



Disruptive Innovations for Utilities "Tower Mounted Substation"

Speakers: Swapnil Rao, Lead Engineer, Tata power Vikas Koul, Lead Engineer, Tata power





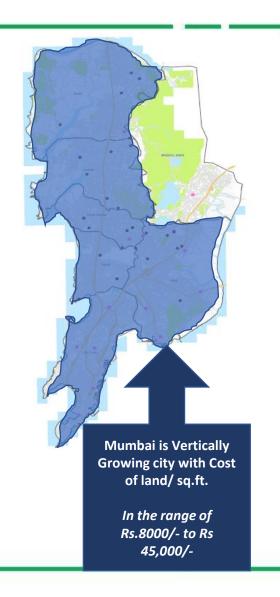


Existing Scenario



- Requirement of substation (CSS) in Metro cities.
- Space requirement of CSS: 40sqm
- Space scenario in metro cities: Reluctance of Developers
- Parallel Licensee.

Alternative???







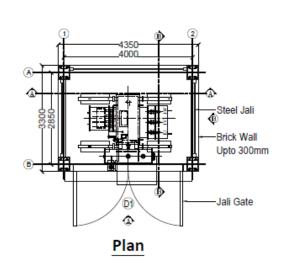


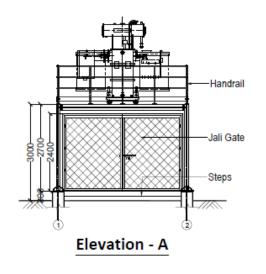
Innovation: Engineering Design

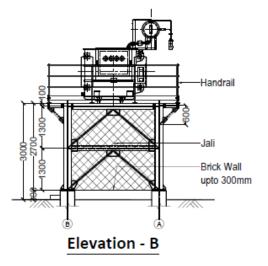


- Reduction of foot print for substation: 16sqm
- G+1 Structure arrangement
- Safely working environment
- Civil Strengthening design for transformer













Potential Impact



- Reduction of footprint of substation
- Customer delight
- Safe Design
- Inhouse design
- Flexibility of design
- Ease for CSS maintenance
- No dependency on OEM









Scalability and Replication



- Not restricted to specific rating
- Easy for fitment & operation
- Augmentation of design is possible
- Highly scalable in Metro cities
- Solution: Space Crunch sites





Economic Rationale



- Foot Print reduction by 60%
- Customer Delight
- New customer acquisition
- No special equipment procurement
- No dependency on OEM
- Flexibility for different rating as per condition

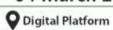






Actual Execution









THANK YOU

