

To
NTPC Limited

Date. 16/01/2024

Sub: Indian Power stations O&M Conference 2024 Exhibition (TECHNO GALAXY)-
Registration.

Respected Sir/ Ma'am,

We have been in the field of Wireless Communication for last 25 years, i.e. We supply and service Walkie Talkies, Fixed/ Mobile Radios, Base stations, Repeaters, and PTT over cellular radio for wireless voice communication; Data radios/ Radio Modems for Industrial automation/ Remote monitoring and control of systems; Remote radio control (RRC) for Industrial EOT cranes and Wireless Gateways; Radio Modems, Microwave Links / Radio, WLAN System, Network Managers, VPN Servers, VSAT Terminals; GSM/GPRS Modems for SMS based communication and GPRS based data transfer, CCTV surveillance, Radar. We also provide service for: Repair and maintenance/ AMC for the above type of wireless communication equipment, Installation/ Commissioning, Troubleshooting; Liaisoning with Government of India, Min. of Telecommunication for obtaining Users License for Walkie Talkies and Data Radios/ Radio Modems; And renewal of Licenses.

We want to display new technologies and product for Voice and data Communication. Below are the products/ Technology details which we want to display in the 2024 Exhibition.

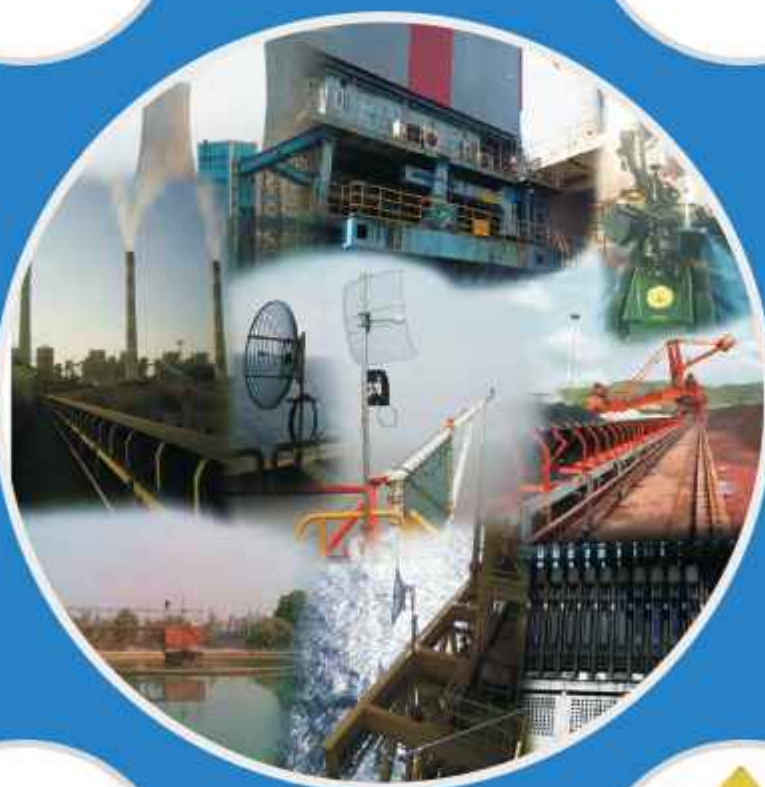
1. **VSAT Communication:** We Sheetal Wireless technologies is distributor of Hughes Communication INDIA for VSAT communication devices. Hughes Communication INDIA is the Joint venture with Bharti Airtel VSAT, and they provide VSAT communication with market share of 69%. VSAT communication can be used in case of emergency, in remote location where mobile network not available or have limited access of Mobile network,
2. **Private 5G network:** Department of Telecommunication provides 5G spectrum for government companies, PSU, and Limited companies. Using Private 5G network users can install their private mobile network for Transfer of data of CCTV, PLC devices etc. within the plant. This may resolve the problem of OFC laying in the plant.
3. **Voice Communication System:** We Sheetal Wireless Technologies Private Limited are the Tier 1 Reseller partner of Motorola. Motorola Solution has launched some new Products. We want to display new products to NTPC.

4. **Body Worn Camera:** Motorola Solution has launched their Body Worn camera. This camera can be worn on the chest, and it has a battery backup of 24 Hours. Body Worn Camera can be used by CISF unit deployed at NTPC Plants for surveillance and security purposes.
5. **PTT over Cellular radios (POC Radios):** POC radios are no longer only for two-way radios. Group communication and collaboration can now include those who rely on smartphones and broadband devices as well as two-way radios. POC radios did not require any license for use, and it has a wide range of communication.
6. **GPRS Modem:** GPRS modem is a SIM Based modem which can be used to transfer data from remote locations, where OFC laying and PTP link is not feasible.
7. **WPC Consultancy:** We Sheetal wireless Technologies also provide consultancy for getting the license of Walkie Talkie, VSAT system from WPC.

Signature



Name – Ms. Shweta Sane



Company Profile

Sheetal Wireless Technologies Pvt. Ltd. (SWTPL), an ISO 9001:2008 company, is dedicatedly in the field of Wireless Communication since 1995. SWTPL provides Trusted Working Solutions for Voice, Data, Video and Remote control of factory cranes. We have maintained a well planned course of horizontal expansion & growth over the years. SWTPL provides total solutions for wireless communication systems including Analogue/ Digital Data Radios, Wi-Fi Radios, GSM Modems for SMS based communication and GPRS based data transfer, VSAT systems, Radio Remote Controls, Wireless Gateways etc.

For Data and Voice communication solutions SWTPL has huge experience in various Industry segments. SWTPL has been implementing various mission critical projects in Industrial Automation Field and SCADA & Telemetry Field. SWTPL puts emphasis on providing customized solutions rather than just distributing the products.

SWTPL has placed regional persons to provide prompt sales and service support.

We provide solutions across two major verticals.

A: Data Communication Section

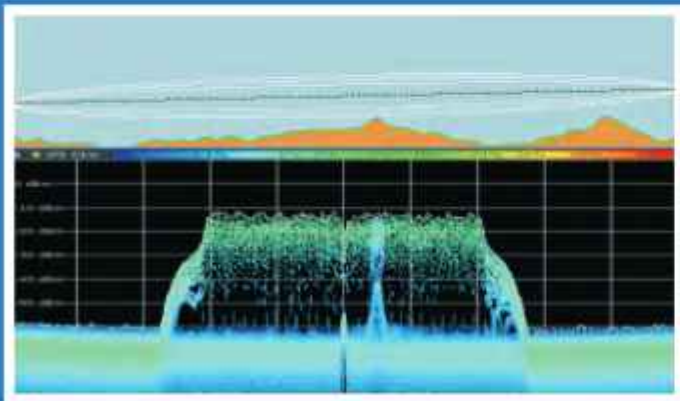


Our primary focus is to provide connectivity solutions between diverse automation products. Wireless Data connectivity is provided between Sensors, Gateway, HMI, PLC, RTU, Data Loggers, SCADA, and DCS. Our focus is to deliver reliable & trusted data connectivity solutions for industrial automation projects.

B : Voice Communication section



Immediate, reliable and cost-effective communication is becoming ever more important in today's businesses. Our range of mobile two-way radios can meet these needs. Walkie-Talkie is ideal for organisations that requires customisable, dependable and fast communications.



RF Services provided by SWTPL:

- Consultancy for RF system design
- RF survey of customer sites
- Supply of all wireless communication equipments
- Installation and Commissioning of system
- Processing of frequency application with Ministry of Communication, Government of India
- Prompt and timely after sales service
- Annual maintenance for RF communication Link
- Well equipped service center for repairs

Graph: Min. Avg. Max. Elevation: 0, 14, 151 m

Range Totals: Distance: 17 km, Elev. Gain/Loss: 213 m, -323 m, Max Slope: 32.3%, -39.5%, Avg Slope: 3.5%, -3.3%





Make: Calamp, USA

CalAmp provides licensed band wireless communications solutions that enable anytime / anywhere access to critical data and content.



With 25+ years history Company serves customers in the public safety, industrial monitoring and controls, mobile resource management, and direct broadcast satellite markets.

The Company's products are marketed under the CalAmp, Dataradio, Smartlink, Aercept, LandCell and Omega trade names.



Make: Elpro technologies / Cooper Busman

Elpro technologies/Cooper Bussmann /MTL Instruments, a division of Cooper Crouse-Hinds, is a world leader in the development and supply of system infrastructure products and protection equipment to the Process Industries.



The combination of Cooper Crouse-Hinds' expertise in the electrical components sector balances with ELPRO's expertise in the instrumentation sector.

ELPRO Technologies is a world-leader in the design and manufacture of industrial wireless solutions. With the most comprehensive industrial wireless product range, ELPRO has a solution for your application need.



Make: Teletronics

Since 1986, Teletronics has been a pioneer in developing cost effective products and total solutions for the ever-evolving broadband wireless industry. Teletronics continues to focus on innovation and is committed to providing its commercial and military customers with the best possible equipment and solutions.



Teletronics designs, develops and manufactures a complete line of products and solutions for high speed wireless broadband systems, including RF amplifiers, up/down frequency converters, wireless network bridges and routers. These products are being used in various video surveillance, SCADA applications in steel, cement, mining & water application.



Make: Accutech Wireless



Accutech is a line of battery-powered wireless sensor networks; a family of measurement and control tools used wherever wireless instrumentation applications are found, including stranded measurement points, hazardous locations and mobile equipment.

Superior product range with 2.4GHz FHSS radios (over 3000FT, 1000M).

Superior resistance to interference and noise.

Deterministic battery life and months of warning when battery needs replacement.



Make: Prosoft Technologies

Over the last 20 years, ProSoft Technology's product lines have grown to over 400 communication interface modules supporting more than 60 different protocols.

ProSoft Technology's connectivity options enable controller platforms to provide solutions in areas such as computing gas flow calculations and SCADA telemetry applications.

ProSoft Technology specializes in the development of communication solutions compatible with the large automation suppliers' controllers such as Rockwell Automation, Schneider Electric, ABB, Siemens, Emerson, Yokogawa, etc.



Make: IKUSI SPAIN

Considering Safety requirements in Industrial Overhead Crane Controls, Flexibility & Precision in Mobile Machinery Remote Control, a reliable wireless communication system in the form of Handy yet powerful Radio Remote Control with Best in Class Safety features.

A sophisticated Systems like Stepless & Multistep Control with LCD feedback options, Tandem Operations, Control Commands over Fieldbus like Profibus, J1939 & IQAN meets the demands from Industrial Cranes along with standard Push Button control to support for all types of Radio Remote Control requirements. Ikusi complies all european safety standards used in crane industry. These products also has hazardous area i.e. zone 1 certification.



Radio Solutions Channel Partner

Make: MOTOROLA SOLUTIONS

Motorola's diverse array of portable digital and mobile two-way radios offers solutions that better enable you to efficiently coordinate and communicate with your on-the-go workforce.

From the front desk to the factory dock, moving across campus or around the country, MOTOTRBO digital radios are connecting more people effortlessly and efficiently wherever they work.

These radios are also available with ATEX approvals that allow easy communication in Hazardous area.



Make: TCAM Technology

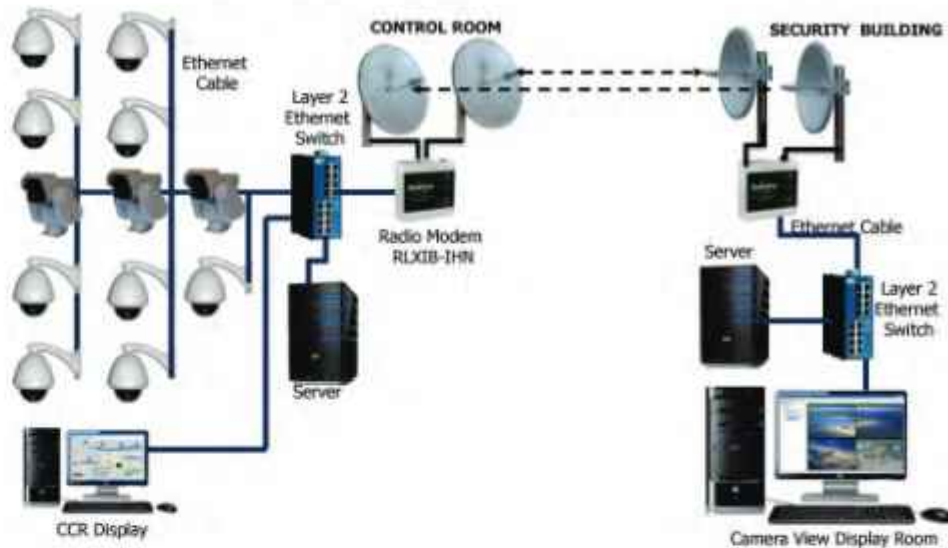
As a premier technology provider in GSM/GPRS wireless telemetry, GSM

As a premier technology provider in GSM/GPRS wireless telemetry, GSM modem, GPRS Gateway and virtual pc solutions.



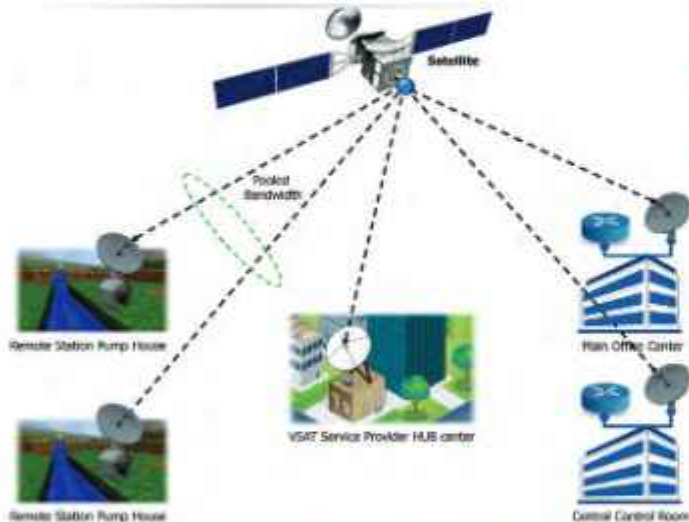
TCAM's core competencies are developed so as to strengthen our TMS Wireless GSM Telemetry and Central Monitoring Station (CMS) technology for GSM alarm, GSM remote monitoring and GSM control applications.

WIRELESS VIDEO SURVEILLANCE



- 12 Nos of IP based cameras are installed for plant video surveillance at various locations within plant.
- Point to Point 300 Mbps link is installed to transfer live streaming of 9 PTZ camera and 3 No of Still Camera.
- IEEE standard 802.11n with MIMO configuration is used to achieve high speed.

VSAT BASED CANAL AUTOMATION



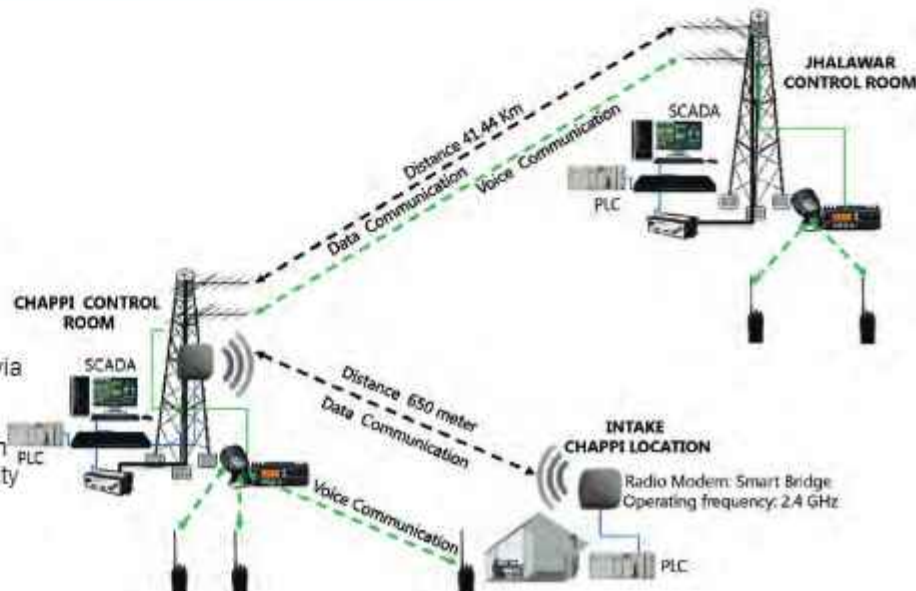
- Communication across 1200 km is achieved using VSAT networks.
- VSAT communication is provided for canal gate flow & level monitoring of water and voice communication at Indira Gandhi Canal Project.
- 6 cross-regulators signals at canals and 47 flow measuring point are transferred to respective field SCADA station via VSAT Communication.
- At every 15 minutes interval data is collected and stored with date and time stamp.



WIRELESS WATER UTILITY SCADA



- Remote monitoring and controlling of pumps located at 42 Km far from Master SCADA station.
- Data is transferred from Intake locations to pump house via license free 2.4 GHz wireless communication system.
- Further 42 Km communication link is established between Pump station to Main control room located in Jalhwar City by using licenced band radio models.
- Similarly Voice communication is established between Intake location and Master Control Room.



WIRELESS RTU FOR PUMP MONITORING & CONTROL

- Pump state (ON/OFF) at Pump house is monitored and controlled from control room located 7.6 Km far.
- Licensed band radio modems are utilized to achieve communication with No line of sight situation.
- Flow, pressure, electrical consumption parameters are also monitored.



LONG DISTANCE VOICE COMMUNICATION FOR HIGHWAY - TOLL PLAZA

- Voice communication is established for highway patrolling, maintenance & ambulance vehicles, across 93 km KISHANGARD - BEWAR RAJSTHAN Nh8.
- Connectivity is also established between various Toll Plaza on the Highway.
- Existing Fiber optic cable is utilized to connect three voice repeater stations using Radio over IP technology.



WIRELESS BASED STACKER & RECLAIMER MONITORING & CONTROL IN STEEL, CEMENT & MINING INDUSTRY.

- Stacker Reclaimer is controlled and monitored using wireless communication system.
- Distance of 1.5 Km is achieved.
- Wireless system is used for IO transfer, Interlock, PLC program upload and download, voice communication over IP and video communication.



GPRAS BASED DIGITAL I/O TRANSFER IN SHIPYARD



TMN -50 T



Safety Office



Mobile Safety Officer

CENTRAL CONTROL ROOM SCADA



SCADA with flow meter data

INTERNET

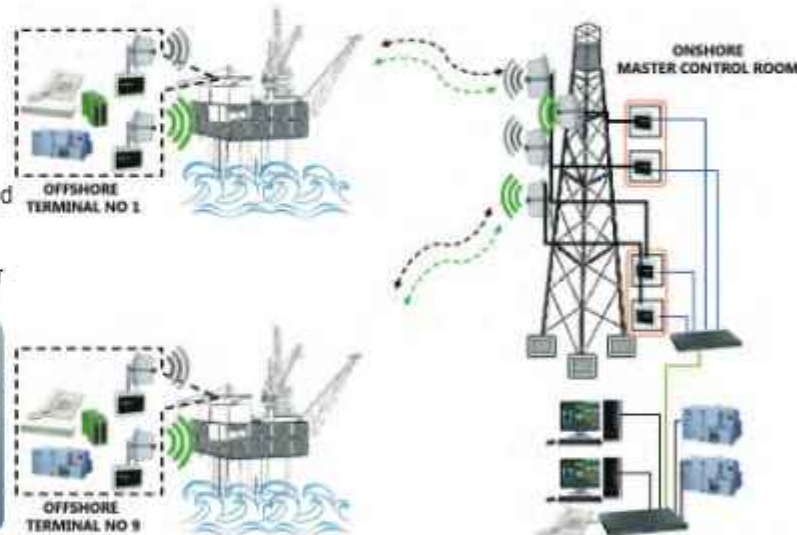


- Remotely located 15 nos of RS-485 flow meter sensors are connected to GPRS modem and flow meter data is transferred to Central Control Station.
- At central control room utilizing Internet connection SCADA is able to view all remote flow meter data.
- This system has been installed in Dynamic IP address environment

GPRS BASED PIPELINE MONITORING

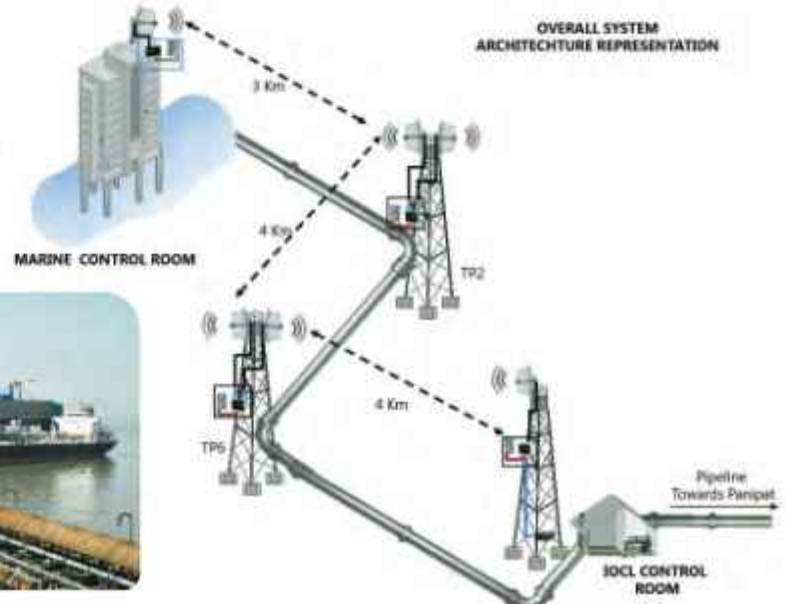
WIRELESS BASED COMMUNICATION SYSTEM FOR FAIL SAFE CONTROLLER, VOICE & VIDEO OFFSHORE TO ONSHORE CONTROL ROOM

- Communication is established between onshore control system and Offshore RIGs located 10 km far from the control room.
- High speed wireless link with throughput of 20Mbps is achieved for data, voice and video transmission.
- Combination of 2.4GHz and 5.8 GHz license free frequency band is used for communication.
- Total 9 number of onshore platforms are connected to onshore by using redundant wireless links.



WIRELESS BASED OIL & GAS PIPELINE MONITORING

- Wireless Communication is established across Oil Pipeline as redundant link for Fibre Optic communication.
- A 11 km long link is established using license free frequency band : 2.400 - 2.483 GHz. Data transmission is achieved between raw Oil generating station and dispatch station.
- Wireless communication system is established to transfer data from Adani Power control Station to IOCL Control Stations.
- Intermediate PLC locations are utilized as repeater stations to establish this link.





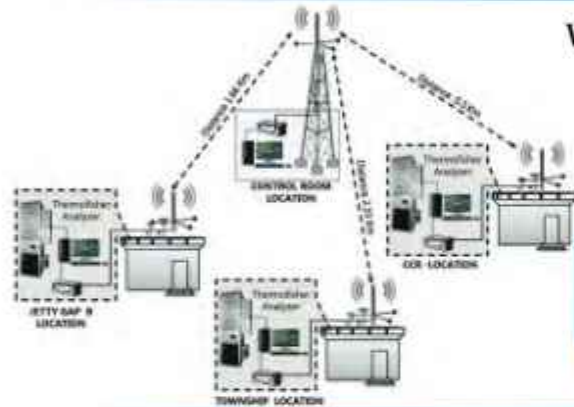
WIRELESS EPBAX CONNECTIVITY

- Extended plant EPBAX connectivity to remote locations using wireless network.
- Additional hardware like FXO and FXS is arranged for interfacing wireless system and EPBAX.
- Point-to-Point and Point to multipoint Links are established for distance of 4.2 KM with line of sight situation.

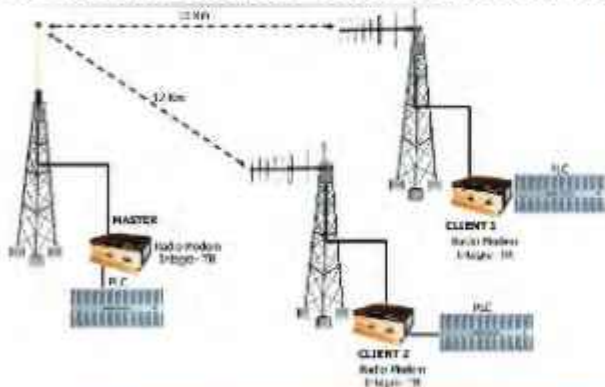


WIRELESS BASED AMBIENT AIR QUALITY MONITORING

- Sheetal wireless has designed wireless solution to Transfer of AAQMS (Ambient Air Quality Monitoring System) data from remote stations to master station utilizing licensed and license free frequency band radio modems.
- This is Point to Multipoint network. Data is transferred from 3 remote units, located at 3-5 Kms radial distance from central control room.
- These type of systems are deployed across all national Thermal Power Plants of India.



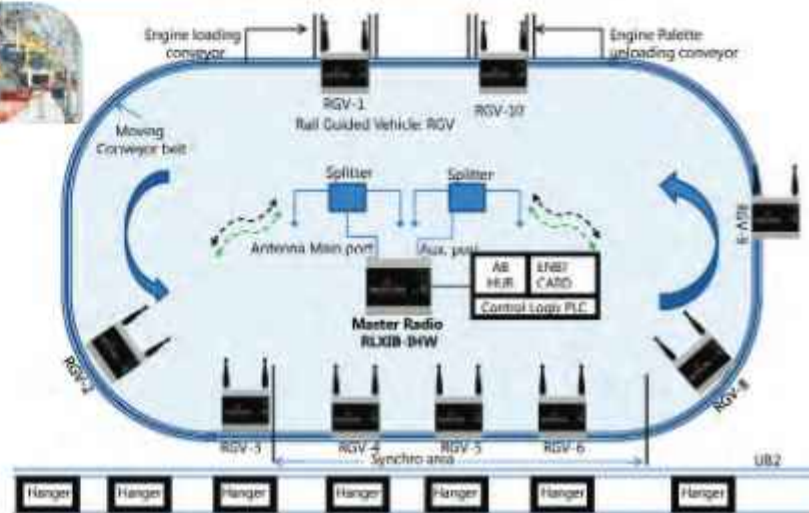
WIRELESS BASED LOAD DISTRIBUTION SYSTEM



- Control station monitors power generated by two remote power generating stations.
- A wireless communication link is established between these remote power generating stations and main control station.
- Continuous data polling allows the control station to maintain the data updates from remote stations which is important for further load distribution.

WIRELESS RAIL GUIDED VEHICAL MONITORING & CONTROL

- One Master Radio modem operating in 2.4 Ghz is communicate with 10 Nos of Radio modem installed on Rail Guided vehicles.
- Wireless communication has eliminated communication issue due to rigid copper bus bars & brush collectors which are commonly used in wired Rail guided Vehicle systems.
- High Speed 54 Mbps wireless links are utilized to obtain real time actions & synchronization with VFDs.
- Seamless & robust communication is achieved between (programmable Automation Controllers) PACs & the I/Os.



Our Valued Customers



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