

Corrigendum no.1			
Sr. No.	RPF Page/Point/Section/ Clause No.	Old Value	New Value
1	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	Dome IP camera with night vision minimum 2MP (Fixed lens) : Minimum Range IR distance 30 mtrs with mounting kit, I/O with back box, faceplate and patch cord. Bullet IP camera with night vision minimum 2MP (Fixed lens) : Minimum Range IR distance 30 mtrs with mounting kit, I/O with back box, faceplate and patch cord.	Dome IP camera with night vision minimum 2MP (Fixed lens) : Minimum Range IR distance 30 mtrs with mounting kit. Bullet IP camera with night vision minimum 2MP (Fixed lens) : Minimum Range IR distance 30 mtrs with mounting kit.
2	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Image Sensor :Sony CMOS Sensor Bullet IP camera Image Sensor :Sony CMOS Sensor	IR Dome IP camera Image Sensor : progressive scan CMOS sensor or Aptina or XMOR Bullet IP camera Image Sensor : progressive scan CMOS sensor or Aptina or XMOR
3	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Operating System :Embedded Linux IR Bullet IP Camera Operating System :Embedded Linux	IR Dome IP camera Delete IR Bullet IP Camera Delete
4	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Min. Illumination - Color : min 0.002 Lux (F 1.2 AGC ON) B/W: min 0.001 Lux (F 1.2 AGC ON) Bullet IP camera Min. Illumination - Color : min 0.002 Lux (F 1.2 AGC ON) B/W: min 0.001 Lux (F 1.2 AGC ON)	IR Dome IP camera Color : between 0 Lux to 0.01 lux B/W: between 0 Lux to 0.005 lux Bullet IP camera Color : between 0 Lux to 0.01 lux B/W: between 0 Lux to 0.005 lux
5	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP Camera Lens: Max 2.8 mm, Angle of View min. 95.2 IR Bullet IP Camera lens: Max. 4mm,Angle of View min. 86.5	IR Dome IP Camera Lens: Fixed lens 2.8 mm/3.6mm/6mm/8mm (as suitable for location to cover preferred area) IR Bullet IP Camera : Lens: Fixed lens 2.8 mm/3.6mm/6mm/8mm (as suitable for location to cover preferred area)
6	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Lens Mount : F 1.2 Bullet IP camera Lens Mount : F 1.2	IR Dome IP camera Delete IR Bullet IP Camera Delete

7	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Auto ARIS : Electronics IRIS Bullet IP camera Auto ARIS : Electronics IRIS	IR Dome IP camera Delete IR Bullet IP Camera Delete
8	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Day & Night: Dual IR Cut filter with Auto switch IR Bullet IP Camera Day & Night: Dual IR Cut filter with Auto switch	IR Dome IP camera Day & Night: IR Cut filter with Auto switch IR Bullet IP Camera Day & Night: IR Cut filter with Auto switch
9	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Video Bit rate: Min 32Kbps to 16 Mbps IR Bullet IP Camera Video Bit rate: Min 32Kbps to 16 Mbps	IR Dome IP camera Video Bit rate: Min 32Kbps to 12 Mbps IR Bullet IP Camera Video Bit rate: Min 32Kbps to 12 Mbps
10	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera EIS: Support IR Bullet IP Camera EIS: Support	IR Dome IP camera Delete IR Bullet IP Camera Delete
11	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Picture Overlay :Min 200*200,min BMP 24bit, zone configurable IR Bullet IP Camera Picture Overlay :Min 200*200,min BMP 24bit, zone configurable	IR Dome IP camera Delete IR Bullet IP Camera Delete
12	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Browser:IE, Chrome , Firefox, Safari IR Bullet IP Camera Browser:IE, Chrome , Firefox, Safari	IR Dome IP camera Browser:IE or Chrome or Firefox or Safari IR Bullet IP Camera Browser:IE or Chrome or Firefox or Safari
13	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Video Analytics :Tripwire/Double Tripwire/Perimeter/Object Abandon/Object/lost/running/loitering/parking/crowd/Audio Abnormal Detection/Video Abnormal Detection IR Bullet IP Camera Video Analytics :Tripwire/Double Tripwire/Perimeter/Object Abandon/Object/lost/running/loitering/parking/crowd/Audio Abnormal Detection/Video Abnormal Detection	IR Dome IP camera Delete IR Bullet IP Camera Delete
14	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Alarm trigger: Motion Detection /IP conflict/Port alarm/Mask alarm. IR Bullet IP Camera Alarm trigger: Motion Detection /IP conflict/Port alarm/Mask alarm.	IR Dome IP camera Alarm trigger: Motion Detection IR Bullet IP Camera Alarm trigger: Motion Detection

15	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Audio Input:1-ch Mic in IR Bullet IP Camera Audio Input:1-ch Mic in	IR Dome IP camera Delete IR Bullet IP Camera Delete
16	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Operating Condition: between -35 °C to 60 °C. IR Bullet IP camera Operating Condition: between -35 °C to 60 °C	IR Dome IP camera Operating Condition: between 0 °C to 50 °C. IR Dome IP camera Operating Condition: between 0 °C to 50 °C
17	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera Circuit Protection:Lightning and Surge protection IR Bullet IP camera Circuit Protection:Lightning and Surge protection	IR Dome IP camera Circuit Protection: Lightning and Surge protection(internal or External) IR Bullet IP camera Circuit Protection: Lightning and Surge protection(internal or External)
18	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera	IR Dome IP camera IR LEDs:SMT LED IR Bullet IP camera IR LEDs:SMT LED	IR Dome IP camera IR LEDs: Provided IR Bullet IP camera IR LEDs: Provided
19	Technical Specification Page No 68 IR Dome IP Camera Page No 70 IR Bullet IP Camera		New Clause added IR Dome IP camera Power Supply : 12 V DC $\pm 10\%$ and POE(802.3af) New Clause added IR Bullet IP camera Power Supply : 12 V DC $\pm 10\%$ and POE(802.3af)
20	Technical Specification Page No 72 NVR 4 CH Page No 74 NVR 32 CH	NVR 4 CH Incoming bandwidth: Min 40 Mbps Outgoing bandwidth: Min 40 Mbps NVR 32 CH Incoming bandwidth: Min 400 Mbps Outgoing bandwidth: Min 200 Mbps	NVR 4 CH bandwidth: Min 50 Mbps NVR 32 CH bandwidth: Min 320 Mbps
21	Technical Specification Page No 72 NVR 4 CH Page No 74 NVR 32 CH	NVR 4 CH Remote connection: Min 16 users NVR 32 CH Remote connection: Min 16 users	NVR 4 CH Remote connection: Min 10 users NVR 32 CH Remote connection: Min 16 users
22	Technical Specification Page No 72 NVR 4 CH Page No 74	NVR 4 CH Browser: IE/Firefox NVR 32 CH	NVR 4 CH Browser: IE or Firefox NVR 32 CH

	NVR 32 CH	Browser: IE/Firefox	Browser: IE or Firefox
23	Technical Specification Page No 72 NVR 4 CH Page No 74 NVR 32 CH	NVR 4 CH Internet Protocol :TCP/HTTP/MULTICAST/UPnP/DHCP/PPPoE/DDNS/FTP/NTP/HTTPS/RTSP/S MTP/SADP NVR 32 CH Internet Protocol :TCP/HTTP/MULTICAST/UPnP/DHCP/PPPoE/DDNS/FTP/NTP/HTTPS/RTSP/S MTP/SADP	NVR 4 CH Internet Protocol :TCP/HTTP//UPnP/DHCP/PPPoE/DDNS/FTP/NTP/HTTPS/RTSP/ SMTP NVR 32 CH Internet Protocol :TCP/HTTP/UPnP/DHCP/PPPoE/DDNS/FTP/NTP/HTTPS/RTSP/S MTP
24	Technical Specification Page No 72 NVR 4 CH Page No 74 NVR 32 CH	NVR 4 CH HDMI Output:1-ch Resolution :min 3840*2160/2560*1600/2560*1440 NVR 32 CH HDMI Output:1-ch Resolution :min 3840*2160/2560*1600/2560*1440	NVR 4 CH HDMI Output:1-ch Resolution :min 1920*1080 NVR 32 CH HDMI Output:1-ch Resolution :min 1920*1080
25	Technical Specification Page No 72 NVR 4 CH Page No 74 NVR 32 CH	NVR 4 CH VGA Output:1-ch Resolution : Min 1980*1080/1280*720/800*600 Adjustable Output mode, self adaptive resolution NVR 32 CH VGA Output:1-ch Resolution : Min 1980*1080/1280*720/800*600 Adjustable Output mode, self adaptive resolution	NVR 4 CH VGA Output:1-ch Resolution : Min 1920*1080 NVR 32 CH VGA Output:1-ch Resolution : Min 1920*1080
26	Technical Specification Page No 72 NVR 4 CH Page No 74 NVR 32 CH	NVR 4 CH Display split :1/4/6 NVR 32 CH Display split :1/4/9/16	NVR 4 CH Display split :1/4 NVR 32 CH Display split :1/4/8/16
27	Technical Specification Page No 72 NVR 4 CH Page No 74 NVR 32 CH	NVR 4 CH Recording resolution: Min 2752*2208/3008*2008/2408*2008 NVR 32 CH Recording resolution: Min 2752*2208/3008*2008/2408*2008	NVR 4 CH Recording resolution: Min 1920*1080 NVR 32 CH Recording resolution: Min 1920*1080
28	Technical Specification Page No 72 NVR 4 CH Page No 74 NVR 32 CH	NVR 4 CH Video Analytics(VCA): Tripwire/Double Tripwire/Perimeter/Object Abandon/Object lost/running/loitering/parking/crowd/duty detection/face detection/people counting/Audio Abnormal Detection. NVR 32 CH Video Analytics(VCA): Tripwire/Double Tripwire/Perimeter/Object Abandon/Object lost/running/loitering/parking/crowd/duty detection/face detection/people counting/Audio Abnormal Detection.	NVR 4 CH Video Analytics(VCA): Tripwire/intrusion detection/ Object lost. NVR 32 CH Video Analytics(VCA): Tripwire/intrusion detection/Object lost.
29	Technical Specification Page No 72 NVR 4 CH Page No 74 NVR 32 CH	NVR 4 CH Trigger Recording Manual/auto/Motion Detection/Port Alarm/VCA alarm/video occlusion NVR 32 CH Trigger Recording Manual/auto/Motion Detection/Port Alarm/VCA alarm/video occlusion	NVR 4 CH Trigger Recording Motion Detection NVR 32 CH Trigger Recording Motion Detection

30	Technical Specification Page No 72 NVR 4 CH Page No 74 NVR 32 CH	Record Tag Support	NVR 4 CH Delete NVR 32 CH Delete
31	Technical Specification Page No 81	CAT 6 WIRING WITH CASING CAT 6 WIRING WITH CASING Make/model (specify) Armoured CAT 6 Cable: Armoured CAT 6 with casing caping /pvc pipe/flexible pvc pipe as on actual for Internal cabling, Armored CAT 6 cable designed for external use with direct burial and/or Aerial use. fully water-blocked. Steel/aluminum Wire Armored. UL tested/listed. Supplied meter marked for easy installation	Armoured CAT 6 Cable Armoured CAT 6 Cable Make/model (specify) Armoured CAT 6 Cable: Armoured CAT 6 with casing caping /pvc pipe/flexible pvc pipe as on actual for Internal cabling/ Armored CAT 6 cable designed for external use with direct burial and/or Aerial use. If same cable used for Aerial than proper support needs to be provided with proper grounding. Supplied meter marked for easy installation
32	Technical Specification Page No 81 Fibre Optic Cable	Fiber optic Cable: 6 Core Single Mode Armoured Fiber Optic Cable supporting cctv surveillance. Corning Single-Mode Direct Burial and aerial Armoured Fiber Optic Cable. Single-armor construction for additional crush and rodent protection. High-strength ripcord under armor for easy stripping. Gel-free design is fully water blocked, making cable access easy and requiring no cleanup.	Fiber optic Cable: 6 Core Single Mode Armoured Fiber Optic Cable supporting CCTV surveillance. Corning Single-Mode Direct Burial and aerial Armoured Fiber Optic Cable. Single-armor construction for additional crush and rodent protection. High-strength ripcord under armor for easy stripping. If same cable used for Aerial than proper support needs to be provided with proper grounding.
33	Qualification Criteria Page no 67	The OEM for CCTV camera should have at least 25 employees on its payroll in India. This is to justify that CCTV OEM has made investment in India and is serious about its business in India which will ensure long term after sales support and spare support from the OEM.	The OEM for CCTV camera should have at least 20 employees on its payroll in India. This is to justify that CCTV OEM has made investment in India and is serious about its business in India which will ensure long term after sales support and spare support from the OEM.
34	Qualification Criteria Page no 67	OEM should have CE/FFC/ROHS Certification.	OEM product should have CE/FCC/ROHS certification
35	Qualification Criteria Page no 67	A bidder can be a single Company registered in India under companies Act 1956 or Companies Act 2013, or Firm registered with Registrar of firms and societies in India who fulfills the eligibility criteria.	A bidder can be a single Company or a consortium of maximum 2 Companies, registered in India under companies Act 1956 or Companies Act 2013, or the partnership Act,1932 or Firm registered with Registrar of firms and societies in India who fulfills the eligibility criteria. Supporting Documents Required Certificate of Incorporation or Memorandum of Association & Article of Association. One of the consortium members responsible for performing key components of the contract shall be designated as Lead Bidder. Evidence of this authorization shall be provided by

			submitting Power of Attorney signed by legally authorized signatories of all consortium members and consortium Agreement .
36	3.1.2 Qualification of the Bidder Page No. 12	-	<p>Bids submitted by a consortium of two firms as partners, if allowed as per stipulated Qualification Requirements in Section – 3, shall comply with the following requirements:</p> <p>(i) The bid shall be signed so as to be legally binding on all the members of consortium.</p> <p>(ii) One of the members of consortium responsible for performing a key component of the contract shall be designated as lead bidder; this authorization shall be evidenced by submitting with the bid a power of attorney signed by legally authorized signatories.</p> <p>(iii) The lead bidder shall be authorized to incur liabilities and receive instructions for and on behalf of any and all members of consortium, and the entire execution of the contract, including payment, shall be done exclusively with the lead bidder, provided otherwise requested by the consortium and agreed between the MSEDCL and the lead bidder.</p> <p>(iv) All the consortium members including lead member (lead bidder), shall be jointly and severally liable for the execution of the entire contract in accordance with the contract terms.</p> <p>(v) A copy of the agreement entered into by the consortium members shall be submitted with the bid, including inter-alia delineation of responsibilities and obligations of each member of consortium.</p> <p>(vi) The consortium agreement should indicate precisely the responsibility of all members of consortium in respect of planning, design, manufacturing, supply, installation, commissioning, integration and training. All members of consortium should have active participation in execution during the currency of the contract. This should not be varied/modified subsequently without prior approval of the MSEDCL. The composition or the constitution of the consortium shall not be altered without the prior written consent of</p>

			the MSEDCL. (vii) A firm can be a member of only one consortium; bids submitted by consortia including the same firm as partner will be rejected.
37	ANNEXURES & FORMS Page no 91	-	New Annexures & Forms added. Please refer revised RPF. Page no 87 Consortium Agreement format and form of power of attorney for consortium
38	2.3 Scope of Work Page no .9	-	New Clause added.Please refer revised RPF. Page no.9
39	3.1.2 Qualification of the Bidder (b) Page no13	-	Deleted
40	3.4.8 DEMONSTRATION	-	New Clause added.Please refer revised RPF .Page no.23
41	5(E) Role of MSEDCL Page no 37	-	Deleted
42	5(F) Supply of product,implementation,G o-live and stabilization Page no 38	-	Deleted
43	5(I) Product upgrades Page no 40	-	Deleted
44	5(J) Inspection and tests Page no 41	-	5.7 Inspection Cum Installation, Commissioning And User Acceptance Tests (UAT). New Clause added. Please refer revised RPF Page no.39
45	5(K) User Acceptance tests(UAT) and Conference room Pilot (CRP) Activities Page no 41	-	Deleted
46	5(L) Partial User Acceptance Page no 42	-	Deleted
47	5(M) Go-Live and Stabilization Page no 43	-	5.8 Stabilization New Clause added. Please refer revised RPF Page no.39
48	5(N) Defect Liability Page no 44	-	Deleted
49	5(O) Performance gurantee Page no 45	-	Clause is revised .Please refer revised RPF Page no.39
50	5(U) Performance gurantee /Security deposit Page no 49	-	Clause is revised .Please refer revised RPF Page no.44

51	5(AA) Liquidated Damages Page no 53	-	Clause is revised .Please refer revised RPF Page no.48
52	5(DD) Billing and Payment terms Page no 54	-	Clause is revised .Please refer revised RPF Page no.49
53	Appendix#1 Qualification Criteria Page no 66	-	Clause is revised .Please refer revised RPF Page no.61-62
54	Appendix#2 Technical Requirements Specification(All Items) Page no 68	-	Clause is revised .Please refer revised RPF Page no.63-75
55	Annexure#3 CCTV Surveillance System Locations Page no.94	-	Zone of Pen Circle changed from Kalyan to Bhandup(Sr.No.65 to 91) Page no.93-94
56	Annexure#4 Indicative Bill of Material Page no 100	-	Clause is revised .Please refer revised RPF Page no.95-96
57	Form #5 Price Schedule Page no 106	-	Clause is revised .Please refer revised RPF Price Schedule
58	Form #7 Form of Letter of Award Page no 112	-	Clause is revised .Please refer revised RPF Page no.105
59	Form #8 Form of Contract Agreement Page no 113	-	Clause is revised .Please refer revised RPF Page no.107
60	Form #9 Declaration Sheet Page no 116	-	Clause is revised .Please refer revised RPF Page no.111
61	Form#10 Format for Hardware Specification Page no 117	-	Deleted
62	Form#11 Format for Software Specification Page no 118	-	Deleted
63	Form#12 Format for License Specification Page no 119	-	Deleted
64	Annexure # 5 : Proposed CCTV Architecture for MSEDCL Store Centers	-	New Annexure added. Please refer revised RPF Page no.97
65	Annexure # 6 : Proposed CCTV Architecture for MSEDCL Substations/Switching Stations	-	New Annexure added. Please refer revised RPF Page no.98