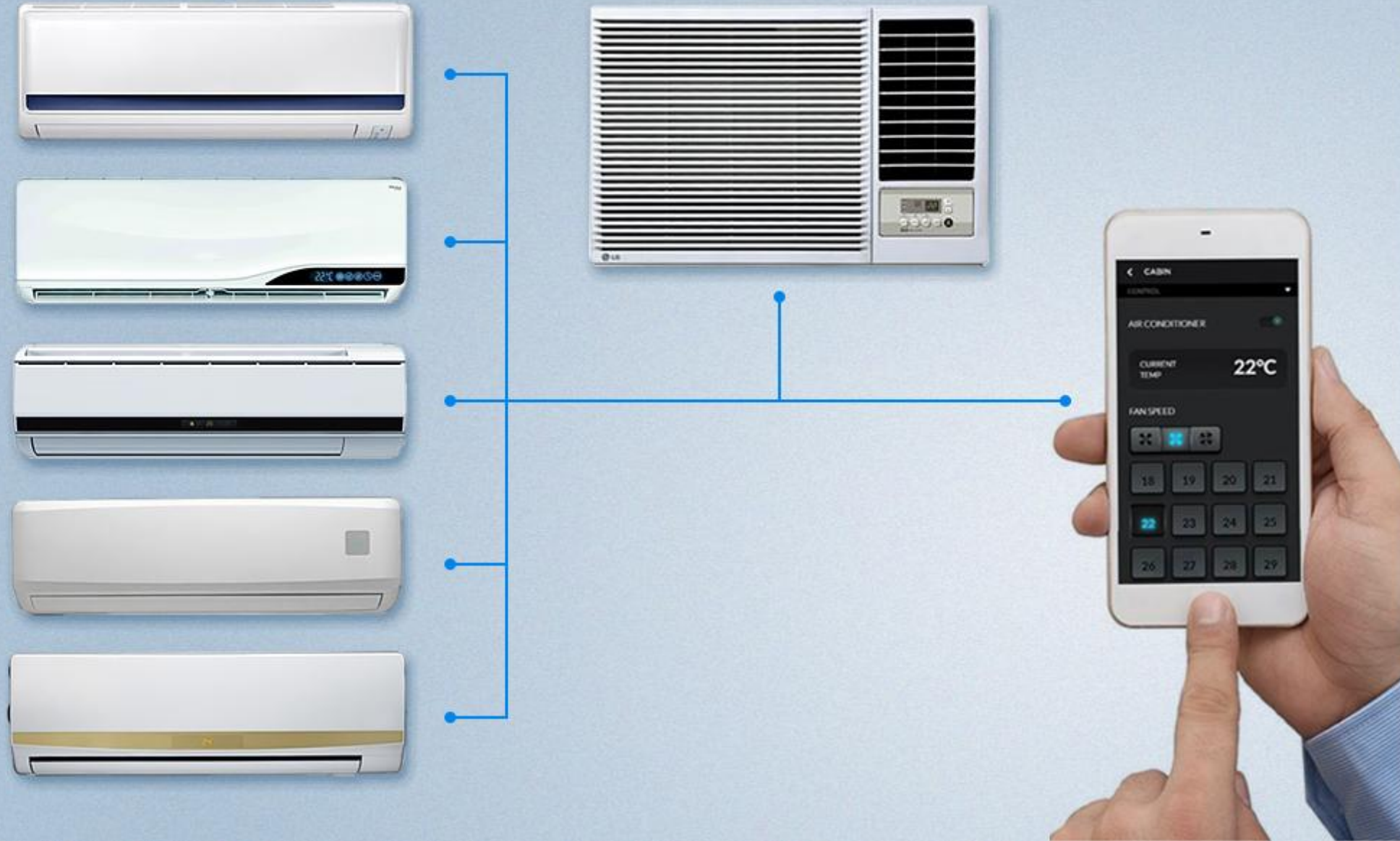


**BuildTrack**<sup>®</sup>

SMART  
AUTOMATION



# BuildTrack Centralized Air Conditioning System for a Medical College in Kolkata

Smart Automation by **BuildTrack**

# Details of Client Site

R. G. Kar is a medical school and hospital based in Kolkata. The medical college has adopted BuildTrack's solution to Centralized control and manages all its existing Air Conditioners distributed across the building. The operation and maintenance of the ACs in the college is the responsibility of the Public Works Department (PWD) which sought options to monitor and control them centrally.

## SITE DETAILS

Air Conditioners : **Multiple**

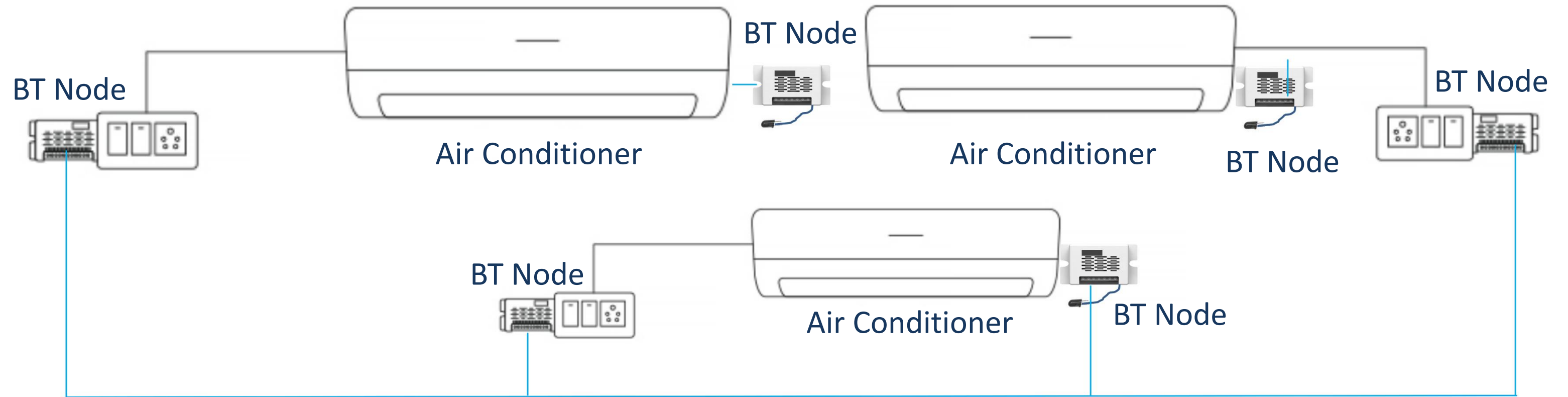
Brands : **O-General, Mitsubishi, Hitachi**

Spaces : Ground, first and second floor wards, labs and doctor's room

# Details of BuildTrack System

- Deployment:
  - Wired BuildTrack System (using RS 485)
  - Local BuildTrack Server
- BuildTrack Nodes (IR with CT input Node): **multiple**
- BuildTrack Power Nodes (with Manual Override): **multiple**
- Gateways : **multiple**
- Temperature Humidity Sensors: **multiple**

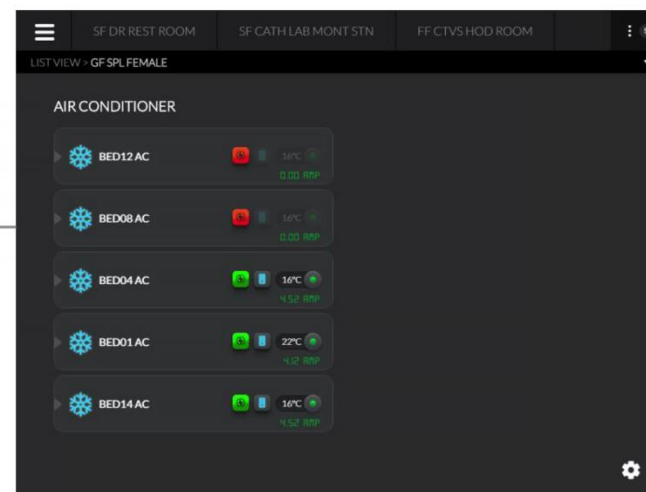
# Architecture



Local Server



Kisok



A single **RS485** wire loop connects all the Nodes for both power and communications

# BuildTrack App

The dashboard screenshot shows a navigation menu on the left with options: DASHBOARD, CONTROL, SCHEDULER, ACTIVITY LOG, ACCOUNT, SETTING, and LOGOUT. The main area displays a grid of 12 climate control cards for various rooms, each showing a large number (01, 02, or 05) and a snowflake icon. The rooms listed are: GF DR.ROOM, GF ITU, GF SPL FEMALE, FF CTVS HOD ROOM, FF CTVS DR. ROOM, FF ITU WARD, FF ITU OT, SF DR REST ROOM, SF CATH LAB MONT STN, SF DR CONFERENCE, SF CATH LAB OT, and SF MALE WARD. A 'Powered by BuildTrack' logo is visible in the bottom left corner.

The air conditioner detail screenshot shows a list of units under the heading 'AIR CONDITIONER'. The units are: BED12 AC (16°C, 0.00 RHP), BED08 AC (16°C, 0.00 RHP), BED04 AC (16°C, 4.52 RHP), BED01 AC (22°C, 4.12 RHP), and BED14 AC (16°C, 4.52 RHP). Each unit card includes a snowflake icon, a status indicator (red or green), and a temperature display.

The activity log screenshot displays a table with columns: PIN TYPE, LABEL, STATUS, LOCATION, and DATE & TIME. The table contains 10 entries, all labeled as 'Remote' and 'VIEW DETAILS' buttons. The entries include: 2nd flr MW Bed 246 AC (OFF, SF MALE WARD), First Flr ITU AC2 (ON, FF ITU WARD), CTVS Dr AC (ON, FF CTVS DR ROOM), 2nd flr MW Bed 236 AC (OFF, SF MALE WARD), 2nd flr MW Bed 237 AC (OFF, SF MALE WARD), BED248AC2 (OFF, SF MALE WARD), and 2nd flr MW Bed 243 AC (OFF, SF MALE WARD). The bottom of the screen shows 'Showing 1 to 10 of 962 entries' and 'Page 1 of 97'.

# Features of BuildTrack System

- Control:
  - ON/OFF Individually or in groups
  - Temperature Setting
  - Scheduling
  - Tripping
  - Manual Override
  
- Monitoring:
  - Operating status - ON/OFF, Current Value
  - Temperature & Humidity
  
- Reporting:
  - Hours of operation
  - Power consumption

## SURMOUNT ENERGY SOLUTIONS PVT. LTD.

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Tower #10 ITC, Belapur Station Complex  
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