

ADDENDUM & CORRIGENDUM -2

Dated: 04 .08.2020

Request for proposal (RFP) for Selection of Master ETC Service Provider at National Highways Fee Plazas

RFP Reference No.: IHMCL/Master ESP/2020/01 published on dated 25.06.2020

Sl. No.	Section	Original Clause	Updated Clause
1.	Clause 3.2.2	Additional clause Lead member & Member of Consortium	<ul style="list-style-type: none">i. If awarded, each member of the Consortium shall be responsible for its respective role/expertise during project execution, and it would be deem to have acknowledged that it was selected on the basis of the technical/financial capacity considered during the bidding phase. IHMCL may debar/blacklist all the members of the Consortium or any member of the Consortium if any of the members fail to carry out any obligation under the Contract.ii. The lead member should be liable for the entire scope of work and risks involved thereof (the liability should be for the entire value of the contract).iii. The lead member shall be sole interaction point for IHMCL, and shall be represent the Consortium in all project-related meeting, correspondences, etc.iv. The non-lead member should be liable for the scope of work for which they are responsible along with the lead bidder; while the lead member still carries the liability for the entire scope of work.v. Any change in the consortium member at a later date shall not be allowed.
2.	Annexure – 13, page no. 182	Latest L1 Rates of BoQ line items	Revised Latest L1 Rates of BOQ line items. as per format provided in Appendix-1 of this Corrigendum-2.

Sl. No.	Section	Original Clause	Updated Clause
3.	Clause 5.18.6 (b) - Compensation for Breach	Compensation for default by IHMCL (Termination Payments)	Please refer to Appendix – 2 of this Corrigendum - 2
4.	Clause 5.18.17 – Limitation of Liability	The Successful Bidder's liability under this Contract shall be determined as per Applicable law. The Successful Bidder shall be liable to IHMCL for loss or damage occurred or caused or likely to occur on account of any act of omission on the part of the Successful Bidder its affiliates, subsidiaries, stockholders, subcontractors, suppliers, directors, officers, employees, assigns and agents, including loss caused to IHMCL on account of defect in goods or deficiency in services on the part of Successful Bidder or his agents or any person / persons claiming through or under said Successful Bidder.	<p>5.18.17.1 The Successful Bidder's liability under this Contract shall be determined as per Applicable law. The Successful Bidder shall be liable to IHMCL for loss or damage occurred or caused or likely to occur on account of any act of omission on the part of the Successful Bidder its affiliates, subsidiaries, stockholders, subcontractors, suppliers, directors, officers, employees, assigns and agents, including loss caused to IHMCL on account of defect in goods or deficiency in services on the part of Successful Bidder or his agents or any person / persons claiming through or under said Successful Bidder.</p> <p>5.18.17.2 Limitation of Liability (additional clause)</p> <p>Notwithstanding anything stated herein above, the liability for Master ETC Service Provider shall NOT exceed ten times the value of Performance Bank Guarantee amount of the number of Zone(s) awarded.</p> <p>5.18.17.3 This limitation of liability shall not affect Master ETC Service Provider's liability, if any, for damage to Third Parties caused by Master ETC Service Provider or any person or company acting on behalf of Master ETC Service Provider in carrying out the Services.</p>

Sl. No.	Section	Original Clause	Updated Clause
			5.18.17.4 The liability cap given under Clause 5.18.17 shall not be applicable to the indemnification obligations set out in Clause 5.13.
5.	Clause 6.4.1; sub clause d) Operation & Maintenance of ETC system, & Corrigendum 1 released.	Additional information	<p>A general overview ETC Equipment Status of fee plazas (Zone-wise) is provided in Appendix – 3 of this Corrigendum-2.</p> <p>The equipment status details provide are indicative & solely for information purpose ONLY. The bidders are strongly recommended to check and carry out due diligence at their end regarding the veracity of the provided data. The Bidder may wish to visit and examine the site or sites and obtain for itself, at its own responsibility and risk, all information that may be necessary for preparing the bid and entering into the Contract. IHMCL shall not be held responsible for any estimation & calculation carried out the bidder.</p>
6.	Clause 7.2.6. a) Description and Functions – Automatic Barriers, Sl no. (ii), page no. 86	Automatic Barrier Gate <p>ii. The housing and any mounting frame shall be fabricated from corrosion-resistant materials. They shall be IP 55 rated. The barrier shall be driven electrically. The motor shall not be damaged when the barrier is blocked in any position. Exit barriers shall have presence detectors independent to the AVC system to prevent barrier arms coming down on vehicles while passing. This shall be in the form of infrared units and dedicated embedded loops. Apart from the barrier arm, the mechanism may not have any moving protrusions that pose a risk to persons standing in close proximity to the barrier.</p>	Automatic Barrier Gate <p>ii. The housing and any mounting frame shall be fabricated from corrosion-resistant materials. They shall be IP 55 54 rated. The barrier shall be driven electrically. The motor shall not be damaged when the barrier is blocked in any position. Exit barriers shall have presence detectors independent to the AVC system to prevent barrier arms coming down on vehicles while passing. This shall be in the form of infrared units and dedicated embedded loops. Apart from the barrier arm, the mechanism may not have any moving protrusions that pose a risk to persons standing in close proximity to the barrier.</p>

Sl. No.	Section	Original Clause	Updated Clause
7.	Clause 7.3.1, Functional Requirement, page no. 130	<p>f) Vehicle processing</p> <ul style="list-style-type: none"> The System should check if the vehicle can be processed via electronic transactions. If the vehicle can be processed electronically, then Error! Reference source not found. related rules should be followed. For vehicle that do not have active electronic payment modes, Error! Reference source not found. related rules should be followed. 	<p>f) Vehicle processing</p> <ul style="list-style-type: none"> The System should check if the vehicle can be processed via electronic transactions. If the vehicle can be processed electronically, then Electronic/RFID Tags processing related rules should be followed. For vehicle that do not have active electronic payment modes, Fare Calculations and Cash Operations related rules should be followed.
8.	Clause 5.6.3, page no. 38	5.6.3. Within 60 days of receiving invoice from the Master ESP, IHMCL shall release payment to the Master ESP after deduction of penalty/damage, if any.	<p>5.6.3.</p> <ol style="list-style-type: none"> Within 60 days of receiving invoice from the Master ESP, IHMCL shall release payment to the Master ESP after deduction of penalty/damage, if any. Subject to Clause 5.6.3 (iv), within ten (10) working days of receiving invoice from the Master ESP, IHMCL would release the payment to the Master ESP, as follows: <ul style="list-style-type: none"> 75% of the invoiced amount for all ETC transaction counts (for a Zone) which are settled and cleared in CCH system of NETC programme, as per report provided by CCH Provider. The balance invoiced amount shall be released subject to the verification of the invoice and applicable deductions including SLA/penalty/damage, if any.

Sl. No.	Section	Original Clause	Updated Clause												
			<div>iii. In line with clause 5.6.3. (ii) above, IHMCL shall also endeavor to devise an electronic fund transfer system to enable the payment to Master ESP automatically.</div> <div>iv. Notwithstanding anything contained in the Contract Agreement, IHMCL shall only be liable to make any payment to the Master ESP, provided it has received sufficient funds in advance from NHAI.</div>												
9.	NA	New clause	<div>Compliance to be ensured w.r.t. Office Memorandum of Department of Expenditure, dated 23 July 2020, and any related clarifications, subsequent guidelines issued by Department of Expenditure, as applicable, regarding insertion of Rile 144 (xi) in the General Financial Rules (GFRs), 2017.</div> <div>A copy of the OM is enclosed with this Corrigendum.</div> <div>Bidder may visit website of Department of Expenditure (https://doe.gov.in/) for more details on the said Office Memorandum.</div>												
10.	Key Dates	<table><tr><th>Event Description</th><th>Date</th></tr><tr><td>Bid Due Date</td><td>17 August 2020 (Up to 15:00 Hrs IST)</td></tr><tr><td>Opening of Technical Bids</td><td>18 August 2020 (16:00 Hrs IST)</td></tr></table>	Event Description	Date	Bid Due Date	17 August 2020 (Up to 15:00 Hrs IST)	Opening of Technical Bids	18 August 2020 (16:00 Hrs IST)	<table><tr><th>Event Description</th><th>Date</th></tr><tr><td>Bid Due Date</td><td>31 August 2020 (Up to 15:00 Hrs IST)</td></tr><tr><td>Opening of Technical Bids</td><td>1 September 2020 (16:00 Hrs IST)</td></tr></table>	Event Description	Date	Bid Due Date	31 August 2020 (Up to 15:00 Hrs IST)	Opening of Technical Bids	1 September 2020 (16:00 Hrs IST)
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Appendix – 1 - Revised Latest L 1 Rates of BoQ line items

A. For 6-lane fee plazas

Sl. no	Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
A	Integral Components (Lane level & Plaza Level)				
1	RFID ETC transceiver near Pay-axis - mounted on canopy (1 per lane)	No	6	77,800.00	4,66,800.00
2	Electronics Enclosure - (1 per lane)	No	6	6,670.00	40,020.00
3	Lane Controller with Industrial PC - (1 per lane)	No	6	91,895.00	5,51,370.00
4	AVC including sensors, loop and detector - (1 per lane)	Set	6	1,50,000.00	9,00,000.00
5	User Fare Display with mounting pole - (1 per lane)	Set	6	14,300.00	85,800.00
6	Automatic Barrier Gate - (1 per lane)	No	6	78,000.00	4,68,000.00
7	Overhead Lane Status light (OHLS) - (1 per lane)	No	6	8,250.00	49,500.00
8	Traffic light with mounting pole - (1 per lane)	Set	6	8,250.00	49,500.00
9	Loops with detector - (2 per lane)	Set	12	4,050.00	48,600.00
10	Incident Capture Camera with mounting pole - (1 per lane)	Set	6	6,400.00	38,400.00
11	License Plate Image Capture Camera with mounting poles - (1 per lane)	Set	6	6,400.00	38,400.00
12	Customized industrial grade keyboard - (1 per lane)	No	6	6,630.00	39,780.00
13	Cabling/Networking/Installation/Commissioning (Lump sum)	LS	1	1,33,000.00	1,33,000.00
14	Software – Lane Level - (1 per lane)	No	6	15,000.00	90,000.00
15	Plaza Servers in hot-standby configuration	No	1	5,65,000.00	5,65,000.00
16	Workstations for MIS, Cashup, Audit & LSDU (Lane status display unit in control room)	No	4	42,500.00	1,70,000.00
17	24 Port Network switch (Layer 3)	No	2	70,000.00	1,40,000.00
18	Outdoor wifi Access Point	No	1	9,250.00	9,250.00
19	Software – Plaza level	Job	1	55,000.00	55,000.00
20	Broadband/Dedicated Internet Lease Line (01 Static IP) with minimum 04 Mbps link for CCH connectivity	Facility	2	80,000.00	1,60,000.00
21	UPS system as required for complete Hybrid ETC Toll Plaza system	No	2	2,05,000.00	4,10,000.00
22	Servo stablizer (60 KVA - 03 phase)	No	1	1,05,000.00	1,05,000.00
23	Network Video Recorder (NVR) for CCTV recording with adequate storage	No	1	62,000.00	62,000.00
B	Other components (Lane level & Plaza Level)				
24	TFT Monitor - (1 per lane)	No	6	5,350.00	32,100.00
25	Thermal Receipt Printer - (1 per lane)	No	6	12,500.00	75,000.00
26	RFID Handheld Readers	No	4	68,000.00	2,72,000.00
27	Violation light & Alarm (on existing pole) and Foot switch in booth - (1 per lane)	No	6	2,400.00	14,400.00
28	Booth CCTV camera with voice recording - (1 per lane)	No	6	7,950.00	47,700.00
29	Intercom Slave unit in booth - (1 per lane)	No	6	3,750.00	22,500.00
30	Lane Level UPS - (1 per lane)	No	6	16,000.00	96,000.00
31	Intercom Master unit - (1 per plaza)	No	1	44,000.00	44,000.00
32	Firewall Hardware	No	1	42,000.00	42,000.00

Sl. no	Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
33	CCTV cameras for Plaza building surveillance (server room, control room, cash room, admin)	No	4	5,250.00	21,000.00
			Total CAPEX Price		53,42,120.00

B. For 8-lane fee plazas

Sl. no	Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
A	Integral Components (Lane level & Plaza Level)				
1	RFID ETC transceiver near Pay-axis - mounted on canopy (1 per lane)	No	8	77,800.00	6,22,400.00
2	Electronics Enclosure - (1 per lane)	No	8	6,670.00	53,360.00
3	Lane Controller with Industrial PC - (1 per lane)	No	8	91,895.00	7,35,160.00
4	AVC including sensors, loop and detector - (1 per lane)	Set	8	1,50,000.00	12,00,000.00
5	User Fare Display with mounting pole - (1 per lane)	Set	8	14,300.00	1,14,400.00
6	Automatic Barrier Gate - (1 per lane)	No	8	78,000.00	6,24,000.00
7	Overhead Lane Status light (OHLs) - (1 per lane)	No	8	8,250.00	66,000.00
8	Traffic light with mounting pole - (1 per lane)	Set	8	8,250.00	66,000.00
9	Loops with detector - (2 per lane)	Set	16	4,050.00	64,800.00
10	Incident Capture Camera with mounting pole - (1 per lane)	Set	8	6,400.00	51,200.00
11	License Plate Image Capture Camera with mounting poles - (1 per lane)	Set	8	6,400.00	51,200.00
12	Customized industrial grade keyboard - (1 per lane)	No	8	6,630.00	53,040.00
13	Cabling/Networking/Installation/Commissioning (Lump sum)	LS	1	2,83,000.00	2,83,000.00
14	Software – Lane Level - (1 per lane)	No	8	15,000.00	1,20,000.00
15	Plaza Servers in hot-standby configuration	No	1	5,65,000.00	5,65,000.00
16	Workstations for MIS, Cashup, Audit & LSDU (Lane status display unit in control room)	No	4	42,500.00	1,70,000.00
17	24 Port Network switch (Layer 3)	No	2	70,000.00	1,40,000.00
18	Outdoor wifi Access Point	No	1	9,250.00	9,250.00
19	Software – Plaza level	Job	1	75,000.00	75,000.00
20	Broadband/Dedicated Internet Lease Line (01 Static IP) with minimum 04 Mbps link for CCH connectivity	Facility	2	80,000.00	1,60,000.00
21	UPS system as required for complete Hybrid ETC Toll Plaza system	No	2	2,05,000.00	4,10,000.00
22	Servo stablizer (60 KVA - 03 phase)	No	1	1,05,000.00	1,05,000.00
23	Network Video Recorder (NVR) for CCTV recording with adequate storage	No	1	62,000.00	62,000.00
B	Other components (Lane level & Plaza Level)				
24	TFT Monitor - (1 per lane)	No	8	5,350.00	42,800.00
25	Thermal Receipt Printer - (1 per lane)	No	8	12,500.00	1,00,000.00
26	RFID Handheld Readers	No	4	68,000.00	2,72,000.00
27	Violation light & Alarm (on existing pole) and Foot switch in booth - (1 per lane)	No	8	2,400.00	19,200.00
28	Booth CCTV camera with voice recording - (1 per lane)	No	8	7,950.00	63,600.00
29	Intercom Slave unit in booth - (1 per lane)	No	8	3,750.00	30,000.00
30	Lane Level UPS - (1 per lane)	No	8	16,000.00	1,28,000.00

Sl. no	Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
31	Intercom Master unit - (1 per plaza)	No	1	44,000.00	44,000.00
32	Firewall Hardware	No	1	42,000.00	42,000.00
33	CCTV cameras for Plaza building surveillance (server room, control room, cash room, admin)	No	4	5,250.00	21,000.00
			Total CAPEX Price		65,63,410.00

C. For 10-lane fee plazas

Sl. no	Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
A	Integral Components (Lane level & Plaza Level)				
1	RFID ETC transceiver near Pay-axis - mounted on canopy (1 per lane)	No	10	77,800.00	7,78,000.00
2	Electronics Enclosure - (1 per lane)	No	10	6,670.00	66,700.00
3	Lane Controller with Industrial PC - (1 per lane)	No	10	91,895.00	9,18,950.00
4	AVC including sensors, loop and detector - (1 per lane)	Set	10	1,50,000.00	15,00,000.00
5	User Fare Display with mounting pole - (1 per lane)	Set	10	14,300.00	1,43,000.00
6	Automatic Barrier Gate - (1 per lane)	No	10	78,000.00	7,80,000.00
7	Overhead Lane Status light (OHLS) - (1 per lane)	No	10	8,250.00	82,500.00
8	Traffic light with mounting pole - (1 per lane)	Set	10	8,250.00	82,500.00
9	Loops with detector - (2 per lane)	Set	20	4,050.00	81,000.00
10	Incident Capture Camera with mounting pole - (1 per lane)	Set	10	6,400.00	64,000.00
11	License Plate Image Capture Camera with mounting poles - (1 per lane)	Set	10	6,400.00	64,000.00
12	Customized industrial grade keyboard - (1 per lane)	No	10	6,630.00	66,300.00
13	Cabling/Networking/Installation/Commissioning (Lump sum)	LS	1	4,08,000.00	4,08,000.00
14	Software – Lane Level - (1 per lane)	No	10	15,000.00	1,50,000.00
15	Plaza Servers in hot-standby configuration	No	1	5,65,000.00	5,65,000.00
16	Workstations for MIS, Cashup, Audit & LSDU (Lane status display unit in control room)	No	4	42,500.00	1,70,000.00
17	24 Port Network switch (Layer 3)	No	2	70,000.00	1,40,000.00
18	Outdoor wifi Access Point	No	1	9,250.00	9,250.00
19	Software – Plaza level	Job	1	75,000.00	75,000.00
20	Broadband/Dedicated Internet Lease Line (01 Static IP) with minimum 04 Mbps link for CCH connectivity	Facility	2	80,000.00	1,60,000.00
21	UPS system as required for complete Hybrid ETC Toll Plaza system	No	2	2,05,000.00	4,10,000.00
22	Servo stabilizer (60 KVA - 03 phase)	No	1	1,05,000.00	1,05,000.00
23	Network Video Recorder (NVR) for CCTV recording with adequate storage	No	1	62,000.00	62,000.00
B	Other components (Lane level & Plaza Level)				
24	TFT Monitor - (1 per lane)	No	10	5,350.00	53,500.00
25	Thermal Receipt Printer - (1 per lane)	No	10	12,500.00	1,25,000.00
26	RFID Handheld Readers	No	4	68,000.00	2,72,000.00
27	Violation light & Alarm (on existing pole) and Foot switch in booth - (1 per lane)	No	10	2,400.00	24,000.00
28	Booth CCTV camera with voice recording - (1 per lane)	No	10	7,950.00	79,500.00
29	Intercom Slave unit in booth - (1 per lane)	No	10	3,750.00	37,500.00
30	Lane Level UPS - (1 per lane)	No	10	16,000.00	1,60,000.00
31	Intercom Master unit - (1 per plaza)	No	1	44,000.00	44,000.00
32	Firewall Hardware	No	1	42,000.00	42,000.00
33	CCTV cameras for Plaza building surveillance (server room, control room, cash room, admin)	No	4	5,250.00	21,000.00
			Total CAPEX Price		77,39,700.00

D. For 12-lane fee plazas

Sl. no	Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
A	Integral Components (Lane level & Plaza Level)				
1	RFID ETC transceiver near Pay-axis - mounted on canopy (1 per lane)	No	12	77,800.00	9,33,600.00
2	Electronics Enclosure - (1 per lane)	No	12	6,670.00	80,040.00
3	Lane Controller with Industrial PC - (1 per lane)	No	12	91,895.00	11,02,740.00
4	AVC including sensors, loop and detector - (1 per lane)	Set	12	1,50,000.00	18,00,000.00
5	User Fare Display with mounting pole - (1 per lane)	Set	12	14,300.00	1,71,600.00
6	Automatic Barrier Gate - (1 per lane)	No	12	78,000.00	9,36,000.00
7	Overhead Lane Status light (OHLS) - (1 per lane)	No	12	8,250.00	99,000.00
8	Traffic light with mounting pole - (1 per lane)	Set	12	8,250.00	99,000.00
9	Loops with detector - (2 per lane)	Set	24	4,050.00	97,200.00
10	Incident Capture Camera with mounting pole - (1 per lane)	Set	12	6,400.00	76,800.00
11	License Plate Image Capture Camera with mounting poles - (1 per lane)	Set	12	6,400.00	76,800.00
12	Customized industrial grade keyboard - (1 per lane)	No	12	6,630.00	79,560.00
13	Cabling/Networking/Installation/Commissioning (Lump sum)	LS	1	5,48,000.00	5,48,000.00
14	Software – Lane Level - (1 per lane)	No	12	15,000.00	1,80,000.00
15	Plaza Servers in hot-standby configuration	No	1	5,65,000.00	5,65,000.00
16	Workstations for MIS, Cashup, Audit & LSDU (Lane status display unit in control room)	No	4	42,500.00	1,70,000.00
17	24 Port Network switch (Layer 3)	No	2	70,000.00	1,40,000.00
18	Outdoor wifi Access Point	No	1	9,250.00	9,250.00
19	Software – Plaza level	Job	1	1,00,000.00	1,00,000.00
20	Broadband/Dedicated Internet Lease Line (01 Static IP) with minimum 04 Mbps link for CCH connectivity	Facility	2	80,000.00	1,60,000.00
21	UPS system as required for complete Hybrid ETC Toll Plaza system	No	2	2,05,000.00	4,10,000.00
22	Servo stabilizer (60 KVA - 03 phase)	No	1	1,05,000.00	1,05,000.00
23	Network Video Recorder (NVR) for CCTV recording with adequate storage	No	1	62,000.00	62,000.00
B	Other components (Lane level & Plaza Level)				
24	TFT Monitor - (1 per lane)	No	12	5,350.00	64,200.00
25	Thermal Receipt Printer - (1 per lane)	No	12	12,500.00	1,50,000.00
26	RFID Handheld Readers	No	4	68,000.00	2,72,000.00
27	Violation light & Alarm (on existing pole) and Foot switch in booth - (1 per lane)	No	12	2,400.00	28,800.00
28	Booth CCTV camera with voice recording - (1 per lane)	No	12	7,950.00	95,400.00
29	Intercom Slave unit in booth - (1 per lane)	No	12	3,750.00	45,000.00
30	Lane Level UPS - (1 per lane)	No	12	16,000.00	1,92,000.00
31	Intercom Master unit - (1 per plaza)	No	1	44,000.00	44,000.00
32	Firewall Hardware	No	1	42,000.00	42,000.00
33	CCTV cameras for Plaza building surveillance (server room, control room, cash room, admin)	No	4	5,250.00	21,000.00
			Total CAPEX Price		89,55,990.00

E. For 14-lane fee plazas

Sl. no	Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
A	Integral Components (Lane level & Plaza Level)				
1	RFID ETC transceiver near Pay-axis - mounted on canopy (1 per lane)	No	14	77,800.00	10,89,200.00
2	Electronics Enclosure - (1 per lane)	No	14	6,670.00	93,380.00
3	Lane Controller with Industrial PC - (1 per lane)	No	14	91,895.00	12,86,530.00
4	AVC including sensors, loop and detector - (1 per lane)	Set	14	1,50,000.00	21,00,000.00
5	User Fare Display with mounting pole - (1 per lane)	Set	14	14,300.00	2,00,200.00
6	Automatic Barrier Gate - (1 per lane)	No	14	78,000.00	10,92,000.00
7	Overhead Lane Status light (OHLS) - (1 per lane)	No	14	8,250.00	1,15,500.00
8	Traffic light with mounting pole - (1 per lane)	Set	14	8,250.00	1,15,500.00
9	Loops with detector - (2 per lane)	Set	28	4,050.00	1,13,400.00
10	Incident Capture Camera with mounting pole - (1 per lane)	Set	14	6,400.00	89,600.00
11	License Plate Image Capture Camera with mounting poles - (1 per lane)	Set	14	6,400.00	89,600.00
12	Customized industrial grade keyboard - (1 per lane)	No	14	6,630.00	92,820.00
13	Cabling/Networking/Installation/Commissioning (Lump sum)	LS	1	6,88,000.00	6,88,000.00
14	Software – Lane Level - (1 per lane)	No	14	15,000.00	2,10,000.00
15	Plaza Servers in hot-standby configuration	No	1	5,65,000.00	5,65,000.00
16	Workstations for MIS, Cashup, Audit & LSDU (Lane status display unit in control room)	No	4	42,500.00	1,70,000.00
17	24 Port Network switch (Layer 3)	No	2	70,000.00	1,40,000.00
18	Outdoor wifi Access Point	No	1	9,250.00	9,250.00
19	Software – Plaza level	Job	1	1,00,000.00	1,00,000.00
20	Broadband/Dedicated Internet Lease Line (01 Static IP) with minimum 04 Mbps link for CCH connectivity	Facility	2	80,000.00	1,60,000.00
21	UPS system as required for complete Hybrid ETC Toll Plaza system	No	2	2,05,000.00	4,10,000.00
22	Servo stablizer (60 KVA - 03 phase)	No	1	1,05,000.00	1,05,000.00
23	Network Video Recorder (NVR) for CCTV recording with adequate storage	No	1	62,000.00	62,000.00
B	Other components (Lane level & Plaza Level)				
24	TFT Monitor - (1 per lane)	No	14	5,350.00	74,900.00
25	Thermal Receipt Printer - (1 per lane)	No	14	12,500.00	1,75,000.00
26	RFID Handheld Readers	No	4	68,000.00	2,72,000.00
27	Violation light & Alarm (on existing pole) and Foot switch in booth - (1 per lane)	No	14	2,400.00	33,600.00
28	Booth CCTV camera with voice recording - (1 per lane)	No	14	7,950.00	1,11,300.00
29	Intercom Slave unit in booth - (1 per lane)	No	14	3,750.00	52,500.00
30	Lane Level UPS - (1 per lane)	No	14	16,000.00	2,24,000.00
31	Intercom Master unit - (1 per plaza)	No	1	44,000.00	44,000.00
32	Firewall Hardware	No	1	42,000.00	42,000.00
33	CCTV cameras for Plaza building surveillance (server room, control room, cash room, admin)	No	4	5,250.00	21,000.00
			Total CAPEX Price		1,01,47,280.00

Appendix – 2: Compensation for default by IHMCL (Termination Payments)

On account of termination of Contract Agreement by IHMCL with no fault of Master ESP, the following shall be paid as Termination Payment to the Master ESP:

Upon Termination of Contract Agreement by IHMCL with no fault of Master ESP, IHMCL shall compensate the depreciated (Calculated as per straight line method) value of capital expenditure incurred on ETC equipment by the Master ETC Service Provider, provided that no payment shall be due until the existing life of the current asset.

For avoidance of doubt the life of each of ETC equipment shall be considered to be 5 years. Termination Payment shall only be due in case of new equipment is installed after extinguishing the remaining life of the existing equipment. Further, the Master ESP shall be required to maintain Asset Management portal to maintain the records and inventory of replaced ETC equipment as per requirement of IHMCL.

Accordingly, the clause on “Compensation for default by IHMCL” as mentioned in SI. # 17 (Additional clause – Including Compensation for default by IHMCL) in Addendum & Corrigendum-1 issued on dated 20.07.2020 shall stand deleted.

Appendix – 3: ETC Equipment Status

A. Zone -1

1. Toll Plaza Details

a. ETC Equipment Status overview provided for 110 toll plazas

2. Equipment Details

Sr.No	Equipment Details	Key Makes/OEMs of equipment
1	RFID Reader	3M, Alien, Biso, Delphi, Feig, Tagmaster, Honeywell, Kathrein, Linear, Motorola, Zebra,Star
2	AVCC	Advantech, Arya Omnitalk, E Toll, Efkon, Kent, Lenovo, metro,Qualix, Rajdeep, Scita, Sick, Technido, Techsture, Toradex, VaaaaN
3	TLC	Additech,Advantech, AOC, Arohan, Omnitalk, Dell, E Toll, Efkon, Kent, Lenovo, metro,Qualix, Rajdeep, Scita, Sick, Technido, Techsture, Toradex, VaaaN, Path, Lanner Electronic, Mahakal
4	Server	Dell, HP, IBM, Lenovo
5	LPIC	Auric, CP Plus, Dahua, Hikvision, Samsung, Unv, Vivotek,
6	ICS	Auric, CP Plus, Dahua, Hikvision, Samsung, Unv, Vivotek,
7	Barrier	ASN, Elka,Wejoin, Magnetic, Numeric, Parkstar, E Toll, Rajdeep, VaaaN
8	NVR	Advik, Auric, CP Plus, Dahua, Hikvision, Samsung, Unv, Vivotek, Honeywell
9	Master Intercom	AlPhone, Grandstream, Matrix, Beetel

3. Toll Plaza Equipment Installation Year

Installation Year	No of toll plazas
2013	01
2014	08
2015	04
2016	11
2017	16
2018	37
2019	26
2020	07

4. Toll plaza Along with Implementation date with Equipment Make

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
1	L&T PANIPAT	21	Sep-17	Alien	Kent ITS	Additech	Lenovo	Hikvision	Hikvision	Elka	Hikvision	Aiphone	
2	Zidda	10	Nov-19	TagMaster	Toll expert	Toll Expert	HP	CP Plus	CP Plus	Elka & wejoin	CP Plus	Aiphone	
3	Lehrabega	10	Feb-18	TagMaster	Rajdeep	Rajdeep	IBM	Hikvision	Hikvision	Rajdeep	Hikvision	Aiphone	All ok expect 4 AVC, 4 ICS & 12 LPIC
4	Badbar	10	Sep-17	Zebra	Metro	Metro	Lenovo		Vivotek		Hikvision	Aiphone	
5	Paind	10	Jul-18	TagMaster	Rajdeep	Rajdeep	IBM		Hikvision	Rajdeep	Hikvision	Aiphone	
6	Chandimandir	14	Dec-18	Feig	Efkon	Efkon	HP		Panasonic	Magnetic	Samsung	Aiphone	
7	Milkmajara	16	Jul-18	Zebra	Metro	Metro	Lenovo		Hikvision		Hikvision	Aiphone	All ok except 4 RFID, 4 TLC, 4 AVC, 4 ICS
8	Kalajhar	12	Jun-17	TagMaster	Dell	Dell	HP	CP Plus	CP Plus	Wejoin	CP Plus	Aiphone	
9	Jaloli	12	Mar-20	TagMaster	Banner	Qualix	Dell	CP Plus	CP Plus	Wejoin	CP Plus	Aiphone	
10	Landhari	12	Oct-17	TagMaster	Banner	Qualix	HP	CP Plus	CP Plus	Wejoin	CP Plus	Aiphone	
11	Khuian Malkan	14	Mar-18	TagMaster	Banner	Qualix	HP	CP Plus	CP Plus	Wejoin	CP Plus	Aiphone	
12	Bhavdeen	14	Mar-18	TagMaster	Banner	Qualix	HP	CP Plus	CP Plus	Wejoin	CP Plus	Aiphone	
13	Chiddan	10	Feb-18	TagMaster	Banner	Vaaan	HP	Hikvision	Hikvision		Vivotech	Aiphone	All ok except 2 RFID, 3 TLC, 1 AVC
14	Kitlana	12	Jun-20	TagMaster	Banner	Vaaan	HP	Hikvision	Hikvision	Toll Max	CP Plus	Grand Stream	

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
15	Banushi	8	Jun-18	TagMaster	Banner	Qualix	HP	CP Plus	CP Plus		CP Plus	Aiphone	
16	Deoria	14	Aug-17	Feig & TagMaster	VaaaN	VaaaN	Lenovo	Hikvision	Hikvision	VaaaN	CP Plus	Aiphone	
17	Nainsar	6	Nov-19	Kathrein	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision	VaaaN	Vivotech	Aiphone	All ok except 2 AVC
18	Chapwa	6	Nov-19	Kathrein	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision	VaaaN	Vivotech	Aiphone	
19	Hadwa	6	Nov-19	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision	Biso	Hikvision	Aiphone	All ok except 1 RFID
20	Akshda	6	Dec-19	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision	Biso	Hikvision	Aiphone	
21	Ronahi	10	May-14	TagMaster	Toll Max	Toll Max	Lenovo & IBM	Hikvision	Hikvision	VaaaN	CP Plus	Grand Stream	
22	Nawabganj	10	Aug-16	TagMaster	Metro	Metro	Lenovo	Vivotek	Vivotek	Parkstar	Hikvision		
23	Khairabad near Karondi	10	Oct-19	Linear	Rajdeep	Advantech	HP	Dahua	Dahua	Wejoin	Dahua	Aiphone	
24	Itunja near Barabhari	10	Jan-19	Linear	Rajdeep	Advantech	HP	Dahua	Dahua	Wejoin	Dahua	Aiphone	
25	Ahmedpur	10	May-14	TagMaster	Toll Max	Toll Max	Lenovo & IBM	Hikvision	Hikvision	VaaaN	CP Plus	Grand Stream	
26	Dakshinashekh pur	10	2015	Feig	Kent IT'S	Kent ITES	IBM		Hikvision	Magnetic	Hikvision	Aiphone	All ok except 2 RFID, 1 AVC, 1 ICS, 2 Barrier

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
27	Aaini	6	Oct-19	Technova	Rajdeep	Rajdeep	IBM	Hikvision		Magnetic	Vintron	Aiphone	
28	Gulalpurva	6	Aug-19	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision	Biso	Hikvision	Aiphone	All ok except 3 RFID, 3 AVC
29	shahabpur	6	Nov-19	TagMaster	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision	Vaaan	Vivotech	Aiphone	
30	Bara	16	May-19	Linear	Rajdeep	Rajdeep	HP	Hikvision	Hikvision	Wejoin	Hikvision	Aiphone	
31	Asroga	16	Apr-19	Linear	Rajdeep	Rajdeep	Lenovo	Hikvision	Hikvision	Wejoin	Hikvision	Aiphone	All ok except 2 TLC, 1 AVC, 1 LPIC & 1 ICS
32	Sujala	10	Jun-18	Star	Technido	Path India	IBM	Hikvision	Hikvision	Wejoin	Hikvision	Matrix	
33	Sihori Upathar/Kokhr aj	10	Jun-18	Star	Technido	Path India	IBM	Hikvision	Hikvision	Wejoin	Hikvision	Matrix	
34	Rajapur Maksudan/Sora on	4	Jun-18	TagMaster	Technido	Path India	IBM	Hikvision	Hikvision	Wejoin	Hikvision	Matrix	
35	Bhopatpur/Sah son	4	Jun-18	Star	Technido	Path India	IBM	Hikvision	Hikvision	Wejoin	Hikvision	Matrix	
36	Adampur/Nawa bganj	4	Jun-18	Star	Technido	Path India	IBM	Hikvision	Hikvision	Wejoin	Hikvision	Matrix	
37	Lalanagar	6	Jun-20	TagMaster	Toll expert	Toll expert	HP	CP Plus	CP Plus	Wejoin	CP Plus		
38	Tundla	14	Aug-16	TagMaster	Kent ITS	Kent ITES	Lenovo	Hikvision	Hikvision	Elka	Hikvision	Aiphone	



S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
39	Madrak	6	Jan-18	TagMaster	Vaaan	Vaaan	HP	Hikvision	Hikvision	Vaaan	Hikvision	Aiphone	
40	Gaurau	12	Aug-16	TagMaster	Kent ITS	Kent ITES	Lenovo	Hikvision	Hikvision	Elka	Hikvision	Aiphone	
41	Baros	6	Jan-18	TagMaster	Vaaan	Vaaan	HP	Hikvision	Hikvision	Vaaan	Hikvision	Aiphone	
42	Somna	10	Jun-17	Zebra	Scita	Infrovate	HP	CP Plus	Auric	Magnetic	Hikvision	Aiphone	
43	Luharli	10	Jun-17	Zebra	Scita	Infrovate	HP	CP Plus	Auric	Magnetic	Hikvision	Aiphone	
44	Sabli Toll Plaza	6	Jan-18	Kathrein	Vaaan	AOC	Vaaan			Vaaan	Vaaan	Grand Stream	
45	Semri	10	Feb-18	Star	Technido	Path India	HP	Hikvision	Hikvision	Wejoin	Hikvision/Uniview	Matrix	
46	Ait	10	Feb-18	Star	Technido	Path India	HP	Hikvision	Hikvision	Wejoin	Hikvision/Uniview	Matrix	
47	Vighakheth	8	Jan-20	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision	Biso	Hikvision	Aiphone	
48	Babina	8	Jan-20	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision	Biso	Hikvision	Aiphone	
49	Khanna	6	Jul-18	TagMaster	Vaaan	Vaaan	IBM	Hikvision	Hikvision	Elka	Hikvision	Aiphone	
50	Barajod (earlier Sikandara)	18	Dec-17	TagMaster	Rajdeep	Rajdeep	IBM	Vivotek	Hikvision	Rajdeep	CP Plus	Aiphone	
51	Anantram	16	Dec-17	TagMaster	Rajdeep	Rajdeep	IBM	Vivotek	Hikvision	Rajdeep	CP Plus	Aiphone	
52	Aliyapur	6	Oct-18	TagMaster	Vaaan	Vaaan	IBM	Hikvision	Hikvision	Elka	Hikvision	Aiphone	
53	Katoghan	6	Dec-19	TagMaster	Vaaan	Vaaan	HP	Hikvision	Hikvision	Vaaan	CP Plus	Grand Stream	

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
54	Sambhu Toll Plaza	13	Dec-15	Motorola	Advantech	Advantech	HP		Vivotek		Hikvision	Aiphone	RFID Reader Dec-17 EOL Dec 24
55	Ladowal Toll Plaza	16	Feb-13	Star/Motorola	Advantech	Advantech	HP		Axis		Hikvision	Aiphone	RFID Reader Nov-17 EOL Nov 24
56	Usaka(Chameri)	10	Nov-18	TagMaster	Banner	Vaaan	HP	Hikvision	Hikvision		Vivotech	Aiphone	All ok except 2 AVC
57	Gharonda Toll Plaza	24	Dec-14	Motorola	Advantech	Advantech	HP		Axis		Hikvision	Aiphone	RFID Reader Dec-17 EOL Dec 24
58	Thana	12	Feb-19	Zebra	Arya Omnitalk	Arya Omnitalk	HP	Hikvision	Hikvision	Wejoin	Hikvision	Aiphone	
59	Saini Majra	10	Feb-19	feig/Zebra	Kent ITS	Kent ITES	Lenovo		Hikvision	WEJOIN	Hikvision	Aiphone	RFID Reader Oct-19
60	Badauri	6	Nov-18	TagMaster	Banner	Vaaan	HP	Hikvision	Hikvision		Vivotech	Aiphone	
61	Sivaya	12	Jan-18	Feig	E Toll	E Toll	HP	Hikvision	Hikvision	E Toll	Hikvision	Diqu	
62	Thirya Khetal	12	Jan-15	Alien	Sick	Lanner Electronics	HP Pro		Hikvision	Magnetic	Hikvision	Aiphone	
63	Niyamatpur	12	Jan-15	Alien	Sick	Lanner Electronics	HP Pro		Hikvision	Magnetic	Hikvision	Aiphone	
64	Joya	10	May-19	Toll Max	Toll Max	Toll Max	HP	Hikvision	Hikvision	Toll Max	Unv & CP Plus	Grand Stream	All ok except 2 RFID, 3 Barrier

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
65	Brijghat	16	May-19	Toll Max	Toll Max	Toll Max	HP	Hikvision	Hikvision	Toll Max	Unv & CP Plus	Grand Stream	All ok except 1 AVC
66	Belon	8	Jul-19	Kathrein	Banner	Toll expert	HP	Hikvision	Hikvision	VaaaN	CP Plus	Grand Stream	
67	Mohammad Ibrahimpur	8	Jul-19	Kathrein	Banner	Toll expert	HP	Hikvision	Hikvision	VaaaN	CP Plus	Grand Stream	
68	Narwana	12	Sep-17	TagMaster	VaaaN	VaaaN	HP	Hikvision	Hikvision	VaaaN	Unv	Aiphone	
69	Chaudhri vyas	12	Sep-17	TagMaster	VaaaN	VaaaN	HP	Hikvision	Hikvision	VaaaN	Unv	Aiphone	
70	Badopatti Waryam Nangal Toll Plaza	12	Sep-17	TagMaster	VaaaN	VaaaN	HP	Hikvision	Hikvision	VaaaN	Unv	Aiphone	
71		10	Nov-14	3M/Feig	Advantech	Kent ITES	IBM		Hikvision		Honeywell	Aiphone	
72	Ladpalwan	10	Nov-14	3M/Feig	Advantech	Kent ITES	IBM		Hikvision		Honeywell	Aiphone	
73	JATL Nijerpura Toll Plaza	8	Feb-17	Delphi	Advantech	Mahakal Infra	Dell	Hikvision	Hikvision	Elka	Hikvision	Aiphone	02 ICS Camera Faulty
74	JATL Dhilwan Toll Plaza	8	Feb-17	Delphi	Advantech	Mahakal Infra	Dell	Hikvision	Hikvision	Elka	Hikvision	Aiphone	
75	Harsa Mansar Toll Plaza	7	Mar-17	Star	Technido	Path India	IBM	Hikvision	Hikvision	Wejoin	Hikvision	Matrix	
76	Chollang Toll Plaza	10	Mar-17	Star	Technido	Path India	Lenovo	Hikvision	Hikvision	Numeric/Wejoin	Hikvision	Beetel	
77	Usma	10	May-18	TagMaster	Metro	Metro	Dell	Vivotek			Hikvision	Aiphone	
78	Kot karor kalan	10	May-18	TagMaster	Qualix Toradex	Qualix	HP	CP Plus	CP Plus		CP Plus	Aiphone	
79	Chak Barniya	6	Nov-19	Zebra	Scita	Scita	HP	CP Plus	CP Plus		Advik	Aiphone	

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
80	dapar	12	May-18	Zebra	Rajdeep	Rajdeep	IBM	Samsung	Samsung	Magnetic		Aiphone	
81	behampur	12	Jul-18	LinearTag Master	Rajdeep	Rajdeep	IBM	Hikvision	Hikvision	WeJoin	CP PLUS/Honeywell	Aiphone	
82	Bhagomajra	8	Jul-19	Zebra	lenovo	Industrial	Lenovo	Unv	Unv	ASN	UNV		
83	RAMYANA Toll Plaza	14	Jul-16	Zebra	Advantech	Advantech	IBM	Vivotek		Elka	Hikvision	Aiphone	
84	Makrauli Kalan Toll Plaza	10	Apr-16	Zebra	Advantech	Advantech	IBM	Vivotek		Elka	Hikvision	Aiphone	
85	Madina Toll Plaza	14	Jul-16	Zebra	Advantech	Advantech	IBM	Vivotek		Elka	Hikvision	Aiphone	
86	Dahar Toll Plaza	10	Apr-16	Zebra	Advantech	Advantech	IBM	Vivotek		WeJoin	Hikvision	Aiphone	
87	Rohad Toll Plaza	12	2014	Feig	Techsture	Arohan	HP	CP Plus	CP Plus	Magnetic	CP Plus	Aiphone	RFID 2015
88	Jat Gangaicha Toll Plaza	12	Sep-16	Honeywell	Techsture	Techsture	Lenovo	HIKVISION/CP-Plus	HIKVISION/CP-Plus	Magnetic	Hikvision	Aiphone	RFID and Server Nov-19
89	Dighal Toll Plaza	12	Mar-16	Honeywell	Scita	Infrovate	Lenovo	AURIC/HIKVISION	AURIC/HIKVISION	Magnetic	Hikvision	Aiphone	RFID and Server Nov-19
90	Khatkar	8	Dec-19	Feig	Kent ITS	Kent ITES	Lenovo	Hikvision	Hikvision	Vaaan	Hikvision	Aiphone	
91	Chajjarasi	18	Sep-19	TagMaster	Advantech	Advantech	HP	Hikvision	Hikvision		Hikvision	Aiphone	

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
92	IGIA	3	Jul-14	3M	Scita	Metro	IBM	Vivotek	Vivotek		Hikvision	Aiphone	
93	Khedki Daula	26	Jul-14	3M	Scita	Metro	HP	Vivotek	Vivotek		Hikvision	Aiphone	
94	Jindpur	6	Dec-18	TagMaster	Rajdeep	rajdeep	IBM	Minttron	Minttron	Wejoin	CP Plus	Aiphone	
95	Nuruddinpur	6	Apr-16	TagMaster	VaaaN	VaaaN	IBM	Hikvision	Hikvision	Elka	CP Plus	Aiphone	
96	Kunwarpur	6	Apr-16	TagMaster	VaaaN	VaaaN	IBM	Hikvision	Hikvision	Elka	CP Plus	Aiphone	
97	Aihar	6	Dec-18	TagMaster	Rajdeep	rajdeep	IBM	Minttron	Minttron	Wejoin	CP Plus	Aiphone	
98	Aindhi	6	Dec-19	Zebra	Metro	Metro	HP	Hikvision	Hikvision	Parkstar	Hikvision	Inspected	
99	Piddhi	6	Dec-19	Zebra	Metro	Metro	HP	Hikvision	Hikvision	Parkstar	Hikvision	Inspected	
100	Andhiyari	8	Mar-19	Zebra	Scita	Advantech	HP	Hikvision		Wejoin	Hikvision	Aiphone	
101	Behram	10	Jun-20	Zebra	Toradex Banner	Qualix	HP	Unv	Unv	Wejoin	Unv	Aiphone	
102	Bachhwan (Bachhuan)	10	Jun-20	Zebra	Toradex Banner	Qualix	HP	Unv	Unv	Wejoin	Unv	Aiphone	
103	Mawikalan	12	Jun-18	Zebra/Star	Scita	Ashoka	Dell	Hikvision	UNV	Ashoka	UNV		
104	Maujpur	8	Jun-18	Zebra/Star	Scita	Ashoka	Dell	Hikvision	UNV	Ashoka	UNV		
105	Jakhauli	15	Jun-18	Zebra/Star	Scita	Ashoka	Dell	Hikvision	UNV	Ashoka	UNV		
106	Fatehpur Rampur	12	Jun-18	Zebra/Star	Scita	Ashoka	Dell	Hikvision	UNV	Ashoka	UNV		
107	Duhai	17	Jun-18	Zebra/Star	Scita	Ashoka	Dell	Hikvision	UNV	Ashoka	UNV		
108	Dasna	16	Jun-18	Zebra/Star	Scita	Ashoka	Dell	Hikvision	UNV	Ashoka	UNV		
109	Chhajju Nagar	18	Jun-18	Zebra/Star	Scita	Ashoka	Dell	Hikvision	UNV	Ashoka	UNV		
110	Blakbarpur	20	Jun-18	Zebra/Star	Scita	Ashoka	Dell	Hikvision	UNV	Ashoka	UNV		

B. Zone -2

1. Toll Plaza Details

- a. ETC Equipment Status overview provided for 144 toll plazas

2. Equipment Details

Equipment Details	Key Makes/OEMs of equipment
RFID Reader	3M, Alien, Biso, Elodon, IDTECH, Katherin, Kathren, Kathren/Tag Master, LINEAR, TAGMASTER, FIEG, Motorola, Newtech, OBID, Star, Tag Master, Zebra, Star
AVCC	Aditech, Advantech-Banner, Arya Omnitalk, Banner, Biso, Comvision, Efkon, Hitech, Intec, Kent, Metro, Metro banner, Qualix, Rajdeep, Rittal Banner, Sensor Line, Sick, SICK-Advantech, Technido, Technova, Techsture, Telegra, Toll Max, Toll Max Banner, TollXpert banner, VaaaN
TLC	Aditech, Advantech, Arya Omnitalk, Bisotech, Compaq, Cotmac, Efkon, Gigabite/FOXIN/ZEBRONIC, IMBM, Industrial PC, ITNL, Kent, Lenovo, metro, NA, Path, Qualix, Rajdeep, Rittal, Technova, Techsture, Toll Max, VaaaN, Zebronic
Server	Cooler-Master, Dell, HP, IBM, M3, Lenovo
LPIC	APRO, Axis, Beslar, CP Plus, Hikvision, Samsung, Vivotek, Wbox
ICS	APRO, Axis, CP Plus, Dahua, Hikvision, Honeywell, MINTRON, Samsung, Vivotek, Wbox
Automatic Barrier	Bisotech, Elka, IRB, La Barrier, Magnetic, NP, Parkstart, Toll max, Toshi, VaaaN, WeJoin
NVR	Hikvision UNV, CP Plus, Hikvision, Hikvision/UNV, Honeywell, Honeywell/UNV, HONEYWELL/ HIKVISION, NUUO, Qnap, UNV, Vivotek,
Master Intercom	Aiphone, Binatone, Crystal, Grand Stream, MATRIX, Panasonic, Rajdeep, Toolfone

3. Toll Plaza Equipment Installation Year

Installation Year	No of toll plazas
2012	04
2013	16
2014	05
2015	09
2016	02
2017	21
2018	35
2019	31
2020	14
NA	07

4. Toll plaza Along with Equipment Make

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
1	Vavadihurd	8	2015	Feig			IBM		Hikvision	Toshi	Hikvision		03 RFID and 01 Barrier Not working
2	Vasad	14	Jan-13	Feig	Kent	Kent	IBM System x3650 M3		Hikvision		HONEYWELL/HIKVISION	Aiphone	All Functional, RFID in 2017
3	Vadodara	15	Jan-13	TagMaster/Feig	Kent	Kent	IBM System x3650 M3		Hikvision		HONEYWELL/HIKVISION	Aiphone	All Functional, RFID in 2017
4	Ring Road	9	Jan-13	Feig	Kent	Kent	IBM System x3650 M3		Hikvision		HONEYWELL/HIKVISION	MATRIX	All Functional, RFID readers in 2017
5	Pithai	8	2015	Feig	Techsture	Techsture	IBM	Hikvision	Hikvision	IRB	Hikvision	Aiphone	All Functional except 01 ICS and 1 AEB, only 04 RFID are installed
6	Nadiad	8	Jan-13	TagMaster/Feig	Kent	Kent	IBM System x3650 M3		Hikvision		HONEYWELL/HIKVISION	MATRIX	All Functional, RFID readers in 2017
7	Kheda	14	Jan-13	Feig	Kent	Kent	IBM System x3650 M3		Hikvision		HONEYWELL/HIKVISION	Aiphone	All Functional, RFID in 2017

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
8	Anand	8	Jan-13	TagMaster/Feig	Kent	Kent	IBM System x3650 M3		Hikvision		HONEYWELL/HIKVISION	MATRIX	All Functional, RFID readers in 2017
9	Ahmedabad	9	Jan-13	TagMaster/Feig	Kent	Kent	IBM System x3650 M3		Hikvision		HONEYWELL/HIKVISION	Alphone	All Functional, except 02 RFID Readers, 05 RFID in 2015 and 04 in 2017
10	Sikandra	8	Jan-18	TagMaster	Comvision	Industial PC	lenovo			Toshi	Hikvision	Aiphone	
11	Rajadhok	8	Jan-18	TagMaster	Comvision	Industial PC	lenovo	Hikvision	Hikvision	Toshi	Hikvision	Aiphone	
12	Khedi (Bandanwara)	14	Feb-18	Feig		Kent	lenovo				Hikvision		
13	Pipalaz	16	Apr-15	Zebra	Advantech Banner	Advantech	Dell	Axis	Hikvision		Hikvision	AlPhone	RFID in Mar-2017
14	Gegal	16	Apr-15	Zebra	Advantech Banner	Advantech	Dell	Axis	Hikvision		Hikvision	AlPhone	RFID in Mar-2017
15	Tamdoli	8	NA	Kathrein/TagMaster	Metro banner	metro	HP	Hikvision			Hikvision	AlPhone	
16	Banthadi	8	NA	Kathrein/TagMaster	Metro banner	metro	HP	Hikvision			Hikvision	AlPhone	

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
17	Para	6	Jul-19	Biso	Biso	Biso	HP	Hikvision	Hikvision	Biso	Hikvision	Toolfone	
18	Lilamba	6	Aug-19	Biso	Biso	Biso	HP	Hikvision	Hikvision	Biso	Hikvision	Toolfone	
19	Bagaliya	6	Jan-20	Tagmaster	Toll Max Banner	Toll Max	Lenovo	Hikvision	Hikvision	Toll max	Vivotek	Aiphone	
20	Baggar	6	Jan-20	Tagmaster	Toll Max Banner	Toll Max	Lenovo	Hikvision	Hikvision	Toll max	Vivotek	Aiphone	
21	Badighati	6	Jan-20	Tagmaster	Toll Max Banner	Toll Max	Lenovo	Hikvision	Hikvision	Toll max	Vivotek	Aiphone	
22	Butati	6	Jan-20	Tagmaster	Toll Max Banner	Toll Max	Lenovo	Hikvision	Hikvision	Toll max	Vivotek	Aiphone	
23	Ludhwai	10	May-18	TagMaster	Comvisio n	Insdustial PC	lenovo		Vivotek	Toshi	Hikvision	Aiphone	
24	Nimbiya ki Dhani (bayatu)	6	Jan-17	TagMaster	Qualix	Qualix	HP	CP Plus/Hikvision	CP Plus/Hikvision	WeJoin	CP Plus	Aiphone	RFID in 2019
25	Nimbasar	8	Jan-18	TagMaster	Qualix	Qualix	HP	CP Plus	CP Plus	WeJoin	CP Plus	Aiphone	RFID in Jun-19
26	Khair fakir ki dhani	8	Jan-18	Tagmaster	TollXpert barner	Qualix	HP	CP Plus	CP Plus	WeJoin	CP Plus	Aiphone	RFID in Jun-19, 01 RFID missing
27	Hathitala	8	Aug-18	TagMaster	Qualix	Qualix	HP	CP Plus	CP Plus	WeJoin	CP Plus	Aiphone	
28	Bor Charnan	6	Aug-18	TagMaster	Toradex	Qualix	HP	CP Plus	CP Plus	WeJoin	CP Plus	Aiphone	
29	Bharthana / Karjan	22	Sep-18	Allen	Aditech	Aditech	Lenovo	Hikvision	Hikvision	Elka	Hikvision	AIPHON E	All Functional, RFID in Nov 2017

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
30	Salasar	10	Feb-20	Linear	Rajdeep	Rajdeep	lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
31	Nokhra	8	Feb-19	Linear	Rajdeep	Rajdeep	lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
32	Kheerwa	8	Feb-19	Linear	Rajdeep	Rajdeep	lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
33	Ramdevra	8	Feb-19	TagMaster	Qualix	Qualix	HP	CP Plus	CP Plus	WeJoin	CP Plus	Aiphone	
34	Lathi	8	Dec-18	TagMaster	Qualix	Qualix	HP	CP Plus	CP Plus	WeJoin	CP Plus	Aiphone	
35	Gumanpura	6	May-19	IDTECH	Technova	Technova	Lenovo		Hikvision		Hikvision	Matrix	01 RFID reader not working
36	Rupa Kheda	10	Jun-18	Zebra/Tag Master	Rittal Banner	Rittal	IBM	Vivotek	Vivotek		Hikvision	Aiphone	
37	Mujras	8	Jun-18	Zebra/Tag Master	Rittal Banner	Rittal	IBM	Vivotek	Vivotek		Hikvision	Aiphone	
38	Jojro Ka Kheda	12	Nov-17	Feig		Kent	Lenovo		Hikvision		Hikvision/U NV		
39	Lambia	16	Nov-17	Feig		Kent	Lenovo		Hikvision		Hikvision/U NV		
40	Dhaneshwar Vil.	10	NA	Zebra/Motorola 3M/Star		Gigabite/FOXIN/ZEBRONIC	IBM		DHUA/HIKVISION		NA		RFID only 04 working, TLC only 06 working, AVCC not integrated
41	Bassi Vil.	10	NA	Newtech		Lenovo	IBM				NA	Crystal	
42	Aroli Vil.	6	NA	Newtech		Zebronic	IBM	Hikvision	Hikvision		NA		

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
43	Khachrol	6	Apr-19	Tagmaster	TollXpert banner	Advantech	HP	CP Plus	CP Plus		CP Plus	Aiphone	
44	Amoli	10	May-18	TagMaster	Comvision	Insdistial PC	lenovo		Vivotek	Toshi	Hikvision	Aiphone	
45	Korai	8	Mar-18	Biso	Comvision	Insdistial PC	Lenovo	Vivotech	Hikvision	Biso	CP Plus	Aiphone	
46	Rajora Khurd	8	Oct-18	Zebra	Banner	Qualix	HP	CP Plus		WeJoin	CP Plus	Aiphone	
47	Kondar	8	Feb-20	IDTECH	Technova	Technova	Dell	Hikvision	Hikvision	WeJoin	Hikvision	Binatone	
48	Chilachond	8	Feb-20	IDTECH	Technova	Technova	Dell	Hikvision	Hikvision	WeJoin	Hikvision	Binatone	
49	Rabawata	8	Feb-20	Kathrein	Banner	Toll Max	HP	Hikvision	Hikvision	Toll max	CP Plus	Grandstream	
50	Titoli	8	Feb-20	Kathrein	Banner	Toll Max	HP	Hikvision	Hikvision	Toll max	CP Plus	Grandstream	
51	6ML @ km 229.100	6	Nov-19	TagMaster	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision		Vivotech	Aiphone	
52	Varahi	10	Nov-17	Tagmaster	Rajdeep	Rajdeep	HP	Hikvision	Hikvision		Hikvision	AIPhone	Critical equipment in 2017 and other in 2010
53	Samakhiali	18	Sep-19	Zebra	Techsture	Techsture	HP	APRO	APRO	Magnetic	Hikvision	AIPhone	Replaced in 2019
54	Mokha	14	2018	Motorola	Advantech and banner	Advantech	HP	Hikvision	Hikvision	Elka	NUUO	AIPhone	All Functional

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
55	Makhel	10	Nov-17	Tagmaster	Rajdeep	Rajdeep	HP	Hikvision	Hikvision		Hikvision	AlPhone	Critical equipment in 2017 and other in 2010
56	Bhiladi	10	Nov-17	Tagmaster	Rajdeep	Rajdeep	HP	Hikvision	Hikvision		Hikvision	AlPhone	Critical equipment in 2017 and other in 2010, 01 RFID is of Starlink
57	Belgaum	12	Nov-17	TAG MASTER/LINE AR/STAR SYSTEM	Rajdeep	Rajdeep	HP	Samsung	MINTORN E/HIK VISION		Hikvision	AlPhone	Critical equipment in 2017 and other in 2015
58	Thikariya	16	Mar-14	Feig	Efkon	Efkon	IBM	Hikvision	Samsung		Hikvision	Alphone	
59	Surajbani	10	Jan-17	Star	Technido	Path	HP	Hikvision	Hikvision		Hikvision	Matrix	01 RFID replaced in 2020
60	Bhatwada	8	2016	Tagmaster	Metro	Advantech	IBM	Vivotek	Vivotek	Parkstar	Hikvision	AIPHON E	Some equipment in 2013
61	Limdi	6	Jul-19	Zebra	Metro	Compaq	HP	Hikvision	Hikvision	WeJoin	Hikvision	Alphone	All Functional
62	Kishangarh	16	Mar-14	Feig	Efkon	Efkon	IBM	Hikvision	Samsung		Hikvision	Alphone	
63	Nekawala	6	Oct-18	Zebra	Metro	Metro	Lenovo	Vivotek	Vivotek		Hikvision	Alphone	

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
64	Shahjahanpur	25	May-18	Zebra	Advantech	Advantech	HP	Hikvision	Hikvision		Na	Aiphone	
65	Manoharpur	12	Mar-20	Star		Advantech	HP		Hikvision		Na	Aiphone	
66	Daulatpura	14	May-18	Zebra	Advantech (Sick)	Advantech	HP	Hikvision	Hikvision		Na	Aiphone	
67	Uthamam	10	Jun-13	TagMaster	Telegra	Cotmac	HP	Apro	Apro		Hikvision	Aiphone	
68	Raipur	10	Jun-13	TagMaster	Telegra	Cotmac	HP	Apro	Apro		Hikvision	Aiphone	
69	Indranagar	10	Jun-13	TagMaster	Telegra	Cotmac	HP	Apro	Apro		Hikvision	Aiphone	
70	Birami	10	Jun-13	TagMaster	Telegra	Cotmac	HP	Apro	Apro		Hikvision	Aiphone	
71	Motisar/Khanori	8	May-17	TagMaster	Qualix	Qualix	HP	CP Plus	CP Plus	Wejoin	CP Plus	Aiphone	All ok except 2 TLC, 1 AVC
72	Jasnath Nagar	8	May-17	TagMaster	Qualix	Qualix	HP	CP Plus	CP Plus	Wejoin	CP Plus	Aiphone	
73	Doli	8		Elodon	Metro	Rittal	Lenovo	Vivotech	Vivotech		Hikvision		
74	Morani/Pokaran	8	May-17	TagMaster	Qualix	Qualix	HP	CP Plus	CP Plus	Wejoin	CP Plus	Aiphone	All ok except 3 RFID, 3 TLC, 2 LPIC, 2 ICS, 1 Barrier
75	Tankala	6	Nov-19	TagMaster	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision		Vivotech	Aiphone	

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
76	Netra	6	Nov-19	TagMaster	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision		Vivotech	Aiphone	All ok except 1 AVC, 1 LPIC, 1 ICS
77	Kishorepura	10	Jun-14	3M	Efkon	Industrial PC	IBM		Samsung	Elka	Qnap	Aiphone	
78	Simliya / Baran	8	Feb-20	IDTECH	Banner	Technova	Dell	Hikvision	Hikvision	WeJoin	Hikvision	Binatone	
79	Kota Bypass/Sakatpur Nayagaon	4	Feb-18	Star		Lenovo	CoolerMaster	Hikvision	Hikvision		Hikvision		
80	Fatehpur	8	Feb-20	IDTECH	Banner	Technova	Dell	Hikvision	Hikvision	WeJoin	Hikvision	Binatone	
81	Mandhana	10	Nov-19	TagMaster	Hitech	Advantech	HP	Hikvision	Hikvision	Elka	Hikvision	Matrix	
82	Shobhasar	6	May-17	TagMaster	Metro	Metro	Lenovo		Vivotech		Hikvision	Aiphone	
83	Lasedi	6	May-17	TagMaster	Metro	Metro	Lenovo		Vivotech		Hikvision	Aiphone	All ok except 2 LPIC
84	Dhadhar	6	May-17	TagMaster	Metro	Metro	Lenovo		Vivotech		Hikvision	Aiphone	All ok except 1 ICS
85	Akhepura	12	Feb-18	Feig	Banner	VaaaN	HP	Hikvision	Hikvision		Vivotech	Aiphone	
86	Tatiyawas	10	Apr-16	Star/3 M	VaaaN	VaaaN	HP	Vivotech/Hikvision	Vivotech/Hikvision		CP Plus	Aiphone	
87	Nimbhi Jodhan	8	Dec-18	Zebra	Metro	Metro	IBM	Hikvision	Hikvision		Hikvision	Aiphone	

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
88	Harimma	8	Dec-18	Zebra	Metro	Metro	IBM	Hikvision	Hikvision		Hikvision	Aiphone	
89	Negadiya	12	Dec-15	Zebra	Banner	Rittal	IBM	Vivotech	Vivotech		Hikvision	Aiphone	
90	Mandawada	10	Dec-15	Zebra	Banner	Rittal	IBM	Vivotech	Vivotech		Hikvision	Aiphone	
91	Khandi Obri	12	Sep-17	Linear		Rajdeep	Lenovo		Hikvision		Hikvision		
92	Malera/Pindwara	10	May-18	Star	Technido	Path	HP	Hikvision	Hikvision		Hikvision	Matrix	All ok except 2 AVC
93	Jaswantgarh/Gogunda	10	May-18	Star	Technido	Path	IBM	Hikvision	Hikvision		Hikvision	Matrix	
94	Dumbarwadi	6	Nov-19	Kathrein	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision		Vivotech	Aiphone	All ok except 1 AVC
95	Dhoki	6	Nov-19	Kathrein	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision		Vivotech	Aiphone	All ok except 1 RFID
96	Taswade	8	2018	TagMaster	Kent	kent	Lenovo	Hikvision	Hikvision/Secureeye		Hikvision		
97	Kini	8	2018	TagMaster	Kent	kent	Lenovo	Hikvision	Hikvision/Secureeye		Hikvision		
98	Baswant	16	Jul-18	TagMaster	Banner	Vaaan	HP	Hikvision	Hikvision		Vivotek	Aiphone	
99	hivargaon Pavsda	12	Feb-17	Feig	Harikrupa-Sick	Harikrupa	HP		Hikvision		Hikvision	AIPhone	

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
100	Laling/Dhule	10	Nov-19	Honeywell/FEIG	Sick	Advantech	IBM	Hikvision	Hikvision		Hikvision	Aiphone	Different dates for other equipments
101	Ghoti	10	Apr-19	Linear	Rajdeep	Rajdeep	Dell	Hikvision	Hikvision		Vivitek	Ericsson	
102	Chandwad toll plaza	10	Nov-19	Honeywell/FEIG	Sick	Advantech	IBM	Hikvision	Hikvision		Hikvision	Aiphone	Different dates for other equipments
103	Arjunalli	10	Apr-19	FEIG/LINEAR	Rajdeep	Rajdeep	Dell	Hikvision	Hikvision		Vivitek	Ericsson	
104	Khed-Shivapur	20	Nov-18	3M/Star	Vaaan	Vaaan	IBM	Hikvision	Hikvision	Vaaan	Neotech	Grandstream	
105	Anewadi	16	Jan-19	3M/Star	Vaaan	Vaaan	IBM	Hikvision	Hikvision	Vaaan	Neotech	Grandstream	
106	Sardewadi	10	Feb-13	Star	Eikon	Eikon	HP	Hikvision	Axis		Hikvision	AIPhone	RFID , AVC in 2020and server in 2016
107	Patas	12	Feb-13	Star	Eikon	Eikon	HP	Hikvision	Axis		Hikvision	AIPhone	RFID , AVC in 2020and server in 2016
108	Yedeshi	12	Mar-18	TagMaster	Rajdeep	Rajdeep	Lenovo	Hikvision	Hikvision		Hikvision/Unv	Aiphone	
109	Varvade	12	Aug-13	Alien	ITNL-LEC	LEC	HP		Hikvision		Hikvision	Aiphone	RFID in 2018
110	Tamlawadi	12	Mar-18	TagMaster	Rajdeep	Rajdeep	Lenovo	Hikvision	Hikvision		Hikvision/Unv	Aiphone	
111	Sawaleshwar Toll Plaza	12	Aug-13	Alien	ITNL-LEC	LEC	HP		Hikvision		Hikvision	Aiphone	RFID in 2018

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
112	Phulwadi	12	Feb-20	Zebra	Scita	MooteK	Dell	CP Plus	CP Plus		CP Plus	AIPhone	
113	Talmod	12	Feb-20	Zebra	Scita	MooteK	Dell	CP Plus	CP Plus		CP Plus	AIPhone	
114	Nandgaon	10	Apr-13	TagMaster	Rajdeep	Rajdeep	IBM	Hikvision	Honeywell	WeJoin	Honeywell	Rajdeep	
115	Karanja	8	Dec-17	Feig	Sensor Line	Advantech	Lenovo		Samsung	Magnetic	Hikvision	Aiphone	
116	Gondkhairi	8	Dec-19	Biso	Banner	IMBM	Lenovo	Wbox	Wbox	Biso	Hikvision	Aiphone	All ok except 5 RFID, 5 TLC, 3 LPIC, 8 Barrier
117	Pargaon	12	Mar-19	TagMaster	Rajdeep	Rajdeep	Lenovo	Hikvision	Hikvision	WeJoin	Unv	Aiphone	
118	Padaishingi	12	Mar-19	TagMaster	Rajdeep	Rajdeep	Lenovo	Hikvision	Hikvision	WeJoin	Unv	Aiphone	
119	Malewadi	12	Mar-19	TagMaster	Rajdeep	Rajdeep	Lenovo	Hikvision	Hikvision	WeJoin	Unv	Aiphone	
120	SONGIR	10	Feb-12	Zebra/3M	metro	metro	HP		Vivotek	Eurobarra	Hikvision	AIPhone	
121	SHIRPUR	10	Feb-12	Zebra/3M	metro	metro	HP		Vivotek	Eurobarra	Hikvision	AIPhone	
122	Sendurwafa toll plaza	8	Aug-17	Zebra	Intec	Advantech	Lenovo	Samsung	Samsung	Toshi	Hikvision	Panasonic	
123	Mathni	10	Aug-14	TagMaster	VaaaN	VaaaN	IBM	Hikvision	Hikvision		Hikvision	Aiphone	

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
124	Nagpur Bypass Check TP	10	May-19	Feig	Arya Omnitalk	Arya Omnitalk	HP	Hikvision	Hikvision		Hikvision	Aiphone	
125	Pithadiya	10	Sep-18	Alien	Sick	ITNL	HP	Hikvision	Hikvision	Magnetic	Hikvision	Matrix	01 barrier not working
126	Bharudi	10	Sep-18	Alien	Sick	ITNL	HP	Hikvision	Hikvision	Magnetic	Hikvision	Matrix	01 barrier not working
127	Vanana	10	Jun-17	Star	Technido	Path	HP	Hikvision	Hikvision	Magnetic	Hikvision	Matrix	All Functional
128	Vaghasia	10	Jun-17	Star	Technido	Path	HP	Hikvision	Hikvision	Magnetic	Hikvision	Matrix	All Functional
129	Dumiyani	10	Jun-17	Star	Technido	Path	HP	Hikvision	Hikvision	Magnetic	Hikvision	Matrix	All Functional
130	KANHAN KAMPT EBYE PASS	6	Jun-12	Feig		Efkon	Lenovo		CP Plus		NA	Aiphone	
131	Borkhedi	10	May-19	Feig	Arya Omnitalk	Arya Omnitalk	HP	Hikvision	Hikvision		Hikvision	Aiphone	
132	Kumhari/ Mansar	6	Jun-12	Feig		Efkon	Lenovo		CP Plus		NA	Aiphone	
133	Ashiv	8	Dec-19	Kathrein	VaaaN	VaaaN	HP	Hikvision	Hikvision	VaaaN	CP Plus	Grandstream	
134	Gadoi	10	Dec-19	Tagmaster	Toll Max banner	Toll max	Lenovo	Hikvision	Hikvision	VaaaN	Vivotek/CP PLUS	AIPHONE	All Functional
135	Dari	10	Dec-19	Tagmaster	Toll Max banner	Toll max	Lenovo	Hikvision	Hikvision	VaaaN	Vivotek/CP PLUS	AIPHONE	All Functional
136	Mandal/Vyara	14	Jun-15	ZEBRA/Motorola	SICK-Advantech	Advantech	HP	Bestar	Axis	La Barrier	HP Proliant ML10	Matrix	RFID and server in Nov-17

S.No	Plaza Name	Total no. of Lanes	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
137	Khaniwade	10	Apr-15	TagMaster /Linear	Rajdeep	Rajdeep	IBM		MINTRON	WeJOIN	Honeywell/ UNV	AlPHONE	Some RFID in Mar-2018
138	Charoti	14	Mar-18	LINEAR, TAGMASTER, FIEG	Rajdeep	Rajdeep	IBM	Hikvision	Hikvision	Wejoin	Hikvision	Alphone	All Functional, 04 lanes in Feb-13
139	Choriyasi	18	Sep-14	LINEAR, TAGMASTER, FIEG	Rajdeep	Rajdeep	IBM	Hikvision	Minttron	Wejoin	Hikvision	Alphone	02 ICS camera not working, 08 Lane -19.12.2018
140	Boriach	18	Jan-19	LINEAR, TAGMASTER, FIEG	Rajdeep	Rajdeep	IBM	Hikvision	Minttron	Wejoin	UNV	Alphone	01 ICS, 03 barrier and 01 SAVC not working
141	Bhatia	12	Jun-15	ZEBRA/Motorola	SICK-Advantech	Advantech	HP	Beslar	Axis	La Barrier	HP Proliant ML10	AlPHONE	RFID and server in Nov-17
142	Bhagwada	14	Mar-18	LINEAR, TAGMASTER, FIEG	Rajdeep	Rajdeep	IBM	Hikvision	Minttron	Wejoin	Hikvision	Alphone	01 ICS, 03 barrier and 01 SAVC not working
143	Husnapur	10		Kathrein	Banner	Toll max	HP	Hikvision	Hikvision	Toll max	CP Plus	Grandstream	
144	Haladgaon	8	Oct-19	TagMaster	Rajdeep	Rajdeep	Lenovo	Hikvision	Hikvision	Wejoin	Hikvision	Alphone	All ok except 4 AVC, 2 LPIC & 2 ICS

C. Zone -3

1. Toll Plaza Details

a. ETC Equipment Status overview provided for - 85

2. Equipment Details

Sr.No	Equipment Details	Key Makes/OEMs of equipment
1	RFID Reader	Biso, ID TECH, Feig, Tagmaster, Honeywell, Kathrein, Linear, Motorola, Zebra,Star, Intermac
2	AVCC	Approva,Advantech, Arya Omnitalk, E Toll, Efkon, Kent, Lenovo, metro,Qualix, Rajdeep, Scita, Sick, Technido, Techsture, Toradex, VaaaN, Green Tech, Intec, Biso
3	TLC	Additech,Advantech, , Omnitalk, , Efkon, Kent, metro,Qualix, Rajdeep, Scita, fanTeck, Techsture, Toradex, VaaaN, Path, , HP, Sinb, Biso, Green tech
4	Server	Dell, HP, IBM, Lenovo, DLINEC
5	LPIC	CP Plus, Hikvision, Samsung, Unv, Vivotek, Bosch
6	ICS	CP Plus, Hikvision, Samsung, Unv, Vivotek, Bosch
7	Barrier	ASN, Elka,Wejoin, Magnetic, Numeric, Parkstar, E Toll, Rajdeep, VaaaN, Sunfre
8	NVR	CP Plus, Hikvision, Vivotek, Unv
9	Master Intercom	AlPhone, Grandstream, Matrix,Beetel, Panasonic, Seimens

3. Toll Plaza Equipment Installation Year

Installation Year	No of toll plazas
2011	01
2014	01
2015	06
2016	03
2017	07
2018	16
2019	38
2020	13

4. Toll plaza Along with Equipment Make

S.No	Plaza Name	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
1	Sehatganj	Dec-19	Honeywell	Techsture	Techsture	Lenovo	Hikvision	Hikvision		Hikvision		
2	Purankhedi	Jun-18	Biso	Comvision	Comvision	Lenovo	Vivotek	Vivotek	Biso	Vivotek	Aiphone	
3	Pagara	Jun-18	TagMaster	Metro	Metro	Lenovo	Vivotek	Vivotek		Hikvision	Aiphone	
4	Jogipura	Jun-18	TagMaster	Metro	Metro	Lenovo	Vivotek	Vivotek		Hikvision	Aiphone	01 RFId reader Faulty
5	Guna Bypass	Apr-16	TagMaster	Kent	Kent	Lenovo		Hikvision	magnetic	Hikvision		
6	titarpani	Nov-19	Biso	Biso	Biso	HP	Hikvision	Hikvision	Biso	Hikvision	Aiphone	
7	malthon	Nov-19	Biso	Biso	Biso	HP	Hikvision	Hikvision	Biso	Hikvision	Aiphone	
8	chithora	Oct-19	Biso	Biso	Biso	HP	Hikvision	Hikvision	Biso	Hikvision	Aiphone	
9	Bakoli	Nov-19	Biso	Biso	Biso	HP	Hikvision	Hikvision	Biso	Hikvision	Aiphone	
10	Mikirati Hawgaon Toll Plaza	May-20	Chainway	Na	Na	HP	CP Plus	CP Plus		CP Plus		
11	Raje	Jul-15	TagMaster	Rajdeep	Rajdeep	Dell	Hikvision	Mintron		Hikvision	Aiphone	
12	Manhth maniyari	Jul-16	TagMaster	Rajdeep	Rajdeep	Dell	Mintron	Mintron		Hikvision	Aiphone	
13	Maithi	Jul-15	TagMaster	Rajdeep	Rajdeep	Dell	Mintron	Mintron		Hikvision	Aiphone	
14	Hariabara	Jul-15	TagMaster	VaaaN	VaaaN	IBM	Hikvision	Hikvision		CP Plus	Aiphone	
15	Govindpur	Jul-16	TagMaster	Rajdeep	Rajdeep	Dell	Hikvision	Mintron		Hikvision	Aiphone	
16	ASANPUR	Jul-15	Kathrein	Sick	VaaaN	Lenovo	Hikvision	Hikvision		Hikvision	Panasonic	
17	sasaram	2017	TagMaster	Rajdeep	rajdeep	IBM	Samsung	Samsung	WeJoin	Dahua	Aiphone	Server in 2011
18	mohanla	2017	TagMaster	Rajdeep	rajdeep	IBM	Samsung	Samsung	WeJoin	Dahua	Aiphone	
19	Daffi	2017	TagMaster	Rajdeep	rajdeep	IBM	Samsung	Samsung	WeJoin	Dahua	Aiphone	
20	Mungwari	Aug-19	Biso	Biso	Biso	HP	Hikvision	Hikvision		Hikvision	Biso	
21	Ujara	Nov-19	Biso	Metro	Biso		Hikvision	Hikvision	Wejoin	Hikvision	Metro	

S.No	Plaza Name	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
22	Madai	Dec-19	Biso	Biso	Biso	HP	Hikvision			Hikvision	Biso	All ok except 1 RFID
23	Choundha	Sep-18	Star	VaaaN	Path India	IBM	Hikvision	Hikvision	Wejoin	Hikvision	Matrix	
24	Baretha or Jajau or Saiyan	Sep-18	Star	VaaaN	Path India	IBM	Hikvision	Hikvision	Wejoin	Hikvision	Matrix	
25	Rojwas	Apr-19	Feig	Kent ITES	Kent ITES	Lenovo	Hikvision	Hikvision	Magnetic	Hikvision	Aiphone	
26	Chhapra	Apr-19	Feig	Kent ITES	Kent ITES	Lenovo	Hikvision	Hikvision	Magnetic	Hikvision	Aiphone	
27	Sonway	Dec-17	TagMaster	Rajdeep	Rajdeep	Lenovo	Vivotek	Vivotek	Elka	CP Plus	Aiphone	
28	Khalghat Toll Plaza	Dec-17	TagMaster	Rajdeep	Rajdeep	Lenovo	Vivotek	Vivotek	Elka & Biso	CP Plus	Panasonic	
29	Jamli Toll Plaza	Apr-11	Star	Line	Fanteck	IBM	Bosch	Hikvision	Magnetic	Hikvision	Aiphone	
30	IDTL Toll Plaza-B	Nov-19	IDTech	Greentech ITS	Greentech ITS	HP	Hikvision	Hikvision	Sunfre	Hikvision	Aiphone	
31	IDTL Toll Plaza-A	Nov-19	IDTech	Greentech ITS	Greentech ITS	HP	Hikvision	Hikvision	Sunfre	Hikvision	Aiphone	
32	Dattigaon	Jul-18	Feig	Efkon	Efkon	Dell	Samsung	Samsung	Elka	Hikvision	Aiphone	
33	Methawada	Jul-18	Feig	Efkon	Efkon	Dell	Samsung	Samsung	Elka	Hikvision	Aiphone	All ok except 6 LPIC
34	Saliwada	Nov-19	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
35	Pandutala	Nov-19	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
36	Boharipar	Feb-20	Feig	Apurva	Sinb	Lenovo	Hikvision	Hikvision		Hikvision		
37	Khenwasaani	Aug-19	TagMaster	Banner	Toll Max	HP	Hikvision	Hikvision		Hikvision	Grand Stream	
38	Sonversa	Aug-19	Biso	Biso	Biso	HP	Hikvision	Hikvision		Hikvision	Biso	
39	Khadda	Aug-19	Biso	Biso	Biso	HP	Hikvision	Hikvision		Hikvision	Biso	

S.No	Plaza Name	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
40	Shadol	Nov-19	Kathrein	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision		Vivotek	Aiphone	All ok except 1 RFID
41	Pathoroundi	Nov-19	Kathrein	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision		Vivotek	Aiphone	
42	Majhgawan	Nov-19	Kathrein	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision		Vivotek	Aiphone	All ok except 2 AVC
43	Odaki Pipkhar	Aug-19	TagMaster	Banner	Toll Max	HP	Hikvision	Hikvision		Hikvision	Grand Stream	
44	Panihaar	Mar-18	Biso	Kent	Kent	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
45	MudKheda	Mar-18	Biso	Kent	Kent	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
46	Ramnagar	May-18	Star	Technido	Path India	IBM	Hikvision	Hikvision	Wejoin	Hikvision	Matrix	All ok except 3 AVC
47	Raksa	May-18	Star	Technido	Path India	IBM	Hikvision	Hikvision	Wejoin	Hikvision	Matrix	All ok except 3 AVC
48	Mundiyyar	May-18	Star	Technido	Path India	IBM	Hikvision	Hikvision	Wejoin	Hikvision	Matrix	
49	Panikholi	Nov-19	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
50	Pipli	Aug-19	Biso	Biso	Biso	HP	Hikvision	Hikvision		Hikvision	Biso	
51	Srirampur	Nov-19	TagMaster	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision		Vivotek	Aiphone	All ok except 2 RFID, 2 TLC
52	Gangapada\Gudipada	Nov-19	TagMaster	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision		Vivotek	Aiphone	
53	Brajarajnagar (Nuadeeh)	Mar-20	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
54	Dahalapara	Apr-20	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
55	Patgaon	Feb-20										
56	Nazirakhet	May-20										
57	Madanpur Toll Plaza	May-20										

S.No	Plaza Name	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
58	Raha	Nov-19	Kathrein	Toll Max	Toll Max	Lenovo	Hikvision	Hikvision		Vivitek	Aiphone	
59	Pasyih	Mar-19	TagMaster	Banner	Toll Expert	HP	CP Plus	CP Plus	Wejoin	CP Plus	Aiphone	
60	Lomshinong	Feb-19	TagMaster	Banner	Toll Expert	HP	CP Plus	CP Plus	Wejoin	CP Plus	Aiphone	
61	Pahammawlein	Mar-18	TagMaster	Banner	Vaaan	HP	Hikvision	Hikvision		Vivitek	Aiphone	
62	Deingpasoh	Dec-19	TagMaster	Banner	Toll Expert	HP	Unv	Unv	Wejoin	CP Plus	Aiphone	
63	Beliyad toll plaza	Jun-14	Feig	NA	Industrial Computer	HP				Hikvision	Aiphone	
64	BANSKOPA	Sep-17	Feig	Sick	HP	HP		Hikvision		Hikvision	Aiphone	
65	Rampura	Aug-15	Intermac	Sick	HP	HP		Hikvision	Rajdeep	Hikvision	Aiphone	All RFID not working
66	Laxmanath	Nov-15	Intermac	Sick	HP	HP		Hikvision	Rajdeep	Hikvision	Aiphone	All ok except 3 RFID
67	Rajchandrapur Toll Plaza	Jan-19	Star	Eikon	Eikon	HP	Unv	Hikvision		Hikvision	Aiphone	
68	Jaladhulagori toll plaza	Apr-18	Feig	Rajdeep	Rajdeep	Lenovo	Hikvision	Hikvision		Hikvision	Grand Stream	
69	Debra toll plaza	Apr-18	Feig	Rajdeep	Rajdeep	IBM	Hikvision	Hikvision		Hikvision	Seimens	
70	Balivasa	Feb-20	Biso	Intec	Kent ITES	Lenovo	Hikvision	Hikvision	Kent ITS	Hikvision	Aiphone	
71	Shibpur Plaza	Mar-20	Kathrein	Scita	Metro	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
72	Gajol	Feb-20	Kathrein	Scita	Metro	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
73	Chandermore Plaza	Mar-20	Kathrein	Scita	Metro	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
74	18th Mile Toll Plaza	Feb-20	Kathrein	Scita	Metro	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
75	Runni	Nov-19	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	

S.No	Plaza Name	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
76	Jagtara	Dec-19	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	All ok except 4 RFID, 1 AVC
77	Mashora	Dec-19	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
78	Badaiyiguda	Dec-19	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	All ok except 1 RFID, 1 LPIC
79	Tand Balidih	Dec-17	TagMaster	Radeep	Radeep	Dell		Hikvision	Wejoin	Hikvision	Aiphone	
80	Sosokhurd	Sep-19	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
81	Navasari	Nov-19	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	
82	Rasoia Dhamna	Mar-18	TagMaster	Banner	Vaaan	HP	Hikvision	Hikvision		Vivotek	Aiphone	
83	Kokpara	Dec-19	Feig	Kent ITES	Kent ITES	Lenovo	Hikvision	Hikvision	Wejoin	Hikvision	Aiphone	
84	Pundag	Nov-19	Zebra	Qualix	Qualix	HP	Unv	Unv	Wejoin	Unv	Aiphone	
85	Kothiya	Feb-20	Biso	Arya Omnitalk	Advantech	Lenovo	Hikvision	Hikvision		Hikvision	Aiphone	

D. Zone -4

1. Toll Plaza Details

- a. ETC Equipment Status overview provided for 119 toll plazas

2. Equipment Details

Equipment Details	Key Makes/OEMs of equipment
RFID Reader	3M & Star, Alien, Bisotech, Feig, Honeywell, Kathrein, Liner, OBID, OBID/STAR, Star, TagMaster, Zebra
AVCC	Additech, Arya Omnitalk, Banner, Bisotech, Captch, Efkon, Greentech ITS, Kent ITES, Metro, Rajdeep, Scita, Technido, Techsture, Toll Max, VaaaN
TLC	Additech, Advantech, Biso, Efkon, Infrovate, Kent ITES, Metro, Path India, Rajdeep, Rittal, Scita, Techsture, Toll Max, VaaaN
Server	Acer, Dell, HP, IBM, Lenovo
LPIC	CP Plus, Dahua, HIK VISION, Hikvision, Parkit, Uniview, Vivotech, Wejoin
ICS	CP Plus, Hikvision, Honeywell, Mintron, Uniview, Vivotech
Automatic Barrier	Elka, Euro, Kent, Kent ITES, Magnetic, Swaraj, VaaaN, Wejoin
NVR	Advik, CP Plus, Hikvision, Honeywell, Uniview, Vivotech
Master Intercom	AI-Phone, Bisotech, Matrix, Rajdeep

3. Toll Plaza Equipment Installation Year

Installation Year	Installation Year
2012	8
2013	1
2014	2
2016	1
2017	8
2018	31
2019	63
2020	5

4. Toll plaza Along with Equipment Make

S.No	Plaza Name	Implementat ion Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automati c Barrier	NVR	Master Intercom	Remark s
1	Kamkole	Oct-17	TagMaster	Telegra	IEI	HP	Dview	Dview	Elka	Hikvision	iPhone	
2	Mangalgi	Oct-17	TagMaster	Telegra	IEI	HP	Dview	Dview	Elka	Hikvision	iPhone	
3	Bijapur	Feb-12	TagMaster	Rajdeep	Intel	IBM	Hikvisio n	Mintron	Elka	Security	iPhone	RFID in 2018
4	NAGarhalla	Feb-12	TagMaster	Rajdeep	Intel	IBM	Hikvisio n	Mintron	Elka	Security	iPhone	RFID in 2018
5	Bellur	Feb-19	TagMaster	Greentech ITS	Greentec h ITS	NA	Hikvisio n	Hikvision	Elka	Hikvision	Greentech ITS	
6	DoddakareN Ahalli (Nelamangal a Toll)	Feb-19	TagMaster	Greentech ITS	Greentec h ITS	NA	Hikvisio n	Hikvision	Elka	Hikvision	Greentech ITS	
7	Kirasave/kad abahalli	Feb-12	Neology	Telegra	IEI	HP	Korean	Korean	Magnetic	Dview	iPhone	
8	Shanthigram a	Feb-12	Neology	Telegra	IEI	HP	Korean	Korean	Magnetic	Dview	iPhone	
9	Indalwai	Jan-13	TagMaster	Banner	Advantec h	IBM	NA	Vivotek	Magnetic	CP Plus	iPhone	
10	Kumbalam	Apr-16	TagMaster/ Linear	Rajdeep	Rajdeep	Dell	Samsu ng	Samsun g	Rajdeep	Hikvision	iPhone	RFID 15.08.18
11	Kaza	Dec-19	Feig	Kent ITS	Kent ITS	dell	Hikvisio n	Hikvision		Honeywe ll	iPhone	
12	Marur	Feb-19	Linear	Rajdeep	Advantec h	IBM	Hikvisio n	Hikvision	Wejoin	Hikvision	iPhone	
13	kasepalli	Jan-20	Linear	Rajdeep	Advantec h	IBM	Hikvisio n	Hikvision	Wejoin	Hikvision	iPhone	
14	Amakthadu	Jan-20	Linear	Rajdeep	Advantec h	IBM	Hikvisio n	Hikvision	Wejoin	Hikvision	iPhone	

S.No	Plaza Name	Implementation Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automatic Barrier	NVR	Master Intercom	Remarks
15	Halaharvi	Nov-18	Linear	Rajdeep	Advantech	IBM	Hikvision	Hikvision	Wejoin	Hikvision	iPhone	Oct-19 RFID
16	Pallempalli	Nov-19	Kathrein	Scita	Metro	Lenovo	Hikvision	Hikvision	Euro	Hikvision	iPhone	
17	NAnnuru	Nov-19	Kathrein	Scita	Metro	Lenovo	Hikvision	Hikvision	Euro	Hikvision	iPhone	
18	Chagalmarri	Nov-19	Kathrein	Scita	Metro	Lenovo	Hikvision	Hikvision	Euro	Hikvision	iPhone	
19	Chapirevula	Oct-19	Kathrein	Scita	Metro	Lenovo	Hikvision	Hikvision	Euro	Hikvision	iPhone	
20	Venkatachalam	Dec-19	Feig/STAR	Kent ITS	Kent ITS	Dell	Hikvision	HONEYWELL/HIKVISION	Magnetic	Hikvision	iPhone	
21	BudNAM	Dec-19	Feig/STAR	Kent ITS	Kent ITS	Dell	Hikvision	HONEYWELL/HIKVISION	Magnetic	Hikvision	iPhone	
22	Sullurpet	Dec-19	Feig/STAR	Kent ITS	Kent ITS	Dell	Hikvision	HONEYWELL/HIKVISION	Magnetic	Hikvision	iPhone	
23	Chinaganjam	May-20	Feig	Kent ITS	Kent ITS	IBM	Hikvision	HONEYWELL/HIKVISION	Magnetic	Hikvision		
24	Gollaprolu	May-18	Zebra/TagMaster	Scita	Infrovate	Acer	CP Plus	CP Plus	Swaraj	Advik	iPhone	03 RFID, 03 TLC, 02 ICS, 05 Barrier not working

S.No	Plaza Name	Implementat ion Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automati c Barrier	NVR	Master Intercom	Remark s
25	Vemapadu	Nov-17	Feig	Intec	Kent ITS	HP	Unv	Unv	Wejoin	Huntkey	AIPhone	
26	Unguturu	May-18	Zebra	Arya Omnitalk	Scita	Dell	CP Plus	CP Plus	Advik	Auric	AIPhone	
27	KrishNAvara m	Nov-17	Feig	Intec	Kent ITS	HP	Unv	Unv	Wejoin	Unv	AIPhone	
28	Eethakota	May-18	Zebra	Arya Omnitalk	Scita	Dell	Dahua	CP Plus	Advik	Auric	AIPhone	
29	Sadahalli/De vanhalli	May-14	TagMaster	Metro	Metro	Dell	Uniview	Uniview	Magnetic	CP Plus	AIPhone	
30	Mulbagal	Oct-18	TagMaster	Greentech ITS		HP	Vivotek	Hikvision		CP Plus	Aiphone	
31	Gaddurur	Aug-17	TagMaster	VaaaN	VaaaN	IBM	Hikvisio n	Hikvision	VaaaN	CP Plus	Aiphone	
32	Hoskote	Oct-18	TagMaster	Greentech ITS		HP	Vivotek	Hikvision		CP Plus	Aiphone	
33	Towards Bangalore Km.26.075	Nov-19	Honeywell	Techsture	Techstur e	IBM	Hikvisio n	Vivotek	Magnetic	Hikvision	Aiphone	
34	Towards Nelamangal a Km.14.875	Nov-19	Honeywell	Techsture	Techstur e	IBM	Hikvisio n	Vivotek	Magnetic	Hikvision	Aiphone	
35	Bagepalli	Aug-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
36	Chalageri	Jan-20	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
37	Hebbalu	Jan-20	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	

S.No	Plaza Name	Implementat ion Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automati c Barrier	NVR	Master Intercom	Remark s
38	Bankapur	Nov-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	All ok except 2 LPIC
39	Hattargi	Aug-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
40	Kognoli	Aug-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
41	Kannole	Dec-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
42	Harwal	Dec-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
43	Brahamarkot lu	Nov-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
44	Surathkal	Nov-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
45	Kannegala	Dec-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
46	K N Huindy	Dec-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
47	Yeddore	Dec-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
48	VanAgaram	Nov-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	
49	SV Puram	Nov-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	All ok except 1 LPIC & ICS

S.No	Plaza Name	Implementat ion Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automati c Barrier	NVR	Master Intercom	Remark s
50	Surapattu	Sep-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	All ok except 5 AVC, 1 ICS
51	NAIthur	Jul-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	
52	Mathur	Aug-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
53	(Sriperumba dur) Nemili	Feb-19	Star	Rajdeep	Path India	Dell	Hikvisio n	Hikvision		Hikvision	Rajdeep	
54	ChenNASam udram	Sep-19	Star	Technido	Path India	HP	Hikvisio n	Hikvision		Hikvision	Matrix	
55	Paranur	Nov-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
56	Athur	Jul-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	All ok except 4 AVC
57	Veeracholap uram	Dec-18	3M & Star	VaaaN	VaaaN	HP	Hikvisio n	Hikvision	VaaaN	Hikvision	Aiphone	
58	Palayam	May-19	Alien	Additech	Additech	Lenovo	Hikvisio n	Hikvision	Elka	Hikvision	Aiphone	
59	Omaller	Nov-14	Feig	Kent ITS	Kent ITS	IBM	NA	Hikvision	Kent ITES	Honeywe II	Aiphone	
60	NATHAKARAI	Dec-18	3M & Star	VaaaN	VaaaN	HP	Hikvisio n	Hikvision	VaaaN	Hikvision	Aiphone	
61	Mettupatti	Dec-18	3M & Star	VaaaN	VaaaN	HP	Hikvisio n	Hikvision	VaaaN	Hikvision	Aiphone	
62	Vijayamanga lam	Feb-19	Star	Efkon	Efkon	HP	Hikvisio n	Hikvision	Magnetic	Hikvision	Aiphone	All ok except 2 AVC, 2 ICS

S.No	Plaza Name	Implementat ion Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automati c Barrier	NVR	Master Intercom	Remark s
63	Vaiguntham	Jan-19	Star	Efkon	Efkon	HP	Hikvisio n	Hikvision	Magnetic	Hikvision	Aiphone	All ok except 2 RFID, 2 TLC, 2 AVC, 2 ICS, 2 LPIC
64	Pullur	Jan-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	
65	Konetipuram	Apr-19	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	
66	Kadthal	Nov-19	Biso	Arya OmniTalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
67	Chinthapally	Jan-19	Biso	Biso	Biso	HP	Hikvisio n	Hikvision		Hikvision	Biso	
68	Rolmamda	Mar-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	All ok except 2 TLC
69	Pippalwada	Mar-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	All ok except 2 TLC
70	Ganjai	Feb-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	All ok except 3 AVC
71	Gudur	Dec-12	TagMaster	Rajdeep	Rajdeep	Dell	NA	Mintron	Elka	Hikvision	Aiphone	
72	Muthojipet	Nov-19	Kathrein	Toll Max	Toll Max	Lenovo	Hikvisio n	Hikvision		Vivotech	Aiphone	All ok except 1 RFID
73	PoonAriman galam	Nov-19	Kathrein	Toll Max	Toll Max	Lenovo	Hikvisio n	Hikvision		Vivotech	Aiphone	
74	Pampampall am	Dec-18	TagMaster	Captch	Metro	IBM	Parkit	Vivotek	Elka	Hikvision	Aiphone	

S.No	Plaza Name	Implementat ion Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automati c Barrier	NVR	Master Intercom	Remark s
75	Paliyekarra	Aug-19	Alien	Scita	Scita	Dell	Dahua	CP Plus	Elka	Advik	Aiphone	
76	Thiruppache thi	Jul-19	Kathrein	Vaaan	Vaaan	Lenovo	Hikvisio n	Hikvision	Vaaan	Vivotech	Aiphone	
77	Shenbagam pettai	Dec-19	Kathrein	Vaaan	Vaaan	Lenovo	Hikvisio n	Hikvision	Vaaan	Vivotech	Aiphone	
78	Palaya Gandharvak ottai	Dec-19	Kathrein	Vaaan	Vaaan	Lenovo	Hikvisio n	Hikvision	Vaaan	Vivotech	Aiphone	
79	Lembalakudi	Jul-19	Biso	Arya Omnilalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	All ok except 5 RFID, 4 TLC, 1 LPIC
80	Lechchuma NAPatti	Aug-19	Biso	Arya Omnilalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
81	Bagalur	Aug-19	TagMaster	Vaaan	Vaaan	Lenovo	NA	Hikvision	Vaaan	CP Plus	Aiphone	
82	Salaipudhur	Jan-19	Biso	Biso	Biso	HP	Hikvisio n	Hikvision		Hikvision	Biso	All ok except 2 RFID, 2 AVC
83	NAnguneri	Jan-19	Biso	Biso	Biso	HP	Hikvisio n	Hikvision		Hikvision	Biso	All ok except 5 RFID, 4 TLC
84	Kappalur	Nov-19	Biso	Biso	Biso	HP	Hikvisio n	Hikvision		Hikvision	Biso	
85	Etturvattum	Nov-19	Biso	Biso	Biso	HP	Hikvisio n	Hikvision		Hikvision	Biso	
86	Chittampatti	Jun-19	Biso	Arya Omnilalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	

S.No	Plaza Name	Implementat ion Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automati c Barrier	NVR	Master Intercom	Remark s
87	Boothakudi	Jun-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
88	Vaghaikulam (Pudukottai)	Mar-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	All ok except 2 RFID,3 TLC
89	Millampalli	Nov-19	Kathrein	Toll Max	Toll Max	Lenovo	Hikvisio n	Hikvision		Vivotech	Aiphone	
90	Raaviguntap alli	Nov-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	
91	Mekalavarip alli	Nov-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	All ok except 1 AVC
92	Basapuram	Jul-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
93	tangatur	May-19	Zebra	Scita	Rittal	HP	Hikvisio n	Hikvision		Hikvision	Aiphone	
94	Musunur	May-19	Zebra	Scita	Rittal	HP	Hikvisio n	Hikvision		Hikvision	Aiphone	
95	Bollapalli	May-19	Zebra	Scita	Rittal	HP	Hikvisio n	Hikvision		Hikvision	Aiphone	
96	Rapur	Sep-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	
97	DC Palli	Aug-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
98	Chintalapale m	Aug-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	
99	Buchireddyp alem	Aug-19	Biso	Arya Omnitalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	
100	BrahmaNAP alli	Feb-19	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	

S.No	Plaza Name	Implementat ion Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automati c Barrier	NVR	Master Intercom	Remark s
101	Durgamvarip alli	Jul-19	Biso	Arya Omniltalk	Advantec h	Lenovo	Hikvisio n	Hikvision		Hikvision	Aiphone	All ok except 1 RFID
102	Keesara	Dec-19	Feig	Kent ITS	Kent ITS	Dell	Hikvisio n	Honeywe ll	Magnetic	Hikvision	Aiphone	
103	Davuluru	Jun-19	Zebra	Scita	Infrovate	Dell	CP Plus	CP Plus		Advik	Aiphone	All ok except 1 RFID, 2 TLC, 1 LPIC, 2 Barrier
104	Pottipudu	Jun-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	
105	Kalaparru	Jun-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	
106	Badava	Aug-18	TagMaster	Banner	VaaaN	HP	Hikvisio n	Hikvision		Vivotech	Aiphone	
107	Gosthani gate	Dec-19	Zebra		Metro		Hikvisio n	Hikvision	Wejoin	Hikvision	Aiphone	
108	Laxmipuram	Aug-18	Feig	Kent ITS	Kent ITS	HP	Uniview	Uniview	Kent	Uniview	Aiphone	All ok except 4 AVC not installed
109	Bellupada	Aug-17	Feig	Kent ITS	Kent ITS	HP	Uniview	Uniview	Kent	Uniview	Matrix	All ok except 1 RFID, 1 LPIC, 1 Barrier
110	Chillakallu	Dec-12	Zebra	Sick	Rajdeep	IBM	Hikvisio n	Hikvision	Elka	na, DVR	Aiphone	RFID in March 2018 &

S.No	Plaza Name	Implementat ion Date	RFID Reader	AVCC	TLC	Server	LPIC	ICS	Automati c Barrier	NVR	Master Intercom	Remark s
												Server in 2016
111	Pantagi	Dec-12	Zebra	Sick	Rajdeep	IBM	Hikvisio n	Hikvision	Elka	na, DVR	Aiphone	RFID in March 2018 & Server in 2016
112	Koralphad	Dec-12	Zebra	Sick	Rajdeep	IBM	Hikvisio n	Hikvision	Elka	na, DVR	Aiphone	RFID in March 2018 & Server in 2016
113	Raikal	Nov-18	Motorola	Sick	Advantec h	HP	Vivotek	Vivotek	Magnetic	Vivotek	Aiphone	
114	Shakapur	May-19	Allen	Additech BEA	Additech	HP	Hikvisio n	Hikvision	Elka	Hikvision	Aiphone	
115	vanagari	May-18	Feig	Sick	Kent ITS	Lenovo	Hikvisio n	Hikvision	Elka	Hikvision	Aiphone	
116	shahapur	May-18	Feig	Sick	Kent ITS	Lenovo	Hikvisio n	Hikvision	Elka	Hikvision	Aiphone	
117	Hintal	May-18	Feig	Sick	Kent ITS	Lenovo	Hikvisio n	Hikvision	Elka	Hikvision	Aiphone	
118	Attibele	Jan-17	Star	Sick	Advantec h	Na	Hikvisio n	Hikvision	Elka	HP		
119	Electronic City Elevated: 1) Bangalore Up Ramp @ chainage KM 18/000	Jan-17	Star	Sick	Advantec h	Na	Hikvisio n	Hikvision	Elka	HP		