropriate class & duty / Hoist machinery designed in compliance to IS 3938. It is provided with high-quality, cost-effective design suitable to customer application.



Capacity Range:
1.0 to 15.0 Ton

DOUBLE GIRDER CRANE

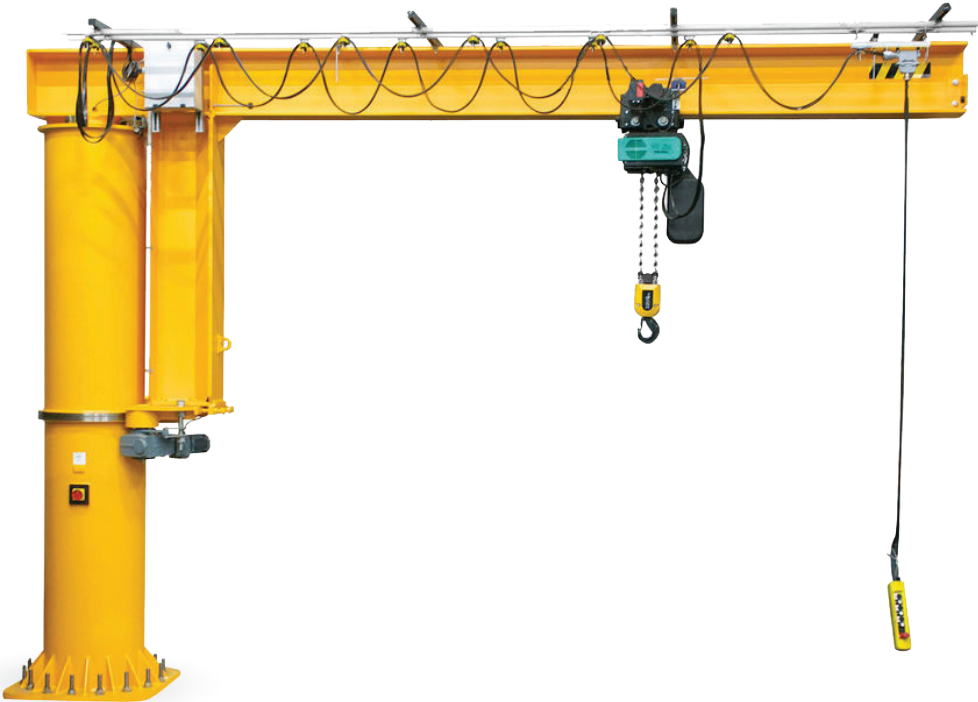
Double Girder overhead traveling cranes designed and manufactured for bearing higher load. These are available in lifting capacities ranging from 3.0 to 125.0 Ton for all Classes to suit the required application.



Capacity :
3.0 to 125.0 TONS



JIB CRANE



JIB arm is suitable to accommodate trolley with chain pulley block for manual travel and lifting operations or electric wire rope hoist for power operations.

Capacity : 250 kgs to 10 ton
Swing facility of 90°, 180°, 270° & 360°
Arm length available as per requirement up to 8 meters

GOLIATH / GANTRY

These cranes are essentially the same as the regular overhead cranes except that the bridge for carrying the trolley or trolleys is rigidly supported on two or more legs running on fixed rails or other runway.

A gantry crane has a hoist in a trolley which runs horizontally along gantry rails, usually fitted above a beam spanning between legs which themselves have wheels so that the whole crane can move at right angles to the direction of the gantry rails.

These cranes come in all sizes, and some can move very heavy loads, particularly the extremely large examples used in shipyards or industrial installations.

Generally suit to all classes as per requirement.

Capacity : 1 to 100 T | Genrally Required for Outdoor Application

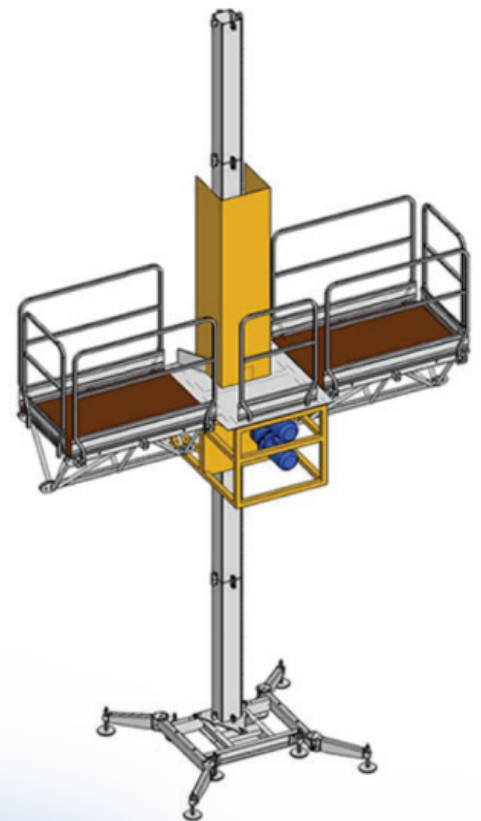


CONSTRUCTION MATERIAL LIFTING SOLUTION

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EP 2818

Technical Data	EP-2818
Max. Capacity	1250 kg
Lifting Speed	10,6 m/min
Max Platform Length	6,9 m
Width	0,8 m
Standard Telesc. extension	0,8 m
Max freestanding Height	6 m
Max Anchored Height	80 m
Max tie Distance	7,5 m max
Input Power Range	380/50 Hz - 415/60 Hz
Power of the Motors	2 x 1,5 kW
Minimum line Power required	6 kW
Max Extension Length	2.m* max

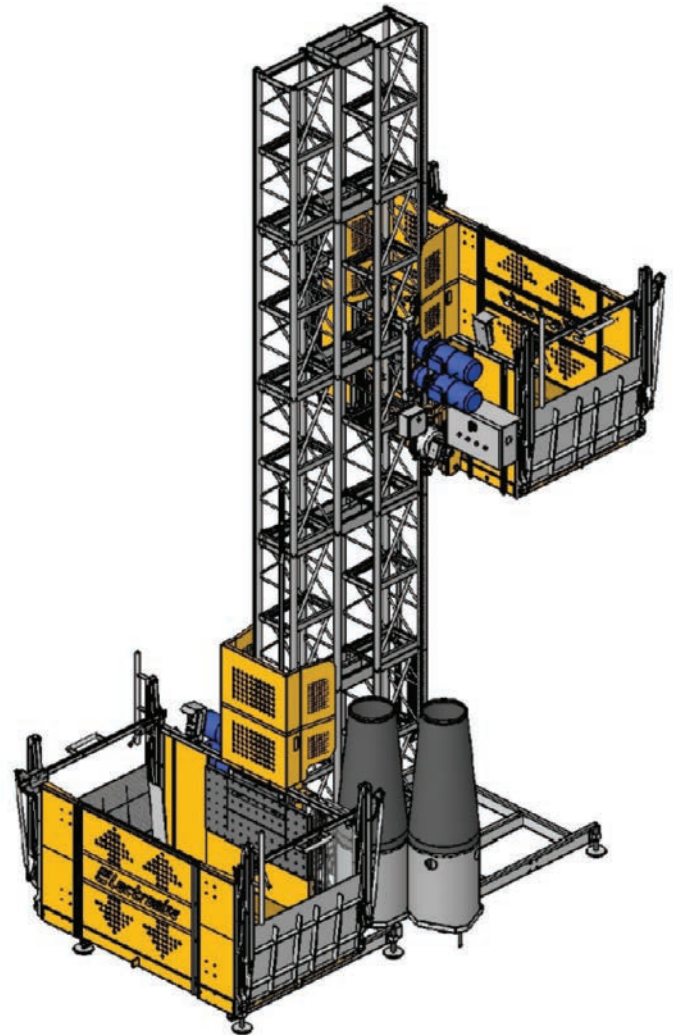
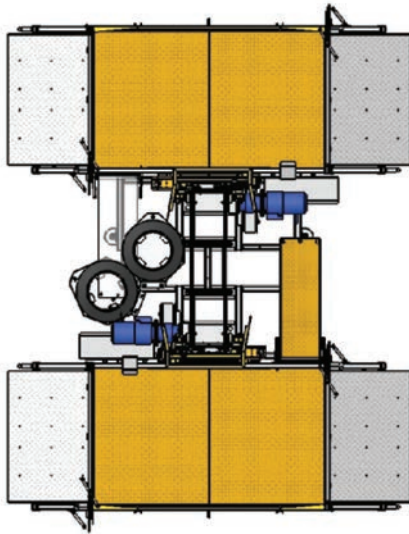


EHPM 1000 MINI

Technical Data	EHPM 1000 Mini Three Phase	EHPM 1000 Mini Single Phase
Capacity	1000 kg	700 kg
Lifting speed	12 m/min	10,4 m/min
Max anchored height	120 m	120 m
Platform dimensions	1,50x 1,13 m	1,50x1,13m
Input power range	380/415 V-50/60HZ	220/230 V - 50/60HZ
Protection switch	16A	16A
Power of the motors	1x4 kW	1 x 2,2 kW
Starting current	50 A	56 A
Minimum line power required	8kW	3kW



EHPM 2500/20



Technical Data	Tri-fase each Cabin
Capacity	2000 kg
Lifting Speed	12 m/min
Max Anchored Height	160 m
Platform Dimensions	2360 x 1321 mm
Input Power Range	380/415 V, 50/60 Hz
Protection Switch	25 A
Power of the Motors	2 x 4 kW
Starting Current	130 A
Minimum Line Power required (suggested)	12 kW

EHPM 2500/20 - Each Cabin



SUSPENDED ACCESS EQUIPMENT

Temporarily installed suspended access equipment is ideal equipment for building facade construction, decoration, cleaning and maintenance. And it is also widely used in elevator installing, ship building and repairing, or in other work such as big-size tank, bridge, embankment and chimney. Versatile knock-down platforms provide workers safe, easier and more efficient platform access.

Because of superior quality and first class service, these platforms are widely applied in major international and national construction projects. And now our products are exported to various countries and regions all over the world.

TECHNICAL PARAMETERS OF ROPE SUSPENDED PLATFORM

Type	ZLP 250	ZLP 500	ZLP 630	ZLP 800	ZLP 1000	
Rated Capacity	250 Kg	500 Kg	630 Kg	800 Kg	1000 Kg	
Lifting Height	100 m	100 m	100 m	100 m	100 m	
Rated Lifting Speed	9 - 11 m/min	9 - 11 m/min	9 - 11 m/min	9 - 11 m/min	8 - 10 m/min	
Platform Dimension L x W x H mm	1200 x 720 x 2300	5000 x 720 x 1100	6000 x 720 x 1300	7500 x 720 x 1300	7500 x 720 x 1300	
Wire Rope Diameter	Φ 8.3 mm	Φ 8.3 mm	Φ 8.3 mm	Φ 9.1 mm	Φ 8.6 mm	
Hoist	Power	1.5 KW x 1	1.1 KW x 2	1.5 KW x 2	1.8 KW x 2	1.8 KW x 2
	Voltage	110 V - 380 V, 50 Hz - 60 Hz				
Safety Lock	Permission force of Impact	30 KN	30 KN	30 KN	30 KN	30 KN
	Locking Cable	3 - 8	3 - 8	3 - 8	3 - 8	3 - 8
Suspended Mechanism	Front beam overhang	1.3 - 1.5 m	1.3 - 1.5 m	1.3 - 1.5 m	1.3 - 1.5 m	1.3 - 1.5 m
	Adjustable height of the beam	1.44 - 2.14 m	1.44 - 2.14 m	1.44 - 2.14 m	1.44 - 2.14 m	1.44 - 2.14 m
Counter Weight	500 kg	800 kg	1000 kg	1000 kg	1200 kg	



FEW ESTEEMED CUSTOMERS

 <p>RELIANCE Anil Dhirubhai Ambani Group Infrastructure</p>	 <p>Reliance Industries Limited</p>	 <p>TATA CHEMICALS</p>	 <p>JINDAL</p>
 <p>सेल SAIL <small>SAIL Recruitment 2023</small></p>	 <p>सेल SAIL <small>SAIL Recruitment 2023</small></p>	 <p>ADANI</p>	 <p>ESSAR</p>
 <p>THERMAX</p>	 <p>Mahindra</p>	 <p>Crompton Greaves EVERYDAY SOLUTIONS</p>	 <p>itcon</p>
 <p>GEB</p>	 <p>इंडियनऑयल IndianOil</p>	 <p>Sintex</p>	 <p>Godrej</p>
 <p>HCL</p>	 <p>एनटीपीसी NTPC</p>	 <p>बी एच ई एल BHEL</p>	 <p>कॉनकॉर CONCOR</p>
 <p>Binani BRAJ BINANI GROUP</p>	 <p>WELSPUN Dare to Commit Welspun Energy Ltd.</p>	 <p>गैल GAIL</p>	 <p>LAFARGE</p>



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ENDEAVOUR INSTRUMENT PVT. LTD.

Manufacturer & Exporter of Electronic Weighing Scales & Weighbridges.

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Tel.: +91-79-26582693/4/5/6/7 • Fax: +91-79-26582107 • Email: info@endeavourweigh.com

Factory :

45/3 Changoder Ind. Estate, A'bad. Dist. Co-Op Bank Road, Opp S. T. Bus Stand,
Sarkhej- Bavla Highway, Changoder- 382 231, Sanand-Ahmedabad (Gujarat)

