

## Annexure -A

Total BOQ				Allowed System Uptime	Critical /Non Critical	Pkg 1 Main TP 18 Lanes			Interchage Pkg1 (4 Toll Plaza 12 Lanes)			Interchage Pkg2 (6 Toll Plaza 17 Lanes)			Interchage Pkg3 (6 Toll Plaza 18 Lanes)			Interchage Pkg4-1 (8 Toll Plaza 20 Lanes)			Interchage Pkg4-2 (2 Toll Plaza 6 Lanes)			Interchage Pkg5 (4 Toll Plaza 12 Lanes)			Main TP Pkg6-1 (Main TP 18 lanes)			Interchage Pkg6-2 (2 Toll Plaza 8 Lanes)			Total		
Sr . No.	Item/Description	Unit	Quantity			No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2
I - Lane Level Equipment - Hybrid ETC Lanes						No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2	No. of Lanes	Phase1	Phase2
1	RFID ETC transceiver near Pay-axis - mounted on pole/canopy	No	1 per lane	99%	Critical	18	2	16	12	4	8	17	6	11	18	6	12	20	8	12	6	2	4	12	4	8	18	2	16	8	2	6	129	36	93
2	Lane Controller with Industrial PC	No	1 per lane	99%	Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
3	AVC including sensors	Set	1 per lane	99%	Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
4	Automatic Barrier Gate	No	1 per lane	99%	Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
5	Traffic light with mounting pole	Set	1 per lane	98%	Non Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
6	Loops with detector	Set	2 per lane	99%	Critical	36	36	0	24	24	0	34	34	0	36	36	0	40	40	0	12	12	0	24	24	0	36	36	0	16	16	0	258	258	0
7	License Plate Image Capture Camera with mounting poles	Set	1 per lane	99%	Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
8	Incident Capture Camera	Set	1 per lane	99%	Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
9	TFT Monitor	No	1 per lane	99%	Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
10	Customized industrial grade keyboard	No	1 per lane	99%	Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
11	Thermal Receipt Printer	No	1 per lane	99%	Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0

1 2	Barcode Reader with stand	No	1 per lane	99%	Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
1 3	Booth CCTV camera	No	1 per lane	99%	Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
1 4	UPS for each lane system (1 KVA)	No	1 per lane	99%	Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
1 5	Network Switch unmanaged (8 Port)	No	1 per lane	99%	Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
1 6	User fare Display	No	1 per lane		Non Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
1 7	Fog Light	No	1 per lane		Non Critical	18	18	0	12	12	0	17	17	0	18	18	0	20	20	0	6	6	0	12	12	0	18	18	0	8	8	0	129	129	0
<b>II - Plaza Level Equipment</b>				<b>Allowed System Uptime</b>	<b>Critical /Non Critical</b>	<b>No. of Toll Plas</b>			<b>No. of Toll Plas</b>			<b>No. of Toll Plas</b>			<b>No. of Toll Plas</b>			<b>No. of Toll Plas</b>			<b>No. of Toll Plas</b>			<b>No. of Toll Plas</b>			<b>No. of Toll Plas</b>			<b>No. of Toll Plas</b>			<b>Total no. of Toll Plas</b>		
						<b>1</b>	<b>Phase1</b>	<b>Phase2</b>	<b>4</b>	<b>Phase1</b>	<b>Phase2</b>	<b>6</b>	<b>Phase1</b>	<b>Phase2</b>	<b>6</b>	<b>Phase1</b>	<b>Phase2</b>	<b>8</b>	<b>Phase1</b>	<b>Phase2</b>	<b>2</b>	<b>Phase1</b>	<b>Phase2</b>	<b>4</b>	<b>Phase1</b>	<b>Phase2</b>	<b>1</b>	<b>Phase1</b>	<b>Phase2</b>	<b>2</b>	<b>Phase1</b>	<b>Phase2</b>	<b>34</b>	<b>Phase1</b>	<b>Phase2</b>
1	Plaza Server	No	1 per plaza	99%	Critical	1	1	0	4	4	0	6	6	0	6	6	0	8	8	0	2	2	0	4	4	0	1	1	0	2	2	0	34	34	0
2	Workstations alongwith Monitor, Keyboard & Mouse	No	4 per Main Toll Plaza		Non Critical	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0	8	8	0	
3	Workstations alongwith Monitor, Keyboard & Mouse	No	2 per Interchange plaza		Non Critical	0	0	0	8	8	0	12	12	0	12	12	0	16	16	0	4	4	0	8	8	0	0	0	0	4	4	0	64	64	0
4	Network Printer	No	1 per Main Toll Plaza		Non Critical	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	2	0	
5	Normal Laser Printer	No	1 per Interchange plaza		Non Critical	0	0	0	4	4	0	6	6	0	6	6	0	8	8	0	2	2	0	4	4	0	0	0	0	2	2	0	32	32	0
7	Broadband Internet connection with minimum 2 Mbps link	Facility	1 per plaza	99%	Critical	1	1	0	4	4	0	6	6	0	6	6	0	8	8	0	2	2	0	4	4	0	1	1	0	2	2	0	34	34	0
8	UPS system for plaza equipments (6 KVA)	No	1 per Main Toll Plaza	99%	Critical	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	2	0



