

Architecture Engineering & Construction Forum

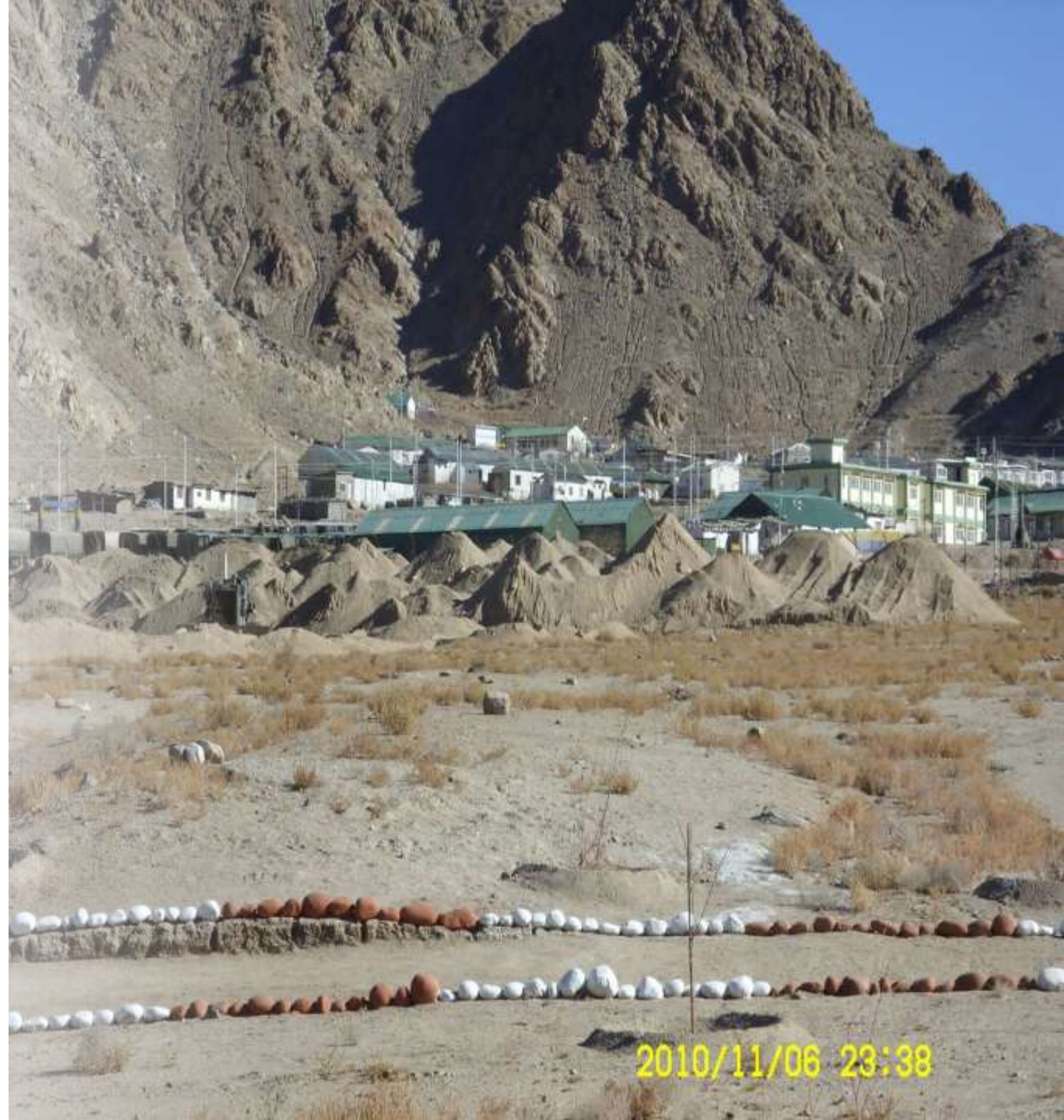
21-22 Aug 2025

Infrastructure Development in the Indian Army

- ✓ **Infrastructure in the Indian Army**
- ✓ **Key Challenges in Infrastructure Development**
- ✓ **Mitigation Measures**
- ✓ **Way Ahead**

Infrastructure in the Indian Army

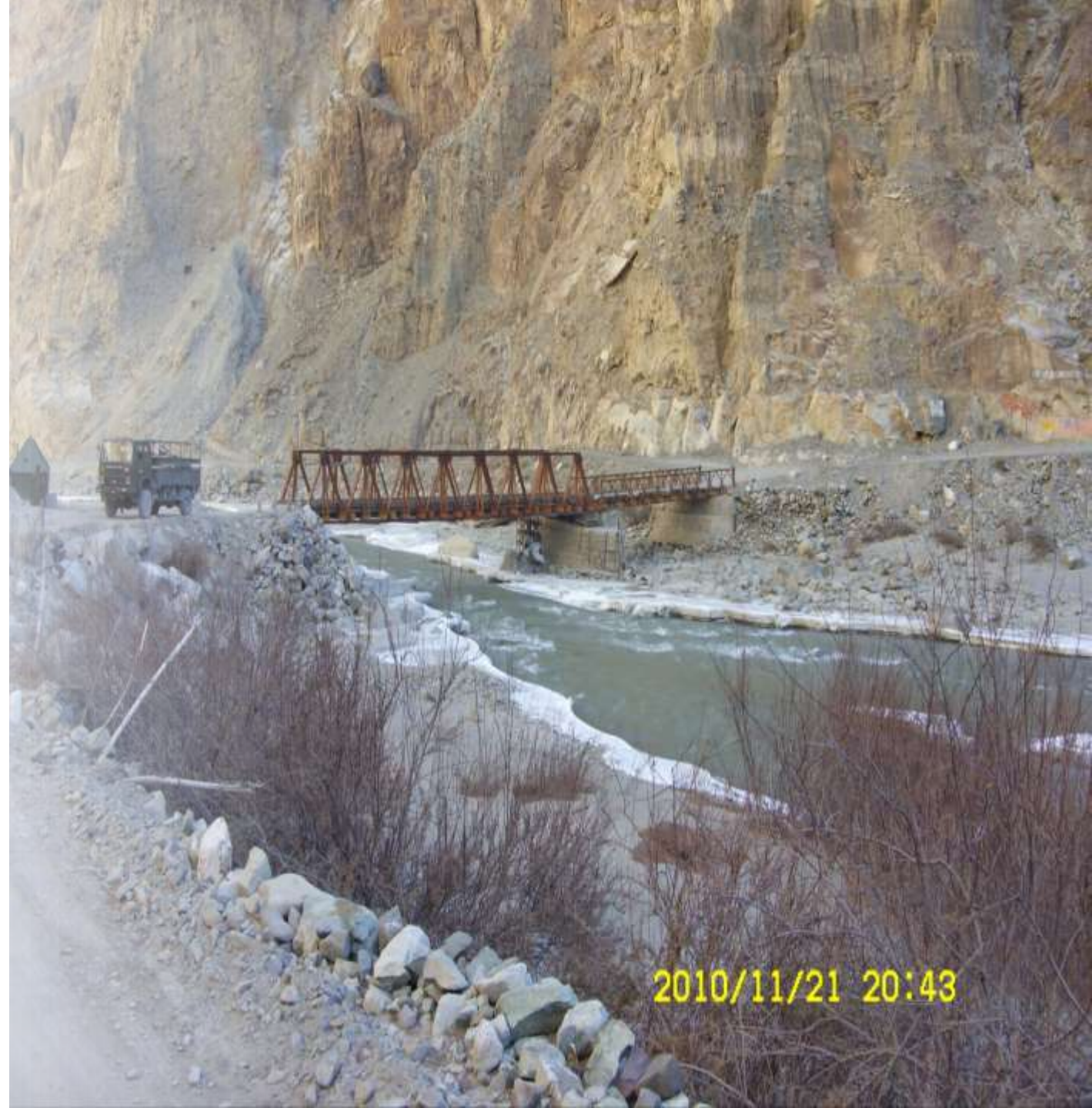
- ✓ Operational Infrastructure
- ✓ Cantonments & Military Stations
- ✓ Training Infrastructure
- ✓ Lines of Communication
- ✓ Maintenance of Assets



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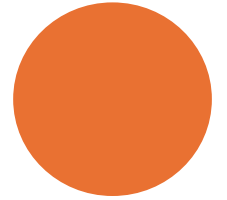
Key Challenges in Infrastructure Development

- ✓ Geographical Diversity
- ✓ Logistical Constraints
- ✓ Security Concerns
- ✓ Technology Infusion
- ✓ Budgetary Constraints



Mitigation Strategies

- ✓ **Infrastructure Management System**
 - Defence Works Asset Portal (DWAP)
 - Scales of Accommodation
 - Standard Designs
 - Special Provisions
 - Arman
- ✓ **Project Management through Digitisation**
- ✓ **Data Driven Decision Making - Cost & Time, Enhanced Safety, Transparency & Accountability**
- ✓ **Project Execution**
 - Web Based Project Monitoring Portal (WBPMP)
 - EPC
 - Balanced Procedures
 - Collaboration
 - Empowered Committees



Mitigation Strategies

- ✓ Sustainable Infrastructure – *Panchamrit* Plan
 - Net Zero Cantonments
 - Innovative Cooling Techniques – PDRC
 - GRIHA Norms
 - Sustainable Mtrl
 - Decarbonisation
 - Geothermal HVAC
- ✓ Environmental Projects through Defence Works
- ✓ MoEF & CC - Compensatory Afforestation, Forest Clearance
- ✓ MoD (Land) - Strategic Area Notification & Operational Need Land



26/04/201

Way Ahead

✓ Streamlining Construction Processes

- Construction Technology
- Automation & Robotics
- Real Time Monitoring

✓ Digitisation

- Smart Infrastructure
- Improved Asset Management
- Adaptability to Change
- Improve Collaboration

✓ Sustainable Design

✓ Technology Absorption

✓ Imbibe Best Practices



Military Infrastructure as a Force Multiplier

- ✓ **High Speed, Modular Climate Resistant Infrastructure**
- ✓ **Concealed Military Assets**
- ✓ **Sustainable, Green & Energy Secure Military Installations**
- ✓ **Cyber Resilient Infrastructure**

Thankyou