

TERMS OF REFERENCE
PROJECT AURORA:
QUEZON CITY GOVERNMENT UNIFIED CCTV COMMAND SYSTEM

I. BACKGROUND

Establishing “safe cities” is the current trend worldwide. A safe city can be ensured by the government, law enforcement agency and other involved stakeholders by primarily establishing a city command center or data center.

It is the vision of Quezon City Government (the City) to provide quality service which will make Quezon City an ideal community. To fulfill this, one of the problems the City wanted to resolve is to ensure Peace and Order and Public Safety in Quezon City through IP-Based Surveillance System.

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 CCTV Command System is a premiere plan of the Local Government and QCCPD that requires complete set-up of an IP-Based Surveillance System over a private and secured network in Quezon City.

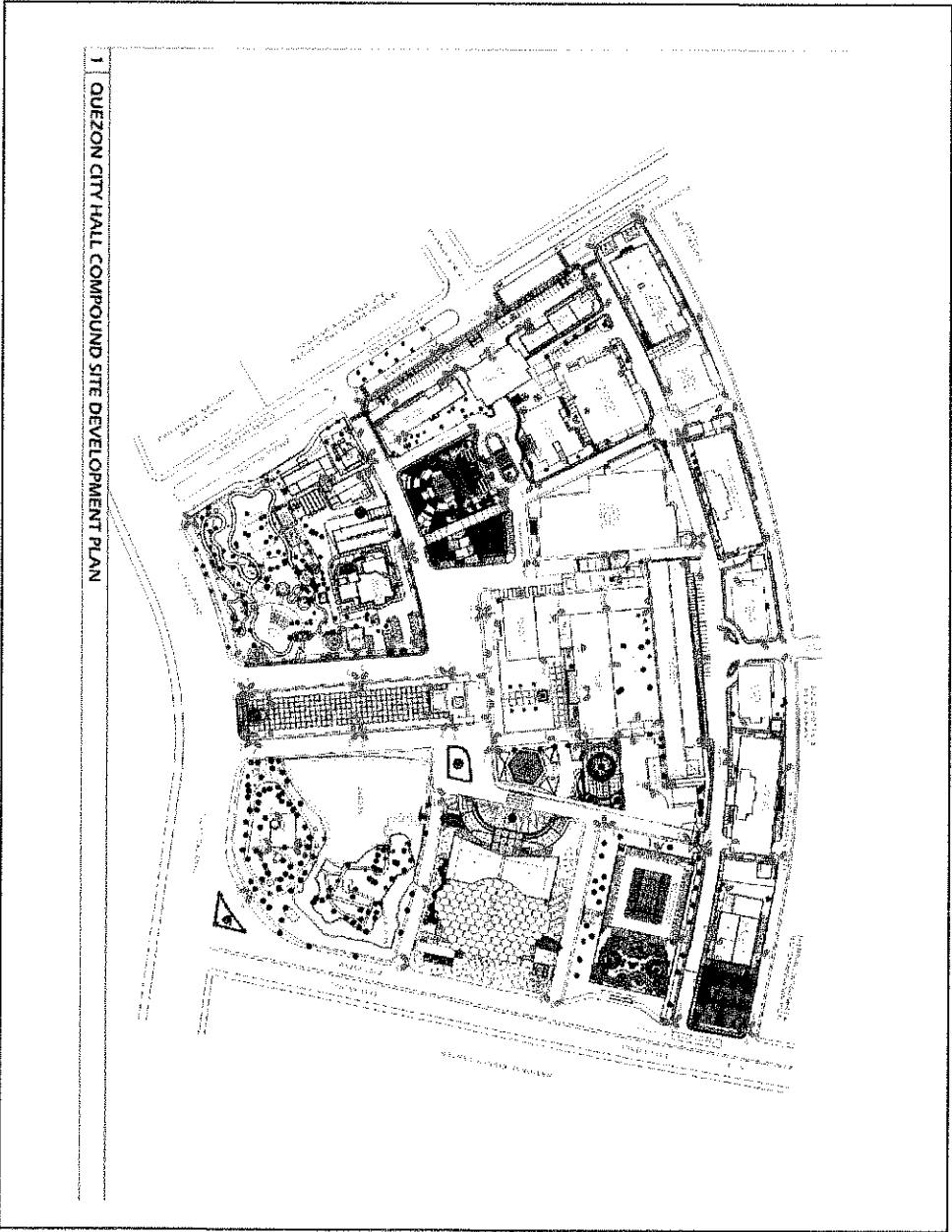
III. OBJECTIVES

To ensure Peace, Orderliness and Public safety through an IP-Surveillance System featuring CCTV Cameras installed within QC Hall Compound and in strategic locations within Quezon City.

IV. PROJECT SCOPE OF WORK

The equipment and devices will be deployed within the premises of City Hall, and rehabilitation of the existing remote street surveillance equipment administered by Quezon City Police District.

Mapping inside Quezon City Hall Compound



OCPD CCTV Locations:

SERVER 1

NO	SERVER	NAME	IP PORT
1	SERVER 1	20TH AVE COR. KALANTIAW FIX_1	10.10.1.120 Port: 80
2	SERVER 1	20TH AVE COR. KALANTIAW PTZ_1	10.10.1.121 Port: 80
3	SERVER 1	20TH AVE. COR. P. TUAZON FIX_1	10.10.1.95 Port: 80
4	SERVER 1	20TH AVE. COR. P. TUAZON PTZ_1	10.10.1.96 Port: 80
5	SERVER 1	ANONAS COR. PAJO. ST. FIX_1	10.10.1.155 Port: 80
6	SERVER 1	AURORA BLVD. COR. 20TH AVE FIX_1	10.10.1.85 Port: 80
7	SERVER 1	AURORA BLVD. COR. 20TH AVE PTZ_1	10.10.1.86 Port: 80

8	SERVER 1	AURORA BLVD. COR. HI-TOP FIX_1	10.10.1.70 Port: 80
9	SERVER 1	AURORA BLVD. COR. HI-TOP PTZ_1	10.10.1.71 Port: 80
10	SERVER 1	AURORA BLVD. COR. JP RIZAL FIX_1	10.10.1.75 Port: 80
11	SERVER 1	AURORA BLVD. COR. JP RIZAL PTZ_1	10.10.1.76 Port: 8999
12	SERVER 1	AURORA BLVD. TOYOTA FIX_1	10.10.1.90 Port: 80
13	SERVER 1	AURORA BLVD. TOYOTA PTZ_1	10.10.1.91 Port: 80
14	SERVER 1	AURORA COR. ANONAS (WCC) FIX_1	10.10.1.72 Port: 80
15	SERVER 1	AURORA COR. ANONAS (WCC) PTZ_1	10.10.1.73 Port: 80
16	SERVER 1	AURORA COR. KATIPUNAN FIX_1	10.10.1.145 Port: 80
17	SERVER 1	AURORA COR. KATIPUNAN PTZ_1	10.10.1.146 Port: 8999
18	SERVER 1	AURORA COR. LAOAN FIX_1	10.10.1.81 Port: 80
19	SERVER 1	AURORA COR. LAOAN PTZ_1	10.10.1.80 Port: 8999
20	SERVER 1	BRGY. UGONG NORTE COR. C5 ORTIGAS FIX_1_1	10.10.1.211 Port: 80
21	SERVER 1	BRGY. UGONG NORTE COR. C5 ORTIGAS PTZ_1	10.10.1.210 Port: 8200
22	SERVER 1	C5 SHOPWISE LIBIS FIX_1	10.10.1.135 Port: 80
23	SERVER 1	C5 SHOPWISE LIBIS PTZ_1	10.10.1.136 Port: 80
24	SERVER 1	CAMP KARINGAL FIX_1	10.10.1.50 Port: 80
25	SERVER 1	CAMP KARINGAL PTZ_1	10.10.1.51 Port: 80
26	SERVER 1	KALAYAAN COR. V. LUNA FIX_1	10.10.1.60 Port: 80
27	SERVER 1	KALAYAAN COR. V. LUNA PTZ_1	10.10.1.61 Port: 80

28	SERVER 1	KAMIAS COR. K-J ST. FIX_1	10.10.1.66 Port: 80
29	SERVER 1	KAMIAS COR. K-J ST. PTZ_1	10.10.1.65 Port: 8200
30	SERVER 1	KATIPUNAN COR. BONI SERRANO PTZ	10.10.1.71 Port: 80
31	SERVER 1	KATIPUNAN COR. DELA ROSA FIX_1	10.10.1.151 Port: 80
32	SERVER 1	KATIPUNAN COR. DELA ROSA FIX_2	10.10.1.150 Port: 80
33	SERVER 1	KATIPUNAN KOPIROTI FIX_1	10.10.1.171 Port: 80
34	SERVER 1	KATIPUNAN KOPIROTI PTZ_1	10.10.1.170 Port: 8200
35	SERVER 1	MAGINHAWA COR. MAPAGKUMBABA FIX_1	10.10.1.53 Port: 80
36	SERVER 1	MERCURY AVE. FIX_1	10.10.1.125 Port: 80
37	SERVER 1	MERCURY AVE. PTZ_1	10.10.1.126 Port: 80
38	SERVER 1	P. TUAZON COR. JP RIZAL FIX_1	10.10.1.105 Port: 80
39	SERVER 1	P. TUAZON COR. JP RIZAL PTZ_1	10.10.1.106 Port: 80
40	SERVER 1	PS12 - EASTWOOD FIX_1	10.10.1.130 Port: 80
41	SERVER 1	PS12 - EASTWOOD PTZ_1	10.10.1.131 Port: 80
42	SERVER 1	PS8 - PROJECT 4 FIX_1	10.10.1.100 Port: 80
43	SERVER 1	PS8 - PROJECT 4 PTZ_1	10.10.1.101 Port: 80
44	SERVER 1	SIKATUNA COR. ANONAS FIX_1	10.10.1.55 Port: 80
45	SERVER 1	SIKATUNA COR. ANONAS PTZ_1	10.10.1.56 Port: 80
46	SERVER 1	T. CASTRO COR. J.P. RIZAL FIX_1	10.10.1.166 Port: 80
47	SERVER 1	T. CASTRO COR. J.P. RIZAL PTZ_1	10.10.1.165 Port: 80

48	SERVER 1	WILCON FOOTBRIDGE C-5 LIBIS FIX_1	10.10.1.140 Port: 80
49	SERVER 1	WILCON FOOTBRIDGE C-5 LIBIS PTZ_1	10.10.1.141 Port: 80
NO	SERVER	NAME	DETAILS
1	SERVER 2	BUENMAR ST. COR. GEN. LUIS FIX_1	10.10.2.131 Port: 80
2	SERVER 2	BUENMAR ST. COR. GEN. LUIS PTZ_1	10.10.2.130 Port: 8999
3	SERVER 2	COA COMMONWEALTH FIX_1	10.10.2.65 Port: 80
4	SERVER 2	COMMONWEALTH - BF ROAD FIX	10.10.2.82 Port: 80
5	SERVER 2	COMMONWEALTH COR. HB SOLIVEN FIX_1	10.10.2.74 Port: 80
6	SERVER 2	COMMONWEALTH COR. HB SOLIVEN PTZ_1	10.10.2.73 Port: 8999
7	SERVER 2	COMMONWEALTH COR. MASAYA ST. FIX_1	10.10.2.147 Port: 80
8	SERVER 2	COMMONWEALTH COR. MASAYA ST. PTZ_1	10.10.2.148 Port: 8999
9	SERVER 2	COMMONWEALTH COR. QUIRINO FIX_1	10.10.2.97 Port: 80
10	SERVER 2	COMMONWEALTH COR. QUIRINO PTZ_1	10.10.2.96 Port: 8999
11	SERVER 2	COMMONWEALTH COR. VILLONCO FIX 1_1	10.10.2.69 Port: 80
12	SERVER 2	COMMONWEALTH COR. VILLONCO FIX 2_1	10.10.2.70 Port: 80
13	SERVER 2	COMMONWEALTH CORNER FAIRLANE_1	10.10.2.93 Port: 80
14	SERVER 2	COMMONWEALTH MARKET FIX_1	10.10.2.68 Port: 80
15	SERVER 2	COMMONWEALTH TANDANG SORA FIX_1	10.10.2.62 Port: 80
16	SERVER 2	COMMONWEALTH TANDANG SORA PTZ_1	10.10.2.61 Port: 8999
17	SERVER 2	CONGRESSIONAL - LUZON AVE FIX_1	10.10.2.56 Port: 80
18	SERVER 2	CONGRESSIONAL - LUZON AVE PTZ_1	10.10.2.55 Port: 8999

19	SERVER 2	DAMONG MALIIT CORNER QUEEN VICTORIA FIX 1_1	10.10.2.139 Port: 80
20	SERVER 2	DAMONG MALIIT CORNER QUEEN VICTORIA FIX 1_1	10.10.2.139 Port: 80
21	SERVER 2	GEN. LUIS COR. DAMONG MALIIT FIX 1_1	10.10.2.138 Port: 80
22	SERVER 2	GEN. LUIS COR. DAMONG MALIIT PTZ	10.10.2.137 Port: 8999
23	SERVER 2	GEN. LUIS COR. KAT. AVE FIX_1	10.10.2.142 Port: 80
24	SERVER 2	GEN. LUIS COR. KAT. AVE PTZ_1	10.10.2.141 Port: 8999
25	SERVER 2	IBP ROAD COR. KALAYAAN FIX 1_1	10.10.2.77 Port: 80
26	SERVER 2	IBP ROAD COR. KALAYAAN FIX 2_1	10.10.2.78 Port: 80
27	SERVER 2	IBP ROAD COR. SINAGTALA PTZ	10.10.2.79 Port: 8999
28	SERVER 2	INFRONT OF OUR LADY MERCY FIX_1	10.10.2.146 Port: 80
29	SERVER 2	INFRONT OF OUR LADY MERCY PTZ_1	10.10.2.145 Port: 8999
30	SERVER 2	JORDAN COR. SUSANO FIX 1_1	10.10.2.133 Port: 80
31	SERVER 2	JORDAN COR. SUSANO FIX 2_1	10.10.2.134 Port: 80
32	SERVER 2	KATIPUNAN AVE MWSS NAWASA FIX_1	10.10.2.163 Port: 80
33	SERVER 2	KATIPUNAN AVE MWSS NAWASA PTZ_1	10.10.2.162 Port: 8999
34	SERVER 2	KINGSPONT FOOTBRIDGE QUIRINO HIGHWAY FIX 1_1	10.10.2.122 Port: 80
35	SERVER 2	KINGSPONT FOOTBRIDGE QUIRINO HIGHWAY PTZ	10.10.2.121 Port: 8999
36	SERVER 2	LITEX ROAD FIX_1	10.10.2.72 Port: 80
37	SERVER 2	LITEX ROAD PTZ_1	10.10.2.71 Port: 8999
38	SERVER 2	MALIGAYA COR. OVAL DRIVE FIX_1	10.10.2.101 Port: 80

39	SERVER 2	MASAYA ST. CORNER MAGINHAWA ST. FIX_1	10.10.2.150 Port: 80
40	SERVER 2	MASAYA ST. CORNER MAGINHAWA ST. PTZ_1	10.10.2.149 Port: 8999
41	SERVER 2	MILLIONAIRE SUBD. COR. SUSANO ROAD FIX_1	10.10.2.132 Port: 80
42	SERVER 2	MINDANAO AVE PEDESTRIAN OVERPASS FIX_1	10.10.2.114 Port: 80
43	SERVER 2	MINDANAO COR. COMM FIX_1	10.10.2.94 Port: 80
44	SERVER 2	MINDANAO COR. TALIPAPA FIX_1	10.10.2.116 Port: 80
45	SERVER 2	MINDANAO COR. TALIPAPA PTZ_1	10.10.2.115 Port: 8999
46	SERVER 2	MINDANAO COR. TANDANG SORA AVE FIX_1	10.10.2.111 Port: 80
47	SERVER 2	NOVA PROPER PS4 FIX_1	10.10.2.129 Port: 80
48	SERVER 2	NOVA PROPER PS4 PTZ_1	10.10.2.128 Port: 8999
NO	SERVER	NAME	DETAILS
1	SERVER 3	A. SAMSON KAINGIN FIX_1	10.10.3.75 Port: 80
2	SERVER 3	A. SAMSON KAINGIN PTZ_1	10.10.3.74 Port: 8999
3	SERVER 3	A.BONIFACIO - SGT. RIVERA FIX_1	10.10.3.78 Port: 8200
4	SERVER 3	A.BONIFACIO - SGT. RIVERA PTZ_1	10.10.3.77 Port: 8999
5	SERVER 3	A.BONIFACIO BALINTAWAK FIX	10.10.3.66 Port: 80
6	SERVER 3	A.BONIFACIO BALINTAWAK PTZ	10.10.3.65 Port: 8999
7	SERVER 3	A.BONIFACIO COR. MAUBAN ST. PTZ_1	10.10.3.97 Port: 8200
8	SERVER 3	A.BONIFACIO PUREGOLD PTZ_1	10.10.3.76 Port: 8200
9	SERVER 3	BALINTAWAK LRT FIX_1	10.10.3.71 Port: 80
10	SERVER 3	BALINTAWAK LRT PTZ_1	10.10.3.70 Port: 8999

11	SERVER 3	BALINTAWAK PUJ TERMINAL PTZ_1	10.10.3.79 Port: 8200
12	SERVER 3	BANAWE CORNER DAPTAN FIX_1	10.10.3.116 Port: 80
13	SERVER 3	BANAWE CORNER DAPTAN PTZ_1	10.10.3.115 Port: 8200
14	SERVER 3	BLAK NA BATO CORNER QUEZON AVENUE_1	10.10.3.110 Port: 80
15	SERVER 3	CONGRESSIONAL COR. CAGAYAN FIX_1	10.10.3.60 Port: 80
16	SERVER 3	CONGRESSIONAL COR. CAGAYAN PTZ_1	10.10.3.59 Port: 8200
17	SERVER 3	CONGRESSIONAL SHORTHORN FIX_1	10.10.3.56 Port: 80
18	SERVER 3	CONGRESSIONAL SHORTHORN PTZ_1	10.10.3.55 Port: 8200
19	SERVER 3	D.TUAZON COR. G.ROXAS FIX_1	10.10.3.96 Port: 80
20	SERVER 3	D.TUAZON COR. G.ROXAS PTZ_1	10.10.3.95 Port: 8200
21	SERVER 3	DEL MONTE COR. BLAK NA BATO FIX_1	10.10.3.109 Port: 80
22	SERVER 3	DEL MONTE PS-2 FIX_1	10.10.3.91 Port: 80
23	SERVER 3	DEL MONTE PS-2 PTZ_1	10.10.3.90 Port: 8200
24	SERVER 3	E. RODRIGUEZ CORNER BANAWE FIX_1	10.10.3.119 Port: 8200
25	SERVER 3	E. RODRIGUEZ CORNER BANAWE PTZ_1	10.10.3.118 Port: 80
26	SERVER 3	EDSA COR. NIA ROAD FIX_1	10.10.3.155 Port: 80
27	SERVER 3	EDSA CORNER SEMINARY ROAD FIX_1	10.10.3.62 Port: 80
28	SERVER 3	EDSA CORNER SEMINARY ROAD PTZ_1	10.10.3.61 Port: 8200
29	SERVER 3	EDSA COR. VETERANS VILLAGE FIX_1	10.10.3.50 Port: 80
30	SERVER 3	MENDEZ COR. QUIRINO FIX_1	10.10.3.64 Port: 80

31	SERVER 3	MENDEZ COR. QUIRINO PTZ_1	10.10.3.63 Port: 8999
32	SERVER 3	N.S. AMORANTO COR. BANAVE FIX_1	10.10.3.106 Port: 80
33	SERVER 3	N.S. AMORANTO COR. BANAVE PTZ_1	10.10.3.105 Port: 8200
34	SERVER 3	NORTH DIVERSION ROAD CAMACHILE FIX_1	10.10.3.67 Port: 80
35	SERVER 3	NORTH DIVERSION ROAD CAMACHILE FIX_2	10.10.3.68 Port: 80
36	SERVER 3	PITIMINI COR. ROOSEVELT FIX_1	10.10.3.85 Port: 80
37	SERVER 3	QUEZON AVE COR. D. TUAZON FIX_1	10.10.3.127 Port: 80
38	SERVER 3	QUEZON AVE COR. D. TUAZON PTZ_1	10.10.3.126 Port: 8200
39	SERVER 3	ROOSEVELT COR. DEL MONTE PTZ	10.10.3.86 Port: 8200
40	SERVER 3	ROOSEVELT DANGAY ST PTZ_1	10.10.3.51 Port: 8200
41	SERVER 3	ROOSEVELT DANGAY ST. FIX_1	10.10.3.52 Port: 80
42	SERVER 3	SHORTHORN COR. ROAD 20 FIX 1_1	10.10.3.57 Port: 80
43	SERVER 3	SHORTHORN COR. ROAD 20 FIX 2_1	10.10.3.58 Port: 80
44	SERVER 3	STO DOMINGO COR. NS AMORANTO FIX_1	10.10.3.108 Port: 80
45	SERVER 3	STO DOMINGO COR. NS AMORANTO PTZ_1	10.10.3.107 Port: 8999
46	SERVER 3	STO. DOMINGO COR. QUEZON AVE FIX_1	10.10.3.112 Port: 80
47	SERVER 3	STO. DOMINGO COR. QUEZON AVE PTZ_1	10.10.3.111 Port: 8200
48	SERVER 3	WELCOME ROTONDA PTZ_1	10.10.3.117 Port: 8999
49	SERVER 3	WEST TRIANGLE COR. QUEZON AVE_PTZ_1_1	10.10.3.80 Port: 8200
50	SERVER 3	WEST TRIANGLE COR. QUEZON AVE_PTZ_2_1	10.10.3.81 Port: 8200

51	SERVER 3	WEST_TRIANGLE_COR_QAVE_FIX_1	10.10.3.82 Port: 80
NO	SERVER	NAME	DETAILS
1	SERVER 4	11th JAMBOREE COR. KAMUNING_FIX_1	10.10.4.90 Port: 80
2	SERVER 4	11TH JAMBOREE COR. KAMUNING_PTZ_1	10.10.4.91 Port: 80
3	SERVER 4	A. ROCES COR. SCT REYES FIX_1	10.10.4.100 Port: 80
4	SERVER 4	ARAYAT COR. ZAMBALES FIX_1	10.10.4.103 Port: 80
5	SERVER 4	AURORA - STA. MESA (UERRMC) FIX_1_1	10.10.4.175 Port: 80
6	SERVER 4	AURORA - STA. MESA (UERRMC) FIX_2_1	10.10.4.176 Port: 80
7	SERVER 4	AURORA COR BENITEZ_PTZ_1	10.10.4.76 Port: 80
8	SERVER 4	AURORA COR. BENITEZ_FIX_1	10.10.4.75
9	SERVER 4	AURORA COR. LANTANA PTZ_1	10.10.4.73 Port: 8200
10	SERVER 4	AURORA COR. REMULLA ST. FIX_1	10.10.4.170 Port: 80
11	SERVER 4	AURORA COR. TIMES SQUARE FIX_1	10.10.4.155 Port: 80
12	SERVER 4	AURORA CORNER IMPERIAL ST. FIX_1	10.10.4.160 Port: 80
13	SERVER 4	D. TUAZON COR. MA. CLARA PTZ_1	10.10.3.128 Port: 8200
14	SERVER 4	D.TUAZON COR. CUENCO FIX_1	10.10.3.129 Port: 80
15	SERVER 4	DAPITAN COR. KANLAOAN FIX_1	10.10.3.130 Port: 80
16	SERVER 4	E. ROD. COR. DON EGEA FIX_1	10.10.4.120 Port: 80
17	SERVER 4	E. RODRIGUEZ COR. NEWYORK_FIX_1	10.10.4.70 Port: 80
18	SERVER 4	E. RODRIGUEZ CORDILLERA PTZ_1	10.10.3.120 Port: 8200
19	SERVER 4	E.RODRIGUEZ COR. FLORELLA_FIX_1	10.10.4.110 Port: 80

20	SERVER 4	E.RODRIGUEZ COR. FLORELLA_PTZ_1	10.10.4.111 Port: 8999
21	SERVER 4	E.RODRIGUEZ COR. GILMORE FIX_1	10.10.4.112 Port: 80
22	SERVER 4	E.RODRIGUEZ COR. GILMORE PTZ_1	10.10.4.113 Port: 8999
23	SERVER 4	E.RODRIGUEZ COR. NEW YORK_PTZ_1	10.10.4.71 Port: 80
24	SERVER 4	EAST COR. MAGALANG ST. FIX_1	10.10.4.60 Port: 80
25	SERVER 4	EDSA - PANAY_1	10.10.3.150 Port: 80
26	SERVER 4	EDSA - SCT. BORROMEO PTZ_1	10.10.3.205 Port: 8200
27	SERVER 4	F. MANALO COR. MONTE DE PIEDAD FIX_1	10.10.4.72 Port: 80
28	SERVER 4	KAMIAS CORNER EDSA 7-11 FIX_1	10.10.4.150 Port: 80
29	SERVER 4	MATABA COR. P.A. BERNARDO FIX1_1	10.10.4.80 Port: 80
30	SERVER 4	MATABA COR. P.A. BERNARDO FIX2_1	10.10.4.81 Port: 80
31	SERVER 4	MATATAG COR. MATAINO_FIX_1	10.10.4.50 Port: 80
32	SERVER 4	NIA RD COR. BIR ROAD_1 FIX	10.10.3.145 Port: 80
33	SERVER 4	POLICE STATION 10 - EDSA FIX_1	10.10.4.65 Port: 80
34	SERVER 4	QAVE - A.ROCES FIX_1	10.10.3.185 Port: 80
35	SERVER 4	QAVE - A.ROCES PTZ_1	10.10.3.180 Port: 8999
36	SERVER 4	QAVE - GEN. LIM FIX_1	10.10.3.195 Port: 80
37	SERVER 4	QAVE - GEN. LIM PTZ_1	10.10.3.190 Port: 80
38	SERVER 4	QAVE - SCT BORROMEO FIX_1	10.10.3.200 Port: 80
39	SERVER 4	QAVE - SCT BORROMEO PTZ_1	10.10.3.202 Port: 8999

40	SERVER 4	QAVE EDSA - DILG_1	10.10.3.175 Port: 8200
41	SERVER 4	SCT. REYES COR. MAGNOLIA ST. FIX_1	10.10.4.101 Port: 80
42	SERVER 4	SCT. TOBIAS - SCT. CHUATOCO FIX_1	10.10.3.170 Port: 80
43	SERVER 4	TIMOG - QAVE PTZ_1	10.10.3.140 Port: 8999
44	SERVER 4	TIMOG - SCT. TOBIAS FIX_1	10.10.3.165 Port: 80
45	SERVER 4	TOMAS MORATO COR. KAMUNING_FIX_1	10.10.4.95 Port: 80
46	SERVER 4	TOMAS MORATO COR. KAMUNING_PTZ_1	10.10.4.96 Port: 80
NO	SERVER	NAME	DETAILS
1	SERVER 5	EAGLE ST. BOUNDARY OF PAYATAS_1	10.10.2.86 Port: 80
2	SERVER 5	J.P. RIZAL COR. A. BONIFACIO PTZ_1	10.10.2.83 Port: 8999
3	SERVER 5	OLD BALARA COR. DUPAX ST FIX_1	10.10.2.54 Port: 80
4	SERVER 5	OLD BALARA COR. DUPAX ST PTZ_1	10.10.2.53 Port: 8999
5	SERVER 5	OLD BALARA COR. TANDANG SORA FIX_1	10.10.2.58 Port: 80
6	SERVER 5	OLD BALARA COR. TANDANG SORA PTZ_1	10.10.2.57 Port: 8999
7	SERVER 5	OMEGA ST. COR. ROLEX FIX_1	10.10.2.90 Port: 80
8	SERVER 5	PEARL DRIVE COR. COMM. PS5 FIX_1	10.10.2.87 Port: 80
9	SERVER 5	QAVE. - LUNG CENTER FIX_1	10.10.2.105 Port: 80
10	SERVER 5	QUIRINO CORNER ESPERANZA ST. FIX	10.10.2.102 Port: 80
11	SERVER 5	QUIRINO HI-WAY - BELFAST FIX	10.10.2.99 Port: 80
12	SERVER 5	QUIRINO HI-WAY - BELFAST PTZ	10.10.2.98 Port: 80
13	SERVER 5	QUIRINO HI-WAY - P.DELA CRUZ FIX_1	10.10.2.126 Port: 80

14	SERVER 5	QUIRINO HI-WAY - P.DE LA CRUZ PTZ_1	10.10.2.125 Port: 80
15	SERVER 5	QUIRINO HI-WAY - REGALADO PTZ_1	10.10.2.100 Port: 8999
16	SERVER 5	QUIRINO HI-WAY - SAUYO MARKET FIX_1	10.10.2.153 Port: 80
17	SERVER 5	QUIRINO HI-WAY - SAUYO MARKET FIX_2	10.10.2.154 Port: 80
18	SERVER 5	QUIRINO HI-WAY - TULLAHAN RD FIX_1	10.10.2.118 Port: 8999
19	SERVER 5	QUIRINO HI-WAY - TULLAHAN RD PTZ_1	10.10.2.117 Port: 80
20	SERVER 5	QUIRINO HI-WAY - ZABARTE FIX_1	10.10.2.95 Port: 80
21	SERVER 5	QUIRINO HI-WAY FRONT OF STI FIX_1	10.10.2.127 Port: 80
22	SERVER 5	REGALADO - REPUBLIC AVE FIX_1	10.10.2.91 Port: 80
23	SERVER 5	REGALADO - REPUBLIC AVE PTZ_1	10.10.2.88 Port: 8999
24	SERVER 5	REPUBLIC - CHESNUT FIX_1	10.10.2.89 Port: 80
25	SERVER 5	RIVER SIDE TRICYCLE TERMINAL FIX_1	10.10.2.67 Port: 80
26	SERVER 5	RIVERSIDE TRICYCLE TERMINAL PTZ_1	10.10.2.66 Port: 80
27	SERVER 5	ROAD 1 - MINDANAO FIX_1	10.10.2.110 Port: 80
28	SERVER 5	ROAD 1 - MINDANAO PTZ_1	10.10.2.109 Port: 80
29	SERVER 5	SAN MATEO COR. DAKILA FIX_1	10.10.2.81 Port: 80
30	SERVER 5	SAN MATEO COR. DAKILA PTZ_1	10.10.2.80 Port: 8999
31	SERVER 5	SITIO VETERANS FRONT OF SAGRADA CHURCH PTZ_1	10.10.2.85 Port: 8200
32	SERVER 5	SITIO VETERANS WET MARKET PTZ_1	10.10.2.156 Port: 8200
33	SERVER 5	TANDANG SORA - VISAYAS PALENGKE FIX_1	10.10.2.113 Port: 80

34	SERVER 5	TANDANG SORA - VISAYAS PALENGKE PTZ_1	10.10.2.112 Port: 8999
35	SERVER 5	TANDANG SORA AVE - CAPITOL HILLS FIX_1	10.10.2.51 Port: 80
36	SERVER 5	TANDANG SORA AVE - CAPITOL HILLS PTZ_1	10.10.2.50 Port: 8999
37	SERVER 5	UNIVERSITY AVE CORNER C.P. GARCIA FIX_1	10.10.2.161 Port: 80
38	SERVER 5	UNIVERSITY AVE CORNER C.P. GARCIA PTZ_1	10.10.2.160 Port: 8999
39	SERVER 5	UP WET MARKET FIX_1	10.10.2.152 Port: 80
40	SERVER 5	UP WET MARKET PTZ_1	10.10.2.151 Port: 8999
41	SERVER 5	VIOLAGO - SITIO PUGOT BAGONG SILANGAN FIX_1	10.10.2.84 Port: 80
42	SERVER 5	VISAYAS AVE. - ELLIPTICAL FIX_1	10.10.2.106 Port: 80
43	SERVER 5	VISAYAS AVE. - ROAD 1 FIX_1	10.10.2.108 Port: 80
44	SERVER 5	VISAYAS AVE. - ROAD 1 PTZ_1	10.10.2.107 Port: 8999
45	SERVER 5	ZUZUAREGGUI - CAPITOL HILLS FIX_1	10.10.2.60 Port: 80
46	SERVER 5	ZUZUAREGGUI - CAPITOL HILLS PTZ_1	10.10.2.59 Port: 8999

Breakdown of scope as follows:

Phase 1:

Supply and delivery of Cameras and other equipment and devices including but not limited to the following:

- Cameras for QC City Hall and QC PNP including brackets and surge protection
- Data Cabinets use for indoor IDF and MDF including shelves, PDU's and other accessories.
- Power Distribution Boxes use for outdoor IDF including shelves, PDU's and other accessories.
- Network Switches including SFP Modules
- Servers for Management and Storage including Hard Disk Drives
- Servers for Video Matrix and Cloud Platform
- Videowall Monitors including bracketry and connection cables, Operator Workstations and On-line Back-up power

Phase 2:

Supply and Installation of Cables and conduits including but not limited to the following:

- Supply and Installation of cables and conduits for QC City Hall Perimeter areas (UTP Cat5e for horizontal distribution and Fiber cables for backbone in an Electrical PVC Pipes, metal flexible conduits and fittings)
 - Supply and installation of copper and fiber patch panels including all patch cords and other peripherals.
 - Supply and Installation of CCTV Console as per approved by QC City Hall Representative.
 - Installation, Configuration, Testing and Commissioning of equipment and devices for QC City Hall Perimeter IP CCTV System.
- Phase 3:
- Supply and Installation of Remote Communication Boxes including but not limited to the following:
- Supply and Installation of cables and conduits from camera to Remote Communication Boxes (UTP Cat5e cables in an Electrical PVC Pipes, metal flexible conduits and fittings)
 - Supply and installation of Outdoor Remote Communication Boxes with devices bracketry and 220VAC Surge protection
 - Supply and installation of outdoor router and weatherproof PoE switches
 - Supply and installation of Surge Protection and Power Distribution Boards
 - Supply and installation of IP/PoE Extenders
 - Repair/replace and maintain existing street and major intersection cameras monitored by QCPD
- Phase 4:
- Installation of Head-end Equipment at the Unified Command Center including but not limited to the following:
- Mobilization/Demobilization, Project Management and Project Supervision
 - Configuration, Programming, Testing and Commissioning of Head-end equipment and Software
 - End-user System Training (Classroom and Hands-on) and System Hand-over
 - After-sales support, Preventive and Corrective Maintenance during Warranty Period.

PROJECT STANDARDS AND MINIMUM REQUIREMENTS

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

Field Equipment

"The Outdoor Field Equipment shall be composed of the following items depends on the location and instructions from the plottings in the location plans:

-3MP Fixed Bullet Camera, 2304 X 1296 resolution, video compression of H.264/H.265/+, day/night auto ICR, IR Range at least 50-60m, audio I/O, supports WEB, CMS, VMS & Cloud Services, motion detection, video loss, video block, mobile phone monitoring, ONVIF compliant, supports DWDR, 3D DNR and ingress protection of at least IP67 grade. Includes Surge protection front and end. Wall mount brackets and pole mount brackets shall also be included if the need is necessary depending in the location.

- 5MP Fixed Bullet Camera, 2592 X 1944 resolution, video compression of H.265, day/night auto ICR, IR Range at least 30m, audio compression G.711a, supports LAN/Wifi/AP mode, support micro SD Card and mobile phone monitoring, ONVIF compliant, ingress protection of at least IP66. Includes micro SD-card and Surge protection front and end. Wall mount brackets and pole mount brackets shall also be included if the need is necessary depending in the location.

-2MP IP PTZ Camera, 1080P resolution, at least 18X optical zoom, video compression of H.264/H.265/+, day/night auto ICR, two-way audio, 8 LED Lamp at 120m range, DWDR, 3D DNR, mobile phone monitoring, Multi Browser Access (IE, Chrome, Firefox, Safari), Auto Electronic Shutter Time, ONVIF compliant, with Built-in Storage SD Card, Lightning proof and anti-surge (TVSS4000V) and ingress protection of at least IP66. Surge protection front and end. Wall mount brackets and pole mount brackets shall also be included if the need is necessary depending in the location.

- Outdoor Router, 300Mbps, 2-RJ45 interface, PoE powered, with built-in 4G and Wifi antenna.

- Outdoor PoE Switch, 4* 10/100M POE, 1*SC Single Fiber Single Mode, IEEE802.3, IEEE 802.3u, 802.3af, IEEE802.3x, Backplane Bandwidth: 1Gbps, MAC: 4K, AC 100-240V, Water Proof IP 65, VLAN, POE: 48V (802.3af/at) Outdoor Enclosure with Camlock and complete electrical accessories inside and AC220VAC surge protection and data surge protection devices. "

Network Communication Equipment

All equipment shall be suitable for the working environments to where it should be deployed. Network Communication Equipment deployed in various IDF's and in the Command Center are comprise of the following items

- 32 Ports, 10G Managed Optical Fiber Switch, 24 Ports Gigabit SFP, plus 4*RJ45 Gigabit ports plus 4*SFP ports 10Gig uplink ports, built-in power supply.

- 28 Ports, 10G Managed Switch, 24 Port RJ45ports plus 4*SFP Uplink Ports 10Gig, built-in power supply

- Industrial 12 Ports, Full Gigabit switch, 8*PoE ports IEEE802.3af/at plus 2*RJ45 Ports plus 2*SFP Ports, includes Industrial type power supply.

- 28 Ports Full Gigabit PoE Switch, 24*Gigabit PoE Ports plus 2*RJ45 ports plus 2*SFP Uplink Ports, IEEE802.3af/at, 400W, includes SFP modules

- Gigabit Media Converters, 1RJ45 and 1-Fiber port, SC Dual Fiber, SM 1310nm, 20Kkm

- 10/100M PoE Extender, 1input port IEEE802.3af/at, plus 2* output ports IEEE802.3af

- 42U 600*800 Closed Data Cabinet including 24ports Cat6 Patch Panels, shelves, power strip and other accessories
- 15U Data Cabinet, wall mount including 24ports Cat6 Patch Panels, shelves, power strip and other accessories
- 4 and 24 port Fiber Patch Panels loaded.

Head-End Equipment

"The Head-End Equipment will function as the Central System for Management, Recording, Storage as well as Live and Playback Monitoring to a Video wall Matrix System. The video wall monitoring shall be via a Virtual Matrix and it should include a cloud service operation management platform which integrates project management, equipment management, user management, storage and storage management, and financial management. This system helps administrators provide users with vertical industry cloud platform solutions at PaaS / SaaS level.

To supply a platform where users can access unlimited devices at any time, enabling a quick assignment of roles to different users with different management rights, set up multiple project sites, or sub command centers without the need to setup and deploy the server hardware and software saving time and effort. It should be able to support multi-level group and a centralized equipment management with a unified configuration. Which will effectively solve the problem of multiple monitoring points. It should support equipment batch configuration and maintenance, with a one click deployment. It should provide remote monitoring in real time, using the web or mobile phone app, users can preview and playback the video, push alarm notification in real time, with system status monitoring. Devices will include the following:

- 200CH Central Management Server expandable to 5000ch, Linux OS 64 Bit multi core processor, VGA, 6 USB, 2 gigabit network port, 1 IPMI Port
- 128 Ch. Network Video Server, 24*HDD; 2*10/100/1000Mbps RJ45 Port, 2*HDMI, 1*VGA, 3*USB2.0 ports, 1*USB3.0 ports, 24SATA (support 6TB) RAID. Recording Parameters is 2MP, H.265, 15FPS, for 60 Calendar Days configured at RAID configuration.
- H.265 UHD 4K Network Digital Matrix, 16 screen, Display output: 8 ch 4K and 8 ch 1080P output; Video Input: 32-ch 4K/128-ch 1080P/256-ch 720P/512-ch D1; Splicing Form: 4x4, 4 U
- Network PTZ Keyboard Controller, supports network control mode, supports ONVIF protocol, supports operating IP PTZ.
- Core i7 Workstations, at least 16GB memory and 8GB Graphics Card, at least 1TB HDD. Includes 21.5" LED Monitor.
- 46" CCTV Video wall Monitor, Support up to 1920 x 1080 resolution, HDMI, DVI, VGA, and USB Inputs, High contrast ratio 4,000:1, Built-in Speaker and VESA mount of 500 x 400 (mm).

- 3KVA Online UPS, INPUT Voltage / Load:208V, 220V, 230V, 240V, 50 / 60 Hz Auto Sensing, Surge Protection: 120V (IEEE/C62.41) / 230V (IEEE/C1000-4-5 Level 3), Short Circuit Protection: Output Cut-off immediately, Alarm when battery discharge and UPS fault, RS-232 Serial Port and USB

Other Requirements

Other requirements must be considered as integral part of the bid proposal.

- 1.) The offered brand for CCTV cameras and equipment must at least have been in the Market for at least 20 years in existence in the Philippine market (there should be a proof of company stability who manufactures the CCTVs).
- 2.) The bidder must have at least 15 years of experience in the electronic security, surveillance industry.
- 3.) The bidder must submit a certificate that they are the authorized distributor of the brand being offered
- 4.) Bidders to submit single line diagram and camera locations reflected on a floor plan or site development plan.
- 5.) Upgrades for Version during warranty at no additional cost.
- 6.) Bidder must have an existing service center and technical support.
- 7.) Bidders must secure a certificate of site inspection from the end user.
- 8.) Bidders to submit camera locations reflected on a floor plan or site development plan.
- 9.) The bidder must include a system maintenance during the warranty period
- 10.) End to end technology transfer for the end user.

V. PROJECT IMPLEMENTOR

The Office of the City Administrator (OCA) shall be the Project Implementer on behalf of the Quezon City Government and shall be in-charge of ensuring the successful execution of the Project.

The DPOS is responsible to assist the OCA in project monitoring and strict implementation of the requirements and guidelines in this Terms of Reference.

VI. TERMS AND CONDITIONS

Responsibilities of the Service Provider

Winner Bidder shall comply with the following:

- a. Full Structured Cabling works for Perimeter Cameras at City Hall
- b. All conducting works in the City Hall
- c. Installation, testing and commissioning of IP CCTV System
- d. Replacement/Repair of Existing Cameras deployed in major intersections and major roads.
- e. Rehabilitation/Replacement of existing IP CCTV System
- f. Unified Monitoring of all cameras of City Hall and QCPD in the City Hall Command Center
- g. Existing Network Infrastructure, may be utilized. Contractor shall be responsible in repairing connectivity to the nearest IDF provided by QCG.

Responsibilities of the Quezon City Government (QCG)

- a. WAN and Internet connectivity will be provided by the QCG
- b. During the installation of the outdoor field equipment in all locations within the city boundaries, Traffic Management shall be in full coordination and assistance by the concerned Department of QCG.
- c. QCG will provide the needed 220V AC Mains wherever necessary to power up the CCTV System with proper grounding system.
- d. Any existing Passive and Active Network Equipment within the WAN found to be defective shall be provided by the QCG.
- e. Storage of items delivered will be provided by QCG.
- f. Permits will be provided by QCG.
- g. The QCG will provide additional mounting post if necessary.

Other Terms and Conditions

- a. Connectivity of all offered cameras shall be via wireless transmission or WAN
- b. Existing Monitors and Operator Workstations in the QCPD Command Center shall all be utilized.
- c. Existing Network passive and active equipment can be utilized.
- d. Poles, traffic lights post, lighting post, footbridge, etc... which are currently used for the camera mounting will be utilized.

VII. PROJECT DURATION

The Project Duration will be 90 calendar days upon issuance of Notice to Proceed.

VIII. APPROVED BUDGET FOR THE CONTRACT

The approved budget for the contract will be charge the Office of the City Mayor amounting to Fifty-Eight Million Pesos (P 58,000,000.00) inclusive of all relevant taxes and fees.

Particulars	Quantity	Unit	Estimated Unit Cost
	1	Lot	P 23,836,294.46
PHASE I: Supply & Delivery of Cameras, IDF, & Network Communication Equipment a.1) 442 sets of Fixed Bullet Camera / PTZ Cameras a.2) 9 sets of 15U Data Cabinet a.3) 2 sets of 42U Data Cabinet a.4) 1 lot of Network Switches for Command Center a.5) 1 lot of Central Management Server			

a.6) 8 sets of 128ch Network Video Recorder Server a.7) 128 sets of Enterprise Grade Hard Disk Drives a.8) 1 set of Keyboard Controller a.9) 1 lot of Network Video Matrix Server a.10) 8 sets of 46" Video Wall Monitor a.11) 5 sets Operator Workstation with 9 sets of 22" Led Monitor a.12) 6 sets of 3000VA On Line UPS			
PHASE II: Supply and Installation of Cables, Supervision, Installation, Termination, Testing, Commissioning, for Equipment installed at the City Hall. Supply of CCTV Equipment Console.	1	Lot	P 4,322,500.00
PHASE III: Supply and Installation of Remote Communication Boxes, and Installation of Cables, Supervision, Installation, Termination, Testing, Commissioning, for Remote Surveillance Equipment and set up of Command Center No. 2	1	Lot	P 23,167707.32
PHASE IV: Installation of Head-End Equipment For The Unified Command Center d.1) 1 lot of Mobilization & Demobilization d.2) 1 lot of Project Management d.3) 1 lot of Installation, Termination, Testing & Commissioning d.4) 1 lot of Project Hand Over – End User's Training d.5) 1 lot of after sales support, preventive and corrective maintenance during the warranty period	1	Lot	P 6,673,498.22
Total			P58,000,000.00

IX. PROJECT COST ADJUSTMENT

As stated in Section 61 of R.A. 9184 and its RIRR, 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.

X. WARRANTY

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

XI. TERMS OF PAYMENT

- 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.
- 40% Upon Delivery of all equipment included in Phase 1
- 10% Upon Completion of Phase II which includes Supply and Installation of Cables, Supervision, Installation, Termination, Testing, Commissioning, for Equipment installed at the City Hall.
- 25% Upon Completion of Phase III which includes Supply and Installation of Remote Communication Boxes, Installation of Cables, Supervision, Installation, Termination, Testing, Commissioning, for Remote Surveillance Equipment and set up of Command Center No. 2
- 10% for the completion of the Unification of the Command Center

XII. 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 RIRR.

XIII. CANCELLATION OR TERMINATION OF CONTRACT

The Contract may be cancelled 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 implementation of the project according to this Terms of Reference.
- 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 amicably to the mutual satisfaction of the parties, then the matter may be submitted 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 RIRR shall be followed in the cancellation or termination of this Contract.

Approved by:



MICHAEL VICTOR N. ALIMURUNG

City Administrator