



Client Profile

- Organization :**
UJVNL – Ichari Dam
- Location :**
Uttarakhand
- Industry Segment :**
Government

CASE STUDY

About UJVN Ichari Dam

Uttarakhand has a very high potential which is yet to be developed and to give impetus to power sector, Uttarakhand Jal Vidyut Nigam Limited (UJVNL) was formed. UJVNL is a wholly owned Corporation of the Government of Uttarakhand set up for managing hydro power generation at existing power stations and development, promotions of new hydro projects with the purpose of harnessing, the known, and yet to be known, hydro power resources of the State.

Today, UJVNL operates hydropower plants ranging in capacity from 0.2 MW to 376 MW, totaling up to 1284.85 MW. Though the State is more or less sufficient in its energy generation to meet its own requirements, it is committed to develop its huge hydro power resources in an early and efficient manner for economic well-being and growth of the State and its people.



Customer Requirement

- ✓ They wanted to Automate & Converge Paging/Surveillance/ IP Door Phones & Telecom on one infrastructure for better efficiency.
- ✓ Centralised Command Centre to manage full Ichari Dam operations/security & Maintenance.

Solution Offered

- ✓ Centralised Redundant processor & power supply in server gateway architecture of Epygi QX Series at Admin block of ICHARI DAM.
- ✓ The Weather Proof SIP IP66 Outdoor Sound Horn Speaker by CyberData Inc., PoE SIP Compliant helped us to converge with IPPBX at Dam Gallery & Dam control room as SIP Extension, Communicating directly for vacating the gallery & making people attentive in command centre in non responsive mode in SOS situations.
- ✓ The movement of Flow Control Gates which are handled by command centre to make water flow in tunnel for power generation or making it Pass through By- Pass tunnel (Incase of Excess water) is supervised by a human at safe position outside Gate, SIP Weather Proof and Vandal Proof Door Phone is installed outside gate to assist & help the person to communicate with Command Centre on status of physical movements of Gate.
- ✓ Slowly the SIP PA System will be expanded to the 24KM full belt on mountains & River trail through Industrial Router on LTE Technology for announcing it to all villages in case of Flood Situation.
- ✓ All this is connected on IP network through fibre giving a ruggedised & stable, network with converged solutions & giving a much effective control to handle SOS situations & save human life.
- ✓ The full office environment is on Epygi IPPBX using Grandstream IP phones which are PoE & the PC port of IP phone helps the user to have voice & data on one cable.
- ✓ The Yeastar GSM Gateway helps the user to reach outside world as the Dam is in a non feasible area (NFA) for basic service provider.

Product Used



- Grandstream IP Phones
- Epygi IPPBX with Redundancy
- CyberData Outdoor SIP Speaker Horn For Announcement
- Cyberdata Keypad IP door Phone without Camera
- Yeastar GSM Gateway

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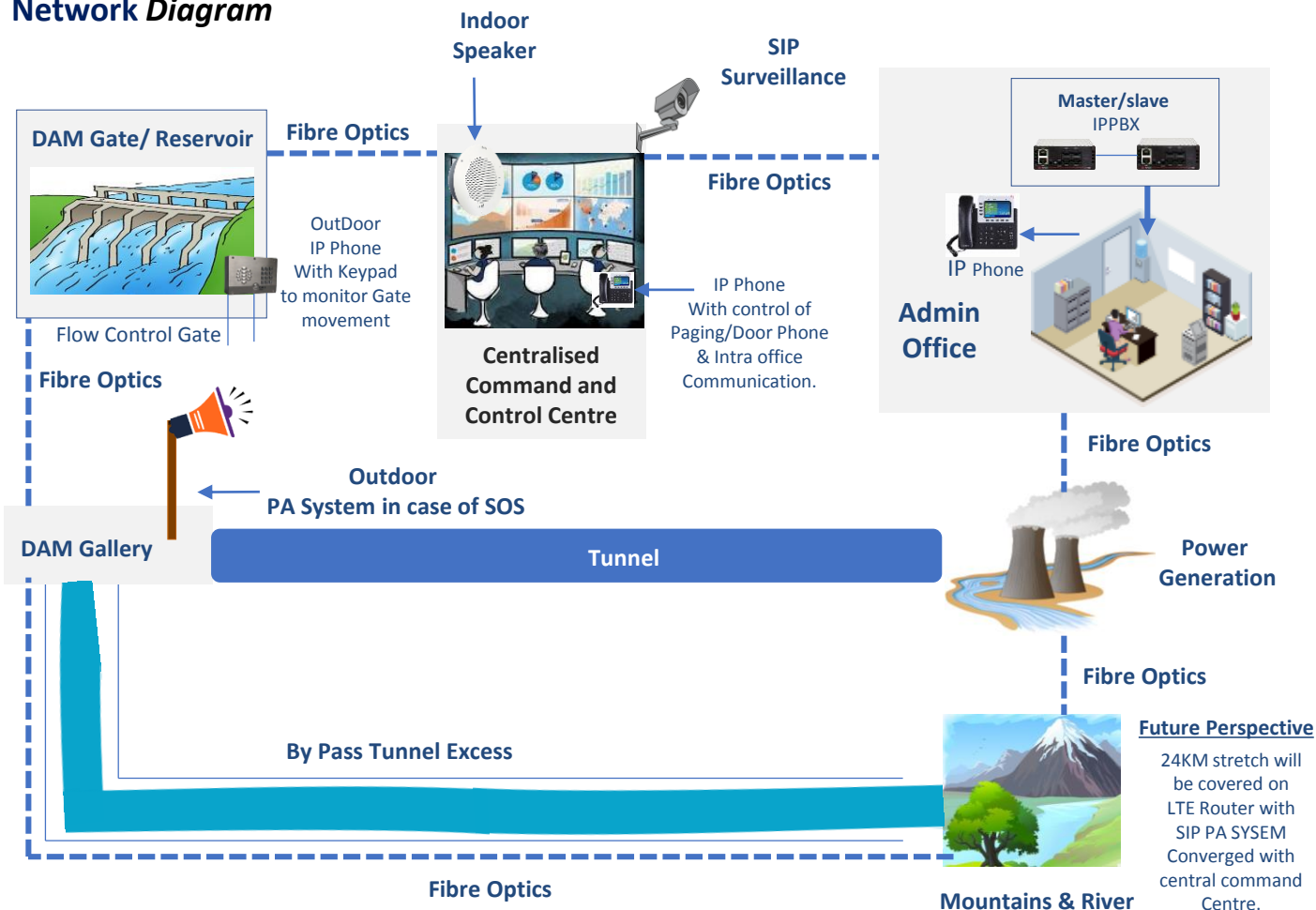
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Network Diagram



Future Perspective

24KM stretch will be covered on LTE Router with SIP PA SYSEM Converged with central command Centre.

About Cohesive Technologies

Cohesive Technologies is a Global Telecom Solution Provider on VoIP and IP Platform As well a leading Integrator and Solution Provider with the Best Innovative IP Solutions which adds value to Customers through a combination of different high end technologies for a true Converged Solution.

Working with Technology Partners like **CyberData, Grandstream, Epygi, 2N, Digium, Milesight, TelephonyKart & Yeastar** helped us delivering state-of-the-art-technology Products to Premise and Cloud based requirements for various companies that span across multiple segments.