

10.3. CAPEX Summary Table

#	Subsystems / Items	Description	Supply & Installation Prices (Excl. of all taxes)
1.	Integrated Command and Control Center	From Capex Component of Price Sheet (Sub-Total of A)	
2.	Data Center	From Capex Component of Price Sheet (Sub-Total of B)	
3.	Disaster Recovery Center	From Capex Component of Price Sheet (Sub-Total of C)	
4.	Safety and Surveillance	From Capex Component of Price Sheet (Sub-Total of D)	
5.	Adaptive Traffic Signal Control System	From Capex Component of Price Sheet (Sub-Total of E)	
6.	Traffic Violation Detection System	From Capex Component of Price Sheet (Sub-Total of F)	
7.	Environmental system	From Capex Component of Price Sheet (Sub-Total of G)	
8.	Smart Wi-Fi	From Capex Component of Price Sheet (Sub-Total of H)	
9.	Variable Message Signboard	From Capex Component of Price Sheet (Sub-Total of I)	
10.	Emergency Call Box	From Capex Component of Price Sheet (Sub-Total of J)	
11.	Public Address System	From Capex Component of Price Sheet (Sub-Total of K)	
12.	Smart Classroom	From Capex Component of Price Sheet (Sub-Total of L)	
13.	Network Connectivity on Lease	From Capex Component of Price Sheet (Sub-Total of M)	
14.	Software and service customization cost	From Capex Component of Price Sheet (Sub-Total of N)	
15.	Training and Overall Project Management	From Capex Component of Price Sheet (Sub-Total of O)	
Grand Total			

Total CAPEX Price in Indian Rupees (in words) -

Name of Bidder:	
Authorized Signature of Bidder:	

10.4. OPEX Summary Table

#	Components	Year 1 (in Indian Rupees)	Year 2 (in Indian Rupees)	Year 3 (in Indian Rupees)	Year 4 (in Indian Rupees)	Year 5 (in Indian Rupees)	Total (Excl. of all taxes)
1.	Integrated Command and Control Center						
2.	Data Center						
3.	Disaster Recovery Center						
4.	Safety and Surveillance						
5.	Adaptive Traffic Signal Control System						
6.	Traffic Violation Detection System						
7.	Environmental system						
8.	Smart Wi-Fi						
9.	Variable Message Signboard						
10.	Emergency Call Box						
11.	Public Address System						
12.	Smart Classroom						
13.	Network Connectivity on Lease						
14.	Software and service customization cost						
15.	Training and Overall Project Management						
	Total OPEX Price						

Name of Bidder:
Authorized Signature of Bidder:

Total OPEX Price in Indian Rupees (in words) -

Notes:

- The Commercial evaluation would however be done basing on the Net Present Value (NPV) concept for the entire contract period at a discount rate mentioned in bid data sheet.

Only as an Example,

Bidders	CAPEX	OPEX Cost					Total Bid Price
		Yr. 1	Yr. 2	Yr. 3	Yr. 4	Yr. 5	
Bidder 'X'	343	30	31	32	32	32	500
Bidder 'Y'	325	30	34	35	37	39	500

Bid Evaluation (NPV Method): - (Discounting Rate = 10%)

$$\text{Bidder 'X'} = 343 + \frac{30}{(1+0.1)^1} + \frac{31}{(1+0.1)^2} + \frac{32}{(1+0.1)^3} + \frac{32}{(1+0.1)^4} + \frac{32}{(1+0.1)^5}$$

$$= \text{Rs. 461.7 Cr}$$

$$\text{Bidder 'Y'} = 325 + \frac{30}{(1+0.1)^1} + \frac{34}{(1+0.1)^2} + \frac{35}{(1+0.1)^3} + \frac{37}{(1+0.1)^4} + \frac{39}{(1+0.1)^5}$$

$$= \text{Rs. 456.16 Cr}$$

Name of Bidder:	
Authorized Signature of Bidder:	

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10.5. Price Sheet

The Bidder shall consider the components and quantity to fulfil the RFP and project requirements in totality.

10.5 (a) CAPEX

#	Items	Unit of Measurement	Quantity Proposed (exclusive of spares and consumables)	Unit Price (including Supply, Installation and Commissioning) without GST	Total Price (including Supply, Installation and Commissioning) without GST	GST		Total CAPEX with GST
						%	GST Amount	
1	2	3	4	5	6=4x5	7	8	9=6+8
A. Integrated Command and Control Centre								
1	Video wall (70" in 5*3 configuration)	Unit	1					
2	Video Wall Controller	Nos.	2					
3	Video Wall Management Software	Nos.	2					
4	Interior, Cabling & Other Fixtures	Lot	1					
5	Keyboard Joystick to control PTZ Cameras	Nos.	As per requirement					
6	Access Switch	Nos.	3					
7	LED TV 55"	Nos.	5					
8	Public Address System	Set	2					
9	Audio Mixer and speaker system	Set	As per requirement					
10	Monitoring Workstation with three monitors	Nos.	12					
11	Online UPS (sizing as per proposed solution)	Nos.	As per requirement					
12	Multifunction Device printing	Nos.	2					

#	Items	Unit of Measurement	Quantity Proposed (exclusive of spares and consumables)	Unit Price (including Supply, Installation and Commissioning) without GST		Total Price (including Supply, Installation and Commissioning) without GST	GST		Total CAPEX with GST
				INR	5		%	7	
1	2	3	4						
13	IP Phones	Set	As per requirement						
14	Multiparty Video Conferencing system with licenses	Set	1						
15	Network Colour Laser printer	Nos.	4						
16	Network B/W Laser Printer (Heavy Duty)	Nos.	6						
17	Biometric access control system	Nos.	4						
18	Dome cameras for internal surveillance	Nos.	8						
19	Fire Alarm System	Set	1						
20	Rodent Repellent system	Set	2						
21	Split Air Conditioner (5 star energy efficiency rating)	Nos.	As per requirement						
22	Site Preparation as per the RFP	Lump sum	As per requirement						
23	Workstation Furniture, Fixtures and Ergonomic Chairs for ICCC	Nos.	15						
24	Revolving Chairs for office staff	Nos.	35						
25	Office Desk Furniture and Fixtures	Nos.	35						
26	Meeting Room Table and Chairs Set (for 10 personnel)	Set	10						
27	Laptops	Nos.	10						

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#	Items	Unit of Measurement	Quantity Proposed (exclusive of spares and consumables)	Unit Price (including Supply, Installation and Commissioning) without GST	Total Price (including Supply, Installation and Commissioning) without GST	GST		Total CAPEX with GST
						%	GST Amount	
1	2	3	4	5	6=4x5	7	8	9=6+8
				INR	INR	INR	INR	INR
28	Desktops for Support Staff	Nos.	10					
29	Setting up and dismantling of Temporary Command and Control Centre	Lot	1					
30	Any other item required as per bidder design	Lot						
Sub Total of A								
B. Data Center (DC)								
1	Core Router	Nos	2					
2	Core Switches	Nos	2					
3	Firewall (NGFW)	Nos	2					
4	Firewall (Intranet)	Nos	2					
5	WAF (Web Application Firewall)	Nos	2					
6	42 U Network Rack (Intelligent-Rack)	Nos	8					
7	KVM Switch with Monitor	Nos	2					
8	Server load balancer	Nos	2					
9	Blade Chassis	Nos	4					
10	Server	Nos	40					
11	Continuous Learning Server (including Software)	Nos	As per design requirement					
12	NAS/SAN/Scalable NAS Storage	Size	1 PB					
13	Tape Library	Nos	2					
14	IP EPABX with auto call distributor	Lot	1					

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#	Items	Unit of Measurement	Quantity Proposed (exclusive of spares and consumables)	Unit Price (including Supply, Installation and Commissioning) without GST		Total Price (including Supply, Installation and Commissioning) without GST	GST		Total CAPEX with GST
				INR	5		%	7	
1	2	3	4	5	6=4x5	7	8	9=6+8	
15	DDOS	Nos	2						
16	SAN Switch	Nos	2						
17	Access/Edge Switch	Nos	8						
18	IP: Network Video Recorder	Nos	2						
19	Access Control System	Lot	1						
20	Backup Software	Lot	1						
21	Enterprise Management System (including SLA Mngt, Help Desk Mngt, Network Mngt, BMS)	Lot	1	Scanned copy to be uploaded					
22	DB License	Lot	1	Online at					
23	Server OS License	Nos	As per requirement	www.tendersodisha.gov.in					
24	OS CA License	Nos	As per requirement	(Not to be submitted in					
25	ATCS application	Lot	1	Physical form)					
26	ANPR Application	Lot	1						
27	TVDS Application	Lot	1						
28	E Challan Application	Lot	1						
29	VaMS Application	Lot	1						
30	Environment Management Application (EMS)	Lot	1						
31	Digital Voice Logger Application	Lot	1						
32	PAS Application	Lot	1						
33	GIS Application Server License	Lot	1						
34	GIS Application desktop License	Lot	1						

#	Items	Unit of Measurement	Quantity Proposed (exclusive of spares and consumables)	Unit Price (including Supply, Installation and Commissioning) without GST		Total Price (including Supply, Installation and Commissioning) without GST	GST		Total CAPEX with GST
				INR	5		%	7	
1	2	3	4	5	6=4x5	7	8	9=6+8	
35	Video Management Application (VMS)	Lot	1						
36	Virtualization Software License	Nos	as per requirement						
37	Wi-Fi Application	Lot	1						
38	Mail & Messaging application	Lot							
39	ICCC core application	Lot	1						
40	IOT Platform License	Lot	1						
41	SOA Integration middleware	Lot	1						
42	SMS Gateway with annual 2,00,000 SMSs	Lot	1						
43	Web Server License	Lot	1						
44	DLP Server + 50 Cal license	Lot	1						
45	Application and Data Encryption	Lot	1						
46	Secure Email Gateway	Lot	1						
47	Anti-virus Software for Application (1-Server + 50-Cal)	Nos	50						
48	ADC (Application Delivery Controller)	Lot	1						
49	Edge AI analytics software (Enterprise License)	Channel	4500						
50	SIEM (HA)	Lot	1						
51	AAA	Nos.	1						
52	Advanced Persistent Threat (APT)	Nos.	2						

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#	Items	Unit of Measurement	Quantity Proposed (exclusive of spares and consumables)	Unit Price (including Supply, Installation and Commissioning) without GST	Total Price (including Supply, Installation and Commissioning) without GST	GST		Total CAPEX with GST
						%	GST Amount	
1	2	3	4	5	6=4x5	7	8	9=6+8
53	Web and Content Filtering software	Nos.	1					
54	Fire Alarm & Suppression System	Nos	2					
55	Physical security information management (PSIM) Application (may use customized or cots application)	Nos	1					
56	Rodent Repellent System	Nos	2					
57	Indoor Fixed Dome Cameras set	Nos	4					
58	Fire Proof Enclosure for Media Storage	Nos	1					
59	Diesel Generator	Nos	as per requirement					
60	Building Management System	Nos	1					
61	Online UPS (sizing as per proposed solution)	Nos	as per requirement					
62	Precision Air Conditioning System for the Server Farm Area	Nos	4					
63	Split Air Conditioner for the Auxiliary Area	Nos	2					
64	Site Preparation Cost	Lot	1					
65	Networking Cost (Passive Components)	Lot	1					
66	Helpdesk							
A	IP Phone	Nos.	3					

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#	Items	Unit of Measurement	Quantity Proposed (exclusive of spares and consumables)	Unit Price (including Supply, Installation and Commissioning) without GST		Total Price (including Supply, Installation and Commissioning) without GST	GST		Total CAPEX with GST				
				INR	5		%	7		INR	8	INR	9=6+8
1	2	3	4	INR	5	INR	6=4x5	%	7	INR	8	INR	9=6+8
B	Voice Logger	Nos.	1										
C	Soft telephone	Nos.	3										
D	Desktops	Nos.	3										
E	Officer Furniture and Revolving Chair	Nos.	3										
67	Identity Access Management System	Nos	1										
68	HSM	Lot	1										
69	HIPS	Lot	1										
70	Website/ Portal (With Portal Server, CMS and all required backend software)	Lot	1										
71	Mobile App (With all required backend software)	Lot	1										
72	ECB Application	Lot	1										
73	Web Security	Lot	1										
74	Any other item required as per bidder design	Lot											
Sub Total of B													
				(Not to be submitted in Physical form)									
1	DR Cost at 20% active		As per requirement										
Sub Total of C													
				D. Safety and Surveillance									
1	Camera Fixed	Nos.	304										
2	Camera PTZ Cameras	Nos.	65										
3	IR Illuminator	Nos.	369										
4	Mounting Rack (Industrial type)	Nos.	as per requirement										

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C. Disaster Recovery (DR) Center

#	Items	Unit of Measurement	Quantity Proposed (exclusive of spares and consumables)	Unit Price (including Supply, Installation and Commissioning) without GST	Total Price (including Supply, Installation and Commissioning) without GST	GST		Total CAPEX with GST
						GST %	GST Amount	
1	2	3	4	5	6=4x5	7	8	9=6+8
5	Gantry and Pole for Camera mounting with Fitting	Nos.	369					
6	Ruggedized/Industrial Network Switch	Nos.	as per requirement					
7	Network CAT6/6E cable	Nos.	as per requirement					
8	UPS	Nos.	as per requirement					
9	Power Cable	Nos.	as per requirement					
10	Junction Box	Nos.	as per requirement					
11	Any other item required as per bidder design	Lot						
Sub Total of D								
E. Adaptive Traffic Signal Control System								
1	ATCS System/Instrument/Solution	Nos.	29					
2	Blinker Units	Nos.	15					
3	Pelican Signal unit including vehicular and pedestrian lights, poles, solar panel & battery, push button unit and control system for complete intersection	Nos.	10					
4	Camera Based Vehicle Detectors	Nos.	105					
5	300 mm RED LEDs	Nos.	210					

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#	Items	Unit of Measurement	Quantity Proposed (exclusive of spares and consumables)	Unit Price (including Supply, Installation and Commissioning) without GST		Total Price (including Supply, Installation and Commissioning) without GST	GST		Total CAPEX with GST		
				INR	5		%	INR			
1	2	3	4	INR	5	INR	6=4x5	7	INR	8	9=6+8
6	300 mm Amber LEDs	Nos.	210								
7	300 mm Green Arrow LEDs	Nos.	570								
8	300 mm Pedestrian Green & Red LEDs	Nos.	as per requirement								
9	Countdown Timers	Nos.	105								
10	Field, ruggedized, switch	Nos.	29								
11	Solar Power System including Solar module, Solar charger and battery	Nos.	25	Scanned copy to be uploaded							
12	Solar Power System for Blinkers	Nos.	15	Online at							
13	300 mm LED Aspect RED/AMBER for Blinker Signals	Nos.	104	www.tendersodisha.gov.in							
14	Standard MS Pole with foundation	Nos.	82	(Not to be submitted in							
15	Cantilever Pole with foundation	Nos.	107	Physical form)							
16	Standard MS Pole for Blinker Signals with foundation	Nos.	104								
17	Adaptive LED Light Strips	Nos.	105								
18	Any other item required as per bidder design	Lot									
Sub Total of E											
F. Traffic Violation Detection System											

#	Items	Unit of Measurement	Quantity Proposed (exclusive of spares and consumables)	Unit Price (including Supply, Installation and Commissioning) without GST		Total Price (including Supply, Installation and Commissioning) without GST	GST		Total CAPEX with GST
				INR	5		%	7	
1	2	3	4	5	6=4x5	7	8	9=6+8	
1	ANPR Camera with IR illuminator	Nos.	201						
2	Overview/RLVD Camera with IR illuminator	Nos.	105						
3	Field Device for e-Challan System	Nos.	15						
4	Mounting structure with fitting earthing and lightning arrestor	Nos.	133						
5	Junction Box	Nos.	191						
6	UPS	Nos.	29						
7	Speed Violation Detection Sensors/ Radars/ Instruments	Nos.	As per requirement						
8	Car Charger and Carry Case	Nos.	15						
9	Any other item required as per bidder design	Lot							
Sub Total of F				Scanned copy to be uploaded					
Other Smart Elements									
G. Environmental system									
1	Environment Sensors	Nos.	5						
2	Pole and mounting	Nos.	As per requirement						
3	UPS	Nos.	5						
4	Ruggedized/Industrial Network Switch	Nos.	5						
5	Any other item required as per bidder design	Lot							
Sub Total of G				Physical form					

#	Items	Unit of Measurement	Quantity Proposed (exclusive of spares and consumables)	Unit Price (including Supply, Installation and Commissioning) without GST	Total Price (including Supply, Installation and Commissioning) without GST	GST		Total CAPEX with GST
						%	GST Amount	
1	2	3	4	5	6=4x5	7	8	9=6+8
H. Smart Wi-Fi								
1	Access Points	Nos.	As per requirement					
2	Ruggedized/Industrial Network Switch	Nos.	As per requirement					
3	Any other item required as per bidder design	Lot						
Sub Total of H								
I. Variable Message Signboard (VaMS)								
1	VaMS system (3m X1.5m)	Nos.	13					
2	UPS	Nos.	13					
3	Pole and mounting	Nos.	13					
4	Ruggedized/Industrial Network Switch	Nos.	13					
5	Any other item required as per bidder design	Lot						
Sub Total of I								
J. Emergency Call Box (ECB)								
1	ECB	Nos.	20					
2	Mounting and structure	Nos.	20					
3	Ruggedized/Industrial Network Switch	Nos.	120					
4	Power and other accessories	Nos.	20					
5	Any other item required as per bidder design	Lot						
Sub Total of J								
K. Public Address system (PAS)								
1	PAS system	Nos.	29					
2	UPS	Nos.	29					

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#	Items	Unit of Measurement	Quantity Proposed (exclusive of spares and consumables)	Unit Price (including Supply, Installation and Commissioning) without GST		Total Price (including Supply, Installation and Commissioning) without GST	GST		Total CAPEX with GST
				INR	5		%	7	
1	2	3	4			INR	6=4x5		
3	Pole and mounting	Nos.	29						
4	Ruggedized/Industrial Network Switch	Nos.	29						
5	Any other item required as per bidder design	Lot							
	Sub Total of K								
L. Smart Classroom									
1	Desktop Computer with OS	Nos.	15						
2	Interactive White Board	Nos.	15						
3	UPS	Nos.	15						
4	Audio System with Microphone	Nos.	15						
5	Ultra Short-Throw Projector	Nos.	15						
6	Fixed Camera	Nos.	15						
7	Antivirus	Nos.	15						
8	Metallic Cabinet/Podium	Nos.	15						
9	Wi-Fi Router	Nos.	15						
10	Any other item required as per bidder design	Lot							
	Sub Total of L								
M. Network Connectivity on Lease									
1	Core Optical cable, Access Router and Switches for last mile connectivity	KM							
2	Managed Aggregate bandwidth at DC	Gbps							
3	Managed Leased Circuit Bandwidth	Mbps							
4	Cat 6 UTP/STP, 10G Cable	Nos.							

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						GST %	GST Amount	
1	2	3	4	5	6=4x5	7	8	9=6+8
5	Copper/ Fiber optic Patch Cords/ Panel	Nos.						
	Sub-Total of M							
N. Software and service customization cost								
1	Manpower cost							
2	Customization cost							
3	Integration cost							
	Sub-Total of N							
	Total Project Value							

10.5 (b) OPEX

#	Items	Year 1	Year 2	Year 3	Year 4	Year 5	Total Price without GST	GST		Total OPEX with GST (INR)
		Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)		GST %	GST Amount (INR)	
A. Integrated Command and Control Center										
1	Video wall (70" in 5*3 configuration)									
2	Video Wall Controller									
3	Video Wall Management Software									
4	Interior, Cabling & Other Fixtures									
5	Keyboard Joystick to control PTZ Cameras									
6	Access Switch									
7	LED TV 55"									
8	Public Address System									
9	Audio Mixer and speaker system									
10	Monitoring Workstation with three monitors									
11	Online UPS (sizing as per proposed solution)									
12	Multifunction Device printing									
13	IP Phones									
14	Multiparty Video Conferencing system with licenses									
15	Network Colour Laser printer									
16	Network B/W Laser Printer (Heavy Duty)									
17	Biometric access control system									
18	Dome cameras for internal surveillance									
19	Fire Alarm System									
20	Rodent Repellent system									
21	Split Air Conditioner (5 star energy efficiency rating)									
22	Site Preparation as per the RFP									

#	Items	Year 1	Year 2	Year 3	Year 4	Year 5	Total Price without GST	GST		Total OPEX with GST (INR)
		Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)		GST %	GST Amount (INR)	
23	Workstation Furniture, Fixtures and Ergonomic Chairs for ICCC									
24	Revolving Chairs for office staff									
25	Office Desk Furniture and Fixtures									
26	Meeting Room Table and Chairs Set (for 10 personnel)									
27	Laptops									
28	Desktops for Support Staff									
29	Setting up and dismantling of Temporary Command and Control Centre									
30	Any other item required as per bidder design									
Sub Total of A										
B. Data Center (DC)										
1	Core Router									
2	Core Switches									
3	Firewall (NGFW)									
4	Firewall (Intranet)									
5	WAF (Web Application Firewall)									
6	42 U Network Rack (Intelligent-Rack)									
7	KVM Switch with Monitor									
8	Server load balancer									
9	Blade Chassis									
10	Server									
11	Continuous Learning Server (including Software)									
12	NAS/SAN/Scalable NAS Storage									
13	Tape Library									
14	IP EPABX with auto call distributor									
15	DDOS									
16	SAN Switch									

#	Items	Year 1	Year 2	Year 3	Year 4	Year 5	Total Price without GST	GST		Total OPEX with GST (INR)
		Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)		GST %	GST Amount (INR)	
17	Access/Edge Switch									
18	IP: Network Video Recorder									
19	Access Control System									
20	Backup Software									
21	Enterprise Management System (including SLA Mngt, Help Desk Mngt, Network Mngt, BMS)									
22	DB License									
23	Server OS License									
24	OS CA License									
25	ATCS application									
26	ANPR Application									
27	TVDS Application									
28	E Challan Application									
29	VaMS Application									
30	Environment Management Application (EMS)									
31	Digital Voice Logger Application									
32	PAS Application									
33	GIS Application Server License									
34	GIS Application desktop License									
35	Video Management Application (VMS)									
36	Virtualization Software License									
37	Wi-Fi Application									
38	Mail & Messaging application									
39	ICCC core application									
40	IOT Platform License									
41	SOA Integration middleware									
42	SMS Gateway with annual 2,00,000 SMSs									
43	Web Server License									

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#	Items	Year 1	Year 2	Year 3	Year 4	Year 5	Total Price without GST	GST		Total OPEX with GST (INR)
		Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)		GST %	GST Amount (INR)	
44	DLP Server + 50 Cal license									
45	Application and Data Encryption									
46	Secure Email Gateway									
47	Anti-virus Software for Application (1-Server + 50-Cal)									
48	ADC (Application Delivery Controller)									
49	AI analytics software (Enterprise License)									
50	SIEM (HA)									
51	AAA									
52	Advanced Persistent Threat (APT)									
53	Web and Content Filtering software									
54	Fire Alarm & Suppression System									
55	Physical security information management (PSIM) Application (may use customized or cots application)									
56	Rodent Repellent System									
57	Indoor Fixed Dome Cameras set									
58	Fire Proof Enclosure for Media Storage									
59	Diesel Generator									
60	Building Management System									
61	Online UPS (sizing as per proposed solution)									
62	Precision Air Conditioning System for the Server Farm Area									

#	Items	Year 1	Year 2	Year 3	Year 4	Year 5	Total Price without GST	GST		Total OPEX with GST (INR)
		Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)		GST %	GST Amount (INR)	
63	Split Air Conditioner for the Auxiliary Area									
64	Site Preparation Cost									
65	Networking Cost (Passive Components)									
66	Helpdesk									
A	IP Phone									
B	Voice Logger									
C	Soft telephone									
D	Desktops									
E	Officer Furniture and Revolving Chair									
67	Identity Access Management System									
68	HSM									
69	HIPS									
70	Website/ Portal (With Portal Server, CMS and all required backend software)									
71	Mobile App (With all required backend software)									
72	ECB Application									
73	Web Security									
74	Any other item required as per bidder design									
	Sub Total of B									
C. Disaster Recovery (DR) Center										
1	DR Cost at 20% active									
	Sub Total of C									
D. Safety and Surveillance										
1	Camera Fixed									
2	Camera PTZ Cameras									
3	IR Illuminator									
4	Mounting Rack (Industrial type)									
5	Gantry and Pole for Camera mounting with Fitting									
6	Ruggedized/Industrial Network Switch									

#	Items	Year 1	Year 2	Year 3	Year 4	Year 5	Total Price without GST	GST		Total OPEX with GST (INR)
		Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)		GST %	GST Amount (INR)	
7	Network CAT6/6E cable									
8	UPS									
9	Power Cable									
10	Junction Box									
11	Any other item required as per bidder design									
Sub Total of D										
E. Adaptive Traffic Signal Control System										
1	ATCS System/Instrument/ Solution									
2	Blinker Units									
3	Pelican Signal unit including vehicular and pedestrian lights, poles, solar panel & battery, push button unit and control system for complete intersection									
4	Camera Based Vehicle Detectors									
5	300 mm RED LEDs									
6	300 mm Amber LEDs									
7	300 mm Green Arrow LEDs									
8	300 mm Pedestrian Green & Red LEDs									
9	Countdown Timers									
10	Field, ruggedized, switch									
11	Solar Power System including Solar module, Solar charger and battery									
12	Solar Power System for Blinkers									
13	300 mm LED Aspect RED/AMBER for Blinker Signals									
14	Standard MS Pole with foundation									
15	Cantilever Pole with foundation									
16	Standard MS Pole for Blinker Signals with foundation									

#	Items	Year 1	Year 2	Year 3	Year 4	Year 5	Total Price without GST	GST		Total OPEX with GST (INR)
		Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)		GST %	GST Amount (INR)	
17	Adaptive LED Light Strips									
18	Any other item required as per bidder design									
Sub Total of E										
F. Traffic Violation Detection System										
1	ANPR Camera with IR illuminator									
2	Overview/RLVD Camera with IR illuminator									
3	Field Device for e-Challan System									
4	Mounting structure with fitting earthing and lightning arrestor									
5	Junction Box									
6	UPS									
7	Speed Violation Detection Sensors/ Radars/ Instruments									
8	Car Charger and Carry Case									
9	Any other item required as per bidder design									
Sub Total of F										
Other Smart Elements										
G. Environmental system										
1	Environment Sensors									
2	Pole and mounting									
3	UPS									
4	Ruggedized/Industrial Network Switch									
5	Any other item required as per bidder design									
Sub Total of G										
H. Smart Wi-Fi										
1	Access Points									
2	Ruggedized/Industrial Network Switch									
3	Any other item required as per bidder design									
Sub Total of H										
I. Variable Message Signboard (VMS)										

#	Items	Year 1	Year 2	Year 3	Year 4	Year 5	Total Price without GST	GST		Total OPEX with GST (INR)
		Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)		GST %	GST Amount (INR)	
1	VaMS system (3m X1.5m)									
2	UPS									
3	Pole and mounting									
4	Ruggedized/Industrial Network Switch									
5	Any other item required as per bidder design									
Sub Total of I										
J. Emergency Call Box (ECB)										
1	ECB									
2	Mounting and structure									
3	Ruggedized/Industrial Network Switch									
4	Power and other accessories									
5	Any other item required as per bidder design									
Sub Total of J										
K. Public Address system (PAS)										
1	PAS system									
2	UPS									
3	Pole and mounting									
4	Ruggedized/Industrial Network Switch									
5	Any other item required as per bidder design									
Sub Total of K										
L. Smart Classroom										
1	Desktop Computer with OS									
2	Interactive White Board									
3	UPS									
4	Audio System with Microphone									
5	Ultra Short-Throw Projector									
6	Fixed Camera									
7	Antivirus									
8	Metallic Cabinet/Podium									
9	Wi-Fi Router									
10	Any other item required as per bidder design									
Sub Total of L										
M. Network Connectivity on Lease										

#	Items	Year 1	Year 2	Year 3	Year 4	Year 5	Total Price without GST	GST		Total OPEX with GST (INR)
		Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)	Cost (INR)		GST %	GST Amount (INR)	
1	Core Optical cable, Access Router and Switches for last mile connectivity									
2	Managed Aggregate bandwidth at DC									
3	Managed Leased Circuit Bandwidth									
4	Cat 6 UTP/STP, 10G Cable									
5	Copper/ Fiber optic Patch Cords/ Panel									
6	Any other item required as per bidder design									
Sub-Total of M										
N. Software and services customization cost										
1	Manpower cost									
2	Customization cost									
3	Integration cost									
Sub-Total of N										
Grand Total										

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10.5 (c) Project Resources

#	Items	Unit of Measurement	CAPEX		OPEX - Year 1		OPEX - Year 2		OPEX - Year 3		OPEX - Year 4		OPEX - Year 5		Total OP EX	Total (CAPE X+OPE X)	
			Quantity Proposed	Total Price (INR)	Unit	Cost (INR)	Unit	Cost (INR)	Unit	Cost (INR)	Unit	Cost (INR)	Unit	Cost (INR)			
O. Training and Overall Project Management																	
Project Resources																	
1	Project Director	Man year cost (man month rate *12)	0.5														
2	Project Manager	Man year cost (man month rate *12)	1			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
3	Solution Architect	Man year cost (man month rate *12)	1			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
4	Network Architect	Man year cost (man month rate *12)	1			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
5	Security Architect	Man year cost (man month rate *12)	1			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
6	Command & Communications/Control Center .	Man year cost (man month rate *12)	1			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5			

#	Items	Unit of Measurement	CAPEX		OPEX - Year 1		OPEX - Year 2		OPEX - Year 3		OPEX - Year 4		OPEX - Year 5		Total OP EX	Total (CAPE X+OPE X)
			Quantity Proposed	Total Price (INR)	Unit	Cost (INR)	Unit	Cost (INR)	Unit	Cost (INR)	Unit	Cost (INR)	Unit	Cost (INR)		
7	ITMS Expert	Man year cost (man month rate *12)	1		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
8	IoT Expert	Man year cost (man month rate *12)	1		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
9	QA Manager	Man year cost (man month rate *12)	1		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
10	Master Trainer	Man year cost (man month rate *12)	1		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
11	ITMS Support Engineer	Man year cost (man month rate *12)												1		
12	Integration Support Engineer	Man year cost (man month rate *12)												1		
13	Helpdesk Operations Support Engineer	Man year cost (man month rate *12)												1		

#	Items	Unit of Measurement	CAPEX		OPEX - Year 1		OPEX - Year 2		OPEX - Year 3		OPEX - Year 4		OPEX - Year 5		Total OP EX	Total (CAPE X+OPE X)
			Quantity Proposed	Total Price (INR)	Unit	Cost (INR)	Unit	Cost (INR)	Unit	Cost (INR)	Unit	Cost (INR)	Unit	Cost (INR)		
14	Facility Management Supervisor	Man year cost (man month rate *12)			1		1		1		1		1			
15	Project Associates	Man year cost (man month rate *12)			1		1		1		1		1			
16	Others (Helpdesk Operator for Technical as well as Call Center)	Man year cost (man month rate *12)			1		1		1		1		1			
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17	Functional Training															
18	Administrative Training															
19	Sr. Management Training															

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#	Items	Unit of Measurement	CAPEX		OPEX - Year 1		OPEX - Year 2		OPEX - Year 3		OPEX - Year 4		OPEX - Year 5		Total (CAPEX+OPEX)
			Quantity Proposed	Total Price (INR)	Unit	Cost (INR)	Unit	Cost (INR)	Unit	Cost (INR)	Unit	Cost (INR)	Unit	Cost (INR)	
20	Project Management/Coordination during implementation														
21	Security and BoQ Audit Charges														
22	Operational Expenses during implementation														
	Year Wise Total (A)														
	GST (%)														
	GST (B)														
	Grand Total (A+B)														

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Note: Bidder must ensure that all the line items are covered as specified in BOM and all required fields in the Commercial bid format are duly filled and calculated appropriately. All amounts to be quoted in Indian Rupees.

Name of Bidder:	
Authorized Signature of Bidder:	

N.B –

- The indicative/estimated quantity provided in the RFP would be used for evaluation purposes; however, payment would be done on actual usage basis.
- The price quoted in the format given above will be used for evaluation purposes and will be treated as total envisaged value of the project.
- Bidder must ensure that all amounts to be quoted in INR.
- Manpower cost is per annum, and at the time of monthly payment – payment will be done as per man month rate which is equal to Manpower rate per annum divided by 12.
- Value coated as total price must contain all the components required for the successful implementation of the project. Nothing extra will be paid by the client beyond the value coated in the above form, until there is change request is approved by Authority.
- For the bandwidth charges (including aggregate bandwidth at DC and Lease Circuit Bandwidth), Lower of the Quoted prices as above or prices as applicable at the time of invoicing shall be considered. Client is entitled to ask for the adequate documentary evidence from the Bidder to support the applicable prices.
- Taxes as applicable at the time of invoicing shall be considered. Any changes (upward or downward) in the taxes/duties shall be accordingly revised at the time of actual payments and paid.