



"The vision of Gujarat would be incomplete without capitalising on the in-house financial business acumen.

To tie-up with technology, to create a hub complete with infrastructure, to

meet the needs of modern Gujarat, modern India and to create a space in the global financial world... that is my dream"

Shri Narendra Modi Hon'ble Prime Minister of India



Need of Global Financial Hub in India



Significant Potential:

- Financial Services Sector transformed over the last decade
- Sector contributes significantly to the Indian economy
- Employs over 4 million people and likely to grow around 10-11 million by 2020
- Represents around 5% of the GDP and will grow to 15% by 2020
- Estimated market capitalization of over US\$ 300 billion and likely to grow over
 US\$ 1600 billion by 2020
- Offers distinct kinds of opportunities across several product markets



"Given India's continued economic growth, the financial sector will grow increasingly larger, with a prospect of 10 to 11 million jobs by 2020."

Why Gujarat?



GUJARAT'S STRENGTHS

- Traditional business community
- High growth economy-- >10 % over last five years
- Pool of trained manpower
 - CAs
 - Commerce graduates
- Active Capital Markets-- >Gujarat contributes 30% of stock market capitalisation
- Proactive Government
- 43% urban population envisioned to be 50% by 2015

KEY COMPETITIVE FACTOR

- People Gujarat has an adequate employable pool and offers high potential for inward migration
- Business Environment Gujarat has demonstrated successfully its forte of providing conducive business environment
- General Competitiveness Overall, the state stands tall

GIFT- An Integrated Smart City A Global Financial Hub

- Globally benchmarked
 International Finance Centre
- Strategically located
- Central business hub
 0.5 Mn direct & 0.5 Mn indirect jobs
- Targeting Financial Services & IT/ITeS sectors
- First of it's kind development in scale, scope and quality
- State-of-the-art infrastructure









Strategic Location - India / Gujarat

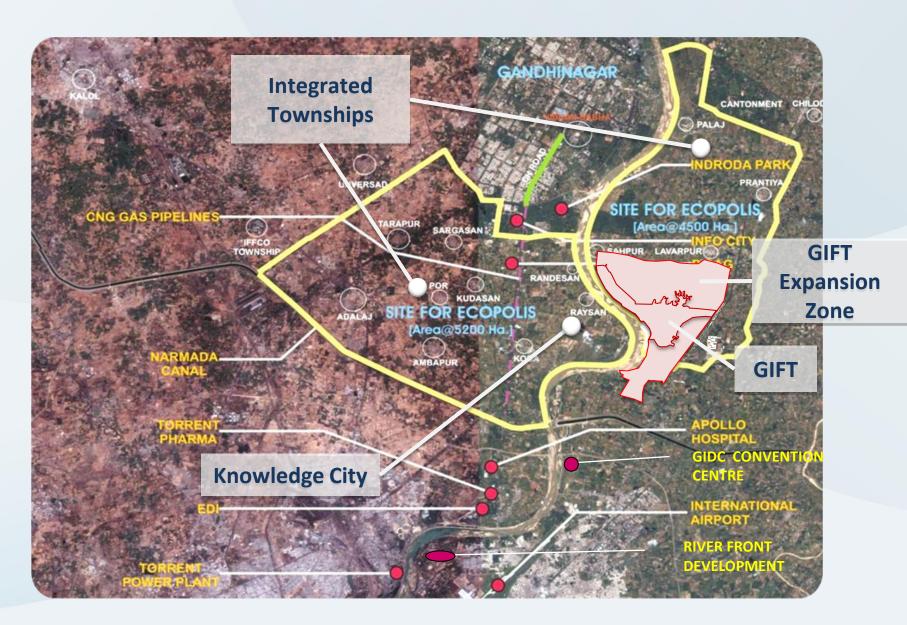




BRTS

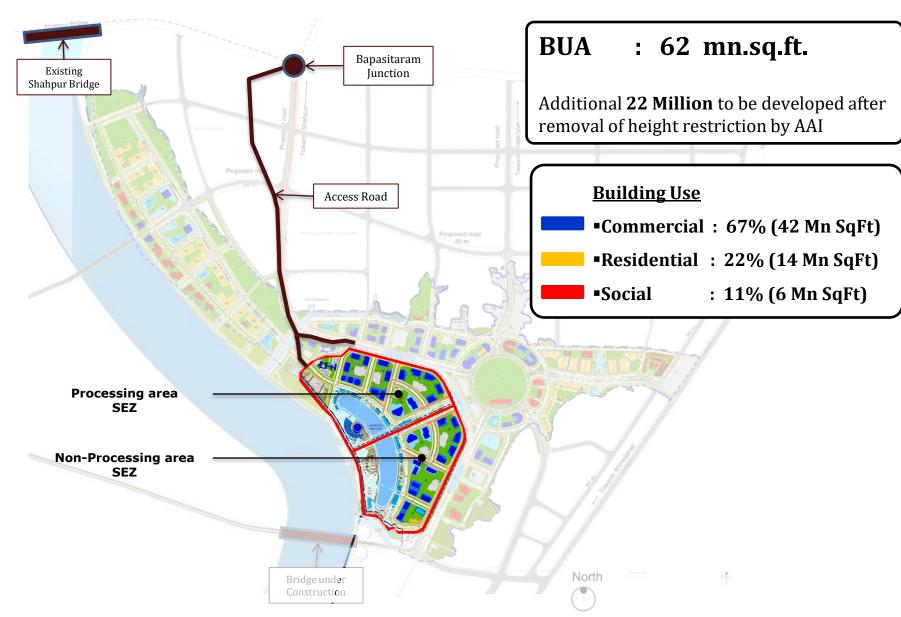
Master Plan Area: GIFT Will Spur Development In The Region





GIFT: Master Plan





GIFT Development Structure



Domestic Finance Centre/ Corporate Office/ Trade Centre

Multi Service SEZ with IFSC Status

Associated Infrastructure, Housing and Social Facilities



110 Buildings

- 1 Tallest building above 400m
- 2 Landmark Buildings (Height- above 350 mt)
- 18 Buildings (Height- 150 mt to 300 mt)
- 73 Buildings (Height- 100 mt to 140 mt)
- 2 Schools International and Domestic Board
- 200 Beds Hospital
- Hotels (5000 rooms)





GIFT an Integrated Urban Development



Smart Business Environment:

 Benchmark office, high-rise district with landmark buildings



Technology:

- Broadband FTTP
- WiFi / Wimax
- Shared IT Services
- Global Connectivity

Integrated Residential Development:

- Well-planned residential housing projects
- Walk-to-work

Social Infrastructure:

- International Exhibition Complex
- Educational Institutes
- International and Domestic schools
- State of the Art Hospital
- Training School
- 5 star Hotels and Business Club

Overall Connectivity/ Transport:

- External Connectivity includes MRTS / BRTS/ Roads
- Public-Private Modal Split 90:10



Smart Infrastructure:

- Uninterrupted and highly reliable power supply (99.999%)
- Next generation water & waste management, district cooling

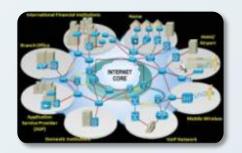
Retail Cum Entertainment Hubs:

- High quality entertainment malls
- Large river front entertainment development
- Over 60% of the green Space



GIFT Smart Infrastructure – Physical

- Integrated infrastructure for better diversity
- Smart Technology ensuring energy conservation
- All utilities /services to be coordinated through single agency











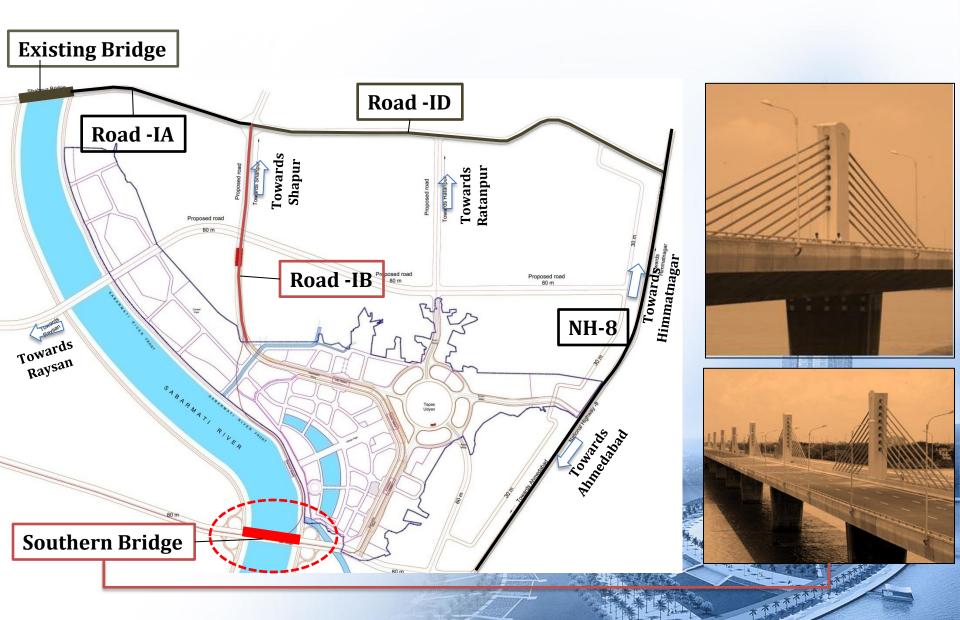
INFRASTRUCTURE FACILITIES/ SERVICES

- Roads and Transportation
- Water Systems
- o ICT
- Power Generation and Distribution
- District Cooling System
- o Domestic Gas Distribution
- Waste Management Systems
- Utility Tunnel
- Landscaping



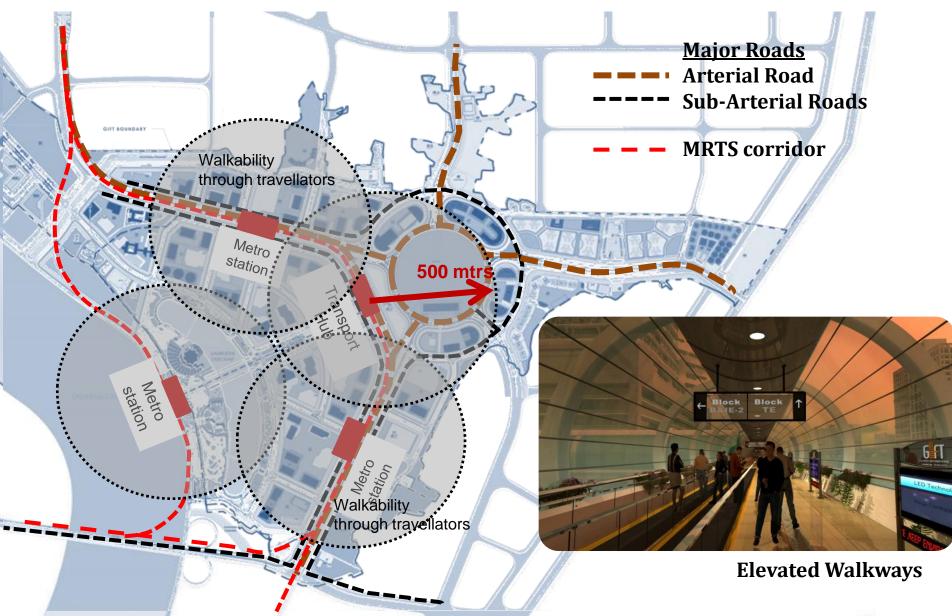
External Road Connectivity BY GOVT. OF GUJARAT



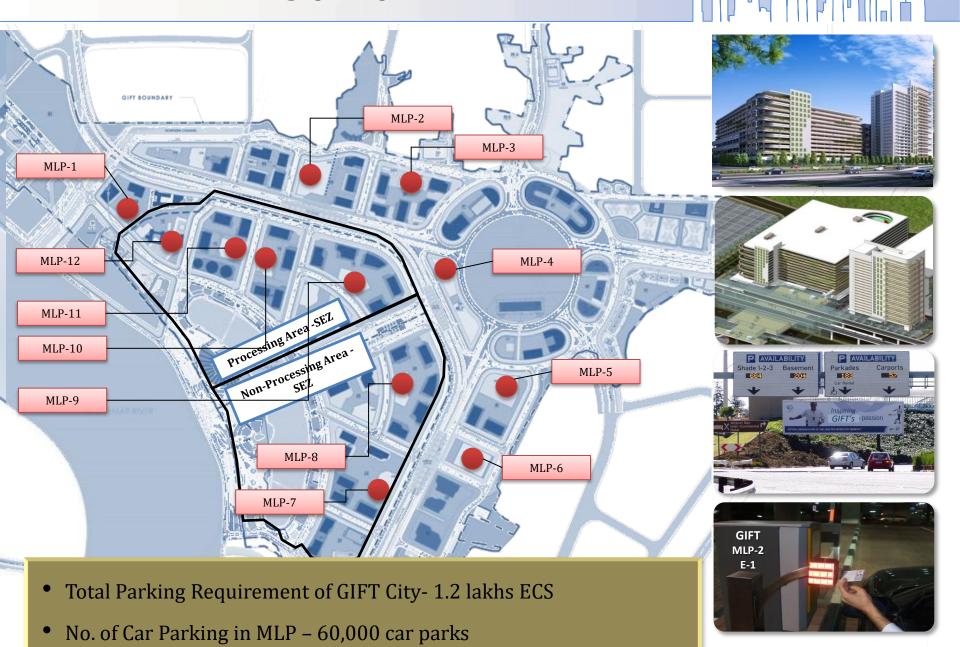


GIFT- A Transit Oriented Development Major Internal Transport Corridor





Multi Level Parking (MLP)





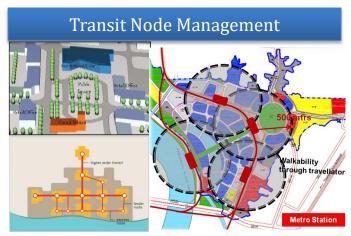


SMART Transportation















Roads & Street Lights





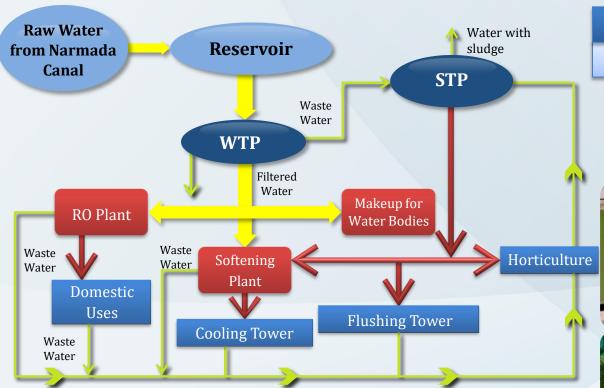






Water Infrastructure





SMART Water Infrastructure Utility Monitoring











Controllers



Drink from Any Tap

- Quality Water- can be drunk from any tap
- Storage of surface run-off & rain water
- Approach towards making the project water neutral

Water Treatment Plant









District Cooling System



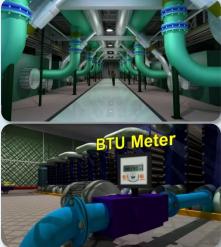
Total Cooling Load - 2,40,000 TR

- Efficiency through economies of scale
- Reduces energy costs
- Reduces maintenance costs
- Improves air quality and temperature control
- Reduces noise and vibration
- Conventional AC System not required

DCS Control Centre- Smart Infrastructure

- Monitoring District Cooling Plant System
- Simulation of cooling/energy requirements
- Analyze interface with distribution/usage for both the supply and return elements
- Evaluation of extensive economic scenarios
- Safety Management, Emergency response







District Cooling System





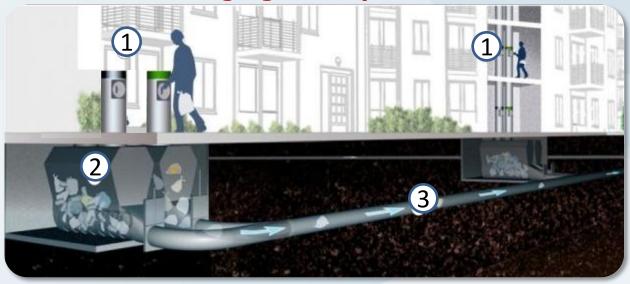




Solid Waste Management

- Maximise resource recovery / minimal emissions
- Minimise impact on environment, human intervention, space requirement, impact on health hazard
- No waste visibility
- Power neutral

Automatic Collection, Transportation and Segregation System



- 1. The waste is thrown into a disposal chute
- 2. Computer controlled access
- 3. Waste sucked through pipes at a speed of 90 km/hr
- 4. Treatment through plasma gasification





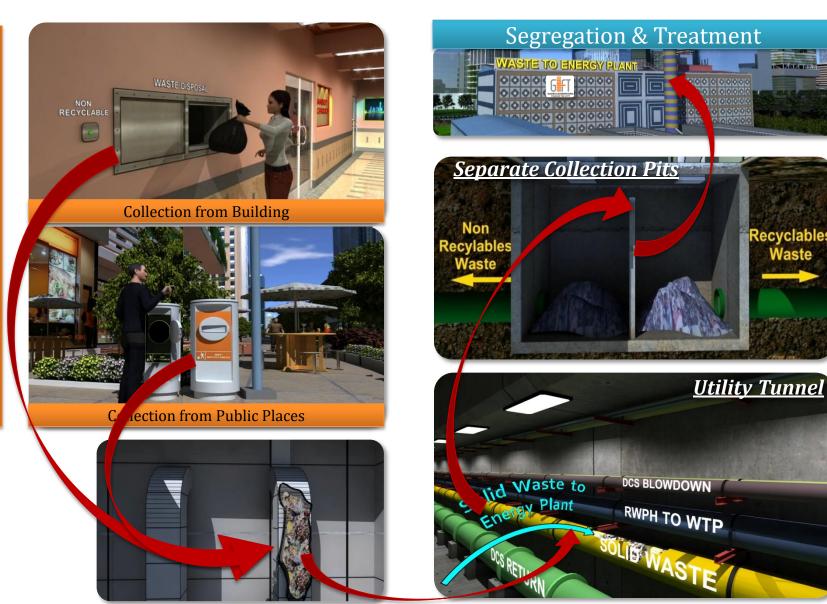
- Monitoring E-Waste;
 Bio-medical, Hazardous
 Waste handling system
- Monitoring Central
 Waste Handling Facility
- Monitoring Residual
 Waste handling, rejects
- Safety Management,
 Emergency response

Transportation

Automated Solid Waste Management



Recyclables



Automated Waste Collection System







Power Infrastructure

- Underground cabling for power distribution within GIFT
- Substation and Distribution Automation
- Indoor Substation
 - 1. Gas Insulated Switchgears(GIS) substation for subtransmission and distribution within GIFT
 - 2. Compact substation (CSS) in building
- Total Power Requirement- 750 MVA (from dual source)
- Emergency Power generation (Gas Based) 150 MW
- Green Power







Power Control Centre

- Power supply monitoring
- Power loss minimization
- Grievance redressal system
- Power consumption and efficiency monitoring
- Emergency Power supply monitoring

Reliability – 99.999% which means outage of only 5.3 minutes/annum

66/33 KV Power Receiving Station









Utility Tunnel Alignment

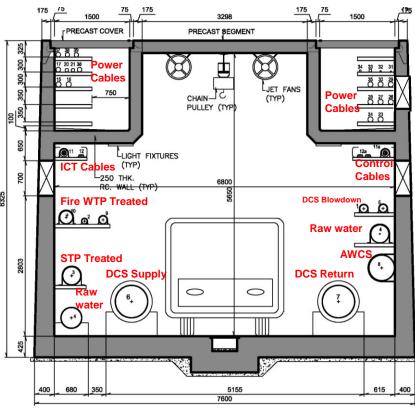




Utility Tunnel Details









Access to Tunnel





SECTION B-B

Lighting & Ventilation

Utility Tunnel



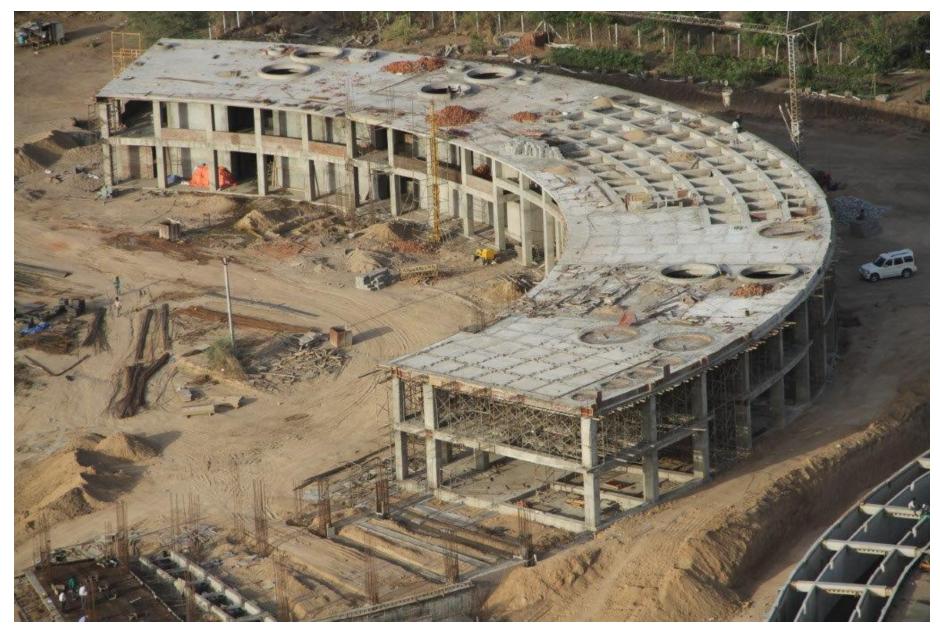






GIFT Fire Station







GIFT Vision



GIFT ICT Vision

Create a *world class financial city* by offering an unrivalled business environment to global and local financial services enterprises.

Create *leading-edge* infrastructure, services and platforms and offer financial services enterprises a *significant competitive advantage to operate regionally and globally*



Pre-enabled on demand Infrastructure



GIFT Occupants would have access to following ICT Services

INFRASTRUCTURE

- High Speed Fibre
- Network
- Diverse Local and International Connectivity
- PervasiveWireless andMobile Network
- Data Centres

PLATFORMS

- Financial Extranets
- CUG to Exchanges
- Voice
- Industry Specific
 Platforms
- City e-Portal
- Sensor Networks
- IPTV Internet Gateway

SERVICES

- Data
- Voice
- Wi-Fi
- Tier-4 Data Centres
- Business Continuity
- Security
- High Speed Internet Access
- Monitoring



"Identify the defects before consumer noticing it. Rectify the defect before receiving the complain."

Smart City GIFT Development



Smart Urban Infrastructure

- Water Systems
- Power
- ICT System
- District Cooling
- o Domestic Gas
- Waste Management
- o Fire Fighting
- o Utility Tunnel

Smart Buildings

- o Offices
- o Home
- Hotel
- o School
- Hospital

Smart Transport

- o Traffic Mgmt
- o Parking
- Area Traffic Control
- o Road Condition System
- o Real Time Travel Response

Smart Streets

- Digital Signage
- Streetscape

City Command and Control Centre (C4)

Smart Landscape

IrrigationSystem

Smart City Security and

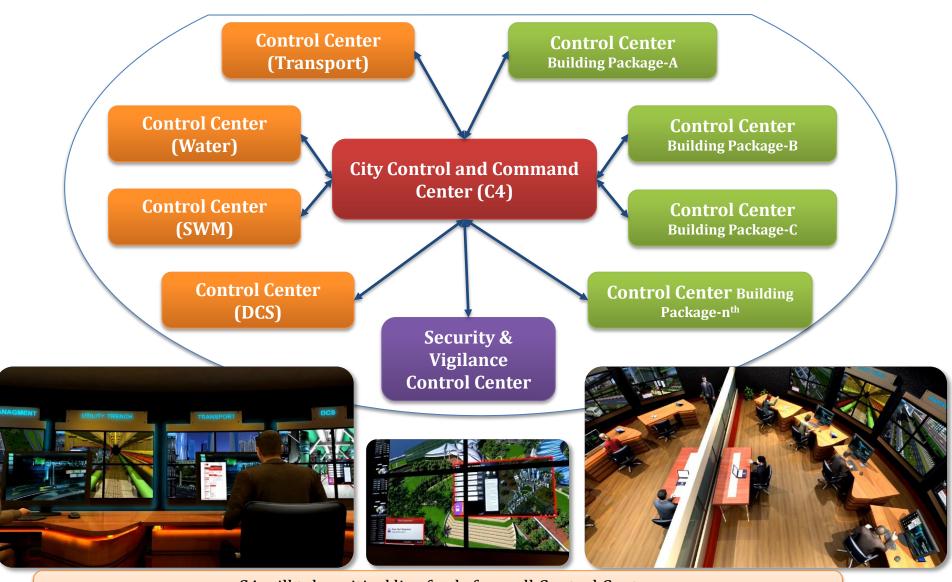
Surveillance

Smart Desks

- City Information
- Facilitation Centers

Central Command & Control





- C4 will take critical live feeds from all Control Centers
 - C4 will take remedial actions in case of emergency





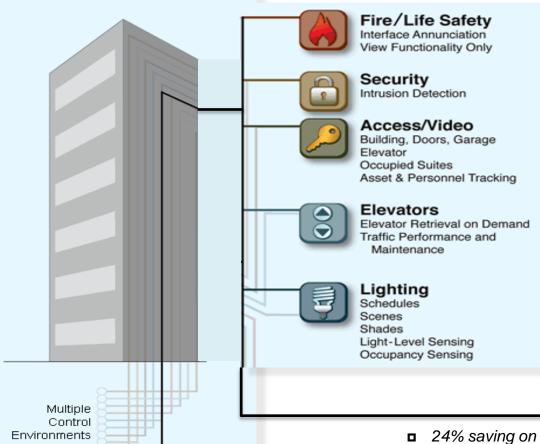
TATA COMMUNICATIONS

- Tier IV Data Centre
- 900 Racks
- 0.1 Mn Sqft
- Investment of around Rs.150 Cr
- Employment Generation-100
- To be operational by 1st
 June-2015

GIFT Intelligent Buildings



Single IP Network vs. Multiple Proprietary Networks





Energy Management Utility Monitoring (Electric/Water/Gas/Oil) Utility Purchasing

Utility Purchasing Back-Up Generation



24/7 Monitoring

Alarming & Notifications Plant Management Condition Monitoring Parking Garage Utilization



HVAC

Air-Handling Units VAV & CV Boxes Exhaust Fans Chilled Water Plant Hot Water Plant Energy Control CO Monitoring Air Quality



Communications

Voice/Video/Data

- 24% saving on building management system
- 4.5% saving on total build cost
- 36% saving on operational expenditure

Central Monitoring and Control

Office Buildings – GIFT ONE and GIFT TWO





- Total BUA –approx. 0.8 mn sq ft (each)
- Structure: Basement + 28 Floors
- Tallest Buildings in Gujarat
- Grade A Commercial Office space with high end technical specifications and features like district cooling, vacuum based waste management system, Intelligent Building Management System, Energy Efficient Green Building
- Vertical transportation: Through 12 high speed elevators with a speed of 4m/sec

International Award/Recognition



- □GIFT City has been conferred as "Smart City of Future" by Cisco Technology Award 2014
- □GIFT is recipient of IDC ICONIC Award 2014 in Government Sector category
- □GIFT won e-LETS Award 2014 for "Innovative Solutions for Smart City"
- □GIFT City was awarded "Best Industrial Development & Expansion" by the "World Finance Infrastructure Investment Awards 2012" at London. (beating Songdo South Korea & Moscow International Finance Center Russia)
- □GIFT City is amongst the 10 top infrastructure projects of India according to Economic Times and Rediff
- □GIFT City selected as one of the world's 'Strategic Top 100 Infrastructure Projects' in 2014 by CG/LA Infrastructure, 25 year old US based firm.
- □GIFT City got a recognition in "Innovation in Utility Transmission & Distribution Infrastructure 2013" presented by Bentley Systems at London
- □Leadership in Integrated Green City Design Planning at Green Cities Forum in 2014
- □GIFT City received ICI Utratech Award for Outstanding Concrete Structure of Ahmedabad in 2013

Thank you.....

