

TERMS OF REFERENCE

SUPPLY, DELIVERY, INSTALLATION, CONFIGURATION, TESTING AND COMMISSIONING OF PROJECT AURORA: QUEZON CITY GOVERNMENT UNIFIED CCTV COMMAND SYSTEM PHASE THREE

I. RATIONALE AND BACKGROUND

The vision of Quezon City Government is to sustain itself as a Quality Community, a progressive and peaceful, clean and orderly place, conducive and hospitable to living, employment, and business; this is consistent with the City Government's pursuit of United Nations Sustainable Development Goal (SDG) No.11, to make cities and human settlements inclusive, safe, resilient, and sustainable.

To achieve a safer and more resilient city, the Quezon City Government and Quezon City Police District (QCPD) invest on Peace and Order Modernization Programs, one of which is augment additional CCTV Street Cameras in strategic areas within the City's jurisdiction. These cameras are on top of the existing Eight Hundred Seventeen cameras.

Through these technological advances, it will both prevent crimes from happening, can quickly solve criminal cases, and investigate accidents within material evidence. It will be easy for the Quezon City Government and Quezon City Police District to provide correct information relative to the investigation and non-classified information for other people.

II. PROJECT DESCRIPTION

Project Aurora: Quezon City Government Unified Command System Phase 3 is a premiere plan of the Local Government and QCPD that requires additional 1,200 street cameras with the inter-connectivity of the listed priority QC establishments and a complete set-up of an IP-Based Surveillance CCTV System over a private and secured network in Quezon City on top of the existing procured and installed under Phase One and Two with Thirty Two entry exit points.

III. OBJECTIVES

To ensure peace, orderliness and public safety through an IP-Based Surveillance System featuring additional 1,200 street cameras installed in strategic locations with the inter-connectivity of the listed priority QC establishments within the area of responsibility of Quezon City Local Government.

IV. PROJECT SCOPE OF WORK

This section defines the extent and coverage of the requirement for “PROJECT AURORA (SAFE CITY), PHASE 3”. New CCTV Cameras will be deployed along the streets of Quezon City and in some priority facilities to augment the existing cameras as defined in the report summary. The project shall include the inter-connectivity of new and existing cameras from Phase 1 & 2 of Project Aurora, existing cameras in the priority establishments to the QC City Hall and QCPD surveillance command center and cloud monitoring platform.

BREAKDOWN OF SCOPE AS FOLLOWS;

Supply and installation of cables and conduits including but not limited to the following:

- Supply and installation of 1200 sets of Street Cameras. These includes 900 sets of 8MP IP Cameras and 300 sets of 8MP IP PTZ Cameras.
- Supply and installation of 410 sets of 5MP IP Cameras and 7 sets of IP PTZ cameras for the QC Priority Facilities.
- Supply and Installation of Smart Communication Boxes connecting street cameras to the QCPD, City Hall Command Center and other sub-command centers, via WAN, and/or via wireless internet connection.
- Supply and Installation of Remote Gateways connecting QC Priority Facilities to the QCPD & City Hall Command Center, via existing Internet, and/or wireless internet connection.
- Supply and Installation of cables/conduits for street cameras.
- Supply and Installation of cables/conduits for QC priority facilities
- Supply and installation of the core switch and closed data cabinet including UPS, copper and fiber patch panels, patch cords, and other peripherals needed in the QC priority facilities.
- Supply and installation of monitors to some QC priority facilities.
- Configuration, testing, and commissioning of all additional equipment and devices for inter-connectivity to QC City Hall and QCPD command centers.
- Existing network infrastructure, passive and active equipment for existing system may be utilized. The network contractor of the priority facility shall be responsible for repairing connectivity to the nearest IDF for existing systems provided by QCG if any is available.
- Connectivity of all offered cameras shall be via network transmission.
- The QCG will provide the 220VAC Mains whenever and wherever needed, with the proper lightning arresters and grounding

REPORT SUMMARY

QC PRIORITY FACILITIES		EQUIPMENT AND DEVICES			
LOCATION	BUILDING / AREA COVERED BY CCTV SYSTEM / AREA	TYPE OF CAMERAS		REMOTE GATEWAY	MONITOR
		FIXED BULLET	PTZ		
Amoranto Sports Complex	Perimeter and Common Areas in the old compound	8	0	2	1
Amoranto Sports Complex	New Compound, Building and Admin Offices	8	0	2	1
Bag-Bag Public Cemetery	Perimeter and Common Areas	8	0	2	1
Novaliches District Hospital	Hospital Building and Perimeter	8	0	2	1
Rosario Maciang Bautista General Hospital	Hospital Building and Perimeter	8	0	3	1
COMELEC-NCR Building	Security Perimeter	8	0	1	1
COMELEC-NCR Building	Perimeter and Building	8	0	1	1
District 1 Action Center/Offices	Inside the building	8	0	1	1
District 2 Action Center/Offices	Inside the building	8	0	1	1
District 3 Action Center/Offices	Inside the building	66	0	4	4
District 4 Action Center/Offices	Perimeter and Common Areas	8	0	2	1
District 4 Action Center/Offices	QC Health Department Warehouse and Inside the building	8	0	1	1
District 5 Action Center/Offices	Inside the building and perimeter areas	8	0	2	1
District 6 Action Center/Offices	Inside the building	8	0	1	1
Quezon City General Hospital and Medical Center	Inside the building	8	0	3	1
Quezon City University Complex	OVER-ALL COMPOUND	0	0	3	1
Quezon City University Complex	Admin Bldg	23	1	0	0
Quezon City University Complex	Bautista Bldg	8	2	0	0
Quezon City University Complex	Belmonte Bldg	18	0	0	0
Quezon City University Complex	Korea-Phil Coop Bldg	20	1	0	0
Quezon City University Complex	Metal Casting Bldg	8	0	0	0
Quezon City University Complex	TECHVOC Bldg	29	2	6	6
Quezon City University Complex	7-Storey Academic Bldg	40	1	0	0
Quezon City University (IBP)	Perimeter and Building	20	0	1	1
Quezon Memorial Circle	Perimeter and Common Areas	66	0	6	6
QCPD Camp Karingal	IC3	0	0	0	21
Total		410	7	44	53

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
D. Tuazon cor Ma. Clara	1	0
G. Araneta Ave cor N.S. Amoranto	0	1
G. Araneta Ave cor N.S. Amoranto	1	0
N.S. Amoranto Sr. St cor G. Araneta	0	1
G. Araneta cor Calamba St.	1	0
G. Araneta cor Calamba St.	0	1
G. Araneta Infront of TrueWeight Inc.	0	1
G. Araneta Infront of TrueWeight Inc.	1	0
Mayon st Cor Dapitan	0	1
Mayon st Cor Dapitan	1	0
Mayon St cor Ma. Clara St	1	0
Mayon St cor Ma. Clara St	1	0
Mayon St cor Simoun St	1	0
Mayon St cor Simoun St	1	0
Mayon St cor Sen Mariano J. Cuenco	0	1
Mayon St cor Sen Mariano J. Cuenco	1	0
Edsa cor Victoneta T.M SB	0	1
Edsa cor Victoneta T.M SB	1	0
Sgt. Rivera Cor Tangali	1	0
Sgt. Rivera Cor Tangali	1	0
Sgt. Rivera Cor Tagdali	1	0
Sgt. Rivera Cor Obudan	1	0
Sgt. Rivera Cor D. Tuazon	1	0
Sgt. Rivera Cor D. Tuazon	1	0
Sgt. Rivera cor Biak na Bato	0	1
Sgt. Rivera cor Biak na Bato	1	0
A. Bonifacio Cor Sto. Cristo	0	1
A. Bonifacio Cor Sto. Cristo	1	0
PS01 A. Bonifacio Cor Mauban	0	1
A. Bonifacio Cor Mauban	1	0
San Jose Elem Sch.	1	0
San Jose Elem Sch.	1	0
A. bonifacio ave cor Dome	1	0
A. bonifacio ave cor Dome	1	0
EDSA cor The CloverLeaf	1	0
EDSA cor The CloverLeaf	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
The Cloverleaf Cor Old Samson	0	1
Edsa cor Oliveros Dr	0	1
Edsa cor Oliveros Dr	1	0
Edsa going to East service Rd	0	1
Edsa going to East service Rd	1	0
Del Monte cor Banawe	1	0
Del monte cor Banawe	1	0
Del Monte cor D Tuazon	1	0
Q ave cor cordillera SB	0	1
Q ave cor cordillera SB	1	0
Q ave cor cordillera NB	0	1
Q ave cor cordillera NB	1	0
Q ave cor cordillera SB B	1	0
G Araneta cor Ma clara SB	0	1
G Araneta cor Ma clara SB	1	0
G Araneta infront Asia Builders	1	0
Maria Clara St cor Sto Domingo Ave	0	1
Maria Clara St cor Sto Domingo Ave	1	0
V Ventura cor toktocan	1	0
Del monte cor Sto domingo Ave	1	0
A Bonifacio cor Bo Galino	0	1
A Bonifacio cor Bo Galino	1	0
A Bonifacio cor Selecta Dr	0	1
A Bonifacio cor Selecta Dr	1	0
Balingasa Elem Sch	1	0
Kamgin Rd cor Toctokan	1	0
Felix Bridge cor Capoas	1	0
W Riverside cor Pat Senador	1	0
Del Monte Ave cor Mayon St	1	0
Del Monte Ave cor Mayon St	1	0
Del Monte Ave cor Mayon St	1	0
Del Monte Ave cor Mayon St	1	0
Del Monte Ave cor Mayon St	0	1
G roxas St. cor A bonifacio	1	0
G roxas St. cor A bonifacio	1	0
Mayon cor Sta Catalina	1	0

QC STREET CAMERAS		EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA		
	VF	PTZ	
Mayon cor Sta Catalina	1	0	
Mayon St cor Apo St	1	0	
Mauban cor C3	1	0	
Del monte cor Sto Domingo Ave	1	0	
Del monte cor G. Araneta SB	0	1	
Del monte cor G. Araneta SB	1	0	
Del monte cor G. Araneta NB	0	1	
Del monte cor G. Araneta NB	1	0	
40. Mayon St. cor Calamba St	1	0	
Kanlaon cor DM. Agregado	1	0	
Kanlaon cor DM Agregado	1	0	
Mayon St. cor Don manuel agregado	1	0	
Mayon St. cor Don manuel agregado	1	0	
Spkr Perez cor DM Agregado	1	0	
Spkr Perez cor DM Agregado	1	0	
Mayon cor Scout Oscar M. Alcaraz	1	0	
Mayon cor Scout Oscar m. alcaraz	1	0	
Mayon St cor Malaya	1	0	
Mayon St cor Malaya	1	0	
Mayon St cor Malindang	1	0	
Mayon St cor Malindang	0	1	
Eulogio Rod Highsch	1	0	
Eulogio Rod Highsch.	1	0	
PS01 Biak na Bato Cor Ma. Claro	1	0	
PS01 Biak na Bato Cor Ma. Clara	1	0	
PS01 Biak na Bato Cor Dapitan	1	0	
PS01 Biak na Bato Cor Dapitan	1	0	
Q. Ave cor Banawe st NB	1	0	
Q. Ave cor Banawe st NB	1	0	
Banawe cor Kaliraya Rd	0	1	
Banawe cor Kaliraya Rd	1	0	
Banawe cor Kaliraya Rd	1	0	
Maria Clara cor Laloma	1	0	
Nicanor Roxas St cor Blumentritt Rd	1	0	
Nicanor Roxas St cor Blumentritt Rd	1	0	
Blumentritt Rd cor Dapitan	1	0	

QC STREET CAMERAS	LOCATION	TYPE OF CAMERA	
		VF	PTZ
	Halcon cor Ma clara St	1	0
	Simoun cor Halcon	1	0
	Calamba cor Calavite	1	0
	EDSA Caloocan	1	0
	EDSA Balintawak Park	1	0
	EDSA Balintawak Park	1	0
	Blumentritt cor Calavite	1	0
	Blumentritt Rd cor N S Amoranto St St	1	0
	Blumentritt Rd cor N S Amoranto St St	1	0
	A Bonifacio cor Calavite	1	0
	Blumentritt Rd cor Don Manuel Agregado	1	0
	FPJ Ave cor cooper St	1	0
	FPJ Ave cor San Francisco	1	0
	FPJ Ave cor San Francisco	0	1
	FPJ Ave cor E Riverside	1	0
	FPJ Ave cor E Riverside	1	0
	Q Ave cor Dr. Gracia St	0	1
	Q Ave cor Dr. Gracia St	1	0
	Q Ave cor Dr. Gracia St	1	0
	Q Ave cor Sci Chuaboco	0	1
	Q Ave cor Sci Chuaboco	1	0
	EDSA Infront of Apostolic Catholic Church	0	1
	EDSA Infront of Apostolic Catholic Church	1	0
	Edsa cor Veterans Vill	1	0
	Dangay cor Bantalanpin	1	0
	FPJ cor Baker	1	0
	FPJ Ave cor EDSA	1	0
	FPJ Ave cor EDSA	1	0
	FPJ Ave cor M.H Del Pilar	0	1
	FPJ Ave cor M.H Del Pilar	1	0
	FPJ Ave cor De Jesus	1	0
	FPJ Ave cor De Jesus	1	0
	FPJ Ave cor De Vera	1	0
	FPJ Ave cor De Vera	0	1
	Del Monte cor Coruna	0	1
	Del Monte cor Coruna	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Coruna cor wayan St	1	0
Coruna cor wayan St	1	0
Valencia cor Florencia Rd	1	0
Valencia cor Florencia Rd	1	0
Cong. Calalay Elem Sch	1	0
Cong. Calalay Elem Sch	1	0
Del Monte Ave cor Ilaw	1	0
Del Monte Ave cor Judge Juan Luna St	1	0
Del Monte cor Aragon	1	0
Del Monte cor Aragon	1	0
M.H Del Pilar cor West River Side	1	0
Del Monte Ave cor Sorsoagon	1	0
Del Monte Ave cor Guevarra	1	0
Baler cor Judge Juan Luna St	1	0
Baler cor Judge Juan Luna St	1	0
Phil-am Brgy Hall	1	0
Phil-am Brgy Hall	1	0
Judge Juan Luna cor Bayaya	1	0
Judge Juan Luna cor Bayaya	1	0
Baler cor West Ave	0	1
Baler cor West Ave	1	0
Bulacan cor West Ave	0	1
Bulacan cor West Ave	1	0
Baler Cor Miller Ave	1	0
Mother Ignacia cor Sct. Albano	0	1
Mother Ignacia cor Sct. Albano	1	0
Mother Ignacia cor Albano	1	0
T. Morato cor Sct. Albano	1	0
T. Morato cor Sct. Albano	1	0
Sgt. Esguerra cor Sct. Albano	0	1
Sgt. Esguerra cor Sct. Albano	1	0
Sgt. Esguerra cor Sct. Albano	1	0
Quirino cor Sagitarus	1	0
Quirino cor Sagitarus	1	0
Quirino cor J.P.Ramoy	1	0
Quirino cor J.P.Ramoy	0	1

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Quirino cor J.P. Ramon	1	0
Barangay Talipapa	0	1
Barangay Talipapa	1	0
Barangay Talipapa	1	0
Quirino cor piko	1	0
Quirino cor piko	1	0
Mindanao Ave cor Quirino going Ilalim	0	1
Mindanao Ave cor Arty 2	0	1
Mindanao Ave cor Arty 2	1	0
Mindanao cor Quirino SB	0	1
Mindanao cor Quirino SB	1	0
Mindanao cor Quirino	1	0
Mindanao cor Quirino NB	1	0
Mindanao cor Katipunan St	0	1
Mindanao cor Katipunan St	1	0
Mindanao cor Quirino	1	0
Mindanao cor Quirino NB	1	0
Tandang Sora cor Venus St	0	1
Tandang Sora cor Venus St	1	0
T. Sora cor Banlat Rd	1	0
T. sora cor Banlat Rd	1	0
Venus cor Earth	1	0
Howmart cor Quirino	0	1
Howmart cor Quirino	1	0
Quirino cor Banana Is	1	0
Quirino cor Banana Is	1	0
Quirino cor TSCruz Subdivision	0	1
Quirino cor TSCruz Subdivision	1	0
Quirino cor Rodriguez Dr	1	0
Quirino cor Rodriguez Dr	1	0
Quirino cor Maximina	0	1
Quirino cor Maximina	1	0
Quirino cor Leland Dr	1	0
Quirino cor Leland Dr	1	0
Quirino west service road Ramp	0	1
Quirino west service road Ramp	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Congressional cor Brillante	1	0
Congressional cor Pines St	0	1
Congressional cor Pines St	1	0
Congressional cor Jupiter	0	1
Congressional cor Jupiter	1	0
Congressional cor Clarion Lily St	0	1
Congressional cor Clarion Lily St	1	0
Congressional cor Clarion Lily St	1	0
Congressional cor Virginia	1	0
Congressional cor Virginia	1	0
Congressional cor Virginia	1	0
Congressional cor Mindanao	0	1
Congressional cor Mindanao	1	0
Congressional cor Mindanao	1	0
Congressional cor Mindanao	1	0
Congressional cor Mindanao	1	0
Congressional cor Mindanao	1	0
Congressional cor Mindanao	1	0
PS01 Brgy BalonBato East Srvc Rd	0	1
PS01 Brgy BalonBato East Srvc Rd	1	0
Bahay Toro Ave cor Campanula	1	0
Bahay Toro Ave cor Campanula	1	0
West Service Rd	0	1
PS01 East Srvc Rd	0	1
PS01 East Srvc Rd	1	0
Quirino cor Belton Dr	0	1
Quirino cor Belton Dr	1	0
Quirino cor The Junction Place	0	1
Quirino cor The Junction Place	1	0
Quirino cor The Junction Place	1	0
Quirino cor Kalapati St	0	1
Quirino cor Kalapati St	1	0
Quirino cor Del Mundo	1	0
EDSA cor Victoneta T.M NB	1	0
EDSA cor Victoneta T.M NB	0	1
Road 20 cor Spring Dr	1	0
Road 20 cor Spring Dr	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
	TYPE OF CAMERA	
	VF	PTZ
Road20 cor Delos	1	0
Road20 cor Delos	1	0
General Ave cor Assistant Rd	0	1
General Ave cor Assistant Rd	1	0
General Ave cor Assistant Rd	1	0
Howmart Rd cor F.Carlos	1	0
Mindanao cor old Saryo Rd SB	1	0
Mindanao cor Science Rd	0	1
Mindanao cor Science Rd	1	0
Mindanao cor Rosal St B	1	0
Mindanao cor MWSS Service Rd	0	1
Mindanao cor MWSS Service Rd	1	0
Mindanao cor Don Jose St. NB	0	1
Mindanao cor Don Jose St. NB	1	0
Mindanao cor Don Jose St	1	0
Engineering Rd cor Branches	1	0
Mindanao Tullahan Br.	1	0
Mindanao Tullahan Br.	1	0
Mindanao Tullahan Br.	1	0
Mindanao Tullahan Br.	1	0
Gen Luis cor Samonte	1	0
Gen Luis cor Samonte	1	0
Quirino cor Jordan Subd	1	0
Quirino Hwy cor Dumalay	1	0
Quirino Hwy cor Dumalay	1	0
Quirino infront of Best Link College of the Phils	0	1
Quirino infront of Best Link College of the Phils	1	0
Quirino Hwy cor Greenfield1 Sub	1	0
Quirino Hwy cor Greenfield1 Sub	1	0
Katipunan Ave cor Magsaysay	0	1
Katipunan Ave cor Magsaysay	1	0
Katipunan Ave cor E.Berkely	1	0
Katipunan cor Samonte	0	1
Katipunan cor Samonte	1	0
Millionaire Subd. Cor Susano	1	0
Quirino cor Sarmiento	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Police Station 4	1	0
Police Station 4	1	0
Quirino cor Urbano Rd	1	0
Quirino cor Urbano Rd	0	1
Katipunan cor King Ferdinand St	1	0
Gen. Luis cor Dona Rosario	1	0
Gen Luis cor Ambrosia	0	1
Gen Luis cor Ambrosia	1	0
Gen Luis cor Ambrosia	1	0
Queen Ave cor Bistekville 16	1	0
Queen Ave cor Bistekville 16	1	0
San Dionisio cor Queen Rd	1	0
San Dionisio cor Queen Rd	1	0
San Dionisio Tullahan River Bridge	1	0
San Dionisio Tullahan River Bridge	1	0
Pablo Dela Cruz cor Magsaysay Ave	1	0
Pablo Dela Cruz cor Magsaysay Ave	1	0
Violet St cor Gozum St	1	0
Quirino cor Forest Hill Dr	0	1
Quirino cor Forest Hill Dr	1	0
Don Juho Gregorio cor Richland Ave	1	0
Don Juho Gregorio cor Richland Ave	1	0
Don Juho Gregorio cor F Delos Santos St	1	0
Don Juho Gregorio cor F Delos Santos St	1	0
Quirino Hwy near Marcosin St.	0	1
Quirino Hwy near Marcosin St.	1	0
Pablo Dela Cruz cor Rainbow St.	1	0
Pablo Dela Cruz cor Rainbow St.	1	0
P.Dela Cruz cor Diamond Ave	0	1
P.Dela Cruz cor Diamond Ave	1	0
Quirino cor S Francisco	0	1
Quirino cor S Francisco	1	0
Brgy BagBag	1	0
Brgy BagBag	1	0
Gen. Luis cor San Ildefonso	1	0
Gen. Luis cor San Ildefonso	1	0

QC STREET CAMERAS		EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA		
	VF	PTZ	
Regalado cor Buick	1	0	
Regalado Ave cor Dalma Ave	1	0	
Police station 5	0	1	
Police station 5	1	0	
Commonwealth cor Valiant	0	1	
Commonwealth cor Valiant	1	0	
Republic Ave cor Visayas Ext	0	1	
Republic Ave cor Visayas Ext	1	0	
Republic Ave cor naval St	1	0	
Don Julio Gregorio Cor Naval St	1	0	
Republic Ave cor Sampaguita St	0	1	
Republic Ave cor Sampaguita St	1	0	
Regalado Ave cor Republic Ave	1	0	
Republic cor Martinez St	1	0	
Republic cor Martinez St	1	0	
Dahlia cor Lalac	1	0	
Commonwealth cor Camaro St	0	1	
Commonwealth cor Camaro St	1	0	
Common cor Dona Carmen Ave NB	1	0	
Common cor Dona Carmen Ave NB	1	0	
Commo Cor Winston	1	0	
Dahlia cor Chestnut	1	0	
Commonwealth cor Atherton	0	1	
Commonwealth cor Atherton	1	0	
Commonwealth cor Regalado Ave	1	0	
Commonwealth cor Regalado Ave	1	0	
Commonwealth cor Regalado Ave	0	1	
Commonwealth cor Regalado Ave	1	0	
Regalado cor Bristol St	0	1	
St Philip St cor G. De Leon	1	0	
IBP Rd cor Kahusugan	0	1	
IBP Rd cor Kahusugan	1	0	
IBP Rd cor Kahusugan	1	0	
IBP Rd cor Kahusugan	1	0	
Payatas Rd cor H.B Soliven	0	1	
Payatas Rd cor H.B Soliven	1	0	

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Commonwealth cor Odigal FB	0	1
Commonwealth cor Odigal FB	1	0
Commonwealth cor Odigal FB	1	0
Commonwealth cor Odigal FB	1	0
Commonwealth cor Pacamara St	1	0
Commonwealth cor Pacamara St	1	0
Common cor T.Sora SB	0	1
Common cor T.Sora SB	1	0
Common cor T.Sora SB	1	0
Commonwealth cor Luzon Ave (Pure Gold Commonwealth)	0	1
Commonwealth cor Luzon Ave (Pure Gold Commonwealth)	1	0
Congressional infront of Precious PAWS	1	0
Congressional infront of Precious PAWS	0	1
Congressional cor Daimon St. NB	0	1
Congressional cor Daimon St. NB	1	0
Congressional cor Mira-mila Homes	0	1
Congressional cor Mira-mila Homes	1	0
Luzon Common FlyOver Ramp NB	0	1
Luzon Common FlyOver Ramp NB	1	0
Corazon Elem School	1	0
Corazon Elem School	1	0
IBP Rd cor Sinagtala	1	0
Batasan Rd cor Everlasting	1	0
Batasan Rd cor Everlasting	1	0
PS06 Litex Rd	1	0
PS06 Commo cor Litex	1	0
Litex Road going to Payatas	1	0
Litex Road going to Payatas	1	0
Commonwealth cor Don Antonio Dr	0	1
Commonwealth cor Don Antonio Dr	1	0
Commonwealth cor Don Antonio Dr	1	0
IBP Rd cor Sampaguita	0	1
IBP Rd cor Sampaguita	1	0
IBP cor Sampaguita	1	0
IBP Rd cor Filinvest Gate 2	0	1
IBP Rd cor Filinvest Gate 2	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Sampaguita cor Santan	1	0
IBP rd cor Ilang Ilang	1	0
IBP rd cor Ilang Ilang	1	0
IBP rd cor Katuparan	1	0
BRGY. Hall Batasan	0	1
San Mateo Batasan cor IBP Rd	1	0
San Mateo Batasan cor IBP Rd	1	0
IBP PS6	0	1
IBP PS6	1	0
IBP PS6	1	0
Congressional Rd cor Batasan San mateo RD	0	1
Congressional Rd cor Batasan San mateo RD	1	0
Congressional Rd cor Batasan San mateo RD	1	0
Presidential Rd cor Batasan Sam Mateo Rd	0	1
Presidential Rd cor Batasan Sam Mateo Rd	1	0
Batasan San Mateo Rd cor Dakila	0	1
Batasan San Mateo Rd cor Dakila	1	0
Katipunan Common FlyOver Ramp SB	0	1
Katipunan Common FlyOver Ramp SB	1	0
Commonwealth cor T Sora	0	1
Commonwealth cor T Sora	1	0
Tandang Sora cor Mactan St	0	1
Tandang Sora cor Mactan St	1	0
Tandang Sora cor Mactan St	1	0
Commonwealth cor Aduana	0	1
Commonwealth cor Aduana	1	0
Commonwealth cor Villa Beatriz	1	0
Commonwealth cor Villa Beatriz	1	0
Commonwealth cor Laura	1	0
Commonwealth cor Laura	1	0
Commonwealth cor Zuzuarregui St NB	0	1
Commonwealth cor Zuzuarregui St NB	1	0
Commonwealth cor Zuzuarregui St SB	0	1
Commonwealth cor Zuzuarregui St SB	1	0
Commonwealth cor Zuzuarregui St SB	1	0
Commonwealth cor Feria SouthBound	0	1

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Commonwealth cor Feria SouthBound	1	0
Feria Cor Narra St	0	1
Feria Cor Narra St	1	0
Common cor Samonte St	0	1
Common cor Samonte St	1	0
Common cor Ilang Ilang	1	0
Common cor ilang ilang	1	0
Commonwealth cor Amity	0	1
Commonwealth cor Amity	1	0
Commonwealth cor Kalayaan	1	0
Commonwealth cor Kalayaan	1	0
Commonwealth cor Kalayaan	1	0
Commonwealth cor Kasunduan	0	1
Commonwealth cor Kasunduan	1	0
IBP cor Kalinisan	1	0
Commonwealth cor Villonco	0	1
Commonwealth cor Villonco	1	0
Commonwealth cor Bicol Leyte	1	0
Commonwealth cor San Simon	0	1
Commonwealth cor San Simon	1	0
Commonwealth cor Katuparan	0	1
Commonwealth cor Katuparan	1	0
Commonwealth cor Dona Carmen Ave SB	1	0
Commonwealth cor Dona Carmen Ave SB	0	1
Payatas Rd cor Kapatiran	0	1
Payatas Rd cor Kapatiran	1	0
Pinagkaisa cor Patayas Rd	0	1
Pinagkaisa cor Patayas Rd	1	0
Sunnyside Dr cor Batasan San Mateo Rd	0	1
Sunnyside Dr cor Batasan San Mateo Rd	1	0
San Mateo Batasan Br.	1	0
San Mateo Batasan Br.	1	0
San Mateo Rd.	1	0
P. A. Bernardo cor Mataba	0	1
P. A. Bernardo cor Mataba	1	0
P. A. Bernardo cor Mataba	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Aurora cor Harvard	0	1
Aurora cor Harvard	1	0
EDSA cor Q Ave North Bound	0	1
EDSA cor Q Ave North Bound	1	0
EDSA cor Q Ave North Bound	1	0
Quezon Ave Besid Isuzu Inteco	0	1
Quezon Ave Besid Isuzu Inteco	1	0
Q Ave cor Sgt. Esguerra	1	0
Q Ave cor Sgt. Esguerra	1	0
Q Ave cor Edsa	0	1
Q Ave cor Edsa	1	0
Q Ave cor Edsa	1	0
EDSA near Q Ave U Turn Slot	0	1
EDSA near Q Ave U Turn Slot	1	0
EDSA cor Quezon Ave DILG	0	1
EDSA cor Quezon Ave DILG	1	0
EDSA cor Quezon Ave DILG	1	0
Edsa cor Aurora SB	0	1
Edsa cor Aurora SB	1	0
B Serrano cor 1st Ave	1	0
B Serrano cor 1st Ave	1	0
Mariposa cor South Rd	1	0
Mariposa cor South Rd	1	0
P Tuazon cor 18th Ave	1	0
P Tuazon cor 18th Ave	1	0
Aurora cor Notre Dame	1	0
Aurora cor La Salle	1	0
Aurora cor Albany	1	0
P Tuazon cor T Square	1	0
P Tuazon cor T Square	1	0
P Tuazon cor T Square	0	1
P Tuazon cor 8th Ave	0	1
P Tuazon cor 8th Ave	1	0
P Tuazon cor 8th Ave	1	0
P Tuazon cor 9th Ave	0	1
P Tuazon cor 9th Ave	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
P.Tuazon cor 9th Ave	1	0
15* ave cor Liberty	1	0
15* ave cor Liberty	1	0
P.Tuazon cor 15th Ave	0	1
P.Tuazon cor 15th Ave	1	0
P.Tuazon cor 15th Ave	1	0
Aurora cor Potsdam	1	0
Aurora cor Potsdam	1	0
Aurora cor 15th Ave	1	0
Aurora cor 15th Ave	1	0
Aurora cor Miami	1	0
EDSA cor Newyork Ave	1	0
EDSA cor Newyork Ave	0	1
Cambridge cor Ermin Garcia	0	1
Cambridge cor Ermin Garcia	1	0
New York cor Cambridge	1	0
New York cor Cambridge	1	0
Ermin Garcia St cor Albany	1	0
Ermin Garcia St cor Albany	1	0
Ermin Garcia St cor K-J St	1	0
Ermin Garcia St cor K-J St	1	0
EDSA cor Gen Roxas	0	1
EDSA cor Gen Roxas	1	0
Police Station 7	0	1
EDSA P Tuazon SB	0	1
EDSA P Tuazon SB	1	0
EDSA cor mayor Ignacio S. Diaz	0	1
EDSA cor mayor Ignacio S. Diaz	1	0
EDSA cor P tuazon NB	0	1
EDSA cor P tuazon NB	1	0
EDSA cor P.tuazon NB	1	0
EDSA cor Genaral MC Arthur Ave Araneta City	0	1
EDSA cor Genaral MC Arthur Ave Araneta City	1	0
EDSA cor Mian Ave	0	1
EDSAa cor Mian Ave	1	0
EDSA cor North Rd	0	1

QC STREET CAMERAS		EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA		
	VF	PTZ	
EDSA cor North Rd	1	0	
EDSA cor B Serrano Ave SB	0	1	
EDSA cor B Serrano Ave SB	1	0	
EDSA cor B Serrano Ave SB	1	0	
EDSA cor Liberty Ave SB ilalim	1	0	
EDSA cor B Serrano Ave NB	0	1	
EDSA cor B Serrano Ave NB	1	0	
EDSA cor B Serrano Ave NB	1	0	
EDSA cor Liberty Ave NB	1	0	
C. Benites cor Mariposa	1	0	
N. Domingo cor Galmore	1	0	
N. Domingo cor Galmore	1	0	
Aurora cor Madison	1	0	
Broadway ave cor 5th	1	0	
Broadway ave cor 5th	1	0	
Valencia cor N Domingo St	1	0	
Valencia cor N domingo St	1	0	
Bonny Serrano cor 18th Ave	0	1	
Bonny Serrano cor 18th Ave	1	0	
Bonny Serrano cor 18th Ave	1	0	
Bonny Serrano cor 18th Ave	1	0	
Bonny Serrano Ave cor 15th Ave	0	1	
Bonny Serrano Ave cor 15th Ave	1	0	
Bonny Serrano Ave cor 15th Ave	1	0	
Bonny Serrano Ave cor 15th Ave	1	0	
BrgyHall Socorro	1	0	
BrgyHall Socorro	1	0	
Bonny Serrano cor 13th Ave	0	1	
Bonny Serrano cor 13th Ave	1	0	
Bonny Serrano cor 13th Ave	1	0	
Bonny serrano Ave cor 20th Ave	0	1	
Bonny serrano Ave cor 20th Ave	1	0	
Bonny serrano Ave cor 20th Ave	1	0	
Katipunan Ave cor Bonny Serrano	1	0	
Katipunan Ave cor Bonny Serrano	1	0	
Katipunan Ave cor Bonny Serrano	0	1	

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Katipunan Ave cor Bonny Serrano	1	0
Katipunan Ave near Bonny Serrano U-turn Slot	0	1
Katipunan Ave near Bonny Serrano U-turn Slot	1	0
Katipunan cor P Tuazon	0	1
Katipunan cor P Tuazon	1	0
Police Station 8	1	0
Police Station 8	1	0
P Tuazon cor Lakandula	1	0
P Tuazon cor Lakandula	1	0
EDSA Santolan Annapolis MRT SB	0	1
EDSA Santolan Annapolis MRT SB	1	0
EDSA cor Anapolis	1	0
EDSA cor Anapolis	1	0
EDSA Saltolan Annapolis MRT NB	0	1
EDSA Saltolan Annapolis MRT NB	1	0
EDSA cor AFP gate3	0	1
EDSA cor AFP gate3	1	0
EDSA cor AFP Gate 4 Camp Aguinaldo	0	1
EDSAcor AFP Gate 4 Camp Aguinaldo	1	0
Katipunan Ave cor Blue Ridge-A	1	0
Katipunan Ave cor Blue Ridge-A	1	0
Elliptical cor Commonwealth	0	1
Elliptical cor Commonwealth	1	0
Commonwealth cor Elliptical	0	1
Commonwealth cor Elliptical	1	0
Masaya cor Maginghawa	1	0
Masaya cor Maginghawa	1	0
Katipunan cor Magsaysay Ave	0	1
Katipunan cor Magsaysay Ave	1	0
Katipunan cor Magsaysay Ave	1	0
Katipunan cor Magsaysay Ave	1	0
Katipunan cor CP Garcia	0	1
Katipunan cor CP Garcia	1	0
Katipunan cor CP Garcia	1	0
Katipunan Ave cor Katipunan Ext	1	0
Katipunan Ave cor Katipunan Ext	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
C5 cor Mangyan Rd	1	0
Katipunan cor CP garcia NB	1	0
Katipunan UP Town NB	0	1
Katipunan UP Town NB	1	0
Katipunan UP Town Center SB FB	1	0
Katipunan UP Town Center SB FB	1	0
C P Garcia cor Makatarungan st. (Legal Educational Board)	1	0
C P Garcia cor Makatarungan st (Legal Educational Board)	1	0
Anonas cor Tindalo	1	0
Aurora cor Erman Garcia Ave	1	0
Aurora cor Ermin Garcia Ave	1	0
Anonas cor Molave	0	1
Anonas cor Molave	1	0
XavierVille Ave cor Esteban Abada St	0	1
XavierVille Ave cor Esteban Abada St	1	0
Esteban Abada St cor Rosa Alvero	1	0
Katipunan Ave FlyOver Ramp SB	0	1
Katipunan Ave FlyOver Ramp SB	1	0
Katipunan cor Rosa Alvero	1	0
Katipunan cor Rosa Alvero	1	0
K-J St cor K-10th	1	0
Kamas Rd cor Kalayaan Ave	1	0
K-J St cor K-7th	0	1
K-J St cor K-7th	1	0
K-J St cor K-6th	1	0
K-J St cor K-6th	1	0
K-J St cor K-8th	1	0
K-J St cor K-8th	1	0
Katipunan cor B. Gonzales	0	1
Katipunan cor B. Gonzales	1	0
Katipunan cor B. Gonzales	1	0
Katipunan cor Ateneo G3	1	0
Katipunan cor Ateneo G3	1	0
Katipunan cor Prior Drive	1	0
Katipunan cor Prior Drive	1	0
Katipunan cor Prior Drive	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
	TYPE OF CAMERA	
	VF	PTZ
Katipunan cor Prior Drive	1	0
Commonwealth cor Magsaysay Ave (CHR)	0	1
Commonwealth cor Magsaysay Ave (CHR) B	1	0
Commonwealth UP Technohub NB U-turn Slot	0	1
Commonwealth UP Technohub NB U-turn Slot	1	0
Maginhawa cor Magiting	1	0
245. Maginhawa cor Magiting	1	0
Commonwealth cor Ylanan st	0	1
Commonwealth cor Ylanan st	1	0
Kalayaan cor Mayaman	0	1
Kalayaan cor Mayaman	1	0
Kalayaan cor Mayaman	1	0
Kalayaan cor Elliptical	0	1
Kalayaan cor Elliptical	1	0
Kalayaan cor Matalino	0	1
Kalayaan cor Matalino	1	0
Kalayaan cor Matalino	1	0
Malabang cor Matahimik St	1	0
Mayaman cor Maharlika	1	0
Kalayaan cor Masigla	1	0
Kalayaan cor Maparaan	1	0
Malnagg Cor Mapagkawanggawa	1	0
Malnagg Cor Mapagkawanggawa	1	0
Kalayaan cor Matino	1	0
Kalayaan cor Matino	1	0
C.P. Garcia Ave going to Maginhawa	1	0
C.P. Garcia Ave going to Maginhawa	1	0
C.P. Garcia Ave cor Emilio Jacinto St	0	1
C.P. Garcia Ave cor Emilio Jacinto St	1	0
C.P. Garcia Ave cor P. velasquez St	1	0
C.P. Garcia Ave cor P. velasquez St	1	0
EDSA cor Ermin Garcia Infron of Ramon Magsaysay HS	0	1
EDSA cor Ermin Garcia Infron of Ramon Magsaysay HS	1	0
EDSA cor Ermin Garcia SB	1	0
EDSA cor Ermin Garcia SB	1	0
Police station 9	0	1

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Anonas cor Chico	0	1
Anonas cor Chico	1	0
Anonas cor K-8th	1	0
Anonas cor K-8th	1	0
Kasing Kasing cor K-10th	1	0
Aurora cor Villa Aurora U-Turn Slot	0	1
Aurora cor Villa Aurora U-Turn Slot	1	0
Aurora cor Villa Aurora	0	1
Aurora cor Villa Aurora	1	0
Aurora cor Katipunan East bound	1	0
Aurora cor Katipunan East bound	1	0
Aurora cor Katipunan	0	1
Aurora cor Katipunan	1	0
Katipunan Ave FlyOver ramp NB	0	1
Katipunan Ave FlyOver ramp NB	1	0
Katipunan cor H.Ventura	1	0
Katipunan cor H.Ventura	1	0
Moscow Marikina	1	0
Katipunan cor H.Ventura	0	1
Aurora cor P.A.Bernardo	0	1
Aurora cor P.A.Bernardo	1	0
Aurora cor P.A.Bernardo	1	0
Aurora cor N.Domingo	1	0
Aurora cor N.Domingo	1	0
Aurora cor Lantana	1	0
EDSA cor Sct Borromeo	1	0
EDSA cor Sct Albano Ave	0	1
EDSA cor Sct Albano Ave	1	0
Scout Borromeo cor Sgt. Esguerra Ave	1	0
Scout Borromeo cor Sgt. Esguerra Ave	1	0
Timog cor Sct Tuazon	1	0
Timog cor Sct Tuazon	1	0
Timog cor Sct. Santiago	0	1
Timog cor Sct. Santiago	1	0
Timog cor Sct. Santiago	1	0
Tomas Morato Boy Scout Cir	0	1

QC STREET CAMERAS	LOCATION		EQUIPMENT AND DEVICES
	VF	PTZ	
	TYPE OF CAMERA		
Thomas Morato Boy Scout Car	1		0
Thomas Morato Boy Scout Car	1		0
Thomas Morato Boy Scout Cr	1		0
Tinog cor 11 ^a Jamboree	0		1
Tinog cor 11th Jamboree	1		0
Tinog cor 11th Jamboree	1		0
Tinog cor 11th Jamboree	1		0
EDSA cor Tinog	0		1
EDSA cor Tinog	1		0
EDSA cor Tinog	1		0
EDSA cor Tinog	0		1
Tinog cor Sci Tobias	0		1
Tinog cor Sci Tonillo	1		0
Tinog cor Sci Tonillo	1		0
Tinog cor Sci Tonillo	0		1
EDSA cor Tinog	1		0
GMA cor Samar	1		0
GMA cor Samar	1		0
GMA cor Samar	1		0
GMA cor Samar	1		0
EDSA cor GMA	1		0
EDSA cor East Ave	1		0
EDSA cor East Ave	1		0
EDSA cor East Ave	1		0
EDSA cor East Ave	1		0
EDSA cor East Ave	1		0
EDSA cor East Ave	1		0
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EDSA cor East Ave	1		0
EDSA cor East Ave	1		0
EDSA cor East Ave			

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
E. Rodriguez cor Aurora	1	0
Q Ave U-Turn Slot Beside Heartbeat Mega KTV	0	1
Q Ave U-Turn Slot Beside Heartbeat Mega KTV	1	0
Q Ave cor Sct. Magbanua	0	1
Q Ave cor Sct. Magbanua	1	0
Mother Ignacia cor Sct Tobias	1	0
Mother Ignacia cor Sct Tobias	1	0
E. Rodriguez cor T. morato	0	1
E. Rodriguez cor T. morato	1	0
E. Rodriguez cor T. morato	1	0
E. Rodriguez cor Hemady St	0	1
E. Rodriguez cor Hemady St	1	0
E. Rodriguez cor Hemady St	1	0
E. Rodriguez cor Baleta Dr	1	0
Erod cor Baleta Dr	1	0
Kamuning Rd cor Sct. Torillo St	1	0
Kamuning Rd cor Sct. Torillo St	1	0
Sct Torillo cor Sct Delgado	1	0
Sct Torillo cor Sct Delgado	1	0
Kamuning Rd cor Sct. Ybardolaza	0	1
Kamuning Rd cor Sct. Ybardolaza	1	0
Kamuning Rd cor Sct. Ybardolaza	1	0
Tobias hemady Bridge	0	1
Tobias hemady Bridge	1	0
Quezon Avenue cor West Ave	0	1
Quezon Avenue cor West Ave	1	0
Quezon Avenue cor West Ave	1	0
Quezon Avenue cor West Ave	1	0
Quezon Avenue cor West Ave	1	0
Quezon Avenue cor Timog Ave	1	0
Quezon Avenue Ave cor Timog Ave	1	0
West Ave cor Times	0	1
West Ave cor Times	1	0
West Ave cor Zamboanga	1	0
Times cor Lagaya B	1	0
Kamuning Rd cor Sct Rallos Extension	0	1

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Kamuning Rd cor Set Rallos Extension	1	0
EDSA cor Kamuning NB	0	1
EDSA cor Kamuning NB	1	0
EDSA cor Kamuning NB	1	0
Karnas Rd cor Colonel Salgado	0	1
Karnas Rd cor Colonel Salgado	1	0
Edsa cor Mapagmahal	1	0
Kamuning Rd cor K-Eth	0	1
Kamuning Rd cor K-Eth	1	0
Matatag cor Matalino	0	0
Matatag cor Matalino	0	0
BIR cor Internal Rd	0	1
BIR cor Internal Rd	1	0
BIR cor Internal Rd	1	0
379. BIR cor Internal Rd	1	0
Internal Rd cor Commonwealth Ave	1	0
Police Station 10	0	1
EDSA Panay	1	0
EDSA cor Q Ave SB	1	0
EDSA cor Centris Rd	0	1

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
EDSA cor Centris Rd	1	0
EDSA cor Mo. Ignacio Ave	0	1
EDSA cor Mo. Ignacio Ave	1	0
Mo. Ignacia cor Sgt. Esguerra	0	1
Mo. Ignacia cor Sgt. Esguerra	1	0
E. Rodriguez cor Don Alfredo Egea	1	0
E. Rodriguez cor Don Alfredo Egea	1	0
EDSA infront of Solidnorth Transit	1	0
EDSA infront of Solidnorth Transit	1	0
NewYork Ave cor Denver	0	1
NewYork Ave cor Denver	1	0
Lantana cor Newyork Ave	0	1
Lantana cor Newyork Ave	1	0
Lantana cor Newyork Ave	1	0
Tomas Morato cor Sct Lozano	1	0
Tomas Morato cor Sct Lozano	1	0
Tomas Morato cor Sct. Lazcano	0	1
Tomas Morato cor Sct. Lazcano	1	0
Tomas Morato cor Sct. Lazcano	1	0
East Ave cor BIR Rd	0	1
East Ave cor BIR Rd	1	0
East Ave cor BIR Rd	1	0
East Ave cor BIR Rd	1	0
East Ave cor BIR Rd	1	0
East Ave cor V. Luna	0	1
East Ave cor V. Luna	1	0
East Ave cor V. Luna	1	0
East Ave cor Internal RD	1	0
East Ave cor Internal RD	1	0
Maliksi St cor Mapagnahal St.	1	0
Maliksi St cor Mapagnahal St.	1	0
Sct. Reyes St cor Mo. Ignacia Ave	1	0
Sct. Reyes St cor Mo. Ignacia Ave	1	0
S. A cor Mo Ignacia Ave	1	0
S. A cor Mo Ignacia Ave	1	0
Don A. Rocas Ave cor Mo. Ignacia Ave	0	1

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Don A. Rocas Ave cor Mo. Ignacia Ave	1	0
Don A. Rocas Ave cor Mo. Ignacia Ave	1	0
Judge Jimenez St cor Ermin Gracia	1	0
Judge Jimenez St cor Ermin Gracia	1	0
E. Rodriguez cor Judge Jimenez St.	0	1
E. Rodriguez cor Judge Jimenez St	1	0
E. Rodriguez cor T. Gener St	1	0
E. Rodriguez cor T. Gener St	1	0
Betty Go-Belmonte cor Poinsettia	1	0
Betty Go-Belmonte cor Poinsettia	1	0
Sct Gandia cor Sct. Tuason	0	1
Sct Gandia cor Sct. Tuason	1	0
Sct Gandia cor Sct. Tuason	1	0
Don A. Rocas Ave cor Sct. Tobias St	0	1
Don A. Rocas Ave cor Sct. Tobias St	1	0
Don A. Rocas Ave cor Sct. Tobias St	1	0
Kaliraya Rd Infront of Brgy Roxas Hall	1	0
Kaliraya Rd Infront of Brgy Roxas Hall	1	0
Kaliraya Br.	0	1
East Ave cor Matalino	1	0
East Ave cor Matalino	1	0
EDSA cor Nat. Printing Office Rd	0	1
EDSA cor Nat. Printing Office Rd	1	0
EDSA cor Nat. Printing Office Rd	1	0
EDSA cor Enterprise Ave	0	1
EDSA cor Enterprise Ave	1	0
Agham cor Stella	0	1
Agham cor Stella	1	0
Agham cor PSHS Admissions Office Gate	0	1
Agham cor PSHS Admissions Office Gate	1	0
Matapang cor Matatag	1	0
V. Luna cor Maliksi St	0	1
V. Luna cor Maliksi St	1	0
V. Luna cor Malakas	0	1
V. Luna cor Malakas	1	0
V. Luna cor Malakas	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Sto Tomas cor n ramirez	1	0
Quezon Ave Bridge near honda cars QC	0	1
Quezon Ave Bridge near honda cars QC	1	0
Q Avenue cor G Araneta	1	0
Q Avenue cor G Araneta	0	1
Q Avenue cor G Araneta	1	0
Q Avenue cor G Araneta	1	0
Q Avenue cor G Araneta	1	0
Q Avenue cor G Araneta	1	0
Quezon Ave Bridge near Nexthud Auto Care Quezon Ave	0	1
Quezon Ave Bridge near Nexthud Auto Care Quezon Ave	1	0
G Araneta cor Florentino SB	1	0
G araneta cor P Florentino (Skyway Entry Ramp NB)	1	0
G araneta cor P Florentino (Skyway Entry Ramp NB)	1	0
G Araneta cor Agno Ext (Skyway Ext Ramp NB)	0	1
G Araneta cor Agno Ext (Skyway Ext Ramp NB)	1	0
G Araneta cor Agno Ext (Skyway Entry Ramp SB)	1	0
G.Araneta cor Agno Ext (Skyway Entry Ramp SB)	1	0
G Araneta cor Kapiligan	0	1
G Araneta cor Kapiligan	1	0
E.Rodriguez cor G Araneta	0	1
E Rodriguez cor G Araneta	1	0
E.Rodriguez cor G Araneta	0	1
E.Rodriguez cor G Araneta	1	0
G araneta cor Kintanlad	1	0
G Araneta cor Victory Ave	1	0
G.Araneta cor Victory Ave	1	0
E. Rodriguez cor BMA Ave	0	1
E. Rodriguez cor BMA Ave	1	0
G. Araneta Avel cor Kalraya	0	1
Quezon Ave cor Apo St.		1
Quezon Ave cor Apo St.	1	0
Quezon Ave cor Speaker E. Perez	1	0
Quezon Ave U-Turn Near Kitanlad St	0	1
Quezon Ave U-Turn Near Kitanlad St	1	0
D. Tuazon cor Kitanlad	0	1

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
D. Tuazon cor Kitanlad	1	0
E. Rodriguez cor D. Tuazon	1	0
E. Rodriguez cor D. Tuazon	1	0
Welcome Rotonda cor Espana Blvd	0	1
Welcome Rotonda cor Espana Blvd	1	0
Welcome Rotonda cor Mayon St.	1	0
Welcome Rotonda cor Mayon St.	1	0
Sobriedad cor N. Ramirez	1	0
Bayani cor Plandel St	1	0
Bayani cor Plandel St	1	0
Cordillera cor Luskot St	1	0
Galas Market	1	0
Galas Market	1	0
Cordillera cor Lourdes Castillo	1	0
Cordillera cor Lourdes Castillo	1	0
Aurora cor Guirayan	1	0
Aurora cor Guirayan	1	0
G. Araneta cor Palanza	0	1
G. Araneta cor Palanza	1	0
G. Araneta cor Palanza	1	0
G. Araneta infront of Getsum Dimsum	0	1
G. Araneta infront of Getsum Dimsum	1	0
G. Araneta cor Tamar	0	1
G. Araneta cor Tamar	1	0
G. Araneta cor Landargun	1	0
G. Araneta cor Landargun	1	0
G. Araneta Skyway Entry Ramp NB	1	0
G. Araneta cor Baloy	0	1
G. Araneta cor Baloy	1	0
G. Araneta cor Bayani	1	0
G. Araneta cor Bayani B1	1	0
G. Araneta cor T. Arguelles Skyway ext Ramp SB	0	1
G. Araneta cor T. Arguelles Skyway ext Ramp SB	1	0
Brgy Hall Santol	1	0
Santol cor Landargun	1	0
E. Rodriguez cor Trinity Dr		1

QC STREET CAMERAS		EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA		
	VF	PTZ	
E. Rodriguez cor Trinity Dr	1	0	
E. Rodriguez in front Delos Santos Med Center	1	0	
N. Domingo cor P Tuazon	1	0	
N. Domingo cor P Tuazon	1	0	
N. Domingo cor Mayor Ignacio Santon Diaz	1	0	
N Domingo cor Mayor Ignacio Santon Diaz	1	0	
Aurora cor Boston	1	0	
Aurora cor Boston	1	0	
Aurora cor Seattle	0	1	
Aurora cor Seattle	1	0	
Aurora cor Seattle	1	0	
Rosario Dr. cor Lantana	1	0	
Rosario Dr. cor Lantana	1	0	
Rosario Dr. cor Lantana	1	0	
N. Domingo Cor Balet	1	0	
N. Domingo Cor Balet	1	0	
N.Domingo cor Dona Hemady	1	0	
N.Domingo cor Dona Hemady	1	0	
N.Domingo cor Dona Hemady	0	1	
D.Hemady cor 1st St	1	0	
Batanes cor Sampalok	1	0	
Police Station 11	0	1	
C5 cor Parklinks Ave	1	0	
C5 Infront Hotel 878	1	0	
C5 cor New Road going Pasig	1	0	
C5 cor Calle Industria	0	1	
C5 cor Calle Industria	1	0	
C5 Padre Pio Church Ent	0	1	
C5 Padre Pio Church Ent	1	0	
W Plains C Aguinaldo	1	0	
W.Plains C Aguinaldo	1	0	
FVR Rd Marikina	1	0	
ERJR Ave Beside UCM Group of companies Inc	0	1	
ERJR Ave Beside UCM Group of companies Inc	1	0	
ERJR Ave Beside Phoenix Sun Business Park	0	1	
ERJR Ave Beside Phoenix Sun Business Park	1	0	

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Police Station 12	0	1
C5 cor Orchard R	1	0
C5 cor Orchard R	1	0
Bagong Silangan Fire Station	1	0
Bagong Silangan Fire Station	1	0
Payatas Rd cor Mahogany St	0	1
Payatas Rd cor Mahogany St	1	0
Molave cor payatas Rd	1	0
Molave cor payatas Rd	1	0
Payatas Rd Brgy Payatas Fire Station	0	1
Payatas Rd Brgy Payatas Fire Station	1	0
Payatas Rd cor Madjaas Ave	0	1
Payatas Rd cor Madjaas Ave	1	0
Payatas Rd cor Madjaas Ave	1	0
Molave lower cor Molave Ext	1	0
Molave lower cor Molave Ext	1	0
Molave Ext	1	0
Molave Ext	1	0
Payatas cor Samsung	0	1
Payatas cor Samsung	1	0
Payatas Rd cor Bansalangan	0	1
Payatas Rd cor Bansalangan	1	0
Payatas Near Amlac RD	1	0
Payatas Near Amlac RD	1	0
Payatas Rd cor Visayas fronting Manila Water	0	1
Payatas Rd cor Visayas fronting Manila Water	1	0
Payatas Rd cor Bicol	1	0
Payatas Rd cor Farmers	0	1
Payatas Rd cor Farmers	1	0
Payatas Rd Cor Legazpi	1	0
Payatas Rd Cor Legazpi	1	0
Payatas cor Empire	0	1
Payatas cor Empire	1	0
Payatas RD cor Private Rd	1	0
Payatas RD cor Private Rd	1	0
Clemente Public Library	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Clemente cor Katipunan	1	0
Legazpi cor Phase 1	1	0
Legazpi cor Phase 1	1	0
Clemente cor Visayas	1	0
Clemente cor Visayas	1	0
Urban Phase2	1	0
Urban Phase2	1	0
Davao Phase 4	1	0
Davao cor Clemente	1	0
Davao cor Clemente	1	0
Payatas RD EEP	1	0
Commo Cor BF Rd B2	1	0
Commonwealth IBP Rd Tunnel End	0	1
Commonwealth IBP Rd Tunnel End	1	0
Commonwealth cor Don Diosdado	0	1
Commonwealth cor Don Diosdado	1	0
Congressional cor T. Sora NB	0	1
Congressional cor T. Sora NB	1	0
Congressional cor T. Sora SB	0	1
Congressional cor T. Sora SB	1	0
Congressional cor T. Sora NB	1	0
Himlayan Rd cor Tandang Sora	1	0
Himlayan Rd cor Tandang Sora	1	0
Congressional Beside the Dog SPA & Hotel	1	0
Congressional Beside the Dog SPA & Hotel	0	1
Tandang Sora infront of New Era Elementary	0	1
Tandang Sora infront of New Era Elementary	1	0
Tandang Sora cor Cassanova Dr	1	0
Tandang Sora cor Cassanova Dr	1	0
Visayas cor Ledesma	0	1
Visayas cor Ledesma	1	0
Sampaguta cor Mangga	1	0
Sampaguta cor Mangga	1	0
Holy Spirit Dr cor De Leon	0	1
Holy Spirit Dr cor De Leon	1	0
Police Station	0	1

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Police Station	1	0
Republic cor Santa monica St	1	0
Republic cor Santa monica St	0	1
St.Joseph St cor San Simon	1	0
Congressional cor Panghinan Dr	1	0
Congressional cor Panghinan Dr	1	0
Seminary Rd cor Pugad Lawin Villa	0	1
Seminary Rd cor Pugad Lawin Villa	1	0
Shorthorn St cor Road20	1	0
Shorthorn St cor Road20	0	1
Rd 20 cor Rd 23	1	0
Rd 20 cor Rd 23	1	0
North Ave cor Elliptical NB	1	0
North Ave cor Elliptical NB	1	0
North Ave cor Elliptical SB	0	1
North Ave cor Elliptical SB	1	0
North Ave cor Elliptical SB	1	0
Visayas Ave cor Elliptical	0	1
Visayas Ave cor Elliptical	1	0
Visayas Ave cor Elliptical	1	0
Visayas cor Central	0	1
Visayas cor Central	1	0
Visayas cor Road10	1	0
Fisheries cor morning Dr	1	0
56. Edsa cor west Ave A	0	1
56. Edsa cor west Ave B	1	0
370. Edsa cor Bulacan A	0	1
370. Edsa cor Bulacan B	1	0
142. Mindanao cor North Ave A	0	1
Mindanao cor North Ave	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Mindanao cor North Ave	1	0
Mindanao cor North Ave	1	0
Mindanao cor North Ave	1	0
Mindanao cor North Ave	1	0
Mindanao Ave cor Rd1	1	0
Mindanao Ave cor Rd1	1	0
East Ave cor Eliptical	0	1
East Ave cor Eliptical	1	0
East Ave cor Eliptical	1	0
East Ave cor Eliptical	1	0
East Ave cor Eliptical	1	0
Quezon Ave cor Eliptical	0	1
Quezon Ave cor Eliptical	1	0
Quezon Ave cor Eliptical	1	0
Agham infront of Bureau of Fire Protection	0	1
Agham infront of Bureau of Fire Protection	1	0
Veterans Hospital	0	1
Veterans Hospital	1	0
Veterans Hospital	1	0
North Ave infront of DENR-NCR Technical Service	0	1
North Ave infront of DENR-NCR Technical Service	1	0
Misamis St cor Nueva Viscaya	1	0
Misamis St cor Nueva Viscaya	1	0
Bukidnon Parish Sto Nino	0	1
Bukidnon Parish Sto Nino	1	0
Mindanao cor Road16	1	0
Mindanao cor Road16	1	0
Mindanao cor Cattleya NB	0	1
Mindanao cor Cattleya NB	1	0
Mindanao cor Cattleya	0	1
Mindanao cor Cattleya	1	0
Ernesto Rondon High School	1	0
Ernesto Rondon High School	1	0
Mindanao Ave front of TOTAL gas station U-Turn Slot	0	1
Mindanao Ave front of TOTAL gas station U-Turn Slot	1	0
Mindanao cor Road10	1	0

QC STREET CAMERAS	EQUIPMENT AND DEVICES	
LOCATION	TYPE OF CAMERA	
	VF	PTZ
Mindanao Ave cor Rd 8	0	1
Mindanao Ave cor Rd 8	1	0
Rd8 cor RD2	0	1
Rd8 cor RD2	1	0
Police Station 15	1	0
Police Station 16	1	0
Quirino cor Nightingale (Zabarte sub)	0	1
Quirino cor Nightingale (Zabarte sub)	1	0
Quirino cor Bloomfields	1	0
Quirino Highway Corner Zabarte	0	1
Quirino cor KingFisher	0	1
Quirino cor KingFisher	1	0
Quirino cor KingFisher	1	0
Quirino SM Fairview Ent	0	1
Quirino SM Fairview Ent	1	0
Quirino cor Maligaya	1	0
Belfast cor Sinagtala	0	1
Belfast cor Sinagtala	1	0
Geronimo cor Sarmento	0	1
Geronimo cor Sarmento	1	0
Dumalay cor Sarmento	1	0
Quirino Hwy Infront of Bryan Market	0	1
Quirino Hwy Infront of Bryan Market	1	0
Quirino cor Lamesa Rd	1	0
Quirino cor Lamesa Rd	1	0
Common cor Encarnacion	0	1
Common cor Encarnacion	1	0
Malipaka St cor Happy St	1	0
Malipaka St cor Happy St	1	0
Mindanao Ave cor Pantomina Mayor	1	0
Mindanao Ave cor Regalado	1	0
Mindanao Ave cor Regalado	1	0
Camarin Ave. Cor Diamond Dr	1	0
Visitation	1	0
Zabarte Rd cor Zabarte Extension	0	1
Zabarte Rd cor Zabarte Extension	1	0

Total	900	300
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V. PROJECT STANDARDS AND REQUIREMENTS

The following proposed CCTV equipment and devices shall have the standard components that are regularly manufactured and used in the manufacturer's systems list. The components to be offered shall have been used in real installations. An established after-sales or technical support group for the system should be available.

FIELD EQUIPMENT

The Indoor/Outdoor Field Equipment shall be composed of the following items depending on the location and instructions from the plottings in the location and facilities plans:

- 5MP Fixed Bullet Camera, 2592 x 1944 resolution, with fix lens, video compression of H.265, day/night auto and infrared cut filter, produces colored video images at low light conditions without the use of white lights, supports dual light technology, ONVIF compliant, Shall be mounted using wall mount and/or pole mount brackets depending on the location.
- 8MP Bullet IP Camera, 3840 x 2160 resolution, motorized vari-focal lens, video compression of H.265, day/night auto and infrared cut filter, produces colored images in low light conditions without the use of white lights, supports dual light technology, audio compression G.711a, supports connection modes LAN (wired) and Wifi (wireless), support micro SD Card recording, ONVIF compliant, includes surge protection. Shall be mounted using wall mount and/or pole mount brackets depending on the location.
- 8MP IP PTZ Camera, 3840 x 2160 resolution, at least 18X optical zoom, video compression of H.264/H.265, day/night auto with IR cut filter, long range IR LED Lamp, WDR auto, white balance, preset points, lightning protection and surge protection. Shall be mounted using wall mount and/or pole mount brackets depending on the location.

NETWORK COMMUNICATION EQUIPMENT

All equipment shall be suitable for the working environments where it would be deployed. Remote Network Communication & Power Box shall be deployed to connect field equipment that are unmanned and remotely isolated.

- Remote Communication Cabinet with Managed Industrial Network PoE Switch, 4G Router, anti-surge and lightning protection module, AC/DC power protection, SFP modules, patch panels, patch cords, and other accessories.

- Indoor Communication Cabinet with Circuit Breaker and other accessories, Line Interactive UPS, 4G Router and PoE Switch
- IDF Cabinet with Circuit Breaker and other accessories, Line Interactive UPS, PoE Switch, Patch Panel and Patch Cords.
- MDF Cabinet with Circuit Breaker and other accessories, On-Line UPS, Core Switch, PoE Switch, Patch Panel and Patch Cords.

INTERCONNECTIVITY EQUIPMENT INCLUDING MONITOR

- 32 channel Gateway with HDD, 4K HDMI output, OS-embedded Linux, supports WEB, CMS, VMS platform and supports ONVIF protocol, cloud services and P2P.
- 32" CCTV Monitor including wall mount bracket and HDMI cable.
- 46" Video Wall CCTV Monitor including wall mount bracket and HDMI cable.

VI. PROJECT IMPLEMENTOR

The office of the City Administrator shall be the project Implementer on behalf of the Quezon City Government and in charge of ensuring the successful execution of the project. Further, the office is responsible for project monitoring and strict implementation of the requirements and guidelines in terms of reference.

VII. TERMS AND CONDITIONS

BIDDERS QUALIFICATION

- Statement of Warranty:
 - a. One (1) year onsite warranty on parts and services.
 - b. Must include a periodic system maintenance during the warranty period.
 - c. The service provider shall have qualified and experienced team of technicians and engineers, maintains the operations of the technical support center, which also acts as the 1st and 2nd level technical support.
- Submit a certification that they are the exclusive/authorized distributor/reseller of the brand being offered.
- Supplied cameras should be integrated seamlessly into the existing Unified CCTV Command Center of the Quezon City Government.
- Submit a Single line diagram detailing how it intends to integrate into the existing system.
- Submit a Certificate of Site Inspection from the End-User.

- Bidder must have completed a CCTV project of at least 250 sites for a single client.
- The bidder must have an existing service center and technical support within Metro Manila.
- Submit Organizational Structure.
- The bidder must submit a List of Manpower.
- Notarized Affidavit of Undertaking for the following:
 - Upgrades for version during warranty at no additional cost
 - Within a period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Single/Lowest Calculated Bid, the bidder must be able to do a demo and proof of concept.
 - Must include a periodic system maintenance during the warranty period.
 - Consider one day end-user training (minimum of 5 personnel from QC Government and 5 personnel from QCPD)
 - Must have at least 20 years of experience in the electronic security, surveillance industry.
 - The offered brand for CCTV cameras and equipment must have been in the market for at least 23 years in existence in the Philippine Market.

VIII. PROJECT DURATION

The project duration will be Two Hundred Ten (210) calendar days upon issuance of Notice to Proceed.

ITEM NO.	TECHNICAL SPECIFICATIONS	QTY
1.	5MP IP BULLET CAMERA W/ FIXED LENS Sensor: 1/2.8" Dark Light CMOS Min. Illumination : Color : 0.0001 Lux (F1.2,AGC on), 0 Lux with IR B/W :0.0001 Lux (F1.2,AGC on), 0 Lux with IR Camera should be able to capture and transmit an image size of 5MP (2592x1944) at 25fps Camera is intended to be a bullet style IR Range: White Light, Infrared Light minimum 20mtrs Fixed Lens with focal length of 3.6mm @ F2.0 Day & Night with an Infrared Cut Filter with auto switch Shutter Time of 1/50(1/60)s to 1/10,000s DWDR, 3D DNR Supported Supports Mobile Phone Remote Monitoring (Andriod : IOS) H.265AI/H.265+ (compatible H.265/H.264) high profile Supports LAN (Wired) Alarm: Video Loss, Video Block, Human Detect, Motion Detection, Face Detection Bitrate of 0.1Mbps to 8Mbps Supports HVR/NVR, ONVIF Protocol Power Supply: 12V DC +/- 10%; PoE Ingress Protection: IP66 Operating Temperature/Humidity: -10°C to +60°C/10% to 90% RH Power Consumption: Not more than 5W Network Storage	410 SETS

2	8MP IP BULLET CAMERA W/ MOTORIZED LENS, MICRO SD CARD AND SURGE PROTECTOR Sensor: 1 /2.7" CMOS Sensor Min. Illumination : Color : 0.0001 Lux (F1.2,AGC on), 0 Lux with IR B/W :0.0001 Lux (F1.2,AGC on), 0 Lux with IR Camera should be able to capture and transmit an image size of 8MP (3840x2160) at 15fps Camera is intended to be a bullet style IR Range: IR Light, White Light, Dual Light/50mts minimum 2.7 to 12mm Motorized VF Day & Night with an Infrared Cut Filter with auto switch Shutter Time of 1/50(1/60)s to 1/10,000s DWRD, 3D DNR Supported Supports Mobile Phone Remote Monitoring (Andriod / IOS) H.265A/H.265+ (compatible H.265/H.264) high profile Ethernet: Wifi, WPS Alarm: Video Loss, Video Block, Human Detect, Motion Detection, Face Detection, Vehicle Detect. Bitrate of 0.1Mbps to 8Mbps Supports Audio In/Out Supports HVR/NVR, ONVIF Protocol Power Supply: 12V DC +/- 10%; PoE Ingress Protection: IP67 Operating Temperature/Humidity: -10°C to +60°C/10% to 90% RH Maximum of 10W power consumption Network Storage Supports micro SD Card recording Must include PoE Network Surge Protector with RJ45 Interface	900 SETS
3	8MP IP PTZ DOME CAMERA, 18X ZOOM, W/ SD CARD AND SURGE PROTECTOR Sensor: 1/2.7" Low Illumination CMOS Minimum Illumination: Color: 0.01 Lux @ (F1.2), B/W: 0.001 Lux @ (F1.2) Supports 2D/3D DNR Camera should be able to capture and transmit an image size of 8MP (3840x2160) at 15fps Camera is intended to be a PTZ Dome style IR Range: IR LED Lamp, Laser LED and Warm Light Optical Zoom: 18X Day & Night: IR Cut Filter with Auto Switch Supports WDR and White Balance Supports Mobile Phone Remote Monitoring (Andriod / IOS) H.265+/H.265/H.264 encoding algorithm Supports LAN (Wired) and Wifi (Wireless) Alarm: Line Crossing, Human Detect, Vehicle Detect. Supports Audio In/Out Pan Angle: 360 Horizontal, 0-93 Vertical Rotation Range: Horizontal: 0 - 360 deg., Tilt: -0 - 93 deg Preset at least 16 PTZ Function: Support the turn-on movement, support power memory function Protocol: TCP/IP, HTTP, DHCP, DNS, DDNS, PPPoE, SMTP, NTP,(HTTPS, SIP, 802.1x, IPv6 Optional) Storage: SD Card (at least 128GB, internal) Ingress Protection: IP66 Operating Temperature/Humidity: -40C to +60C/10% to 90% RH Power Consumption: <25 W Lightning Protection 6000V Must include Network Surge Protector with RJ45 Interface	307 SETS
4	32CH REMOTE GATEWAY WITH HDD 32 channel video input (4K) 4K HDMI / 1080P VGA Video output 2 SATA up to 14TB each Operating System: Embedded Linux Video Compression: H.265A/H.265+ (compatible H.265/H.264) Supports WEB, CMS, VMS Platform Supports ONVIF Protocol Cloud Services, P2P Record Mode: Manual>Alarm>Motion Detection>Timing Search Mode: Search by Time/Calendar/Event/Channel/Face Support remote access, support ARSP Ethernet Port: 1*RJ45 1*10/100/1000Mbps Ethernet Port USB Port: 2*USB 2.0	44 SETS

5	REMOTE COMMUNICATION CABINET The size of the Communication Cabinet shall be constructed such that it will fit in all the equipment needed and other components. The box/cabinet shall be outdoor rated with lock and complete with all the pole mounting accessories needed. The Communication Cabinet must include a circuit breaker for tapping of main power source and for protection from short circuit. In addition it shall also have an AC 220VAC power protection device. The Communication Cabinet must include an automatic circuit protection. This protection unit performs leakage protection, low voltage protection, over voltage protection, over current protection, short circuit protection, short circuit testing before closing, automatic reclosing, delayed start, regulator and monitor dry contact output function. The Communication cabinet will also have multiple AC220V socket for additional equipment power tapping point and will also serve as a maintenance power socket. The Communication Cabinet also includes PoE Switch with the following features: Managed Industrial PoE switch with 8*10/100/1000Base-T adaptive RJ45 ports and 2*100/1000Base-X SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. Desktop or DIN rail mounting. Network Protocol: IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x Forward Mode: Store and Forward (Full Wire-speed) Switching Capacity: 20 Gbps or better Forwarding Rate @ 64byte: 14.88 Mpps MAC 8K or better Buffer Memory: 2M Jumbo Frame: 9.2K Total Power/Input Voltage: at least 120W/48VDC The cabinet also includes the following: Industrial DIN Rail Power Adapter with the following features 48 VDC Output Voltage 2.5 A Output Rated Current 120 W Output Rated Power Voltage Input: AC 100-240V -30 deg C to 70 deg C Operating Temperature Range Supports protection from short circuit, over current, over voltage DDR2 128M Byte RAM; 16MB Flash Storage Supports 10/100M (WAN) port * 1, can connect xDSL modems/cable modems/Internet Supports 10/100M (LAN) port * 1, supports Auto MDI/MDIX Antenna Frequency: 2412 – 2472 MHz Antenna Polarization: Vertical/Horizontal Antenna Gain: 5 Dbi Support multi-4G-network; Built in 4G Antenna Supports 2.4G, Output power up to 500mW Supports 64/128 bit WEP encryption Supports customized SSD and encryption Supports 300Mbps bandwidth	241 SETS
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6	INDOOR COMMUNICATION CABINET The size of the Communication Cabinet shall be constructed such that it will fit in all the equipment needed and other components. The cabinet can be a standard wall mount Rack Cabinet or a wall mount enclosure with lock. The Communication Cabinet must include a circuit breaker for tapping of main power source and for protection from short circuit. The Cabinet shall also have an Uninterruptible Power Supply for power backup in times of power loss or power black-out in the area. The UPS capacity shall be suitable to the power consumption of all equipment protected inside the cabinet. 1KVA Uninterruptible Power Supply Input Voltage: 220/230/240 VAC; Input Frequency: 50Hz / 60Hz (Auto Sensing) Output Waveform: Simulated Sine Wave Output Voltage: 220/230/240 VAC; Output Frequency: 50Hz / 60Hz +/- 1Hz Protection: Overload, Surge, Short Circuit The cabinet also includes the following: 4G Outdoor Wireless Router DDR2 128M Byte RAM; 16MB Flash Storage Supports 10/100M (WAN) port * 1, can connect xDSL modems/cable modems/Internet Supports 10/100M (LAN) port * 1, supports Auto MDI/MDIX Antenna Frequency: 2412 - 2472 MHz Antenna Polarization: Vertical/Horizontal Antenna Gain: 5 Dbi Support multi 4G-network; Built-In 4G Antenna Supports 2.4G, Output power up to 500mW Supports 64/128 bit WEP encryption Supports customized SSID and encryption Supports 300Mbps bandwidth 24-10/100/1000Base-T PoE ports + 4*100/1000Base-X uplink SFP slot ports Network Protocol: IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x Forward Mode: Store and Forward (Full Wire-speed) Switching Capacity: 56 Gbps or better Forwarding Rate (@ 64byte): 41.66 Mpps MAC 2K or better Buffer Memory: 4M Total Power/Input Voltage: 400W (AC 100-240V) -20 deg C to 55 deg C Operating Temperature Range, 5%-90% RH non-condensing Lightning Protection: Port Lightning Protection 4KV 8/20us	23 SETS
7	IDF CABINET The size of the Communication Cabinet shall be constructed such that it will fit in all the equipment needed and other components. The cabinet shall be a standard wall mount Rack Cabinet with lock and between 15U-18U Rack unit height. The Communication Cabinet must include a circuit breaker for tapping of main power source and for protection from short circuit. The Cabinet shall also have an Uninterruptible Power Supply for power backup in times of power loss or power black-out in the area. The UPS capacity shall be suitable to the power consumption of all equipment protected inside the cabinet. 2KVA Uninterruptible Power Supply Input Voltage: 220/230/240 VAC; Input Frequency: 50Hz / 60Hz (Auto Sensing) Output Waveform: Simulated Sine Wave Output Voltage: 220/230/240 VAC; Output Frequency: 50Hz / 60Hz +/- 1Hz Protection: Overload, Surge, Short Circuit The cabinet also includes the following: 24-10/100/1000Base-T PoE ports + 4*100/1000Base-X uplink SFP slot ports Network Protocol: IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x Forward Mode: Store and Forward (Full Wire-speed) Switching Capacity: 56 Gbps or better Forwarding Rate (@ 64byte): 41.66 Mpps MAC 2K or better Buffer Memory: 4M Total Power/Input Voltage: 400W (AC 100-240V) -20 deg C to 55 deg C Operating Temperature Range, 5%-90% RH non-condensing Lightning Protection: Port Lightning Protection 4KV 8/20us The cabinet also includes Fiber Patch Panel for Singlemode Fiber. SFP modules and Fiber Patch cords UTP Patch Panel and patch cords Horizontal and vertical wire management Shelves and other cabinet accessories	7 SETS

MDF CABINET

The size of the Communication Cabinet shall be constructed such that it will fit in all the equipment needed and other components.
The cabinet shall be a standard 42U Floor Standing Closed Data Cabinet with lock including accessories

42U*600mm*800mm Closed Data Cabinet

Vented Front and Rear doors with excellent ventilation rate

Removable Side Panels with round locks

Cable entry plates at the top and bottom covers

S-Shaped mounting profile; free to move forward and backward

Comply with ANS/EIA RS-310-D, IEC297-2, DIN41491, Part 1, DIN41491 Part 7, ETSI Standard

The Communication Cabinet must include a circuit breaker for tapping of main power source and for protection from short circuit.

The Cabinet shall also have an Uninterruptible Power Supply for power backup in times of power loss or power black-out in the area. The UPS capacity shall be suitable to the power consumption of all equipment protected inside the cabinet.

5KVA On-line UPS, Capacity: 3500W

Tower mount

INPUT Voltage/Load: 208V, 220V, 230V, 240Vac

OUTPUT Voltage: 208V, 220V, 230V, 240Vac

Frequency: 50/60 Hz Auto Sensing

Surge Protection: (IEC61000-4-5 Level 3)

Overload Protection: 110%-125% for 1 minute and 125%-150 % for 10 seconds

Short Circuit Protection: Output Cut-off immediately

On-line double conversion topology

Communication: RS-232 Serial Port and USB

Managed 28-port Gigabit Switch

24 Ports, Gigabit RJ45ports

4 Ports Gigabit Uplink

Built-in power supply

8 Network Protocol: IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x

Forward Mode: Store and Forward (Full Wire-speed)

Switching Capacity: 192 Gbps or better

Forwarding Rate @ 64byte: 41.66 Mpps

MAC 2K or better

Buffer Memory: 4M

Standard 1U rack height

SFP slot ports

Total Power/Input Voltage: 60W (AC 100-240V)

-20 deg C to 55 deg C Operating Temperature Range, 5%-90% RH non-condensing

24-10/100/1000Base-T PoE ports + 4*100/1000Base-X uplink SFP slot ports

Network Protocol: IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x

Forward Mode: Store and Forward (Full Wire-speed)

Switching Capacity: 56 Gbps or better

Forwarding Rate @ 64byte: 41.66 Mpps

MAC 2K or better

Buffer Memory: 4M

Total Power/Input Voltage: 400W (AC 100-240V)

-20 deg C to 55 deg C Operating Temperature Range, 5%-90% RH non-condensing

Lightning Protection: Port Lightning Protection 4KV 8/20us

The cabinet also includes Fiber Patch Panel for Singlemode Fiber.

SFP modules and Fiber Patch cords

UTP Patch Panel and patch cords

Horizontal and vertical wire management

Shelves and other cabinet accessories

4
SETS

9	32" INDUSTRIAL GRADE CCTV MONITOR Screen size: 32" 4K HD Resolution 24/7 operation HDMI 2.0 / DP Metal Chassis Design, anti-static, anti-magnetic field, anti-interference, no radiation Display mode: 16:9 Viewing angle: 178(H) / 178(V) Response Time: 5ms Industrial -grade LED screen, design for CCTV application High brightness, high contrast, high definition Color System: NTSC Supports Video noise reduction Built-in Speaker Power Supply: 12V, 5A, <35W power consumption Standard VESA mounting MTBF: 50K hours Includes wall mount bracket and HDMI connector	15 SETS
10	46" VIDEO WALL CCTV MONITOR Screen size: 46" 4K HD Resolution (3840 x 2160) 24/7 operation HDMI/DP/VGA Fanless design, no noise Display mode: 16:9 Viewing angle: 178(H) / 178(V) Response Time: 5ms 3.5mm Bezel with Stitching Machine Ultimate visual performance with 14 bit grey scale Dot by dot calibration; ensures excellent color and brightness uniformity Panel type: D-LED DID Power Supply: AC 100-240V +/- 10%, 143W/h Max, 50/60Hz Standard VESA mounting MTBF: 50K hours Includes wall mount bracket and HDMI connector	38 SETS
11	PROJECT INSTALLATION COST A. PRELIMINARIES, DOCUMENTATION & INSURANCES B. PROJECT MANAGEMENT & TRAFFIC MANAGEMENT C. SUPPLY, DELIVERY AND INSTALLATION OF CABLES AND CONDUITS, SUPERVISON, COORDINATION, INSTALLATION, TERMINATION, TESTING AND COMMISSIONING. D. SUPERVISION, DATA & CONNECTIVITY MONITORING, COORDINATION, END-USER TRAINING.	1 LOT

IX. APPROVED BUDGET FOR THE CONTRACT

The approved budget for the contract will be charged the Office of the City Mayor (Peace and Order and Public Safety Program) amounting to One Hundred Sixty Million Pesos and 00/100 Only (₱160,000,000.00).

X. PROJECT COST ADJUSTMENT

As stated in Section 61 of R.A. 9184 and its IRR, in cases where the cost of the awarded contract is affected by any applicable new laws, ordinances, regulations, or other such as

acts of the Government of the Philippines, promulgated after the date of bid opening, a contract price adjustment shall be made, or appropriate relief shall be applied on a no loss basis.

XI. WARRANTY

- A. One (1) year onsite warranty on parts and service.
- B. The bidder must include a system maintenance during the warranty period.

XII. TERMS OF PAYMENT

- A. 15% upon submission of project implementation plan which includes;
 - 1. Scope of work to be done
 - 2. Plotting of camera locations, and
 - 3. Timeline/Gantt chart for work schedule
- B. 50% upon delivery of all major equipment
- C. 35% upon completion of the project which includes the end-users training and submission the required document by the project implementor.

XIII. PROJECT COST ADJUSTMENT

As stated in Section 61 of R.A. 9184 and its IRR, in cases where the cost of the awarded contract is affected by any applicable new laws, ordinances, regulations, or other such as acts of the Government of the Philippines, promulgated after the date of bid opening, a contract price adjustment shall be made, or appropriate relief shall be applied on a no loss basis.

XIV. PENALTIES FOR BREACH OF CONTRACT

Failure to deliver the services according to the standards and requirements set by the Quezon City Government shall constitute an offense and shall subject the Service provider to penalties and or liquidated damages pursuant to R.A. 9184 and its IRR.

XV. CANCELLATION OR TERMINATION OF CONTRACT

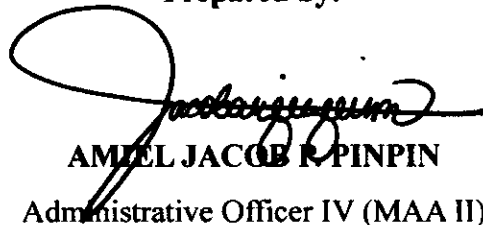
The contract may be canceled or terminated:

- a. Should there be any supervening event resulting from National Government Agency projects and/or Local government projects that may hinder or restrict the operation of the route according to this Terms of Reference such as but not limited to the Schedule of Trips, or
- b. Should there be any dispute, controversy or difference between the parties arising out of this Terms of Reference, the parties shall exert efforts to amicably settle such dispute or

difference. However, if any dispute, controversy, or difference cannot be resolved by them amicable to the mutual satisfaction for arbitration in accordance with existing laws, without prejudice for the aggrieved party to seek redress exclusively before a court of competent jurisdiction within Quezon City.

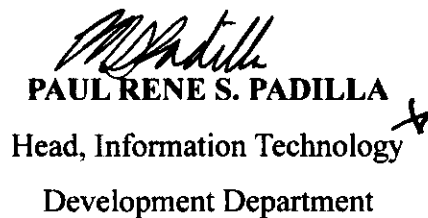
The guidelines contained in R.A 9184 and its IRR shall be followed in the cancellation or termination of this Contract.

Prepared by:



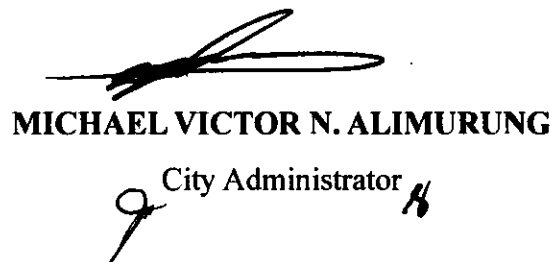
AMEL JACOB R. PINPIN
Administrative Officer IV (MAA II)
POPS Plan Secretariat Member

Recommending Approval:



PAUL RENE S. PADILLA
Head, Information Technology
Development Department

Approved by:



MICHAEL VICTOR N. ALIMURUNG
City Administrator