

# Smart City Mission : Integrated Command and Control Centre



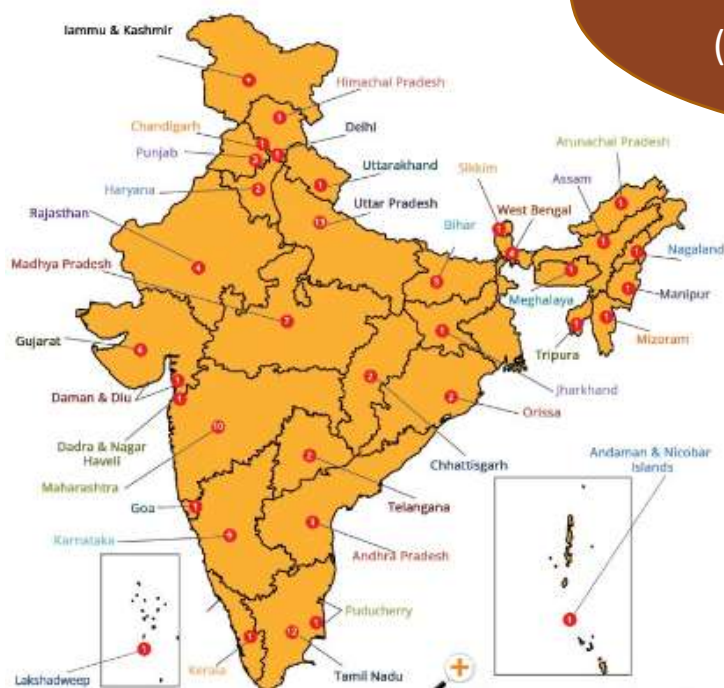
**NATIONAL WORKSHOP  
FOR  
PROJECT MANAGEMENT CONSULTANTS OF SMART CITIES**

**Date: 30<sup>TH</sup> OCT 2017**

**Venue: INDIA HABITAT CENTER, NEW DELHI**



# 90 Winning SCP for Smart ICT Investments



LH Cities (20)  
Investment :  
(Approx. INR 3250 Crores)

Fast Track cities (13)  
Investment : ( Approx. INR  
982 crores)

Fast Track cities (27)  
Investment : ( Approx. INR  
1485 crores)

Round 3 ( 30)  
Investment : ( Approx. INR  
6527 crores)

## RFP's STATUS:

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Total RFP Released: 26

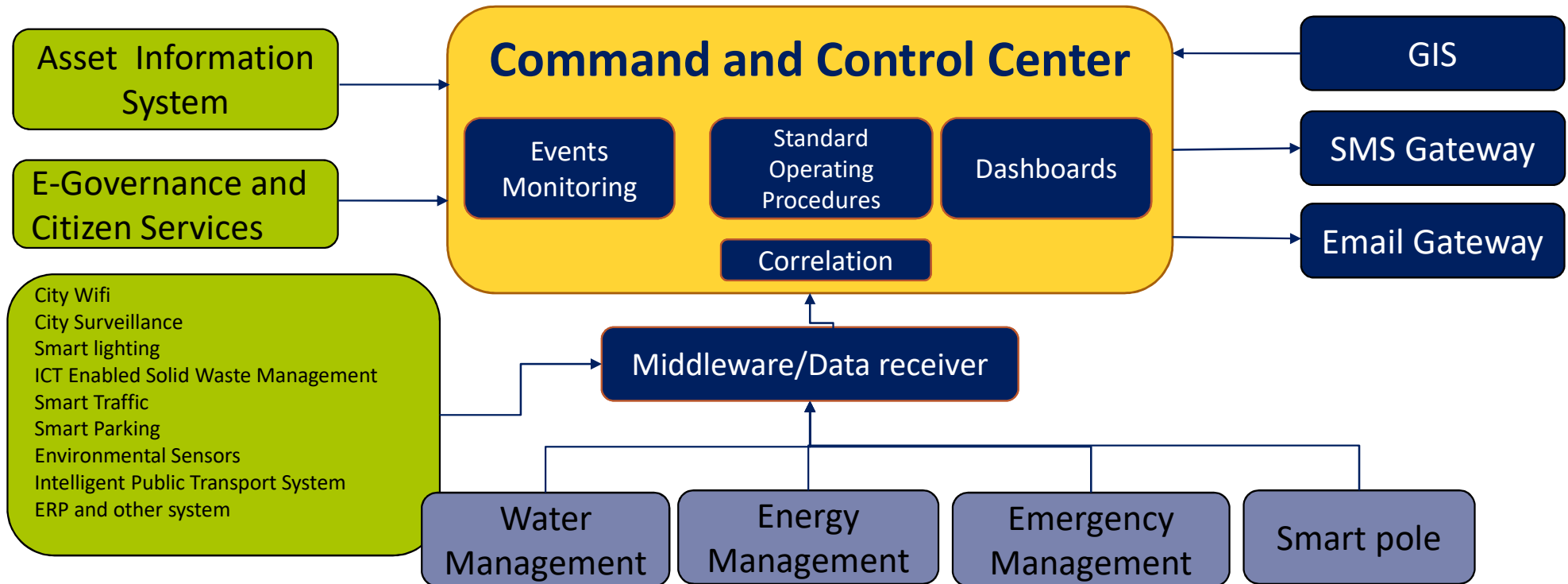
Tender Settled : 20

# CCC Architecture Overview

Central Command  
Center Operator



Domain wise  
Operators

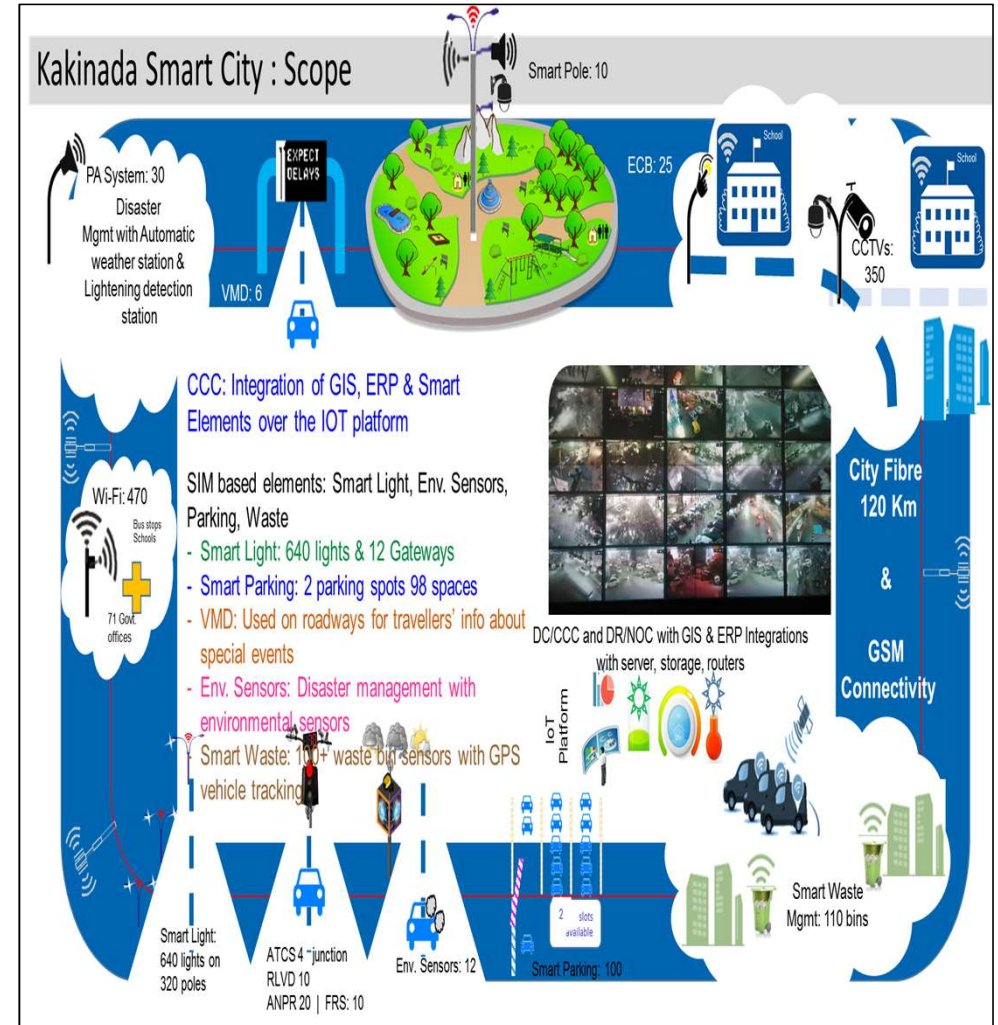


Central Data center with Data Recovery





Pune Command and control Center Actual



Kakinada Proposed Command and control Center



Surat Command and control Center Actual

# Command & Control Centre

## COMPARATIVE ASSESSMENT OF SMART COMPONENTS

### NAGPUR

OFC  
CITY WIFI  
CITY SURVEILLANCE  
STREET LIGHTING/ POLES  
ICT ENABLED SWM  
SMART TRAFFIC  
ENV. SENSORS  
CITIZEN SERVICES  
SMART STRIP

### VIZAG

OFC  
CITY SURVEILLANCE  
STREET LIGHTING/ POLES  
ICT ENABLED SWM  
ENV. SENSORS  
CITY TRANSPORT SYSTEM  
ERP  
PA SYSTEM  
SMART BILLBOARD/ VMD

### JAIPUR

CITY WIFI  
CITY SURVEILLANCE  
STREET LIGHTING/  
POLES  
SMART PARKING  
ENV. SENSORS  
CITIZEN SERVICES/  
KIOSKS

### KAKINADA

OFC  
CITY WIFI  
CITY SURVEILLANCE  
STREET LIGHTING/ POLES  
ICT ENABLED SWM  
SMART TRAFFIC  
SMART PARKING  
ENV. SENSORS  
CITIZEN SERVICES  
ERP; PA SYSTEM; VMD

### BHUBANESWAR

OFC  
CITY WIFI  
Intelligent traffic  
management  
ERP, Smart pole  
E-GOV  
Smart Parking  
Smart solid waste  
management  
Smart Traffic, Env Sensor

### AHMEDABAD

CITY WIFI  
CITY SURVEILLANCE  
STREET LIGHTING/ SMART  
STREET POLES  
CITY BUS TRANSPORT  
SYSTEM/ VMS  
PA SYSTEM

### PUNE

OFC  
CITY WIFI  
CITY SURVEILLANCE  
SMART TRAFFIC  
PA SYSTEM  
ENVIRONMENTAL  
SENSORS

### BHOPAL

CITY WIFI  
CITY SURVEILLANCE  
STREET LIGHTING/  
POLES  
ENV. SENSORS  
CITIZEN SERVICES  
SMART BILLBOARD  
ELECTRONIC  
VEHICLE CHARGING

### RAJKOT

STREET LIGHTING/ POLES  
ICT ENABLED SWM  
SMART TRAFFIC  
SMART GRID  
SMART WATER/  
WASTEWATER  
MANAGEMENT  
SMART HEALTH  
GIS

### VADODARA

SOLID WASTE  
MANAGEMENT,  
SMART WATER  
PUBLIC TRANSPORT,  
INTELLIGENT POLE  
ITS, DISASTER  
MANAGEMENT SYSTEM  
GIS SYSTEM  
ALL ABOVE INTEGRATION



## Smart City Mission : Integrated Command and Control Centre

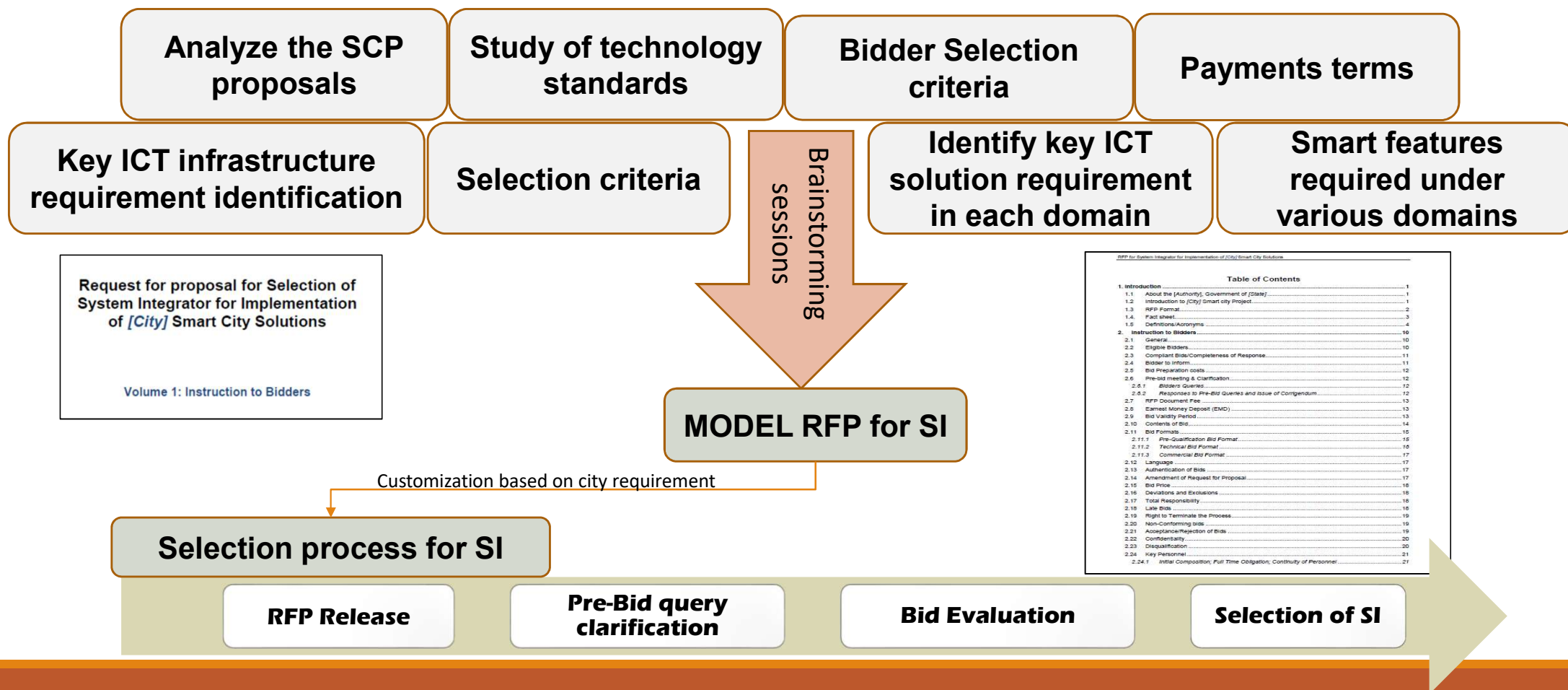


How to fast track ICCC projects





# What we did:



## MSI MODEL RFP : ICT components

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### Key Features:

- Technology neutral and vendor independent
- Performance linked features like payment plan, Outcome based schedule
- Integrated and scalable solutions provisioning
- Optimum use of resources like sharable infrastructure
- Qualification criteria suggestion for better technology evaluation
- RFP vetted and reviewed by C-DAC and DEITY

### Smart Solutions

- ❖ City back bone Network
- ❖ City Wifi
- ❖ City Surveillance
- ❖ Smart lighting
- ❖ ICT Enabled Solid Waste Management
- ❖ Smart Traffic
- ❖ Smart Parking
- ❖ Environmental Sensors
- ❖ City Bus Intelligent Transport System
- ❖ Smart Governance and Citizen Services

### Key ICT components

- ❖ Datacenter
- ❖ Disaster Recovery site
- ❖ High availability of DC
- ❖ Integrated Command and Control Center

## Key Benefits of MSI ( Master System Integrator)

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- Single interface for multiple solutions implementation
- Integrated and scalable infrastructure solution considering all solutions applicable by single SI
- Ease in project execution , coordination and monitoring
- Control on MSI for meeting project timeline
- Same SI for O&M for better result with reduced dependencies
- Outcome based payment plan will help in fast and efficient execution

## What Cities need to do now???

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- Study the Model RFP document
- Customize it as per city requirement
  - Bidders qualification
  - Scope of Work
  - Procurement process
- Add/edit smart solutions as per city requirement
- Fill-up the Annexures attached with Model RFP(Add/Edit as required)
- Release RFP

### **Support from MoHUA TEAMS :**

- Understanding of Model RFP document
- Suggestion on smart solutions may be incorporated
- Support in evaluation on MSI if needed



# Annexures

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### Annexure I: Indicative list of City Wifi Locations

[illegible]

## Annexure II: Indicative List of City Surveillance Locations

a. Name of police station and locations

[illegible]

**Annexure III: Solution Requirement - Locations:**

S. No.	Solution Requirement	Indicative no. of locations
1	PTZ + Fixed Box Camera (including Critical Locations)	
2	Automatic Number Plate Recognition	
3	Red Light Violation Detection	
4	Public Address System	
5	Variable Messaging	
	Thermal Camera	
	Facial Recognition System	

**Annexure IV: Indicative length of City Network Backbone**

**Details on City Network Back bone**

Sl. #	Area within the city*	Length of the network to be laid
		Total (KM)

\* Enclose a map showing area and alignment of network to be laid

[illegible]

*\* This would be an indicative list of locations, SI is expected to carry out an independent assessment and propose for same or different locations for housing the zone level aggregation points. Ward Aggregation points are expected to be identified by SI.*

#### Annexure VI: Indicative list of Environmental Sensors installation locations

[illegible]



## Annexure VII: Locations for Smart Lighting

[illegible]

## Annexure X: Information on City Bus Services

#### A. Category wise fleet size

Sl. #	Fleet Size	

### B. Number and Location of Bus stops (alongwith Map)

[illegible]

### C. Location of Bus depots (alongwith Map)

[illegible]

## CHECK LIST

S.No	Key considerations	Technical /Commercial / General
1	Keep RFP Technology / Vendor Neutral	Technical
2	Propose outcome based solution with clear deliverable	Technical
3	Site survey + As is details - accurate as far as possible+ Stake holders MoU	Technical
4	Encourage more number of industry participation	General
5	e-gov /Deity/ Cyber security Guidelines to be followed	Technical
6	Prepare RFP keeping in mind Min no. of possible Pre bid queries ( Incorporate Maker/Checker )	General
7	Try for No Addendum post pre-bid (unless extremely necessary) so pl take enough care during RFP preparation	General
8	PQ+ Consortium to be clearly defined in the RFP	Commercial
9	Command center Space Sizing- Keeping future growth and application in Mind	Technical
10	Try to use the city existing Resources/DPRs as far as possible	Technical

## CHECK LIST..contd

S.no	Key considerations	Technical /Commercial / General
11	Explore leaseing of Network ,DC,DR	Technical
12	SLA to be clearly defined- for deploying manpower+ implementation phase+ O&M	Commercial
13	Penalty 10% or more - to be defined by city	Commercial
14	Remove Gartner/IDC/Forrester/Pink Verify etc	General
15	Acronyms - to be defined clearly where applicable	General
16	Operation team selection with Stringent SLA - key to success	
17	<p>Note : Please include following clause in RFP under each technical requirement of the items being procured</p> <p>“ The specifications provided in te RFP are indicative &amp; carry guiding rule. The MSI is free to offer products &amp; solutions which meet requirements of RFP focusing on the outcome, future scalability, security, reliability and adherence to specified SLA under this RFP, in line with applicable standards &amp; best practices adopted in the industry ) The MSI is encouraged to design an Optimised solution which is technically superior, innovative, proven, better in terms of functionality and is cost effective. Any specified parameters mentioned in the scope/technical requirement in the RFP may be considered if it is required for meeting current &amp; future requirements during the contract period. The MSI is fully responsible for the specified outcome to be achieved.</p>	



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Q & A

