Linkage
Technologies Inc.

Occupational Health & Safety Equipments

Product Catalogue

Company Profile

Linkage Technologies Inc. is an ISO 9001-2000 certified company, engaged in manufacturing, designing and development of electronic products since 1989. We hold our expertise in development of customized electronic products for the several industry sectors considering the various factors as per the client's industry.

Over the past few years, we have developed highly effective and useful LED based health and safety products to lower the rate of industrial hazards.

Without safe, clean environment as well as healthy working conditions, social justice and economic growth cannot be achieved and that safe and healthy working environment is recognized as a fundamental human right. Education, training, consultation and exchange of information and good practices are essential for prevention and promotion of such measures.

Employee health and safety is a paramount concern for the Industries as there is always a risk of industrial hazards to occur which have adverse effects on company's performance. In order to minimize that risk it is primitive to implement effective mechanisms to ensure employee health and safety.

After carefully understanding the concerns and needs of various industries, we have developed customized safety systems safeguarding the interest of company's workmen at industry.
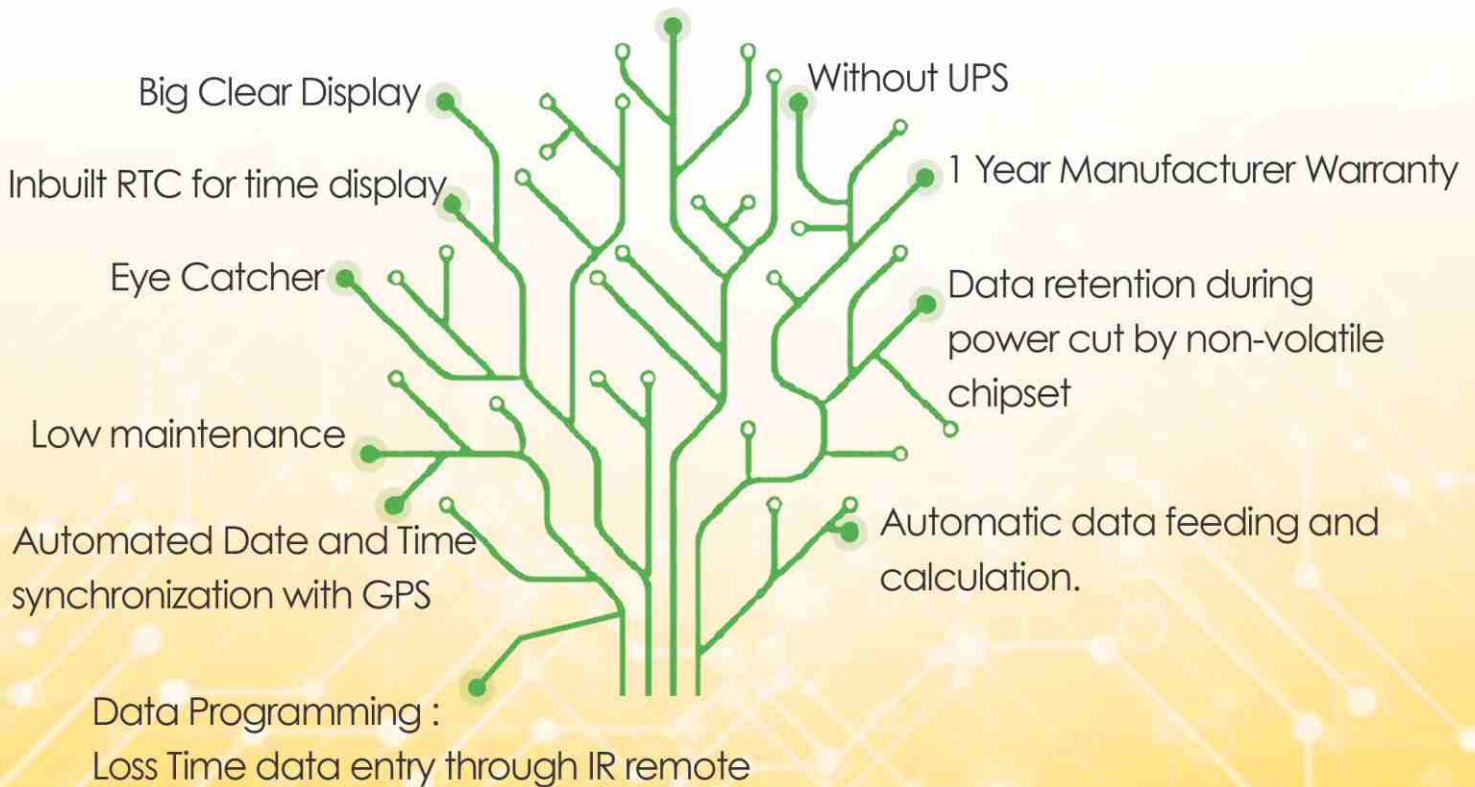
Our Prestigious Clientele

1. EHS Statistics Display Board

Employee Health & Safety display board is a real time GPS based Public Information System (PIS), which displays the statistical data of various parameters of Employee Health Safety of any organization. The LED based display board fetches real time data and enables the viewer to get a quick brief about the safety measures taken by an organization. This PIS data immediately catches the eye of the viewer and also reflects the organization's behavior towards safety and security of its employees. The regulations of Indian Labor Laws requires the employer to disclose information about measures taken to safeguard employee's health and safety.

Salient Features

- Big Clear Display
- Inbuilt RTC for time display
- Eye Catcher
- Low maintenance
- Automated Date and Time synchronization with GPS
- Data Programming : Loss Time data entry through IR remote
- Without UPS
- 1 Year Manufacturer Warranty
- Data retention during power cut by non-volatile chipset
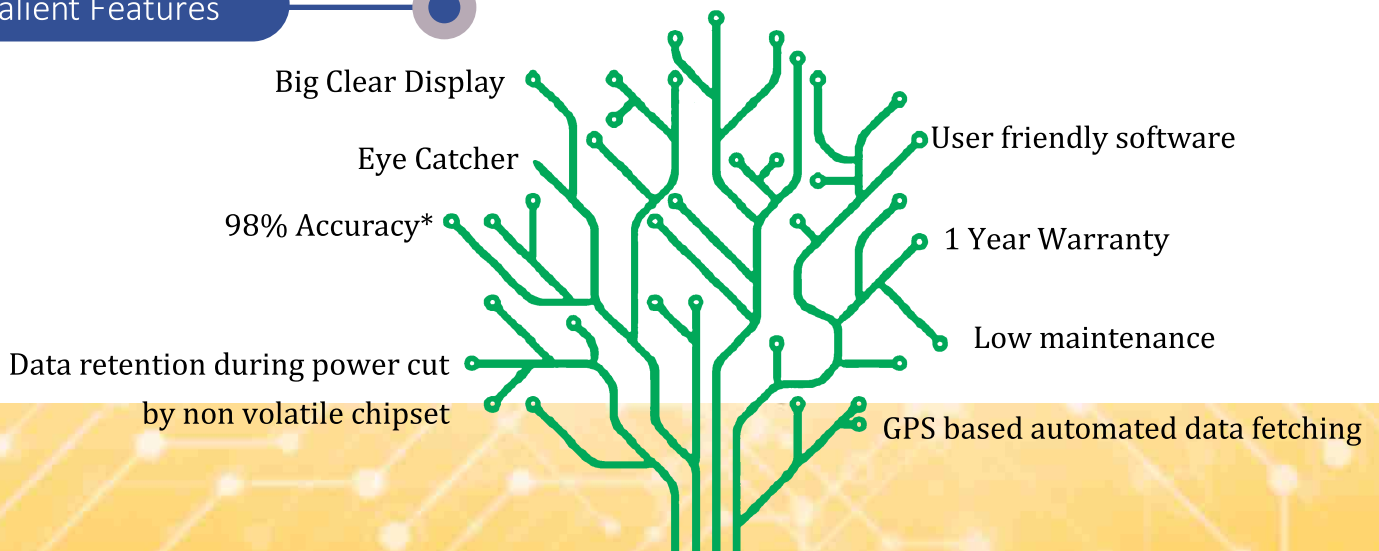- Automatic data feeding and calculation.

LT's Integrated Head Count Display System is designed for our industrial clients for keeping a track of "in" and "out" of employees. The system consists of 3 components namely: motion sensor camera, control unit and LED display board.

The LED display unit comprises of real time GPS clock with in and out data of approximate dimensions 90x75 cms
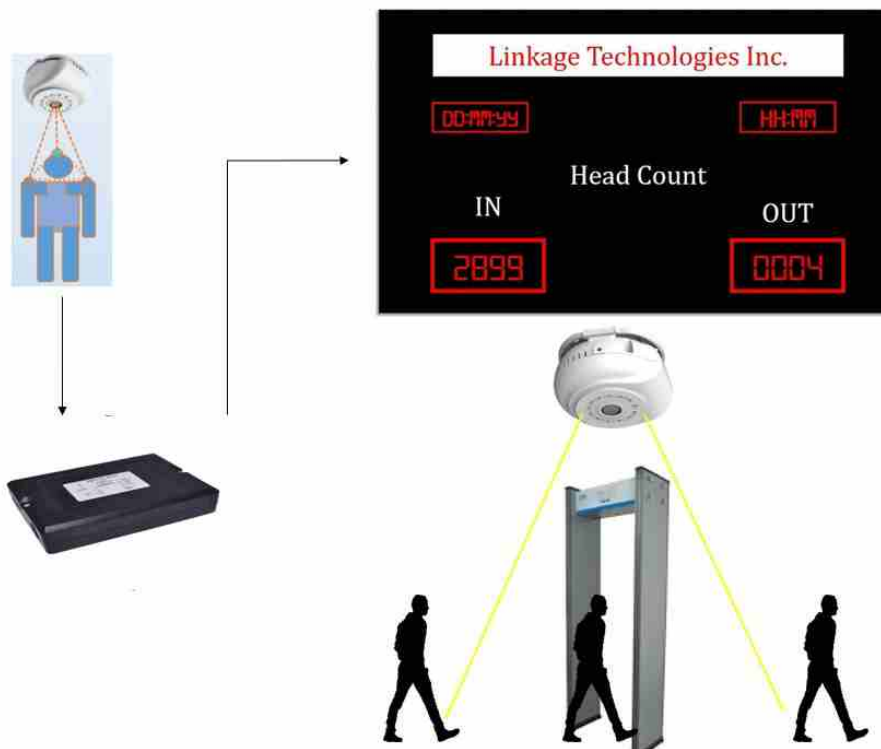
By using a smart camera with analysis function to detect human head and shoulders, so as to determine whether it's a man or not, and analyze what direction the object is moving, then get the "in" or "out" data. The output of the camera is connected to the control unit installed at site which processes this data and sends it to the LED display bard unit affixed at a centralized location. The data is depicted on a bright clear display board which in turn optimizes the operations and acts as a step ahead to fo ster Employee Health & Safety.

Salient Features

Big Clear Display

Eye Catcher

98% Accuracy*

Data retention during power cut
by non volatile chipset

User friendly software

1 Year Warranty

Low maintenance

GPS based automated data fetching

3. Entry/Exit Counter (Manual)

LT's Integrated Manual Entry/Exit Interface is designed for our industrial clients for keeping a track of entry and exit of employees. The system works on the simple logic of manual acknowledgment on entry and exit via pressing a button.
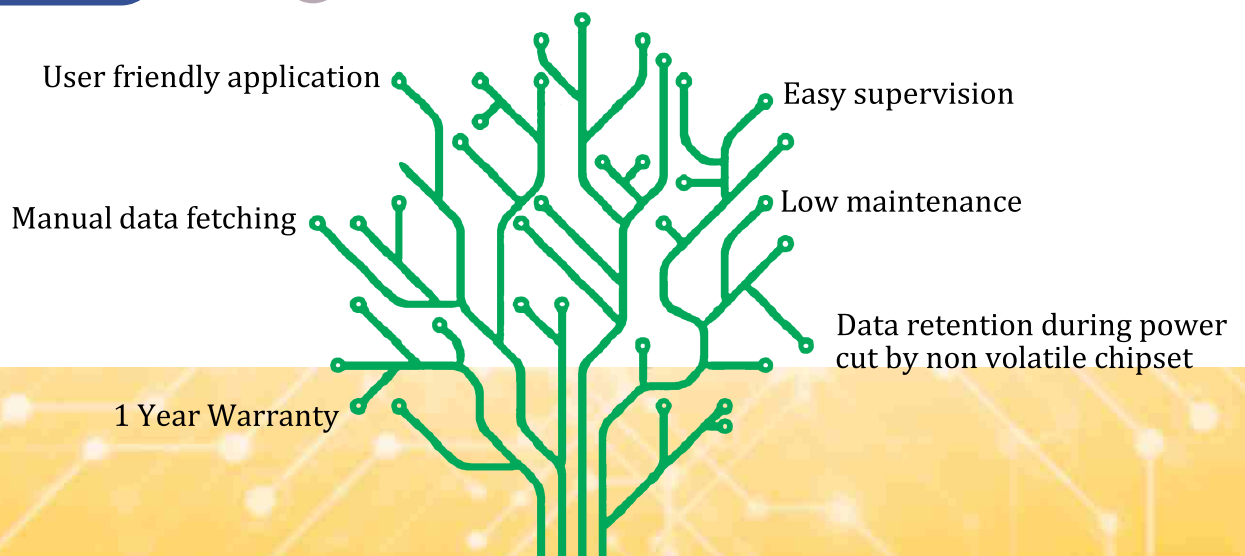
Upon pressing the Green Button at the entry and red button at the exit, the system read the data and shows it on a display board. The display board will indicate the number of entry data only and will automatically increase/decrease the entry and exit traffic.

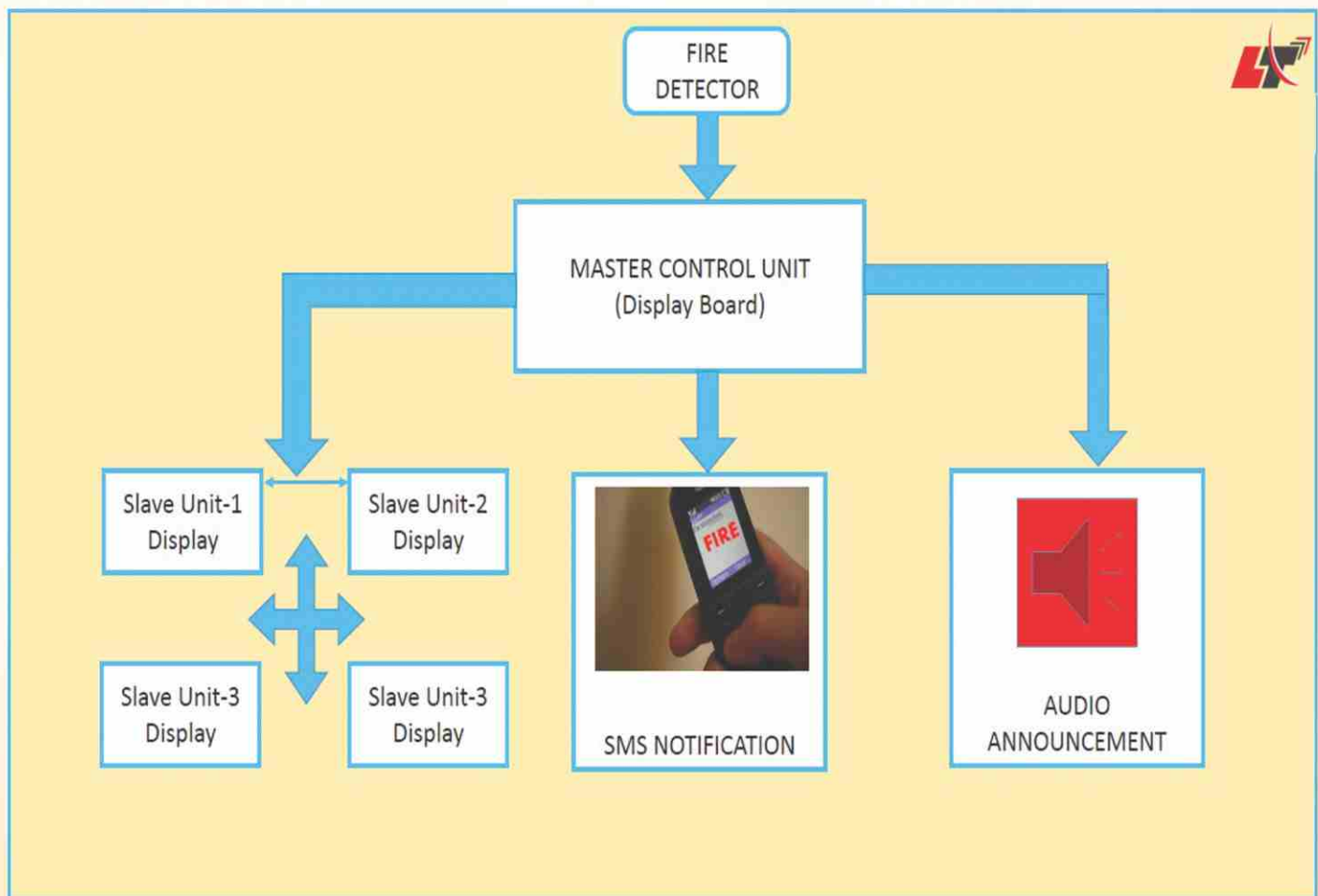The LED display unit comprises of real time GPS clock (optional).
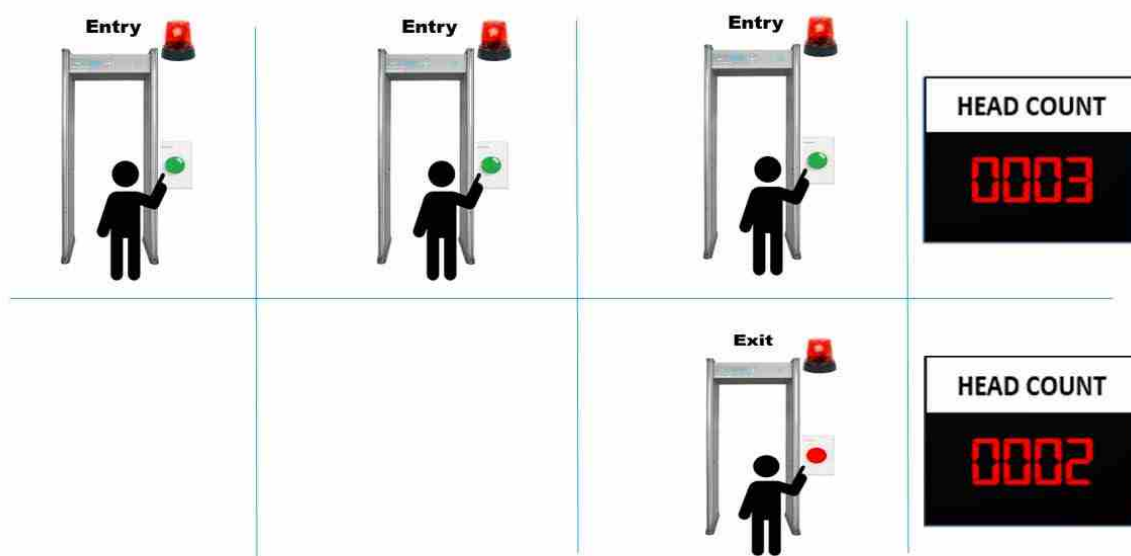
The process of recording will be carried by **LT's** efficient electronic driver interconnected with the power supply and LED display. Upon pressing the manual button, the device will make a buzz sound with Flash light as a confirmation. This will indicate the employee's entry has been recorded. As a backup, in case the person misses to the press the button and proceeds towards the door, the infrared sensor installed at the door will record their entry and will count the data as a backup option.

Salient Features

User friendly application

Easy supervision

Manual data fetching

Low maintenance

Data retention during power cut by non volatile chipset

1 Year Warranty

4. Integrated Fire Alarm & Notification System (IFANS)

One of the most common industrial hazards is occurrence of fire at an industrial site. Our integrated system is an improvised version of Fire Detection and helps in notifying the authorities of the said hazard in various effective ways. This system is developed keeping in mind the vast premises of an industry where timely intimation of fire hazard is a challenge and prompt communication is required at multiple places based on which the further course of action takes place.

FIRE DETECTOR

MASTER CONTROL UNIT
(Display Board)

Slave Unit-1 Display
Slave Unit-2 Display
Slave Unit-3 Display
Slave Unit-3 Display

SMS NOTIFICATION

AUDIO ANNOUNCEMENT

IFANS is microcontroller based electronic system which automatically fetches signals from the fire detector device and creates a broadcast of fire alarm. Upon receiving signals from the fire detectors, alert is triggered on the Master Unit as well has the other small display units placed at different places. The communication of the fire alarm is done via multiple modes such, hooters, SMS to concerned officers of the plant as well as to the external firefighting civic authorities and alert on public display boards etc..

This system consists of two independent and interconnected units namely:

a. Master Control Unit.

b. Slave Unit.

Master Control Unit

The Master Unit is the central display unit and is the source of all automated functions of the system. The Master unit is like a big LED Display Unit which displays the live status of different locations (Max 8). The MCU is fitted with:

- Local audio announcement software
- Alarm reset key
- In case of a fire, the MCU indicates and communicates on its own via several mediums such as Audio announcements, SMS and display lights.

FIRE/EMERGENCY ALARM SYSTEM

Spinning Unit-1	Blow Room Area	Prepratory Area	Ring Frame & Linkconer Area		Weaving Unit-1	Sizing Area	Loom Shed Section 1 & 2	Loom Shed Section 3 & 4
	TFO Area					Folding Area		
Spinning Unit-2	Cotton Blow Room & Carding Area	PC Blow Room & Carding Area	Cotton Ring Frame Area		Weaving Unit-2	Sizing Area	Loom Shed Area	Folding Area
	Cotton Ring Frame Area							
Open End Unit-1	Blow Room Area	Production (Autocoro & Draw Frame) Area			Process Unit	Singeing Machine Area	Central Office Area	Color Service Area
						CWH	Propane Yard	
Open End Unit-2	Blow Room Area	Autocoro Area	Mixing House		Power Plant	STG Building Entry Gate	STG Control Room Area	Thermic Fluid Area
						CHP MCC Area (Coal Logistic Office)		
Spare for Future					Spare for Future			

Slave Unit

The Slave Unit is merely an extension of a small sized display board which is usually installed at different locations and displays the activities of that particular location in contrast to that of MCU which displays the status of all the locations.

The slave unit is comprised of:

- Current loop detection of fire Zone through existing fire alarm system.
- Local LCD/LED display for information and system health
- Audio Alarm output for audio amplifier
- Testing and alarm reset keys.
- Audio Announcement
- Flasher Port.
- Changeable audio voice tag
- GSM interface port.
- System health indication.

5. Environmental Parameter Display

LT offers the brilliant new age technology based Environmental Parameter Display Board for Indoor and Outdoor purposes. The display board is a very effective instrument to identify and display the pollution and various other environmental statistics.

Madhya Pradesh Pollution Control Board

South T.T Nagar, Bhopal   **25/02/2018   11:00**

Parameter	Unit	Cont.	Norms
PM 10	$\mu g/m3$	144	100
PM 2.5	$\mu g/m3$	47	60
SO_2	$\mu g/m3$	19.7	80
NO_2	$\mu g/m3$	12.7	80

Salient Features

Bright easy-to-read display in outdoor

User friendly software

1 Year Manufacturer Warranty

GPS based automated data fetching
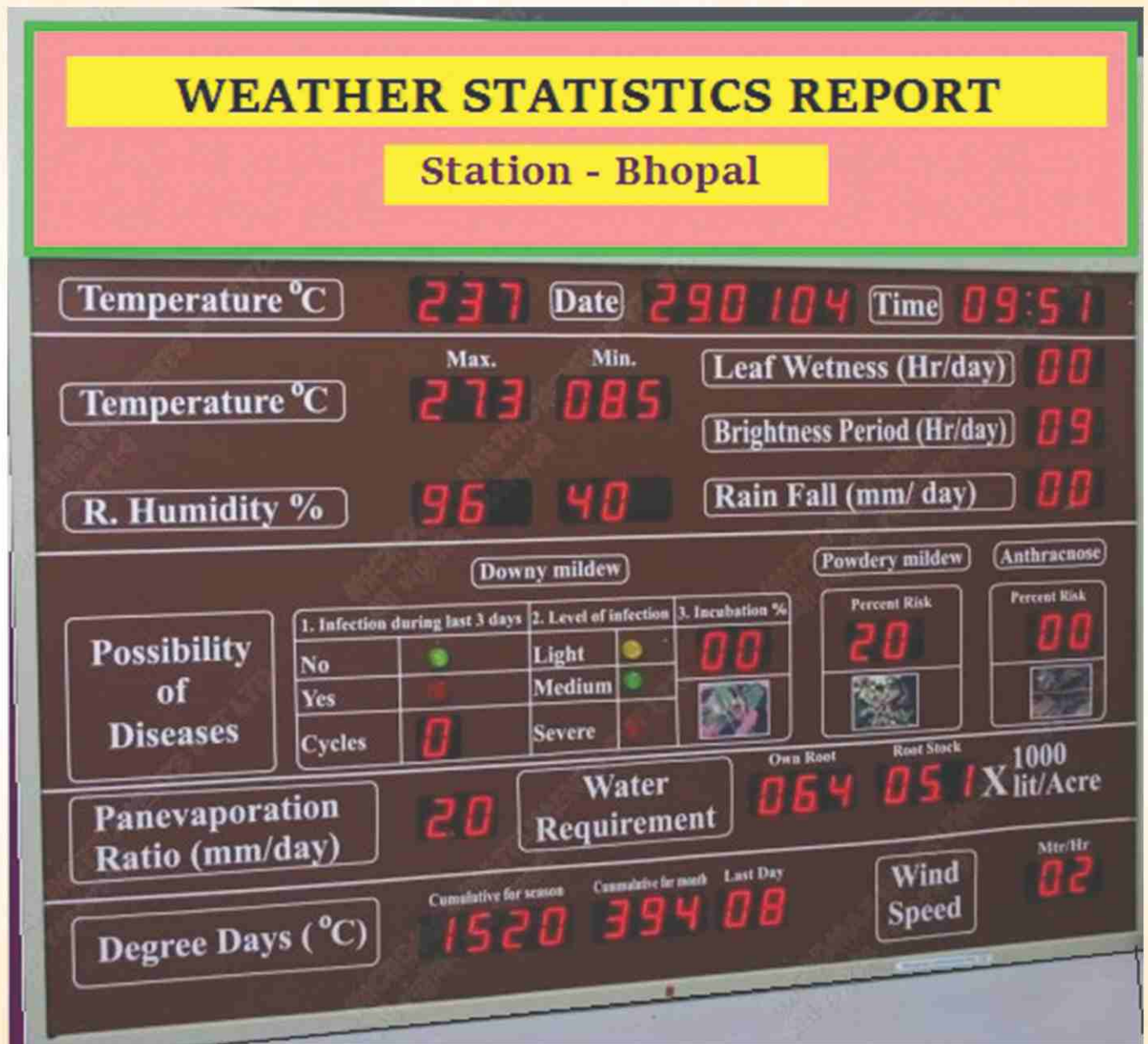
Customized design and dimensions
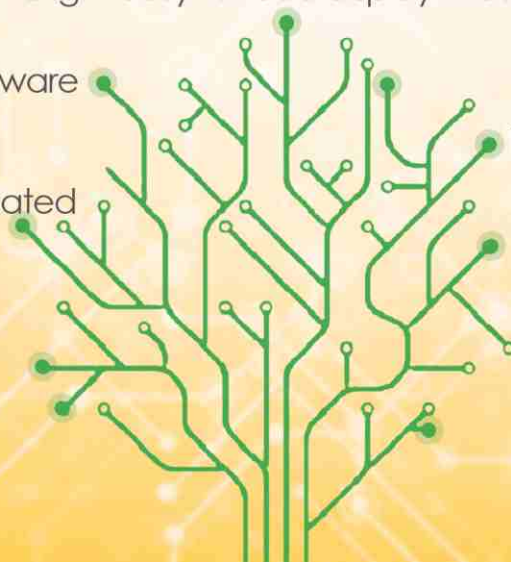
The Environmental Pollution Display is used by various industries to display criticalemission parameters. The display board enhances the transparency and provides a better overall awareness. The display board is developed keeping in mind the client's interests and is customized according to the need of the client.

WEATHER STATISTICS REPORT
Station - Bhopal

Temperature °C	237	Date	290104	Time	09:51

	Max.	Min.		
Temperature °C	273	085	Leaf Wetness (Hr/day)	00
			Brightness Period (Hr/day)	09
R. Humidity %	96	40	Rain Fall (mm/ day)	00

Possibility of Diseases

Downy mildew

	1. Infection during last 3 days		2. Level of infection		3. Incubation %
No	●	Light	○	00
Yes		Medium	●	
Cycles	0	Severe		

Powdery mildew — Percent Risk: **20**

Anthracnose — Percent Risk: **00**

Panevaporation Ratio (mm/day)	20	Water Requirement	Own Root 064	Root Stock 051	X 1000 lit/Acre

	Cumulative for season	Cumulative for month	Last Day	Wind Speed	Mtr/Hr
Degree Days (°C)	1520	394	08		02

6. Production Performance Display Board

Production performance Display board manufactured by us have a programmable set point, which when the number of count reaches to, a relay is operated. This is can be used to alert the operator or automate the production sequence by switching motor/conveyor on/off etc.

Customized design

Water Resistant

SS Body, Acrylic Material

1 Year Warranty

English & Hindi Support
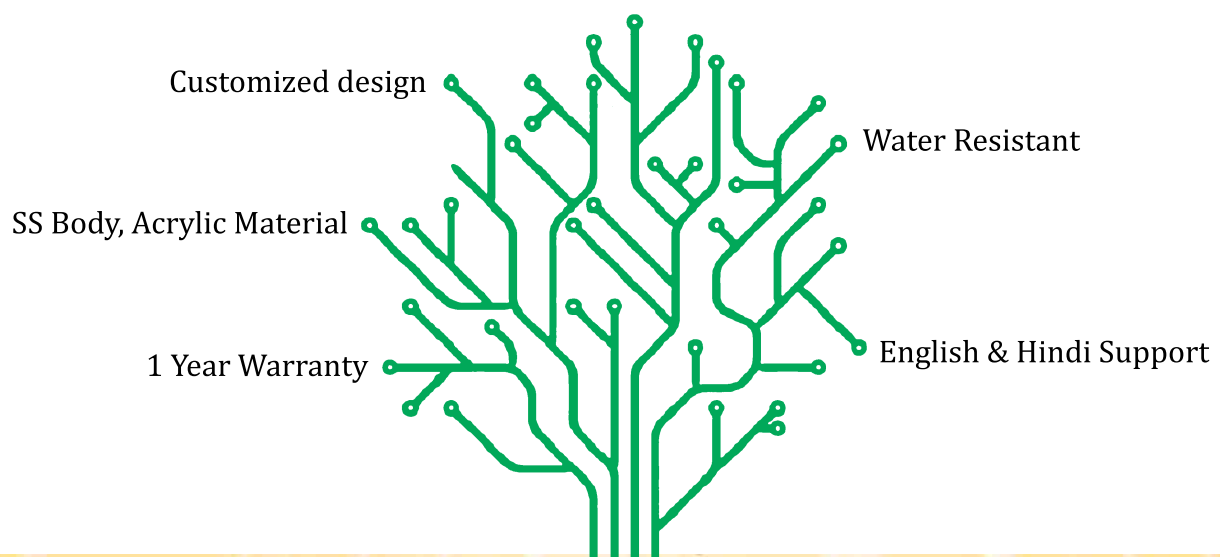
7. Customized Solutions

At LT, we take your work seriously, and we sincerely want to see you succeed. We develop high-grade electronic solutions for our industrial clients. We plan, design and implement highly effective product solutions to address the client's complex challenges. If you require a customized setup, we can do it. Our approach is to make the client's experience as simple as possible yet full proof. Give us the mission and we'll accomplish it.

For enquiries and Quotations please mail us at **linkagetechno@gmail.com**

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