



The late **Mr G C Motwane** founded the company in 1909 in Sind, from the modest beginning of a one-man establishment, catering to the growing Electrical Industry, under the name “**Eastern Electric Trading Co.**”

After opening its doors in Bombay on 1st April 1919, it changed focus to dealing in Radio, Tel-Com & Loudspeakers under the name Chicago® Telephone & Radio Company.

Chicago® Radio Public Address and Sound Systems were introduced in India for the first time in 1929 to enable the voice of our leaders to be heard by the masses during the freedom struggle.

Chicago® Radio has ever since established a tradition and reputation for unfailing service. Brought about largely by the high quality of apparatus, ensuring clear and faithful reproduction of voice and sound. Teamed with an alert and efficient service, before, during and after installation, these have played a vital role in the nation-wide popularity of **Chicago® Radio** loudspeakers.

It was in the year 1958 that the company, so recognized for its dedication to clear communications, had amalgamated into **Motwane Private Limited**.



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Industrial Communication System



PAJEM®



**MOTWANE
PRIVATE LIMITED**

Intrasite Communication System

INTRODUCTION

Chicago® Radio Intrasite communication System is a specially engineered, analog / microprocessor based paging system, for use in any industrial plant, where the ultimate in reliability, performance & clarity is desired.

PAGE - PARTY SYSTEM

A two channel distributed / centralized amplification system providing loudspeaker for page and handset for private line communication in industrial / hazardous environments, and in regions of extreme temperature, noise, dust and humidity.

SYSTEM OPERATION

Provided with two independent and simultaneous channels of communication. The selection of the announcement is through the "Press to Page Switch", for announcement over all the loudspeakers. A call attention tone automatically precede paging announcement.

The party channel is to hold conversation in private mode, without being heard over the loudspeakers. A "Press to talk" switch is provided for party communication.

To originate a call, the caller from his field station, operates the "Press to Page" switch. A "Call attention" tone is relayed over all the loudspeakers, followed by an announcement. The called person through nearest station, communicates on the party line.

The system being an open line configuration, other station can join in a conference. The page channel is free for announcement. In case the page announcement is disturbing, those engaged in party communication can mute the loudspeakers by pressing the "L.S.Mute" switch.

When the 'party' line is in use, an LED glows at all the stations, indicating that the 'party' line is 'BUSY'.

STANDARD EQUIPMENT

- A. Indoor wall/column mounting handset station.
- B. Outdoor wall/column mounting handset station.
- C. Desk mounting handset station.
- D. Master handset station.
- E. Pilfer-proof station.
- F. Junction box.
- G. Indoor box loudspeakers.
- H. Reflex horn.
- I. Outdoor Station protection canopy. (Optional)
- J. Signal/mains/composite/loudspeaker cable.

FEATURES

- A. Simultaneous communication on two channels.
- B. 'State-of-the-art' electronics technology using hi-tech devices and IC's to maximize performance, MTBF, durability, dependability.
- C. Conforms to IS standards and intrinsically safety standards.
- D. Simplified operation, easy installation and maintenance.
- E. Unrestricted system expansion.
- F. Designed for use in regions of extreme temperatures, noise, dust, humidity and corrosive atmospheric conditions.
- G. Different alert, siren and test tones with visual indication.
- H. Anti-corrosive housing made of cast LM6 aluminum alloy or FRP.
- I. Noise canceling microphone for clear announcements, even in noisy areas
- J. Anti-side Tone control circuitry, AGC for clarity and intelligibility of speech.
- K. Individual station Volume / Tone controls.
- L. Special design for fewer cable cores leading to cost saving.
- M. Short circuit protection.
- N. Idle time power cut off.
- O. Modular card construction.



Selective Calling

Digital
Master
Station



Industrial Selective Calling System

INTRODUCTION

The Microprocessor based selective calling system, designed to meet customized communication requirements in commercial and industrial applications to operate in extreme conditions of industrial, hazardous or marine conditions and there likes.

Incorporates many features, made possible by use of digital technology. The system Comprises of a number of stations, located at strategic points, through the Central Control Unit (CCU) using 6-core cable.

This permits number of simultaneous communications, in full duplex mode, dependent upon the no. of groups.

SYSTEM FEATURES

The CCU performs monitoring, and diagnostic function for the system. Digital circuit and software programming on Central Control, provide following features:

1. Selective Communication:
Communicate with any desired station on selective call basis. Each station has its discreet code number and can be called from any station.
2. Simultaneous communications:
The CCU architecture permits 8 independent / simultaneous duplex conversations.
3. Programmable Communication:
The communication chart can be altered, as desired, by programming the exchange; e.g., barring certain units from making calls to selected numbers.
4. Alert tone, siren tones, and programmable pre recorded messages
5. Break in Call:
If a selective or direct call is urgent and the called station in busy. The control room has priority "BARGE-IN" facility.

Selective Calling

Digital
Handset
Station



Selective Calling

Digital
Master
Station



6. Group Call:
Groups can be programmed in the central control unit. When a station is connected to more than one group, access will be on "First - Come - First - Serve" basis.
7. Call Queue (optional):
If any station is busy, the calling station can keep the call pending or can "Be- in- queue". While the call is in "Q", it is free to receive incoming calls.
8. CLEAR voice reproduction with high syllabic articulation, even under adverse acoustic conditions. Dynamic compression of signals from microphone preamplifiers prevents overdrive of amplifiers, resulting in clarity of announcements.
9. FIREALARM INTERFACE WITH "EVAC" MESSAGE
10. Modular Card expansion.

SYSTEM OPERATION

A caller dials the number assigned for the station, if the called station is free, paging channel is activated automatically, and an alert tone precedes the announcement, heard over external loudspeaker of the called station.

The page channel will be active for a prescribed time. If the called party answers the call within this predetermined time, communication automatically shifts to the party line.

Up to four stations can be in conference on party channel.

The line gets "reset" automatically in case there is no response from the called party.

If two stations are engaged in communication, other stations are free to communicate.

Central exchange can be programmed to activate Group calls, all call, Siren and other priority function.

The system can be programmed to be interfaced with existing Telephone exchange.

Flame
proof
Station

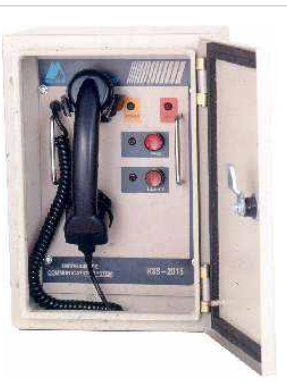




Desk Mounting Station



Flame Proof Handset Station



Handset Station



Pilfer Proof Station



Analog Master Station



Handset Station in LM6 Alloy



Digital Central Control Unit



Digital Master Station



Digital Master Station



Digital Handset Station



Flame proof Station



Flame Proof Horn



Industrial Horn

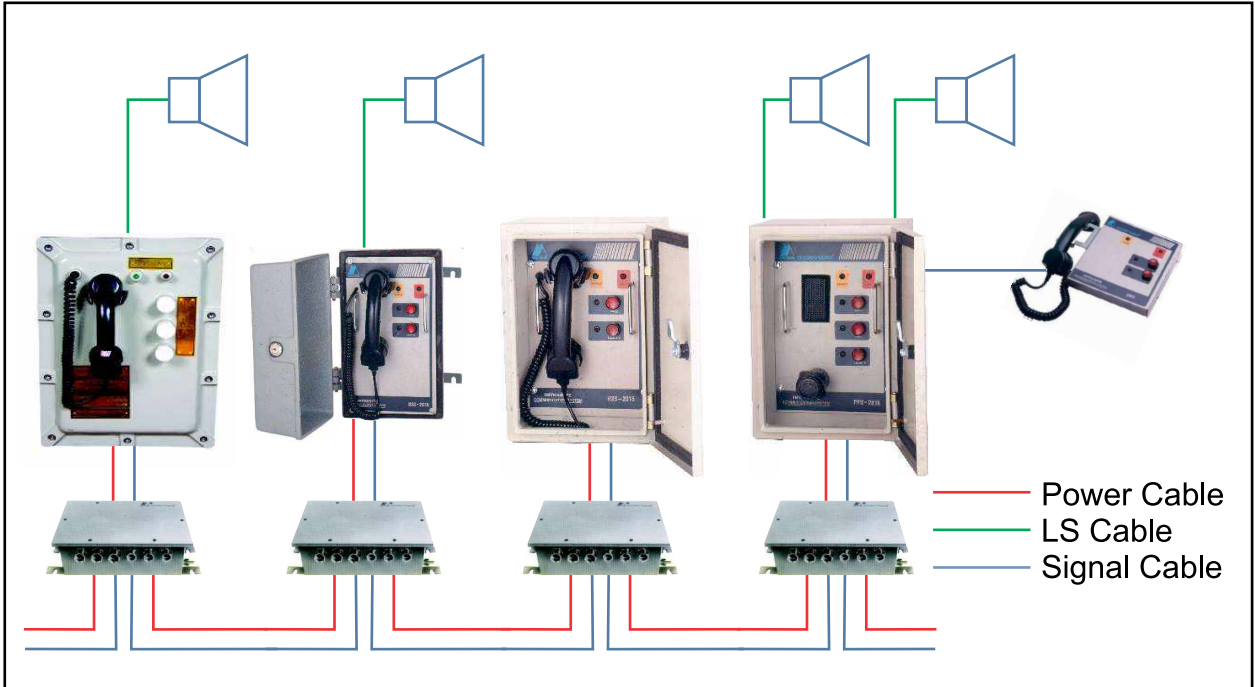


Indoor Speaker

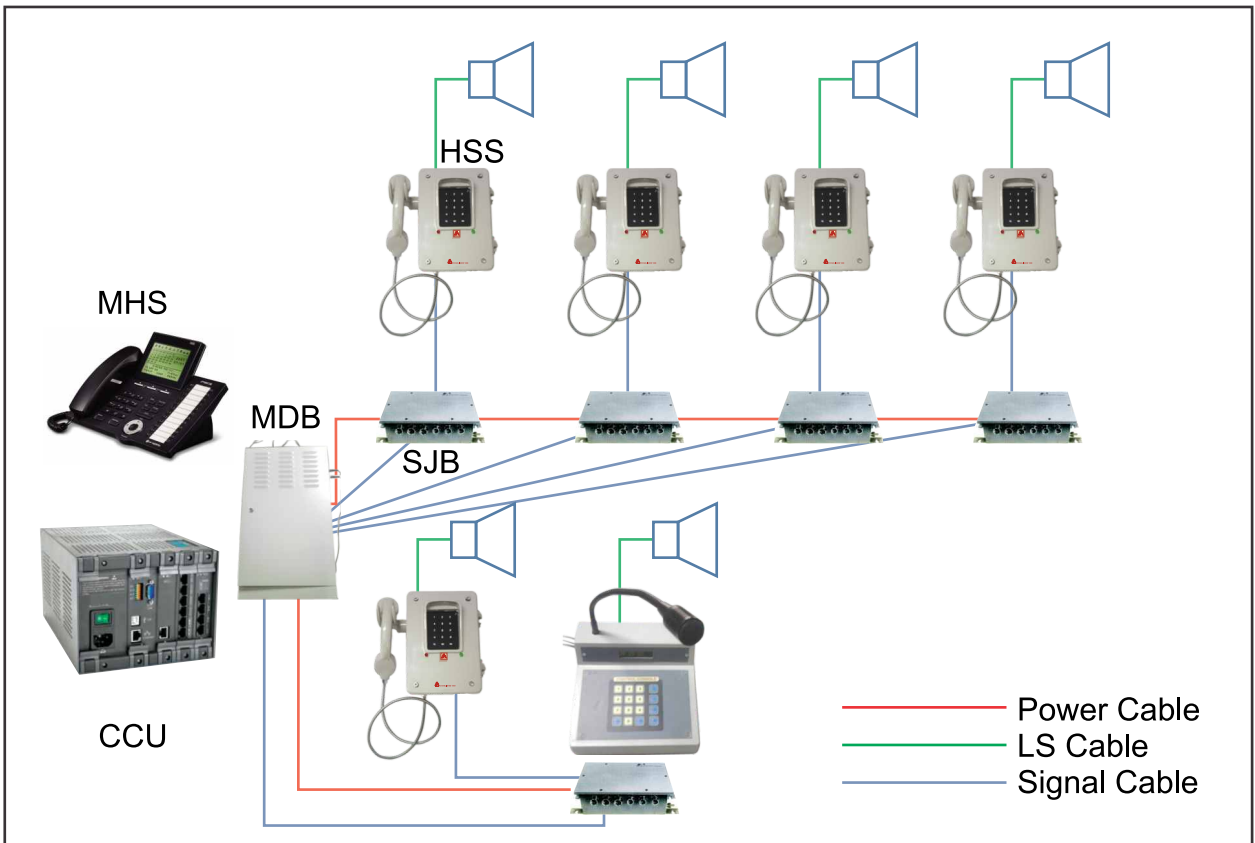


Junction Box

TWO CHANNEL COMMUNICATION SYSTEM



SELECTIVE CALLING



APPLICATIONS

- THERMAL POWER PLANTS
 - CEMENT PLANTS
 - STEEL PLANTS
 - ALUMINUM PLANT
 - REFINERIES
 - CHEMICAL AND FERTILIZERS PLANT
 - HEAVY WATER TREATMENT PLANT - KOTA
 - NUCLEAR POWER CORPORATION
 - HYDEL POWER PLANTS
 - FLAMMABLE / HAZARDOUS AREAS
 - NAVAL SEA FARING VESSELS
 - RAILWAYS
 - THEME PARKS
 - HIGHWAYS
 - CRANES
- Note:** The company's policy is continuous improvement of its products. We therefore reserve the right of any deviation from illustration or specification without notice.