

# VOLUME 3

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## BILL OF QUANTITIES

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**NOTE**

1. Part – I of BOQ contains Quantities for sample stretches and intersections. It is given for guidance of the Tenderer and therefore, rates need not be filled up in this Part.

Part - III contains summary of all stretches and intersections. Tenderer need to fill up rates in this part as well as all other parts (except Part – I).

2. Contingency items are those items which are not expected to be executed and will not be used for evaluation purpose. These items are included in the BOQ for obtaining rates from the Tenderer which may be adopted if these items are used in the work.
3. BOQ contains various items to be supplied by the Tenderer. The rates to quoted by the Tenderers shall be inclusive of the Cost of installation, testing and commissioning and any other associated activities. The quote shall further be deemed inclusive of all such items of supplies/services/taxes, levies & duties which have not been explicitly mentioned herein but are, in the opinion of the Tenderer required for the completion of the project.
4. The BOQ contains some items of Supply only some items of services (execution) and same items are composite items involving supply as well as execution.

If a BOQ item is not explicitly described as supply/services/composite, the same shall be treated as supply or services or composite based on the overall requirement of the project. The corresponding payment conditions shall apply for such item. The engineer's decision in the matter shall be final and binding.

5. In the grand summary of BOQ an item appears as “adjustment item” Tenderer may add here any amount which he feels necessary for the proper implementation of the project. The details of this expenditure shall be given by the tenderer.
6. In the grand summary of BOQ an item appears as “provisional sums”. 5% of the sub-total 2 will be kept as provisional sum. This amount will be used to cater for the variation in quantities appearing in the final system design.

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## **PART 1 Outstations**

**(Sample Stretch No. 10: Upper Ridge Road)**

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
		<b>Speed Violation Cameras</b>						
10	10,300	<b>Speed Violation Cameras</b> (mounted at poles), design, manufacturing, delivery, installation, adjustment, connection, operation set up, including all related components, small parts and works, as specified in Volume 2, Section K and all other relevant Sections	3	E1	nos	1		
		Subtotal Speed Violation Cameras (mounted at poles)						
10	10,301	<b>Speed Violation Camera Enclosures</b> (mounted at poles), design, manufacturing, delivery, installation, including cabling and all related components, small parts and works, as specified in Volume 2, Section K and all other relevant Sections	3	E1	nos	1		
		Subtotal Speed Violation Camera Enclosures (mounted at poles)						
10	10,302	<b>Radar Speed Meter for Speed Violation Cameras</b> (mounted at poles), design, manufacturing, delivery including enclosure, installation, adjustment, connection, operation set up, including cabling and all related components, small parts and works, as specified in Volume 2, Section K and all other relevant Sections	3	E1	nos	1		
		Subtotal Radar Speed Meter for Speed Violation Cameras (mounted at poles)						
10	10,310	<b>Poles for Speed Violation Cameras and Radar Speed Meters</b> , design, structural analysis, manufacturing, delivery, foundation, installation (speed violation cameras approx. 3m above the ground, radar speed meters approx. 1,5m above the ground), including all related components, small parts and works, as specified in Volume 2, Section K, J, L and all other relevant Sections Pole, length above ground 3m	3	E1	nos	1		
10	10,311	Pole, length above ground 4m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXXXXX
		Subtotal Poles for Speed Violation Cameras						

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**BOQ / Part I**

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
10	10,320	<b>Speed Violation Camera Controllers</b> , design, manufacturing, delivery including controller cabinet, foundation, installation, last mile connectivity, connection, operation set up, including cabling and all related components, small parts and works, as specified in Volume 2, Section K and all other relevant Sections	3	E1	nos	1		
		Subtotal Speed Violation Camera Controllers						
		<b>Subtotal Speed Violation Cameras - Pos. No: 10.300 - 10.320</b>						
		<b>Signal Control (at Intersection 10_1)</b>						
10_1	10_1.330	<b>ATC ELV Intersection Controller</b> , design, manufacturing, delivery including outstation transmission unit and controller cabinet, foundation, installation, last mile connectivity, connection, operation set up, including all related components, small parts and works, as specified in Volume 2, Section J and all other relevant Sections	-	-	nos	1		
		Subtotal ATC ELV Intersection Controller						

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
		<b>ELV LED Signal Heads</b> , design, manufacturing, delivery including enclosure, masks and all other accessories, installation, connection, including cabling, related components, small parts and all works, as specified in Volume 2, Section J and all other relevant Sections						
10_1	10_1.340	Signal Head with 1 Signal Aspect	-	-	nos	0		
10_1	10_1.341	Signal Head with 2 Signal Aspects	-	-	nos	0		
10_1	10_1.342	Signal Head with 3 Signal Aspects	-	-	nos	1		
10_1	10_1.343	Signal Head with 4 Signal Aspects	-	-	nos	7		
10_1	10_1.344	Signal Head with 5 Signal Aspects	-	-	nos	0		
10_1	10_1.345	Signal Head with 6 Signal Aspects	-	-	nos	0		
		Subtotal ELV LED Signal Heads						
		<b>Loop Detectors</b> , design, delivery including enclosure, installation, connection, including all related components, small parts and works, as specified in Volume 2, Section F, J and all other relevant Sections						
10_1	10_1.350	ATC Loop Detectors	-	-	nos	6		
10_1	10_1.351	Incident Loop Detectors (approx. 250 m before stop line)	-	-	nos	3		
		Subtotal Loop Detectors						

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**BOQ / Part I**

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
10_1	10_1.360	<b>Poles and Cantilevers</b> , design, structural analysis, manufacturing, delivery, foundation, installation, including all related components, small parts and works, as specified in Volume 2, Section J and all other relevant Sections Pole, length above ground 5m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXX
10_1	10_1.361	Pole, length above ground 6m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXX
10_1	10_1.362	Pole with cantilever, overhang 2m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXX
10_1	10_1.363	Pole with cantilever, overhang 4m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXX
10_1	10_1.364	Pole with cantilever, overhang 6m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXX
10_1	10_1.365	Pole with cantilever, overhang 8m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXX
		Subtotal Poles and Cantilevers						
10_1	10_1.370	<b>Cabling</b> , design of cabling, manufacturing, delivery of cables including splices, installation, connection, including all related components, small parts and works, as specified in Volume 2, Section J and all other relevant Sections	-	-	lump sum	-		
		Subtotal Cabling						
10_1	10_1.380	<b>Removal</b> of existing equipment, which is not needed any longer, according to Section J. 9 and all other relevant Sections	-	-	lump sum	-		
		Subtotal Removal						
		<b>Subtotal Signal Control (at Intersections) - Pos. No: 10_1.330 - 10_1.380</b>						

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
		<b>CCTV-Cameras (at Intersections)</b>						
10_1	10_1.390	<b>CCTV-Cameras (PTZ)</b> , design, manufacturing, delivery including enclosure, installation, adjustment, operation set up, including cabling, all related components, small parts and works, as specified in Volume 2, Section G and all other relevant Sections	-	C5	nos	1		
		Subtotal CCTV-Cameras (PTZ)						
10_1	10_1.400	<b>CCTV-Cameras (fixed, without pan function)</b> , design, manufacturing, delivery including enclosure, installation, adjustment, operation set up including, including cabling, all related components, small parts and works, as specified in Volume 2, Section G and all other relevant Sections	-	F1, F2, F3, F4	nos	4		
		Subtotal CCTV-Cameras (fixed, without pan function)						
10_1	10_1.441	<b>CCTV-Camera Controllers without Controller Cabinet</b> , design, manufacturing, delivery, installation in intersection controller cabinet, last mile connectivity, connection, operation set up, including cabling, all related components, small parts and works, as specified in Volume 2, Section G and all other relevant Sections	-	F1, F2, F3, F4, C5	nos	5		
		Subtotal CCTV-Camera Controllers without Controller Cabinet						
		<b>Subtotal CCTV-Cameras (at Intersections) - Pos. No: 10_1.390 - 10_1.441</b>						

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
		<u>Public Address System</u>						
10_1	10_1.101	Public address system unit with built in power connection unit with IP output port as per E.3.13.1 (vol.2) including housing (for driving upto 6 speakers of 30 W rating)			nos.	1		
10_1	10_1.102	Loud speakers with mounting accessories/ cabling			nos.	4		
		<b>Subtotal Public Address System at Intersections - Pos. No: 10_1.101 - 10_1.102</b>						
		<u>IP Communication devices at Intersections</u>						
10_1	10_1.111	IP Switch as per the section M.5		Each Connection	1			
10_1	10_1.112	Ethernet Encryptor as per section T		Each Connection	1			
10_1	10_1.113	Biometric Access Devices as per section T		Each Connection	1			
		<b>Subtotal IP Communication devices at Intersections - Pos. No: 10_1.111 - 10_1.113</b>						
		<b>Subtotal Signalled Intersection 10_1</b>						

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**BOQ / Part I**

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
		<b>Signal Control (at Intersection 10_2)</b>						
10_2	10_2.330	<b>ATC ELV Intersection Controller</b> , design, manufacturing, delivery including outstation transmission unit and controller cabinet, foundation, installation, last mile connectivity, connection, operation set up, including all related components, small parts and works, as specified in Volume 2, Section J and all other relevant Sections	-	-	nos	1		
		Subtotal ATC ELV Intersection Controller						
		<b>ELV LED Signal Heads</b> , design, manufacturing, delivery including enclosure, masks and all other accessories, installation, connection, including cabling, related components, small parts and all works, as specified in Volume 2, Section J and all other relevant Sections						
10_2	10_2.340	Signal Head with 1 Signal Aspect	-	-	nos	0		
10_2	10_2.341	Signal Head with 2 Signal Aspects	-	-	nos	0		
10_2	10_2.342	Signal Head with 3 Signal Aspects	-	-	nos	4		
10_2	10_2.343	Signal Head with 4 Signal Aspects	-	-	nos	2		
10_2	10_2.344	Signal Head with 5 Signal Aspects	-	-	nos	0		
10_2	10_2.345	Signal Head with 6 Signal Aspects	-	-	nos	0		
		Subtotal ELV LED Signal Heads						
		<b>Loop Detectors</b> , design, delivery including enclosure, installation, connection, including all related components, small parts and works, as specified in Volume 2, Section F, J and all other relevant Sections						
10_2	10_2.350	ATC Loop Detectors	-	-	nos	6		
10_2	10_2.351	Incident Loop Detectors (approx. 250 m before stop line)	-	-	nos	0		
		Subtotal Loop Detectors						

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**BOQ / Part I**

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
10_2	10_2.360	<b>Poles and Cantilevers</b> , design, structural analysis, manufacturing, delivery, foundation, installation, including all related components, small parts and works, as specified in Volume 2, Section J and all other relevant Sections Pole, length above ground 5m (contingency item)	-	-	nos	1		xxxxxxxxxxxxxxxxxxxxxxxx
10_2	10_2.361	Pole, length above ground 6m (contingency item)	-	-	nos	1		xxxxxxxxxxxxxxxxxxxxxxxx
10_2	10_2.362	Pole with cantilever, overhang 2m (contingency item)	-	-	nos	1		xxxxxxxxxxxxxxxxxxxxxxxx
10_2	10_2.363	Pole with cantilever, overhang 4m (contingency item)	-	-	nos	1		xxxxxxxxxxxxxxxxxxxxxxxx
10_2	10_2.364	Pole with cantilever, overhang 6m (contingency item)	-	-	nos	1		xxxxxxxxxxxxxxxxxxxxxxxx
10_2	10_2.365	Pole with cantilever, overhang 8m (contingency item)	-	-	nos	1		xxxxxxxxxxxxxxxxxxxxxxxx
		Subtotal Poles and Cantilevers						
10_2	10_2.370	<b>Cabling</b> , design of cabling, manufacturing, delivery of cables including splices, installation, connection, including all related components, small parts and works, as specified in Volume 2, Section J and all other relevant Sections	-	-	lump sum	-		
		Subtotal Cabling						
10_2	10_2.380	<b>Removal</b> of existing equipment, which is not needed any longer, according to Section J. 9 and all other relevant Sections	-	-	lump sum	-		
		Subtotal Removal						
		<b>Subtotal Signal Control (at Intersections) - Pos. No: 10_2.330 - 10_2.380</b>						

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
		<b>Red Light Violation Cameras (at Intersections)</b>						
10_2	10_2.530	<b>Integration of existing Red Light Violation Cameras</b> , integration works, last mile connectivity, connection, operation set up, including cabling, all related components, small parts and works, as specified in Volume 2, Section K and all other relevant Sections	-	-	lump sum	-		
		Subtotal Integration of existing Red Light Violation Cameras						
		<b>Subtotal Red Light Violation Cameras (at Intersections) - Pos. No: 10_2.530</b>						
10_2	10_2.390	<b>CCTV-Cameras (PTZ)</b> , design, manufacturing, delivery including enclosure, installation, adjustment, operation set up, including cabling, all related components, small parts and works, as specified in Volume 2, Section G and all other relevant Sections	-	C5	nos	1		
		Subtotal CCTV-Cameras (PTZ)						
10_2	10_2.400	<b>CCTV-Cameras (fixed, without pan function)</b> , design, manufacturing, delivery including enclosure, installation, adjustment, operation set up including, including cabling, all related components, small parts and works, as specified in Volume 2, Section G and all other relevant Sections	-	F1, F2, F3, F4	nos	4		
		Subtotal CCTV-Cameras (fixed, without pan function)						
10_2	10_2.441	<b>CCTV-Camera Controllers without Controller Cabinet</b> , design, manufacturing, delivery, installation in intersection controller cabinet, last mile connectivity, connection, operation set up, including cabling, all related components, small parts and works, as specified in Volume 2, Section G and all other relevant Sections	-	F1, F2, F3, F4, C5	nos	5		
		Subtotal CCTV-Camera Controllers without Controller Cabinet						
		<b>Subtotal CCTV-Cameras (at Intersections) - Pos. No: 10_2.390 - 10_2.441</b>						

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**BOQ / Part I**

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
		<u>Public Address System</u>						
10_2	10_2.101	Public address system unit with built in power connection unit with IP output port as per E.3.13.1 (vol.2) including housing (for driving upto 6 speakers of 30 W rating)			nos.	1		
10_2	10_2.102	Loud speakers with mounting accessories/ cabling			nos.	4		
		<b>Subtotal Public Address System at Intersections - Pos. No: 10_1.101 - 10_1.102</b>						
		<u>IP Communication devices at Intersections</u>						
10_2	10_2.111	IP Switch as per the section M.5		Each Connection	1			
10_2	10_2.112	Ethernet Encryptor as per section T		Each Connection	1			
10_2	10_2.113	Biometric Access Devices as per section T		Each Connection	1			
		<b>Subtotal IP Communication devices at Intersections - Pos. No: 10_2.111 - 10_2.113</b>						
		<b>Subtotal Signalled Intersection 10_2</b>						

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
		<b>Signal Control (at Intersection 10_3)</b>						
10_3	10_3.330	<b>ATC ELV Intersection Controller</b> , design, manufacturing, delivery including outstation transmission unit and controller cabinet, foundation, installation, last mile connectivity, connection, operation set up, including all related components, small parts and works, as specified in Volume 2, Section J and all other relevant Sections	-	-	nos	1		
		Subtotal ATC ELV Intersection Controller						
		<b>ELV LED Signal Heads</b> , design, manufacturing, delivery including enclosure, masks and all other accessories, installation, connection, including cabling, related components, small parts and all works, as specified in Volume 2, Section J and all other relevant Sections						
10_3	10_3.340	Signal Head with 1 Signal Aspect	-	-	nos	0		
10_3	10_3.341	Signal Head with 2 Signal Aspects	-	-	nos	0		
10_3	10_3.342	Signal Head with 3 Signal Aspects	-	-	nos	13		
10_3	10_3.343	Signal Head with 4 Signal Aspects	-	-	nos	0		
10_3	10_3.344	Signal Head with 5 Signal Aspects	-	-	nos	0		
10_3	10_3.345	Signal Head with 6 Signal Aspects	-	-	nos	0		
		Subtotal ELV LED Signal Heads						
		<b>Loop Detectors</b> , design, delivery including enclosure, installation, connection, including all related components, small parts and works, as specified in Volume 2, Section F, J and all other relevant Sections						
10_3	10_3.350	ATC Loop Detectors	-	-	nos	10		
10_3	10_3.351	Incident Loop Detectors (approx. 250 m before stop line)	-	-	nos	3		
		Subtotal Loop Detectors						

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
10_3	10_3.360	<b>Poles and Cantilevers</b> , design, structural analysis, manufacturing, delivery, foundation, installation, including all related components, small parts and works, as specified in Volume 2, Section J and all other relevant Sections Pole, length above ground 5m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXX
10_3	10_3.361	Pole, length above ground 6m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXX
10_3	10_3.362	Pole with cantilever, overhang 2m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXX
10_3	10_3.363	Pole with cantilever, overhang 4m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXX
10_3	10_3.364	Pole with cantilever, overhang 6m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXX
10_3	10_3.365	Pole with cantilever, overhang 8m (contingency item)	-	-	nos	1		XXXXXXXXXXXXXXXXXXXX
		Subtotal Poles and Cantilevers						
10_3	10_3.370	<b>Cabling</b> , design of cabling, manufacturing, delivery of cables including splices, installation, connection, including all related components, small parts and works, as specified in Volume 2, Section J and all other relevant Sections	-	-	lump sum	-		
		Subtotal Cabling						
10_3	10_3.380	<b>Removal</b> of existing equipment, which is not needed any longer, according to Section J. 9 and all other relevant Sections	-	-	lump sum	-		
		Subtotal Removal						
		<b>Subtotal Signal Control (at Intersections) - Pos. No: 10_3.330 - 10_3.380</b>						
		<b>CCTV-Cameras (at Intersections)</b>						
10_3	10_3.390	<b>CCTV-Cameras (PTZ)</b> , design, manufacturing, delivery including enclosure, installation, adjustment, operation set up, including cabling, all related components, small parts and works, as specified in Volume 2, Section G and all other relevant Sections	-	C5	nos	1		
		Subtotal CCTV-Cameras (PTZ)						

**ITS-Delhi Police**

**BOQ / Part I**

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
10_3	10_3.400	<b>CCTV-Cameras (fixed, without pan function)</b> , design, manufacturing, delivery including enclosure, installation, adjustment, operation set up including, including cabling, all related components, small parts and works, as specified in Volume 2, Section G and all other relevant Sections	-	F1,F2,F3,F4	nos	4		
		Subtotal CCTV-Cameras (fixed, without pan function)						
10_3	10_3.441	<b>CCTV-Camera Controllers without Controller Cabinet</b> , design, manufacturing, delivery, installation in intersection controller cabinet, last mile connectivity, connection, operation set up, including cabling, all related components, small parts and works, as specified in Volume 2, Section G and all other relevant Sections	-	F1,F2, F3,F4, C5	nos	5		
		Subtotal CCTV-Camera Controllers without Controller Cabinet						
		<b>Subtotal CCTV-Cameras (at Intersections) - Pos. No: 10_3.390 - 10_3.441</b>						
		<u>Public</u> <u>Address</u> <u>System</u>						
10_3	10_3.101	Public address system unit with built in power connection unit with IP output port as per E.3.13.1 (vol.2) including housing (for driving upto 6 speakers of 30 W rating)			nos.	1		
10_3	10_3.102	Loud speakers with mounting accessories/ cabling			nos.	4		
		<b>Subtotal Public Address System at Intersections - Pos. No: 10_3.101 - 10_3.102</b>						

Stretch No / Intersection No	Pos. No	Item Description	Sheet No	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
		<u>IP Communication devices at Intersections</u>						
10_3	10_3.111	IP Switch as per the section M.5		Each Connection	1			
10_3	10_3.112	Ethernet Encryptor as per section T		Each Connection	1			
10_3	10_3.113	Biometric Access Devices as per section T		Each Connection	1			
		<b>Subtotal IP Communication devices at Intersections - Pos. No: 10_3.101 - 10_3.103</b>						
		<b>Subtotal Signalled Intersection 10_3</b>						
		<b>Subtotal Stretch 10 without Intersections</b>						
		<b>Subtotal Intersections</b>						
		<b>Subtotal Stretch 10</b>						

## **PART 2    General Items and Instations**

ITS - Delhi Police					BOQ / Part II	
Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]	
A	<b>General Items, Preparatory and Auxiliary Works and Services</b> (as specified in Volumes 1 and 2)					
A.1	<del>Deleted</del>					
A. 2	<del>Deleted</del>					
A. 3	<del>Deleted</del>					
A. 4 to A.11	<del>Deleted</del>					

**ITS - Delhi Police****BOQ / Part II**

Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
<b>A. 12</b>	<b>Warranty and Maintenance</b> (as specified in Volume 2, Section Q)				
A. 12.1	All costs, expenses for warranty including associated maintenance (3 years)	lump sum	-		
A. 12.2	Maintenance, as described for all items of the system (a separate list shall be submitted, providing monthly maintenance costs of all items as instations, outstations, networks, peripheral components, etc. (7 years)	year	7		
	Subtotal A. 12				

ITS - Delhi Police					BOQ / Part II	
Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]	
A. 13	<u>Deleted</u>					
A. 14	<u>Deleted</u>					

**ITS - Delhi Police**
**BOQ / Part II**

Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
<b>B</b>	<b>Traffic Management Center (TMCC)</b> as specified in Volume 2				
<b>B. 1</b>	<b>Hardware</b>				
B. 1.10	<b>Firewall</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	2	-		
B 1.11	Central Switch as per section M.5	2			
B 1.12	Element Management software along with necessary hardware as defined in section E.1.2	1			
B 1.13	Biometric Access Node as defined in section T	4			
B 1.14	Biometric Management server software along with necessary hardware as defined in section E.1.2	2			
B 1.15	Ethernet Decryptor as defined in section T	2			
B 1.16	Ethernet Encryptor, Decryptor element Management software	1			
B. 1.20	<b>Communication Server for ATC, Incident, CCTV, ANPR, VMS/SCS</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum			
B. 1.30	<b>Communication Server for Communication between Instations at different locations</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		

Tender for "Supply, Installation, Commissioning and Maintenance of Intelligent Traffic System For the City of Delhi"

**ITS - Delhi Police****BOQ / Part II**

Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
B. 1.40	<b>Stand-By Server for Communication</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.5. Design, manufacturing, delivery, installation, supply, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
B. 1.50	<b>Application Server for ATC, Incident, CCTV, ANPR, VMS/SCS TMCC Tasks, WEB services</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.4. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
B. 1.60	<b>Database Server</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
B. 1.70	<b>Backup Unit</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
B. 1.80	<b>Print Server</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all all interfaces, installation devices, small parts and works, as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
B. 1.90	<b>Operator Workstation inside of Control Room</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.10. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections and required furniture	nos	22		

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
B. 1.100	<b>Video Wall</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.8. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including base frame, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
B. 1.110	<b>Video Wall Controller</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.8. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
B. 1.120	<b>A3 Colour Laser Printer for usage inside of Control Room</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.12. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	nos	5		
B. 1.130	<b>Interfaces to Delhi Police Key Applications</b> as specified in Volume 2, Section E. 3.6.13 Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
B. 1.140	<b>Maintenace Workstations</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.6 Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections and required furniture	nos	4		
B. 1.150	<b>A3 Colour Laser Printer for usage outside of Control Room</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.6 Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	nos	4		

Tender for "Supply, Installation, Commissioning and Maintenance of Intelligent Traffic System For the City of Delhi"

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
B. 1.160	<b>Electronic Cabinet for Servers, Controllers and Interfaces</b> Cabinets for housing of hubs, terminal blocks, lightning arrestors, etc. in 19" technology, according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.8 and M.5 in the quantities as needed Design, manufacturing, delivery, installation, connection, including all installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, L, M and all other relevant Sections	lump sum	-		
B. 1.170	<b>Electronic Cabinets for Alignment of Cables</b> Cabinets for housing of hubs, terminal blocks, lightning arrestors, etc. in 19" technology, according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.8 and M. 5 in the quantities as needed Design, manufacturing, delivery, installation, connection, including all installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, L, M and all other relevant Sections	lump sum	-		
B. 1.180	<b>Central Clock</b> Design, delivery and installation of a central clock as specified in Volume 2, Section E. 3.6.9 including antenna, cabling, installation devices, small parts and works.	nos	1		
B. 1.190	<b>Remote Maintenance</b> Delivery and installation of a DSL high speed modem for remote maintenance as specified in Volume 2, section E. 3.6.9, including insatallation devices, small parts and works	nos	1		

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
B. 1.200	<b>Inhouse Cable Network</b> Design, delivery and installation of the inhouse cable network as specified in Volume 2, Section M. 5, including cable, connectors, patch cords, terminations, splices, patch panels as far as not already included in Pos. B. 1.170.				
B. 1.200.1	<b>Copper and/or Fibre Optic Cable</b> (and fibre optic cable for connection of database server)	lump sum	-		
B. 1.200.2	<del>Deleted</del>				
B. 1.210	<b>Power Cable</b> Design, delivery and installation of the inhouse power cable network as specified in Volume 2, Section E. 3.7 and M. 5, including cable, connectors, patch cords, terminations, splices, patch panels as far as not already included in Pos. B. 1.170.	lump sum	-		
B. 1.220	<b>Laptop</b> Delivery of laptops for remote access to instation network by modem and for for supply and test of ITS outstation components, as described in Volume 2, Section E. 3.6.11 and all other relevant Sections. Laptop including modem, completely supplied, ready for operation	nos	4		
B. 1.230	<b>Additional Hardware - deemed included above</b> Additional Hardware, if not included in Pos. B. 1.10 to B. 1.220, but necessary to fulfill all required functionalities within th TMCC as described in Volume 2, Section E and all other relevant Sections. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections (separate list of additional hardware required with breakdown of costs).				

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
B. 1.240	<b>LCD Display</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.14. Design, manufacturing, delivery, installation, connection, supply, operation set-up, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	nos.	7		
B. 1.250	<b>LCD Display Controller</b>				
B. 1.251	<b>LCD Display Controller in Confrence hall</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.14. Design, manufacturing, delivery, installation, connection, supply, operation set-up, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	nos.	1		
B. 1.252	<b>LCD Display Controller in other locations</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.14. Design, manufacturing, delivery, installation, connection, supply, operation set-up, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	nos.	2		
	Subtotal B. 1				

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
<b>B. 2</b>	<b>Software</b>				
B. 2.10	<b>System Software</b> System software for operating of complete hardware in TMCC Design, delivery, implementation, parameterization, test, operation set-up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		
B. 2.20	<b>System Software</b> System software for operating of TMCC and DRC in hot stand by Design, delivery, implementation, parameterization, test, operation set-up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		
B. 2.30	<b>Communication Software</b> Communication software for complete communication process - between Instations in TMCC - between instations of TMCC, DRC, enforcement back office and PHQ - between instations and outstations Design, delivery, implementation, parameterization, test, operation set-up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		
B. 2.40	<b>Application Software</b> Application software for complete functionality of TMCC according to Volume 2, Section E, H , I, J and all other relvant Sections Design, delivery, implementation, parameterization, fully supplied, test, operation set-up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
B. 2.50	<b>Project Software</b> Project Software for ATC, VMS / SCS, Response Plans Design, parameterization, delivery, implementation, fully supplied, test, operation set-up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		
B. 2.60	<b>Additional Software - Deemed included above</b> Software, if not included in Pos. B. 2.10 to B. 2.50, but necessary for proper operation with full functionality Design, parameterization, delivery, implementation, fully supplied, test, operation set-up, adjustment (separate list of software required with breakdown of costs)				
B.2.70	<b>Furniture for Training Hall as mention in the enclosed drawing of TMCC</b>	Lump sum	-		
	Subtotal B. 2				

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
<b>C</b>	<b><u>Disaster Recovery Center (DRC)</u></b> as specified in Volume 2				
<b>C. 1</b>	<b>Hardware</b>				
C. 1.10	Firewall Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
C. 1.11	Central Switch as per section M.5	2			
C. 1.12	Element Management software along with necessary hardware as defined in section E.1.2	1			
C. 1.13	Biometric Access Node as defined in section T	2			
C. 1.14	Biometric Management server software along with necessary hardware as defined in section E.1.2	2			
C. 1.15	Ethernet Decryptor as defined in section T	2			
C. 1.16	Ethernet Encryptor, Decryptor element Management software	1			
C. 1.20	<b>Communication Server for ATC, Incident, CCTV, ANPR, VMS/SCS</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
C. 1.30	<b>Communication Server for Communication between Instations at different locations</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.5. Design, manufacturing, delivery, installation, connection, supply, operation set up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
C. 1.40	<b>Stand-By Server for Communication</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.5. Design, manufacturing, delivery, installation, supply, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
C. 1.50	<b>Application Server for ATC, Incident, CCTV, ANPR, VMS/SCS DRC Tasks, WEB services</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.4 Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
C. 1.60	<b>Database Server</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
C. 1.70	<b>Backup Unit</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
C. 1.80	<b>Print Server</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all all interfaces, installation devices, small parts and works, as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
C. 1.90	<b>Operator Workstation inside of Control Room</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.10. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections and required furniture	nos	7		

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
C. 1.120	<b>A3 Colour Laser Printer for usage inside of Control Room</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.12 Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	nos	2		
C. 1.130	<b>Interfaces to Delhi Police Key Applications.</b> as specified in Volume 2, Section E. 3.6.13 as far as not already included in Pos. B. 1. 130 Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
C. 1.140	<b>Maintenace Workstations.</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.6 Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	nos	3		
C. 1.150	<b>A3 Colour Laser Printer for usage outside of Control Room</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.6 Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	nos	3		

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
C. 1.160	<b>Electronic Cabinets for Servers, Controllers and Interfaces</b> Cabinets for housing of hubs, terminal blocks, lightning arrestors, etc. in 19" technology, according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.8 and M.5 in the quantities as needed Design, manufacturing, delivery, installation, connection, including all installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, L, M and all other relevant Sections	lump sum	-		
C. 1.170	<b>Electronic Cabinet for Alignment of Cables</b> Cabinets for housing of hubs, terminal blocks, lightning arrestors, etc. in 19" technology, according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.8 and M. 5 in the quantities as needed Design, manufacturing, delivery, installation, connection, including all installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, L, M and all other relevant Sections	lump sum	-		
C. 1.180	<b>Central Clock</b> Design, delivery and installation of a central clock as specified in Volume 2, Section E. 3.6.9 including antenna, cabling, installation devices, small parts and works.	nos	1		
C. 1.190	<b>Remote Maintenance</b> Delivery and installation of a DSL modem for remote maintenance as specified in Volume 2, section E. 3.6.9, including insatallation devices, small parts and works	nos	1		

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
C. 1.200	<b>Inhouse Cable Network</b> Design, delivery and installation of the inhouse cable network as specified in Volume 2, Section M. 5, including cable, connectors, patch cords, terminations, splices, patch panels as far as not already included in Pos. C. 1.170.				
C. 1.200.1	<b>Copper and/or Fibre Optic Cable</b> (and fibre optic cable for connection of database server)	lump sum	-		
C. 1.200.2	<b>Deleted</b>				
C. 1.210	<b>Power Cable</b> Design, delivery and installation of the inhouse power cable network as specified in Volume 2, E. 3.7 and Section M. 5, including cable, connectors, patch cords, terminations, splices, patch panels as far as not already included in Pos. C. 1.170.	lump sum	-		
C. 1.230	<b>Additional Hardware - Deemed included above</b> Additional Hardware, if not included in Pos. C. 1.10 to C. 1.210, but necessary to fulfill all required functionalities within the TMCC as described in Volume 2, Section E and all other relevant Sections. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections (separate list of additional hardware required with breakdown of costs).				

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
C. 1.240	<b>LCD Display</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.14. Design, manufacturing, delivery, installation, connection, supply, operation set-up, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	nos.	2		
C. 1.252	<b>LCD Display Controller</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.14. Design, manufacturing, delivery, installation, connection, supply, operation set-up, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	nos.	1		
	Subtotal C. 1				

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
<b>C. 2</b>	<b>Software</b>				
C. 2.10	<b>System Software</b> System software for operating of complete hardware in DRC Design, delivery, implementation, parameterization, test, operation set-up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		
C. 2.20	<b>System Software</b> System software for operating of TMCC and DRC in hot stand by as far as not included in Pos. B. 2.20 Design, delivery, implementation, parameterization, test, operation set up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		
C. 2.30	<b>Communication Software</b> Communication software for complete communication process - between Instations in TMCC - between instations of TMCC, DRC and DPHQ - between instations and outstations as far as not included in Pos. B. 2.30 Design, delivery, implementation, parameterization, test, operation set up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
C. 2.40	<p><b>Application Software</b>                      Application software for complete functionality of DRC according to Volume 2, Section E, H , I, J and all other relvant Sections as far as not included in Pos. B. 2.40                      Design, delivery, implementation, parametrization, fully supplied, test, operation set-up, adjustment (separate list of software required with breakdown of costs)</p>	lump sum	-		
C. 2.50	<p><b>Project Software</b>                      Project Software for ATC, VMS / SCS, Response Plans                      Design, parameterization, delivery, implementation, fully supplied, test, operation set-up, adjustment (separate list of software required with breakdown of costs)</p>	lump sum	-		
C. 2.60	<p><b>Additional Software - Deemed included above</b>                      Software, if not included in Pos. C. 2.10 to C. 2.40, but necessary for proper operation with full functionality                      Design, parametrization, delivery, implementation, fully supplied, tested, ready for operation, adjustment (separate list of software required with breakdown of costs)</p>				
	Subtotal C. 2				

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
<b>D</b>	<b>Delhi Police Head Quarter (PHQ)</b> as specified in Volume 2				
<b>D. 1</b>	<b>Hardware</b>				
D. 1.10	<b>Firewall</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum			
D 1.11	Central Switch as per section M.5	2			
D 1.12	Ethernet Decryptor as defined in section T	2			
D 1.13	Biometric Access Node as defined in section T	2			
D. 1.170	<b>Electronic Cabinet for Alignment of Cables</b> Cabinets for housing of hubs, terminal blocks, lightning arrestors, etc. in 19" technology, according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.8 and M. 5 in the quantities as needed. Design, manufacturing, delivery, installation, connection, including all installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, L, M and all other relevant Sections	lump sum	-		

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
D. 1.200	<b>Inhouse Cable Network</b> Design, delivery and installation of the inhouse cable network as specified in Volume 2, Section M. 5, including cable, connectors, patch cords, terminations, splices, patch panels as far as not already included in Pos. D. 1.170				
D. 1.200.1	<b>Copper and/or Fibre Optic Cable</b> (and fibre optic cable for connection of database server)	lump sum	-		
D. 1.200.2	<b>Deleted</b>				
D. 1.210	<b>Power Cable</b> Design, delivery and installation of the inhouse power cable network as specified in Volume 2, Section E. 3.7 and M. 5, including cable, connectors, patch cords, terminations, splices, patch panels as far as not already included in Pos. D. 1.170.	lump sum	-		
D. 1.230	<b>Additional Hardware - Deemed included above</b> Additional Hardware, if not included in Pos. D. 1.10 to D. 1.210, but necessary to fulfill all required functionalities within the TMCC as described in Volume 2, Section E and all other relevant Sections. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections (separate list of additional hardware required with breakdown of costs).				
	Subtotal D. 1				

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
<b>D. 2</b>	<b>Software</b>				
D. 2.10	<b>System Software</b> System software for operating of complete hardware in DPHQ Design, delivery, implementation, parameterization, test, operation set-up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		
D. 2.30	<b>Communication Software</b> Communication software for complete communication process - between Instations in TMCC - between instations of TMCC, DRC, enforcement back office and PHQ - between instations and outstations as far as not included in Pos. B. 2.30 Design, delivery, implementation, parameterization, test, operation set-up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		
D. 2.40	<b>Application Software</b> Application software for complete functionality of operator workstations in TMCC, according to Volume 2, Section E, H, I, J and all other relevant Sections, as far as not included in Pos. B. 2.40 Design, delivery, implementation, parameterization, fully supplied, test, operation set-up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		
D. 2.60	<b>Additional Software - Deemed included above</b> Software, if not included in Pos. D. 2.10 to D. 2.40, but necessary for proper operation with full functionality Design, parameterization, delivery, implementation, fully supplied, test, operation set-up, adjustment (separate list of software required with breakdown of costs)				
	Subtotal D. 2				

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
<b>E</b>	<b>Enforcement Backup Office in Malviya Nagar</b> as specified in Volume 2				
<b>E. 1</b>	<b>Hardware</b>				
E. 1.10	<b>Firewall</b> Numbers and configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	lump sum	-		
E 1.11	Central Switch as per section M.5	2			
E 1.13	Biometric Access Node as defined in section T	2			
E 1.14	Ethernet Decryptor as defined in section T	2			
E. 1.170	<b>Electronic Cabinet for Alignment of Cables</b> Cabinets for housing of hubs, terminal blocks, lightning arrestors, etc. in 19" technology, according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.8 and M. 5 in the quantities as needed Design, manufacturing, delivery, installation, connection, including all installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, L, M and all other relevant Sections	lump sum	-		
E. 1.90	<b>Operator Workstation</b> Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E.3.6.10. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections	nos	15		

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Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
E. 1.200	<b>Inhouse Cable Network</b> Design, delivery and installation of the inhouse cable network as specified in Volume 2, Section M. 5, including cable, connectors, patch cords, terminations, splices, patch panels as far as not already included in Pos. E. 1.170.				
E. 1.200.1	<b>Copper and/or Fibre Optic Cable</b> (and fibre optic cable for connection of database server)	lump sum	-		
E. 1.200.2	<b>Deleted</b>				
E. 1.210	<b>Power Cables</b> Design, delivery and installation of the inhouse power cable network as specified in Volume 2, Section E. 3.7 and M. 5, including cable, connectors, patch cords, terminations, splices, patch panels as far as not already included in Pos. B. 180	lump sum	-		
E. 1.230	<b>Additional Hardware - Deemed included above</b> Additional Hardware, if not included in Pos. E. 1.10 to E. 1.210, but necessary to fulfill all required functionalities within the TMCC as described in Volume 2, Section E and all other relevant Sections. Design, manufacturing, delivery, installation, connection, supply, operation set-up, including all interfaces, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections (separate list of additional hardware required with breakdown of costs).				

**ITS - Delhi Police**

**BOQ / Part II**

Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
E. 1.240	<p><b>LCD Display</b>                      Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.14.                      Design, manufacturing, delivery, installation, connection, supply, operation set-up, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections</p>	nos.	3		
E. 1.251	<p><b>LCD Display Controller</b>                      Configuration according to the contractors design under consideration of minimum requirements as specified in Volume 2, Section E. 3.6.14.                      Design, manufacturing, delivery, installation, connection, supply, operation set-up, installation devices, small parts and works as specified in Volume 2, Section E, H, I, J, M and all other relevant Sections</p>	nos.	1		
	Subtotal E. 1				

**ITS - Delhi Police**

**BOQ / Part II**

Pos. No.	Item Description	Unit	Quantity	Rate [INR]	Amount [INR]
<b>E. 2</b>	<b>Software</b>				
E. 2.10	<b>System Software</b> System software for Integration operating of complete hardware in DRC Design, delivery, implementation, parameterization, test, operation set-up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		
E. 2.30	<b>Communication Software</b> Communication software for complete communication process - between Instations in TMCC - between instations of TMCC, DRC and DPHQ - between instations and outstations as far as not included in Pos. B. 2.30 Design, delivery, implementation, parameterization, test, operation set-up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		
E. 2.45	<b>Software Interface</b> Software interface for processing ANPR images from TMCC in the law enforcement back office according Volume 2, Section K.6 and E. Design, delivery, implementation, parametrization, fully supplied, test, operation set-up, adjustment (separate list of software required with breakdown of costs)	lump sum	-		
E. 2.60	<b>Additional Software - Deemed included above</b> Software, if not included in Pos. E. 2.10 to E. 2.45, but necessary for proper operation with full functionality Design, parametrization, delivery, implementation, fully supplied, test, operation set-up, adjustment (separate list of software required with breakdown of costs)				
	Subtotal E. 2				

## **PART 3 Summary of Outstations**



ITS - Delhi Police					BOQ / Part III		
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]	
<b>A. 1.2</b>	<b>Variable Message Signs Type B, Bilingual (English/ Hindi alternate Display)</b>						
A. 1.2.1	Prototype VMS, Type B (contingency item)	Part I.040	nos	0			
A. 1.2.2	VMS, Type B	Part I.050	nos	13			
A. 1.2.3	Poles and Cantilevers for VMS Type B						
A. 1.2.3.1	Pole (contingency item)	Part I.060	nos	0			
A. 1.2.3.2	Pole with cantilever, overhang 6m (contingency item)	Part I.061	nos	0			
A. 1.2.3.3	Pole with cantilever, overhang 9m	Part I.062	nos	13			
A. 1.2.4	Controller for VMS, Type B, english	Part I.070	nos	13			
	Subtotal A. 1.2						

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
A. 1.3	Deleted					
A. 1.4	Deleted					
	Subtotal A. 1					

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
A. 2	<u>Speed Control signals (SCS) and Dynamic Traffic Signs (DTS)</u>					
A. 2.1	Prototype SCS / DTS (contingency item)	Part I.130	nos	0		
A. 2.2	SCS	Part I.140	nos	24		
A. 2.3	DTS	Part I.150	nos	18		
A. 2.4	Sign Bridges for SCS and DTS					
A. 2.4.1	Sign bridges for 3 lane road (contingency item)	Part I.160	nos	0		
A. 2.4.2	Sign bridges for 4 lane road	Part I.161	nos	6		
A. 2.5	Controller for SCS and DTS	Part I.170	nos	6		
	Subtotal A. 2					

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
<b>A. 3</b>	<b><u>Microwave Radar Detectors</u></b>					
A. 3.1	Microwave Radar Detectors	Part I.180	nos	1540		
A. 3.2	Poles					
A. 3.2.1	Pole, length above ground 5m (contingency item)	Part I.190	nos	0		
A. 3.2.2	Pole, length above ground 6m	Part I.191	nos	7		
A. 3.2.3	Pole, length above ground 7m	Part I.192	nos	60		
A. 3.3	Protective ducts					
A. 3.3.1	HDPE Duct, length 6m	Part I.200	nos	36		
A. 3.3.2	HDPE Duct, length 7m (contingency item)	Part I.201	nos	0		
A. 3.3.3	HDPE Duct, length 8m	Part I.202	nos	312		
A. 3.3.4	HDPE Duct (contingency item)	Part I.203	m	0		
A. 3.4	Control unit					
A. 3.4.1	Control unit with controller cabinet	Part I.210	nos	403		
A. 3.4.2	Control unit without controller cabinet	Part I.211	nos	25		
	Subtotal A .3					

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
<b>A. 4</b>	<b><u>CCTV-Cameras</u></b>					
<b>A. 4.1</b>	<b>CCTV Cameras on Unsignallized Intersections, Flyovers and Stretches</b>					
A. 4.1.1	CCTV-Camera (PTZ) for monitoring and surveillance	Part I.220	nos	91		
A. 4.1.2	CCTV-Camera (fixed, without pan function) with Video Analytics for Speed and Lane Violation	Part I.230	nos	47		
A. 4.1.3	CCTV-Camera (fixed, without pan and tilt function), (contingency item)	Part I.240	nos	0		
A. 4.1.4	Poles					
A. 4.1.4.1	Pole, length above ground 5m (contingency item)	Part I.250	nos	0		
A. 4.1.4.2	Pole, length above ground 6m	Part I.251	nos	6		
A. 4.1.4.3	Pole, length above ground 7m	Part I.252	nos	15		
A. 4.1.4.4	Pole, length above ground 8m	Part I.253	nos	3		
A. 4.1.4.5	Pole, length above ground 9m (contingency item)	Part I.254	nos	0		
A. 4.1.4.6	Pole, length above ground 10m	Part I.255	nos	13		
A. 4.1.4.7	Prolongation for signal pole, length 1.50m	Part I.256	nos	1		

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
A. 4.1.5	Protective ducts					
A. 4.1.5.1	HDPE Duct, length 6m	Part I.260	nos	14		
A. 4.1.5.2	HDPE Duct, length 7m (contingency item)	Part I.261	nos	0		
A. 4.1.5.3	HDPE Duct, length 8m	Part I.262	nos	42		
A. 4.1.5.4	HDPE Duct, length 9m	Part I.263	nos	16		
A. 4.1.5.5	HDPE Duct, length 10m	Part I.264	nos	4		
A. 4.1.5.6	HDPE Duct, length 11m	Part I.265	nos	12		
A. 4.1.5.7	HDPE Duct (contingency item)	Part I.266	m	0		
A. 4.1.6	Control Unit	Part I.270	nos	134		
A. 4.1.6.1	Control Unit with controller cabinet	Part I.270	nos	130		
A. 4.1.6.2	Control Unit without controller cabinet	Part I.271	nos	4		
A. 4.1.7	Integration of existing CCTV Cameras	Part I.280	nos	4		
	Subtotal A. 4.1					

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
<b>A. 4.2</b>	<b>CCTV Cameras at Intersections</b>					
A. 4.2.1	CCTV-Camera (PTZ)	Part I.390	nos	233		
A. 4.2.2	CCTV-Camera (fixed, without pan function)	Part I.400	nos	932		
A. 4.2.3	CCTV-Camera (fixed, without pan and tilt function), (contingency item)	Part I.410	nos	0		
A. 4.2.4	Poles					
A. 4.2.4.1	Pole, length above ground 5m	Part I.420	nos	12		
A. 4.2.4.2	Pole, length above ground 6m	Part I.421	nos	7		
A. 4.2.4.3	Pole, length above ground 7m	Part I.422	nos	6		
A. 4.2.4.4	Pole, length above ground 8m (contingency item)	Part I.423	nos	0		
A. 4.2.4.5	Pole, length above ground 9m (contingency item)	Part I.424	nos	0		
A. 4.2.4.6	Pole, length above ground 10m (contingency item)	Part I.425	nos	0		
A. 4.2.4.7	Prolongation for signal pole, length 1.50m	Part I.426	nos	22		

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
A. 4.2.5	Protective ducts					
A. 4.2.5.1	HDPE Duct, length 6m	Part I.430	nos	35		
A. 4.2.5.2	HDPE Duct, length 7m	Part I.431	nos	8		
A. 4.2.5.3	HDPE Duct, length 8m	Part I.432	nos	21		
A. 4.2.5.4	HDPE Duct, length 9m	Part I.433	nos	4		
A. 4.2.5.5	HDPE Duct, length 10m	Part I.434	nos	2		
A. 4.2.5.6	HDPE Duct, length 11m	Part I.435	nos	15		
A. 4.2.5.7	HDPE Duct	Part I.436	m	720		
A. 4.2.6	Control Unit					
A. 4.2.6.1	Control Unit with controller cabinet (contingency item)	Part I.440	nos	0		
A. 4.2.6.2	Control Unit without controller cabinet	Part I.441	nos	1165		
A. 4.2.7	Integration of existing CCTV Cameras	Part I.450	nos	31		
	Subtotal A. 4.2					
	Subtotal A. 4					



ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
<b>A. 6</b>	<b><u>Red</u>                      <u>Light</u>                      <u>Violation</u>                      <u>Cameras</u></b>					
A. 6.1	Red light violation cameras ( <b>Including A.6.6</b> )	Part I.460	nos	31		
A. 6.2	Enclosures for red light enforcement cameras	Part I.470	nos	84		
A. 6.3	Poles for red light enforcement cameras					
A. 6.3.1	Pole, length above ground 3m	Part I.480	nos	84		
A. 6.3.2	Pole, length above ground 4m (contingency item)	Part I.481	nos	0		
A. 6.4	Protective ducts					
A. 6.4.1	HDPE Duct, length 4 (contingency item)	Part I.490	nos	0		
A. 6.4.2	HDPE Duct, length 5 (contingency item)	Part I.491	nos	0		
A. 6.4.3	HDPE Duct (contingency item)	Part I.492	m	0		
A. 6.5	Double loop detectors	Part I.500	nos	200		
A. 6.6	Red light violation camera controllers	Part I.510	nos	31		
A. 6.7	Cabling per intersection	Part I.520	nos	31		
A. 6.8	Deleted					
	Subtotal A. 6					

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
<b>A. 7</b>	<b><u>Signal Control (at Intersections)</u></b>					
A. 7.1	ATC ELV Intersection controller	Part I. 330	nos	233		
A. 7.2	ELV LED Signal Heads					
A. 7.2.1	Signal head with 1 signal aspect	Part I. 340	nos	89		
A. 7.2.2	Signal head with 2 signal aspect	Part I. 341	nos	327		
A. 7.2.3	Signal head with 3 signal aspect	Part I. 342	nos	788		
A. 7.2.4	Signal head with 4 signal aspect	Part I. 343	nos	1232		
A. 7.2.5	Signal head with 5 signal aspect	Part I. 344	nos	36		
A. 7.2.6	Signal head with 6 signal aspect	Part I. 345	nos	6		
A. 7.3	Loop detectors					
A. 7.3.1	ATC loop detectors	Part I. 350	nos	1754		
A. 7.3.2	Incident loop detectors (approx. 250 m before stop line)	Part I. 351	nos	978		

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
A. 7.4	Poles and Cantilevers					
A. 7.4.1	Pole, length above ground 5m (contingency item)	Part I. 360	nos	0		
A. 7.4.2	Pole, length above ground 6m (contingency item)	Part I. 361	nos	0		
A. 7.4.3	Pole with cantilever, overhang 2m (contingency item)	Part I. 362	nos	0		
A. 7.4.4	Pole with cantilever, overhang 4m (contingency item)	Part I. 363	nos	0		
A. 7.4.5	Pole with cantilever, overhang 6m (contingency item)	Part I. 364	nos	0		
A. 7.4.6	Pole with cantilever, overhang 8m (contingency item)	Part I. 365	nos	0		
A. 7.5	Cabling per intersection	Part I. 370	nos	233		
A. 7.6	Removal per intersection	Part I. 380	nos	233		
	Subtotal A. 7					

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
A.8	<b>Public Address System</b>					
A.8.1	Public address system unit with built in power connection unit with IP output port as per E.3.13.1 (vol.2) including housing (for driving upto 6 speakers of 30 W rating)		nos.	233		
A.8.2	Loud speakers with mounting accessories/ cabling		nos.	932		
A.8.3	Interface at TMCC switches to enable functions as per E.3.13.1 (vol. 2) including mounting accessories /cabling in dual redundant configuration.		nos.	2		
	Subtotal A.8					

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
A.9	<del>Parking Management &amp; Guidance System</del>					
A.9.1	Interface of parking lot to TMCC as per section S vol. 2		Each Lot	74		
	Subtotal A. 9					

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
A.10	<u>Arrangement of main Power Supply Connection at all Desired Locations through Discoms for ITS (This amount is in addition to the actual cost paid to Discoms + 20%)</u>					
A.10.1	Design, Delivery and installation of the Power Connections from DISCOMS for ITS as section C.3 vol. 2		Each Connection	25		
	Subtotal A. 10					
A.11	<u>IP Communication devices at Intersections</u>					
A.11.1	IP Switch as per the section M.5		Each Connection	360		
A.11.2	Ethernet Encryptor as per section T		Each Connection	360		
A.11.3	Biometric Access Devices as per section T		Each Connection	360		
	Subtotal A. 11					
A.12	<u>IP Communication Network at DCP-traffic locations</u>					
A.12.1	Central Switch as per the section M.5		Each Connection	16		
A.12.2	Firewall devices as per section M.5		Each Connection	16		
A.12.2	Ethernet Encryptor as per section T		Each Connection	16		
A.12.3	Biometric Access Devices as per section T		Each Connection	32		
	Subtotal A. 12					

ITS - Delhi Police					BOQ / Part III	
Pos. No.	Item Description	Ref.	Unit	Quantity	Rate [INR]	Amount [INR]
B.	<del>Deleted</del>					

## **PART 4 Grand Summary**

## GRAND SUMMARY

DESCRIPTION		TOTAL AMOUNT INR
Part II	<b>A.</b>	<b>General Items, Preparatory and Auxiliary Works and Services</b>
	A. 1	Deleted
	A. 2	Deleted
	A. 3	Deleted
	A. 4 to A.11	Deleted
	A. 12	Warranty and Maintenance
	<b>B.</b>	<b>Traffic Management Center (TMCC)</b>
	B. 1	Hardware
	B. 2	Software
	<b>C.</b>	<b>Disaster Recovery Center (DRC)</b>
	C. 1	Hardware
	C. 2	Software
	<b>D.</b>	<b>Delhi Police Headquarter (PHQ)</b>
	D. 1	Hardware
	D. 2	Software
	<b>E.</b>	<b>Enforcement Back office (At Malviya Nagar)</b>
	E. 1	Hardware
	E. 2	Software

## GRAND SUMMARY

DESCRIPTION		TOTAL AMOUNT INR
Part III	<b>A.</b>	<b>Outstations on Green Corridors</b>
	A. 1	Variable Message Signs
	A. 2	Speed Control Signals (SCS) and Dynamic Traffic Signs (DTS)
	A. 3	Microwave Radar Detectors
	A. 4	CCTV Cameras
	A. 5	Speed Violation Cameras
	A. 6	Red Light Violation Cameras
	A. 7	Signal Control at Intersections
	A. 8	Public Address System
	A. 9	Parking management & Guidance System
	A. 10	Arrangement of Main Power Supply
	A. 11	IP Communication devices at Intersections
	A. 12	IP Communication Network at DCP-traffic locations
<b>B.</b>	<b>Deleted</b>	
Adjustment Items:		
Subtotal 1		
Add/Deduct ..... %		
Subtotal 2		
Provisional Sums @ 5 % of Gross Total		
Subtotal 3		
Taxes .....		
<b>TOTAL AMOUNT OF BILL OF QUANTITIES</b>		
<b>Amount in Words:</b>		

Tender for "Supply, Installation, Commissioning and Maintenance of  
Intelligent Traffic System  
For the City of Delhi"