



Republic of the Philippines  
Department of Budget and Management  
**PROCUREMENT SERVICE**  
**BIDS AND AWARDS COMMITTEE**



**Bid Bulletin No.3**  
**April 11, 2019**

**PUBLIC BIDDING NO. 19-108-7**

***Supply, Delivery, Installation, Testing and Commissioning of Security Surveillance System and Advance Traffic Management System at the NAIA Complex for Manila International Airport Authority (MIAA)***

Issued pursuant to Sec. 22.5 of the 2016 IRR of R.A. 9184 to clarify and/or amend certain provisions in the Bidding Documents issued to this project, considering the issues raised and clarifications made by prospective bidders during **Pre-Bid Conference** held on **March 27, 2019**, likewise, respond to bidders' written queries received within the prescriptive period for filing.

**A. CLARIFICATIONS/REQUEST**

<b>ISSUE / REQUEST</b>	<b>CLARIFICATION / RESOLUTION</b>
1. Soft copies of Drawings and Layouts	Soft copies of drawings and layouts in CD may be furnished to bidders who have purchase the bidding documents. The said documents are available at BAC VII Secretariat.
2. Inconsistencies of the requirements between Bid Data sheet, Schedule of Requirements and Special Condition of the Contract with the Terms of Reference.	To clarify that in case there is/are inconsistencies of requirement/s between Bid Data sheet, Schedule of Requirements and Special Condition of the Contract with the Terms of Reference, the former will prevail.

**B. AMENDMENTS**

REFERENCE	BASES FOR AMENDMENT
<p><b><u>Bid Data Sheet (Section III)</u></b>            ITB Clause No. 29.2            Pages 45            X X X</p> <p><del>18</del> Commitment letter from the bidder for a three (3) years warranty for CCTV System, Advance Traffic Management Systems, and workmanship of the project;</p> <p><del>19</del> <u>18</u> Commitment letter from the bidder that the Cabling installation is supported by a minimum of twenty (20) years system warranty.</p> <p><del>20</del> <u>19</u> Certification from the manufacturer that the CCTV equipment being offered does not belong from the "end of life cycle" of production lot. Spare parts availability and service is supported by an aggregate of Ten (10) years from manufacturing to Stock Keeping Unit (SKU) of parts. Warranty will take effect after the time of acceptance of the project by the end-user.</p> <p><del>21</del> <u>20</u> Commitment letter of warranty for five (5) years to cover CCTV and Advance Traffic Management Systems and workmanship of the project;</p> <p><del>22</del> <u>21</u> Proof that the Traffic Management System has a Service Center located in Metro Manila.</p> <p><del>23</del> <u>22</u> Pursuant to DOTr Memorandum dated June 26, 2018, disqualifying Bidders with pending cases against the government in the procurement activities of DOTr, Bidders for this procurement are required to submit a certificate certifying that they have no pending case(s) against the government.</p>	<p>To remove the requirements for "Commitment letter from the bidder for a three (3) years warranty for CCTV System, Advance Traffic Management Systems, and workmanship of the project;"</p>

**TECHNICAL SPECIFICATIONS (Section VII)**

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To include in Section VII, Technical Specification, the Bill of Material/Bill of Quantities of the Project. See attached Annex "A". Please note that in case there is/are discrepancies of quantities between BoM/BoQ and the Drawings/Layout the latter will prevail.

**C. CLARIFICATIONS**

<b>ITEM</b>	<b>ISSUE / REQUEST</b>	<b>CLARIFICATION / RESOLUTION</b>
<b>ABRATIQUE &amp; ASSOCIATES INC.<sup>1</sup></b>		
1	<p>➤ Manifest the redundancy of item 18 and 21 of ITB Clause 29.2 and likewise requested the duration of the commitment letter be 3 years to be consistent with the minimum service contracts in item 6 of clause 29.2 of same DBS</p>	Refer to above, item B - Amendments.
2	<p>➤ Request to amend the requirements of item 6 of ITB Clause 29.2 to the following in Consideration of RA 9292 and RA 7920 provision.</p> <ul style="list-style-type: none"><li>- At least Registered Electrical Engineer</li><li>- At least Registered electrical Engineer</li><li>- Civil Engineer</li></ul>	Requirement is retained.
<b>Remax International, Inc.<sup>2</sup></b>		
3	<p>➤ Request to relax the fifty percent (50%) requirement of SLCC to at least two (2) similar contract and the aggregate amount is equivalent to at least fifty percent (50%) of the ABC</p>	Requirement is retained.

<sup>1</sup> Letter dated March 28, 2019.

<sup>2</sup> Letter dated April 01, 2019.

4	<ul style="list-style-type: none"> <li>➤ Request to relax the definition on SLCC to " Supply &amp; Install Ip-Based surveillance and Information Technology Security Management System or purely IP-Based CCTV Surveillance System".</li> </ul>	Requirement is retained.
	<ul style="list-style-type: none"> <li>➤ Requested for approval of scheduled site visit.</li> </ul>	The request cannot be granted as MIAA is currently under evaluation by foreign auditors.
<b><i>Annex Digital Inc.<sup>3</sup></i></b>		
5	<p>Page 35, Item 2.5.1 Technical Specifications in relation to Terms of Reference</p> <ul style="list-style-type: none"> <li>➤ Request clarification if 180° for wall mount and 360° for ceiling mount in 2D perspective be acceptable for the requirement of 185° angle of view for fish eye as it is the standard for most of the manufacturer.</li> </ul>	Requirement is retained as it is in line with the required focal length and was computed based on the height, distance of the location where the camera will be installed.
6	<p>Page 35, Item 2.5.1 Technical Specifications in relation to Terms of Reference</p> <ul style="list-style-type: none"> <li>➤ Request to accept a single alarm input (in/out 1/1) for the camera <u>Alarm and Audio</u> which require a minimum of 2 inputs, as most camera utilize RS 485 as an additional alarm input.</li> </ul>	Requirement is retained as RS 485 has different protocol.
7	<p>Section VII Technical Specifications that requires a Type 170 Controller or any equivalent Modular Type Controller and 336 Cabinet or any equivalent modular type cabinet and Quiknet Software or Traffic Management Software.</p> <ul style="list-style-type: none"> <li>➤ Request clarification if the term <b>equivalent type</b> refers to "Modular Type" or the equivalent type 170 controller, 336 cabinet and quiknet software. Likewise if a modular type</li> </ul>	To clarify that the term "Equivalent Type", this refers to product that have or equal functions, and should be recognized around the world and or should has an installation in the Philippines. Also, please note that the offers for the Type 170 or its equivalent module should belong to a <u>NON-PROPRIETARY EQUIPMENT</u>

<sup>3</sup> Letter dated April 01, 2019.

	controller recognized around the world and with current installation in the Philippines be acceptable for the requirement.	
8	➤ Request for a 30 days extension in the submission of bid due to upcoming holidays and to allow ample time in the bid preparation.	Refer to bid bulletin No. 1 issued April 08, 2019
<b>Boston Home Inc.<sup>4</sup></b>		
9	➤ Request for extension of the submission of bid to allow ample time in the bid preparation	Refer to bid bulletin No. 1 issued April 08, 2019
<b>Telefonica Inc.<sup>5</sup></b>		
10	➤ Request to relax the fifty percent (50%) requirement of SLCC to at least two (2) similar contracts and the aggregate contract amount should be equivalent to at least 50 percent of the ABC and the largest of this similar contract must be equivalent to at least half of the percentage of the ABC as required above.	Requirement is retained.
<b>Passim Solutions Inc.<sup>6</sup></b>		
11	➤ Request to add a Multifocal sensor system cameras in the TOR requirements due to its features designed for airport surveillance.	Requirement is retained.
12	➤ Request for extension of the submission of bids to allow ample time in the bid preparation	Refer to bid bulletin No. 1 issued April 08, 2019
<b>Kempal Construction and Supply Corporation.<sup>7</sup></b>		
13	➤ Request to relax the fifty percent (50%) requirement of SLCC to at least two (2) similar contract and the	Requirement is retained.

<sup>4</sup> Letter dated April 01, 2019

<sup>5</sup> Letter dated April 01, 2019

<sup>6</sup> Letter dated April 01, 2019

<sup>7</sup> Letter dated April 01, 2019

	aggregate amount is equivalent to at least fifty percent (50%) of the ABC	
14	➤ Request for approval of scheduled site visit.	The request cannot be granted as MIAA is currently under evaluation by foreign auditors.

By Rules, all other related provisions in the Bidding Documents correspondingly affected by these amendments are likewise deemed amended to conform to this Bid Bulletin.

Amendments made herein shall be considered an integral part of the Bidding Documents.

The clarifications explain in greater detail the purpose or intent of the requirement and do not necessarily amend that particular provision in the bidding documents.

  
**ROSALINDA V. DAPITO**  
 Chairperson, BAC VII

<sup>1</sup> For the purpose of this Bulletin and for better understanding of its contents, the following rules shall apply: (a) ~~Double Strike-out~~ – denotes deletion; (b) Underline – denotes inclusion or new item/requirement; and "xxx" – denotes separation of phrase/s being amended from the rest of the main text.

# Zone Alpha - Terminal 1

AGENCY SPECIFICATIONS		BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>			
<b>(CIVIL WORKS)</b>			
<b>LOCATION / ZONE: NAIA TERMINAL 1 / ZONE ALPHA</b>			
ITEM #	DESCRIPTION	QTY.	UNITS
<b>I.</b>	<b>Construction of CCTV Pole</b>		
<b>A.</b>	<b>Excavations Works (27 sets of Foundation Pole)</b>		
	Volume: 67.5 cu.m.		
<b>B.</b>	<b>Construction Concrete Pedestal for CCTV Pole</b>		
<b>C.</b>	<b>Supply and Installation of CCTV Pole</b>		
	<i>Material:</i>		
1	Supply of CCTV Pole	27	sets
	Height: 6m		
	Base Diameter: 200mm		
	Shape: Round with constant tapered of 12mm per meter		
	Thickness: 6mm		
	Base Plate: 350mm x 350 mm x 22mm thk. ASTM 36		
	Stiffener Plate: 20mm thk.		
	Pole Material: ASTM A572 Grade 50		
	Pole Surface: Hot-dip galvanized following ASTM A123		
	Brackets/Arm: Single Bracket Arm		
	Weld Metal: E70XX		
2	Supply of Anchor Bolt	108	sets
	Size : 1" x 36" x 4"		
	Material : ASTM F1554 Grade 55 with ASTM A563 Grade A heavy- hex nuts and plate washers. ASTM F2329 galvanization		
	<i>Labor:</i>		
1	<i>Installation of CCTV Pole</i>	27	sets
<b>II.</b>	<b>Supply of labor and materials for Improvement of Control Room</b>		
<b>A.</b>	<b>SITE WORKS</b>		
	Demolition and Hauling Works		
	Including removal of Existing Wall Partition and ceiling and hauling of debris		
<b>B.</b>	<b>MASONRY WORKS</b>		
	<i>Materials:</i>		
1	CHB, 200mmx400mm	570	pcs.
2	Cement (40kg/bag)	55	bags
3	Sieved Sand	3	cu.m.
4	Deformed Bar, 10mm dia. X 6m	35	pcs.
<b>C.</b>	<b>Supply and Installation for Steel Cement Floor Panels</b>		
	<b>Including Preparation of Flooring to install Steel Panels</b>		
	<i>Materials:</i>		
1	Laminate Tile-Double Cup Suction Lifter	650	sets
	Size: 300mmx610mmx610		



AGENCY SPECIFICATIONS		BIDDER'S STATEMENT OF COMPLIANCE	
<b>D.</b>	<b>Supply of Labor and Materials for Installation Tempered Glass Doors</b>		
	<b>Tempered Glass Panels and Flush Door</b>		
	<i>Materials:</i>		
	<i>A. Tempered Glass Panels- 12 mm thk.</i>		
1	Size : 2.5 x 0.2m Location: Conference room	2	units
2	Size : 2.5 x 0.22m Location: Conference room	1	unit
3	Size : 2.5 x 0.60m Location: In between Conference/Equipment	1	unit
4	Size : 2.5 x 0.87m Location: Equipment Room	3	unit
5	Size : 2.5 x 2m Location: Conference room	1	unit
6	Size : 2.5 x 1.1 m Location: Conference room	1	unit
7	Size : 2.5 x 1.20 m Location: Conference room/Entrance Control Room	2	units
8	Size : 2.5 x 0.13 m Location: Entrance Control Room	1	unit
9	Size : 2.5 x 0.13 m Location: Foyer	2	units
	<i>B. Tempered Glass Door - 10 mm thk with top and bottom corner patch fittings</i>		
1	D1-Double Swing Door Size: 2.10 x 0.90 m (2 panels) Quantity : 3 sets Loc.: Conference Room, Control room, Equipment Room	3	sets
2	D2-Single Swing Door Size: 2.10 x 0.90 m (1 panel) Quantity : 1 set Loc.: Conference Room	1	set
3	D6-Double Swing Door Size: 2.10 x 0.75 m (2 panels) Quantity : 1 set Loc.: Stair/Library	1	set
	<i>C. Wooden Flush Door with Door Jamb (0.04m)</i>		
1	Size: 2.10 x 0.90 m Quantity : 1 set Loc.: Library	1	set
2	Size: 2.10 x 0.70 m Quantity : 1 set Loc.: Storage Room	1	set
<b>E.</b>	<b>CARPENTRY WORKS</b>		
	<i>Materials:</i>		
1	Acoustic Board, 600mmx600mmx20mm thk.	650	pcs.
2	Aluminum Main Tee Runner, 1"X1-1/2"X12'	100	pcs.
3	Aluminum Cross Tee Runner, 1"X1"X2'	100	pcs.
4	Aluminum Wall Angle, 6m Length	19	pcs.
5	Adjustable Clip	90	pcs.
6	Full Threaded Rod, 6m x 3/8" dia.	45	pcs.
7	Expansion Bolt, 3/8" dia.	190	pcs.

AGENCY SPECIFICATIONS			BIDDER'S STATEMENT OF COMPLIANCE
8	Plastic Laminate, 4' x 8'	14	pcs.
9	Plastic Laminate Glue,	7	kg
10	Ficem Board, 4'x8'x9mm thk.	25	pcs.
11	Hold Down Clip	600	pcs.
12	C-Studs, 35mmx102mmx1mm thk., 3m Length	80	pcs.
13	U-track,32mmx102mmx1mm thk., 3m Length	5	pcs.
14	tox screw	200	pcs.
15	Self Drilling Screw, 1/8" x 3/4"	2	box
<b>F. PAINTING WORKS</b>			
<i>Materials:</i>			
1	Semi-Gloss Latex	15	gal
2	Flat Latex White	24	gal
<b>III MISCELLANEOUS WORKS</b>			
<i>Supply, Fabrication and Installation:</i>			
1	Desk - Bow shaped desk on panel legs, 3 drawers on panel legs, high pressure laminated top, melamine-face panel legs with adjustable leveler glides powder coated modesty panel (0.90mW x 2.5mL x 0.70mH)	1	sets
2	Chair - midback chair, mesh back, fabric upholster seat, high quality medium density foam upholstered of high quality mesh fabric. (0.70mW x 0.52mD x 0.92m-0.95mH)	2	sets

I hereby certify that the statement of compliance to the foregoing agency specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Signature Over Printed Name of  
Authorized Representative

\_\_\_\_\_  
Date

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>(ELECTRONICS AND COMMUNICATIONS)</b>					
<b>LOCATION: NAIA TERMINAL 1 / ZONE ALPHA</b>					
<b>I. NAIA TERMINAL 1 - ARRIVAL LEVEL</b>					
ITEM NO.	DESCRIPTION	QTY	UNIT		
<b>CABLES &amp; PERIPHERALS</b>					
1	Fiber Optic Cable 4Core, Multimode 50/125 - OM4	11,677	meters		
2	Fiber Optic Cable 24Core, Multimode 50/125 - OM4	60	meters		
3	Fiber Optic Cable 48Core, Multimode 50/125 - OM4	1,404	meters		
4	Fiber Optic SC Pigtail-MM 50/125 -1.5m - OM4	1,392	pcs		
5	Fiber Optic SC-SC Patch Cord-MM 50/125 -2m Duplex - OM4	174	pcs		
6	Fiber Distribution Panel SC Coupler 48P	20	pcs		
7	RJ45 Connector	174	pcs		
<b>CONDUITS &amp; OTHER ACCESSORIES</b>					
8	20mm dia IMC Pipe with coupling (10'/length)	636	length		
9	20mm dia IMC coupling	43	pcs		
10	20mm dia IMC locknut and bushing	256	pcs		
11	20 mm dia IMC elbow	174	pcs		
12	25mm dia IMC Pipe with coupling (10'/length)	492	length		
13	25mm dia IMC coupling	33	pcs		
14	25mm dia IMC locknut and bushing	202	pcs		
15	Strut Channel, 10' / length	80	pcs		
16	Strut Clamp, 20mm dia	1,272	pcs		
17	Strut Clamp, 25mm dia	984	pcs		
18	#8 metal screw and #8 plastic tox	4,512	pcs		
19	Full Threaded 3/8" (8'/length)	2,256	length		
20	M10 Nut and washer	4,512	pcs		
<b>CABINETS &amp; BOXES</b>					
21	19" Rack Closed Cabinet 42U 80cm x 60cm	4	pcs		
22	Indoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single w/ mounting bracket	78	pcs		
23	Outdoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single with mounting bracket	9	pcs		
24	Pull Box 12x12x12	8	pcs		
25	Junction Box w/ cover, Ga. 16 deep type 4x4	229	pcs		
<b>II. NAIA TERMINAL 1 - ARRIVAL EXTENSION</b>					
ITEM NO.	DESCRIPTION	QTY	UNIT		
<b>CABLES &amp; PERIPHERALS</b>					
1	Fiber Optic Cable 4Core, Multimode 50/125 - OM4	2,410	meters		
2	Fiber Optic Cable 24Core, Multimode 50/125 - OM4	275	meters		
3	Fiber Optic Cable 48Core, Multimode 50/125 - OM4	275	meters		
4	Fiber Optic SC Pigtail-MM 50/125 -1.5m - OM4	288	pcs		
5	Fiber Optic SC-SC Patch Cord-MM 50/125 -2m Duplex - OM4	36	pcs		
6	Fiber Distribution Panel SC Coupler 48P	4	pcs		
7	RJ45 Connector	36	pcs		
<b>CONDUITS &amp; OTHER ACCESSORIES</b>					
8	20mm dia IMC Pipe with coupling (10'/length)	111	length		
9	20mm dia IMC coupling	8	pcs		
10	20mm dia IMC locknut and bushing	46	pcs		
11	20 mm dia IMC elbow	36	pcs		

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>(ELECTRONICS AND COMMUNICATIONS)</b>					
<b>LOCATION: NAIA TERMINAL 1 / ZONE ALPHA</b>					
12	25mm dia IMC Pipe with coupling (10'/length)	126	length		
13	25mm dia IMC coupling	33	pcs		
14	25mm dia IMC locknut and bushing	52	pcs		
15	50mm dia Rigid PVC Pipe with coupling (10'/length)	81	length		
16	50mm dia Rigid PVC locknut and bushing	32	pcs		
17	Strut Channel, 10' / length	17	pcs		
18	Strut Clamp, 20mm dia	222	pcs		
19	Strut Clamp, 25mm dia	252	pcs		
20	#8 metal screw and #8 plastic tox	948	pcs		
21	Full Threaded 3/8" (8'/length)	474	length		
22	M10 Nut and washer	1,896	pcs		
<b>CABINETS &amp; BOXES</b>					
23	19" Rack Closed Cabinet 42U 80cm x 60cm	1	pcs		
24	Indoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single w/ mounting bracket	4	pcs		
23	Outdoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single with mounting bracket	14	pcs		
25	Pull Box 12x12x12	10	pcs		
26	Junction Box w/ cover, Ga. 16 deep type 4x4	65	pcs		
<b>III. NAIA TERMINAL 1 - DEPARTURE LEVEL</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>		
<b>CABLES &amp; PERIPHERALS</b>					
1	Fiber Optic Cable 4Core, Multimode 50/125 - OM4	14,660	meters		
2	Fiber Optic Cable 24Core, Multimode 50/125 - OM4	51	meters		
3	Fiber Optic Cable 48Core, Multimode 50/125 - OM4	258	meters		
4	Fiber Optic SC Pigtail-MM 50/125 -1.5m - OM4	1,136	pcs		
5	Fiber Optic SC-SC Patch Cord-MM 50/125 -2m Duplex - OM4	142	pcs		
6	Fiber Distribution Panel SC Coupler 48P	14	pcs		
7	RJ45 Connector	142	pcs		
<b>CONDUITS &amp; OTHER ACCESSORIES</b>					
8	20mm dia IMC Pipe with coupling (10'/length)	418	length		
9	20mm dia IMC coupling	28	pcs		
10	20mm dia IMC locknut and bushing	168	pcs		
11	20 mm dia IMC elbow	142	pcs		
12	25mm dia IMC Pipe with coupling (10'/length)	601	length		
13	25mm dia IMC coupling	40	pcs		
14	25mm dia IMC locknut and bushing	242	pcs		
15	Strut Channel, 10' / length	73	pcs		
16	Strut Clamp, 20mm dia	836	pcs		
17	Strut Clamp, 25mm dia	1,202	pcs		
18	#8 metal screw and #8 plastic tox	4,076	pcs		
19	Full Threaded 3/8" (8'/length)	2,038	length		
20	M10 Nut and washer	8,152	pcs		
<b>CABINETS &amp; BOXES</b>					
21	19" Rack Closed Cabinet 42U 80cm x 60cm	2	pcs		
22	Indoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single w/ mounting bracket	62	pcs		

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>(ELECTRONICS AND COMMUNICATIONS)</b>				
<b>LOCATION: NAIA TERMINAL 1 / ZONE ALPHA</b>				
23	Outdoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single with mounting bracket	9	pcs	
24	Pull Box 12x12x12	8	pcs	
25	Junction Box w/ cover, Ga. 16 deep type 4x4	205	pcs	
<b>IV. NAIA TERMINAL 1 - OBSERVATION LEVEL</b>				
ITEM NO.	DESCRIPTION	QTY	UNIT	
<b>CABLES &amp; PERIPHERALS</b>				
1	Fiber Optic Cable 4Core, Multimode 50/125 - OM4	1,215	meters	
2	Fiber Optic SC Pigtail-MM 50/125 -1.5m - OM4	128	pcs	
3	Fiber Optic SC-SC Patch Cord-MM 50/125 -2m Duplex - OM4	16	pcs	
4	Fiber Distribution Panel SC Coupler 48P (EOC Room)	34	pcs	
5	RJ45 Connector	16	pcs	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
6	20mm dia IMC Pipe with coupling (10'/length)	181	length	
7	20mm dia IMC coupling	12	pcs	
8	20mm dia IMC locknut and bushing	74	pcs	
9	20 mm dia IMC elbow	16	pcs	
10	25mm dia IMC Pipe with coupling (10'/length)	276	length	
11	25mm dia IMC coupling	19	pcs	
12	25mm dia IMC locknut and bushing	112	pcs	
13	Strut Channel, 10' / length	33	pcs	
14	Strut Clamp, 20mm dia	362	pcs	
15	Strut Clamp, 25mm dia	552	pcs	
16	#8 metal screw and #8 plastic tox	1,828	pcs	
17	Full Threaded 3/8" (8'/length)	854	length	
18	M10 Nut and washer	3,416	pcs	
<b>CABINETS &amp; BOXES</b>				
19	19" Rack Closed Cabinet 42U 80cm x 60cm (EOC Room)	1	pcs	
20	Indoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single w/ mounting bracket	8	pcs	
21	Pull Box 12x12x12	1	pcs	
22	Junction Box w/ cover, Ga. 16 deep type 4x4	93	pcs	
<b>V. NAIA TERMINAL 1 - ROOF DECK LEVEL</b>				
ITEM NO.	DESCRIPTION	QTY	UNIT	
<b>CABLES &amp; PERIPHERALS</b>				
1	Fiber Optic Cable 4Core, Multimode 50/125 - OM4	4,956	meters	
2	Fiber Optic Cable 48Core, Multimode 50/125 - OM4	567	meters	
3	Fiber Optic SC Pigtail-MM 50/125 -1.5m - OM4	512	pcs	
4	Fiber Optic SC-SC Patch Cord-MM 50/125 -2m Duplex - OM4	66	pcs	
5	Fiber Distribution Panel SC Coupler 48P	6	pcs	
6	RJ45 Connector	66	pcs	
<b>ACTIVE/PASSIVE EQUIPMENT &amp; PERIPHERALS</b>				
7	Access Point	3	pc	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
8	20mm dia IMC Pipe with coupling (10'/length)	62	length	

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>(ELECTRONICS AND COMMUNICATIONS)</b>				
<b>LOCATION: NAIA TERMINAL 1 / ZONE ALPHA</b>				
9	20mm dia IMC coupling	23	pcs	
10	20mm dia IMC locknut and bushing	32	pcs	
11	20 mm dia IMC elbow	64	pcs	
12	25 mm dia IMC Pipe with coupling (10'/length)	848	length	
13	25mm dia IMC coupling	57	pcs	
14	25 mm dia IMC locknut and bushing	342	pcs	
15	Strut Channel, 10' / length	61	pcs	
16	Strut Clamp, 20mm dia	1,696	pcs	
17	#8 metal screw and #8 plastic tox	3,500	pcs	
<b>CABINETS &amp; BOXES</b>				
18	19" Rack Closed Cabinet 42U 80cm x 60cm	1	pcs	
19	Outdoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single with mounting bracket	34	pcs	
20	Pull Box 12x12x12	6	pcs	
21	Junction Box w/ cover, Ga. 16 deep type 4x4	171	pcs	
<b>VI. NAIA TERMINAL 1 - APRON LEVEL</b>				
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	
<b>CABLES &amp; PERIPHERALS</b>				
1	Fiber Optic Cable 4Core, Multimode 50/125 - OM4	8,402	meters	
2	Fiber Optic Cable 12Core, Multimode 50/125 - OM4	60	meters	
3	Fiber Optic Cable 48Core, Multimode 50/125 - OM4	240	meters	
4	Fiber Optic SC Pigtail-MM 50/125 -1.5m - OM4	976	pcs	
5	Fiber Optic SC-SC Patch Cord-MM 50/125 -2m Duplex - OM4	122	pcs	
6	Fiber Distribution Panel SC Coupler 48P	12	pcs	
7	RJ45 Connector	122	pcs	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
8	20mm dia IMC Pipe with coupling (10'/length)	273	length	
9	20mm dia IMC coupling	19	pcs	
10	20mm dia IMC locknut and bushing	110	pcs	
11	20mm dia IMC elbow	122	pcs	
12	25mm dia IMC Pipe with coupling (10'/length)	308	length	
13	25mm dia IMC coupling	21	pcs	
14	25mm dia IMC locknut and bushing	174	pcs	
15	Strut Channel, 10' / length	42	pcs	
16	Strut Clamp, 20mm dia	546	pcs	
17	Strut Clamp, 25mm dia	616	pcs	
18	#8 metal screw and #8 plastic tox	2,324	pcs	
19	Full Threaded 3/8" (8'/length)	1,162	length	
20	M10 Nut and washer	4,648	pcs	
<b>CABINETS &amp; BOXES</b>				
21	19" Rack Closed Cabinet 42U 80cm x 60cm	2	pcs	
22	Indoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single w/ mounting bracket	11	pcs	
23	Outdoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single with mounting bracket	50	pcs	
24	Pull Box 12x12x12	16	pcs	
25	Junction Box w/ cover, Ga. 16 deep type 4x4	142	pcs	

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>(ELECTRONICS AND COMMUNICATIONS)</b>				
<b>LOCATION: NAIA TERMINAL 1 / ZONE ALPHA</b>				
<b>VII. NAIA TERMINAL 1 - PARKING AREAS</b>				
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	
<b>CABLES &amp; PERIPHERALS</b>				
1	UTP Cat6 Cable	31	meters	
2	RJ45 Connector	124	pcs	
<b>ACTIVE/PASSIVE EQUIPMENT &amp; PERIPHERALS</b>				
3	Station Antenna	31	pcs	
<b>CABINETS &amp; BOXES</b>				
4	Outdoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single with mounting bracket	26	pcs	
<b>VIII. MIAA ADMIN COMPOUND</b>				
<b>CABLES &amp; PERIPHERALS</b>				
1	UTP Cat6 Cable	12	meters	
2	Fiber Optic Cable 4Core, Single Mode 9/125 - OS1	613	meters	
3	Fiber Optic SC Pigtail-SM 9/125 -1.5m - OS1	192	pcs	
4	Fiber Optic SC-SC Patch Cord-SM 9/125 -2m Duplex - OS1	24	pcs	
5	Fiber Distribution Panel SC Coupler 48P	2	pcs	
6	RJ45 Connector	72	pcs	
<b>ACTIVE/PASSIVE EQUIPMENT &amp; PERIPHERALS</b>				
7	Station Antenna	12	pcs	
8	Access Point	2	pcs	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
9	20mm dia IMC Pipe with coupling (10'/length)	118	length	
10	20mm dia IMC coupling	59	pcs	
11	20mm dia IMC locknut and bushing	36	pcs	
12	20mm dia IMC elbow	26	pcs	
13	25mm dia IMC Pipe with coupling (10'/length)	10	length	
14	25mm dia IMC coupling	5	pcs	
15	25mm dia IMC locknut and bushing	7	pcs	
16	Strut Channel, 10' / length	7	pcs	
17	Strut Clamp, 20mm dia	176	pcs	
18	Strut Clamp, 25mm dia	10	pcs	
19	#8 metal screw and #8 plastic tox	372	pcs	
<b>CABINETS &amp; BOXES</b>				
20	19" Rack Closed Cabinet 42U 80cm x 60cm	1	pcs	
21	Indoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single w/ mounting bracket	8	pcs	
22	Outdoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single with mounting bracket	15	pcs	
23	Pull Box 12x12x12	10	pcs	
24	Junction Box w/ cover, Ga. 16 deep type 4x4	20	pcs	
<b>IX. ICT COMPOUND</b>				
<b>CABLES &amp; PERIPHERALS</b>				
1	UTP Cat6 Cable	13	meters	
2	Fiber Optic Cable 4Core, Single Mode 9/125 - OS1	4,153	meters	

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>(ELECTRONICS AND COMMUNICATIONS)</b>				
<b>LOCATION: NAIA TERMINAL 1 / ZONE ALPHA</b>				
3	Fiber Optic SC Pigtail-SM 9/125 -1.5m - OS1	352	pcs	
4	Fiber Optic SC-SC Patch Cord-SM 9/125 -2m Duplex - OS1	44	pcs	
5	Fiber Distribution Panel SC Coupler 48P	4	pcs	
6	RJ45 Connector	70	pcs	
<b>ACTIVE/PASSIVE EQUIPMENT &amp; PERIPHERALS</b>				
7	Station Antenna	13	pc	
8	Access Point	3	pc	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
9	20mm dia IMC Pipe with coupling (10'/length)	141	length	
10	20mm dia IMC coupling	10	pcs	
11	20mm dia IMC locknut and bushing	56	pcs	
12	20mm dia IMC elbow	68	pcs	
13	25mm dia IMC Pipe with coupling (10'/length)	211	length	
14	25mm dia IMC coupling	16	pcs	
15	25mm dia IMC locknut and bushing	92	pcs	
16	Strut Channel, 10' / length	26	pcs	
17	Strut Clamp, 20mm dia	282	pcs	
18	Strut Clamp, 25mm dia	462	pcs	
19	#8 metal screw and #8 plastic tox	1,488	pcs	
20	Full Threaded 3/8" (8'/length)	744	length	
21	M10 Nut and washer	2,976	pcs	
<b>CABINETS &amp; BOXES</b>				
22	19" Rack Closed Cabinet 42U 80cm x 60cm	1	pcs	
23	Indoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single w/ mounting bracket	11	pcs	
24	Outdoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single with mounting bracket	21	pcs	
25	Pull Box 12x12x12	21	pcs	
26	Junction Box w/ cover, Ga. 16 deep type 4x4	59	pcs	
<b>X. APD-HQ COMPOUND</b>				
<b>CABLES &amp; PERIPHERALS</b>				
1	UTP Cat6 Cable	10	meters	
2	Fiber Optic Cable 4Core, Single Mode 9/125 - OS1	212	meters	
3	Fiber Optic SC Pigtail-SM 9/125 -1.5m - OS1	128	pcs	
4	Fiber Optic SC-SC Patch Cord-SM 9/125 -2m Duplex - OS1	16	pcs	
5	Fiber Distribution Panel SC Coupler 48P	2	pcs	
6	RJ45 Connector	54	pcs	
<b>ACTIVE/PASSIVE EQUIPMENT &amp; PERIPHERALS</b>				
7	Station Antenna	10	pc	
8	Access Point	2	pc	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
9	20mm dia IMC Pipe with coupling (10'/length)	22	length	
10	20mm dia IMC coupling	4	pcs	
11	20mm dia IMC locknut and bushing	11	pcs	
12	20mm dia IMC elbow	34	pcs	
13	25mm dia IMC Pipe with coupling (10'/length)	7	length	
14	25mm dia IMC coupling	2	pcs	



AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>(ELECTRONICS AND COMMUNICATIONS)</b>					
<b>LOCATION: NAIA TERMINAL 1 / ZONE ALPHA</b>					
15	25mm dia IMC locknut and bushing	4	pcs		
16	Strut Channel, 10' / length	5	pcs		
17	Strut Clamp, 20mm dia	116	pcs		
18	Strut Clamp, 25mm dia	8	pcs		
19	#8 metal screw and #8 plastic tox	250	pcs		
<b>CABINETS &amp; BOXES</b>					
20	19" Rack Closed Cabinet 42U 80cm x 60cm	1	pcs		
21	Indoor Enclosure 12"x16"x12", NEMA 3R w/ ventilation and knock-out, single with mounting bracket	4	pcs		
22	Outdoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single with mounting bracket	13	pcs		
23	Pull Box 12x12x12	6	pcs		
24	Junction Box w/ cover, Ga. 16 deep type 4x4	10	pcs		
<b>XI. PERIMETER &amp; ROADWAYS</b>					
<b>CABLES &amp; PERIPHERALS</b>					
1	UTP Cat6 Cable	6	meters		
2	RJ45 Connector	24	pcs		
<b>ACTIVE/PASSIVE EQUIPMENT &amp; PERIPHERALS</b>					
3	Station Antenna	6	pc		
<b>CABINETS &amp; BOXES</b>					
4	Outdoor Enclosure 12"x12"x16", NEMA 3R w/ ventilation and knock-out, single with mounting bracket	2	pcs		

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>(ELECTRICAL)</b>				
<b>LOCATION: NAI A T1 COMPLEX, ADMIN COMPLEX, ICT AREA, APD HQ AND ROAD WAYS</b>				
<b>ELECTRICAL WORKS:</b>				
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	
<b>WIRES AND CABLES:</b>				
1	3.5 mm sq. THHN Electrical Copper Wire, 150 m/roll	134	roll	
2	8.0 mm sq. THHN Electrical Copper Wire, 150 m/roll	58	roll	
3	14 mm sq. THHN Electrical Copper Wire, 150 m/roll	218	roll	
<b>BOXES:</b>				
4	Pull Box 8" X 8" X 6" GI Type, Heavy Duty	40	pcs	
5	Junction Box, G.I. Type with Cover, Heavy Duty	875	pcs	
<b>CONDUITS AND FITTINGS:</b>				
6	20 mm diameter IMC with Coupling	2898	length	
7	Locknut and Bushing for IMC 20 mm diameter	3122	pair	
8	15 mm diameter Flexible Metallic Conduit, Heavy Duty (30 m/roll)	18	roll	
9	15 mm diameter Metallic Straight Connector, Heavy Duty	951	pcs	
<b>HANGERS AND SUPPORTS:</b>				
10	Strut Channel, 10 ft/length	589	length	
11	Strut Clamp, 20 mm diameter	4367	pcs	
12	Suspension Rod 10 mm diameter, full threaded, 10 ft / length	754	length	
13	Nut and Washer for 10 mm diameter full threaded rod	2507	pair	
14	Expansion Shield for 10 mm diameter full threaded rod	2154	pcs	
<b>CIRCUIT BREAKERS AND PANELBOARDS:</b>				
15	30 AT, 50 AF, 3 Pole Circuit Breaker with Nema 3R Enclosure	11	pcs	
16	Panel Board Main: 30AT, 50AF, 3P, TQC Type Branches: 4 - 20AT, 50AF, 2 Pole, Bolt-on TQC Type	9	assy	
17	Miniature Circuit Breaker 15 AT, 2 Pole, 60 HZ	310	pcs	
<b>MISCELLANEOUS:</b>				
18	Solar Panel 70W	50	units	
19	Electrical Vinyl Tape Super +33	125	roll	
20	Rubber Insulation Tape	59	roll	
<b>LIGHTNING PROTECTION:</b>				
21	Lightning Arrester Complete with Aerial and Grounding Rod and Surge Protection	29	assy	

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>(ELECTRICAL)</b>				
<b>LOCATION: NAIA T1 EOC CONTROL ROOM, T-1</b>				
<b>ELECTRICAL WORKS:</b>				
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	
<b>WIRES AND CABLES:</b>				
1	3.5 mm sq. THHN Electrical Copper Wire, 150 m/roll	4	roll	
2	8.0 mm sq. THHN Electrical Copper Wire, 150 m/roll	1	roll	
<b>BOXES:</b>				
3	Utility Box, Deep Type, Heavy Duty	46	pcs	
4	Junction Box, G.I. Type with Cover, Heavy Duty	95	pcs	
<b>CONDUITS AND FITTINGS:</b>				
5	15 mm diameter IMC with Coupling	75	length	
6	Locknut and Bushing for IMC 15 mm diameter	954	pair	
7	15 mm diameter Flexible Metallic Conduit, Heavy Duty (30 m/roll)	3	roll	
8	15 mm diameter Metallic Straight Connector, Heavy Duty	150	pcs	
<b>HANGERS AND SUPPORTS:</b>				
9	Strut Channel, 10 ft/length	5	length	
10	Strut Clamp, 15 mm diameter	75	pcs	
11	Suspension Rod 10 mm diameter, full threaded, 10 ft / length	18	length	
12	Nut and Washer for 10 mm diameter full threaded rod	80	pair	
13	Expansion Shield for 10 mm diameter full threaded rod	60	pcs	
<b>CIRCUIT BREAKERS AND PANELBOARDS:</b>				
14	Panel Board Main: 60AT, 100AF, 3P, TQC Type Branches: 10 - 20AT, 50AF, 2 Pole, Bolt-on TQC Type	1	assy	
<b>MISCELLANEOUS:</b>				
15	Electrical Vinyl Tape Super +33	5	roll	
16	Rubber Insulation Tape	2	roll	
<b>LIGHTING FIXTURES:</b>				
17	2 X 16 W Tubular LED Lamp Fixture, (12" X 48") Louver, 220V, 1800 lumens, 6000k Color Temp, 76 Ra CRI, Daylight, Recessed Type	24	set	
18	12W LED Downlight Fixture, 220V, 5800K-6300K Color Temp. (Daylight), 1200 Lumens, 240 mm diameter X 68 mm depth, 8 inches hole opening (Recessed Mounted), 120 degrees Beam Angle, 40,000 life hours	23	set	
<b>SWITCHES AND OUTLETS:</b>				
19	Switch, One-Gang, Flushed Mounted, with Plate Cover	1	set	
20	Switch, Two-Gang, Flushed Mounted, with Plate Cover	5	set	
21	Duplex Universal Convenience Outlet, Flushed Mounted with Plate Cover	40	set	

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Note :

1. all cameras support H.265 and H.265
2. bit rate(4MP@4Mbps 20fps,8MP@8Mbps 20fps,2MP@2Mbps 20fps,12MP@12Mbps 20fps ,
3. 4TB per HDD, each HDD assume to have 10% LOSS

Terminal1

Requirements	Types of camera										Total camera
	Fixed Dome 4MP	Fixed Bullet 4MP	180 Degrees Multisensor 2x3MP	Varifocal 4mp	PTZ 4MP	Panoramic w /Integrated PTZ	Fisheye 5MP	ANPR 5MP	Facial Recognition 5mp		
Total number of Camera	36	27	60	74	79	7	73	19	13		388
Total number of NVR	1pc.	1pc	4pcs	2pc	4pcs	1pc	6pcs	11pcs	8pcs		
Total HDD Storage Capacity (TB)	64	50	167	69	158	47T	350	250	150		
Total number of HDD	16	14	42	17	40	12	88	63	38		

CCTV ACCESSORIES

QTY	Unit	DESCRIPTION
1	unit	Server
4	units	Workstation
1	pc	CORE SWITCH (see TOR for the Specs)
1	Lot	MEDIA CONVERTER & PATCH CABLE
1	Lot	MEDIA CONVERTER RACK
1	Lot	Camera Bracket and Accessories
388	pcs	UPS @ 750 VA Line Interactive
2	Pcs	UPS @ 10KVA On-Line Series
8	pcs	21" HD 4K LED TV (Including Desktop Stand Bracket)
12	pcs	50" HD 4K LED TV
1	Lot	Video Matrix System

2

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
BILL OF MATERIALS				
CCTV Components				
LOCATION: NAIA T1 / ZONE ALPHA				
ITEM NO.	DESCRIPTION	QTY	UNIT	
1	Fixed Dome 4MP	36	units	
2	Fixed Bullet 4MP	27	units	
3	180 Degrees Multisensor 4MP	60	units	
4	Varifocal 4mp	74	units	
5	PTZ 4MP	79	units	
6	Panoramic w/ Integrated PTZ	7	units	
7	Fisheye 5MP	73	units	
8	ANPR 5MP	19	units	
9	Facial Recognition 5mp	13	units	
10	Total number of NVR	39	units	
11	Total number of HDD	328	units	
12	Server	1	unit	
13	Workstation	4	units	
14	CORE SWITCH (see TOR for the Specs)	1	pc	
15	MEDIA CONVERTER & PATCH CABLE	1	Lot	
16	MEDIA CONVERTER RACK	1	Lot	
17	Camera Bracket and Accessories	1	Lot	
18	UPS @ 750 VA Line Interactive	0	pcs	
19	UPS @ 10KVA On-Line Series	2	Pcs	
20	21" HD 4K LED TV (Including Desktop Stand Bracket)	8	pcs	
21	50" HD 4K LED TV	12	pcs	
22	Video Matrix Sytem	1	Lot	

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# Zone Bravo - Terminal 2

AGENCY SPECIFICATIONS	BIDDER'S STATEMENT OF COMPLIANCE
<p><b>SCOPE OF WORKS</b></p> <ol style="list-style-type: none"> <li>1 Coordination Meeting (Technical and Pre-Construction, Document Processing)</li> <li>2 Mobilization (delivery of equipment/materials and</li> <li>3 Roughing-ins including piping, installation of cabinets,</li> <li>4 Cabling Lay-out / Cable Pulling</li> <li>5 Mounting, termination of cameras and installation of</li> <li>6 Testing of equipment and focussing of cameras</li> <li>7 Training and Commissioning</li> <li>8 Acceptance and Turn-over</li> </ol>	

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>CIVIL WORKS</b>					
<b>LOCATION: NAIA T2 / ZONE BRAVO</b>					
ITEM #	DESCRIPTION	QTY.	UNITS		
<b>I . CONSTRUCTION OF CAMERA POST (HEIGHT - 6M)</b>					
<b>A</b>	<b>Concrete Pedestal for CCTV Post</b>				
	<b>Materials:</b>				
1	Portland Cement	77	bags		
2	Wash Sand	2.75	cu.m.		
3	Crushed Gravel 3/4	6.60	cu.m.		
4	Non-shrink Grout	22	kgs		
5	Deformed Bar 16mm Ø x 6m	77	pcs		
6	Deformed Bar 12mm Ø x 6m	66	pcs		
7	GI Tie Wire, Ga.16	165	kgs		
8	Ordinary Plywood 4' x 8' x 1/4" thk	33	pcs		
9	Coco Lumber 2" x 2" x 3m	44	pcs		
10	Common Wire Nail 3"	11	kgs		
<b>B</b>	<b>Supply of CCTV Post</b>				
	<b>Materials:</b>				
	<b>Height: 6 meters, Thickness: 6 mm</b>	11	pcs		
	Base Diameter: 200mm (w/ Stiffener Plate)				
	Shape: Round with constant tapered of 0.14				
	Base Plate: 350mm x 350mm x 22 mm thk				
	Material: ASTM A532 Grade 50				
	Surface: Hot-dip Galvanized & Powder coated				
	Bracket/Arm: Single Bracket Arm				
	Weld Metal: E70XX				
	<b>Supply of Anchor Bolt</b>				
	Size: 1" x 36" x 4"	44	pcs		
	Material: ASTM F1554 Grade 55 with ASTM A563 Grade A				
	Heavy-hex nuts and Plate washers. ASTM F2329 Galvanization				
<b>II. CONSTRUCTION OF CAMERA POST (HEIGHT - 8M)</b>					
<b>A.</b>	<b>Concrete Pedestal for CCTV Post</b>				
	<b>Materials:</b>				
1	Portland Cement	14	bags		
2	Wash Sand	0.50	cu.m.		
3	Crushed Gravel 3/4	1.20	cu.m.		
4	Non-shrink Grout	4	kgs		
5	Deformed Bar 16mm Ø x 6m	14	pcs		
6	Deformed Bar 12mm Ø x 6m	12	pcs		
7	GI Tie Wire, Ga.16	30	kgs		

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
8	Ordinary Plywood 4' x 8' x 1/4" thk	6	pcs		
9	Coco Lumber 2" x 2" x 3m	8	pcs		
10	Common Wire Nail 3"	2	kgs		
<b>B</b>	<b>Supply of CCTV Post</b>				
	<b>Materials:</b>				
	<b>Height: 8 meters, Thickness: 6 mm</b>	2	pcs		
	Base Diameter: 200mm (w/ Stiffener Plate)				
	Shape: Round with constant tapered of 0.14				
	Base Plate: 350mm x 350mm x 22 mm thk				
	Material: ASTM A532 Grade 50				
	Surface: Hot-dip Galvanized & Powder coated				
	Bracket/Arm: Single Bracket Arm				
	Weld Metal: E70XX				
	<b>Supply of Anchor Bolt</b>				
	Size: 1" x 36" x 4"	8	pcs		
	Material: ASTM F1554 Grade 55 with ASTM A563 Grade 5				
	Heavy-hex nuts and Plate washers. ASTM F2329 Galva				
<b>III</b>	<b>CCTV CONTROL ROOM</b>				
	<b>Materials:</b>				
1	Supply of Steel Cement Floor Panels	56	sets		
	<b>Materials specification:</b>				
	Laminate Tile-Double Cup Suction Lifter				
	Size: 300mmx610mmx610				
2	Supply of Materials for New Ceiling	25	sq.m		
3	Supply of Paints for Walls and Ceiling	70	sq.m		
	<b>Labor:</b>				
1	Demolition of Existing Masonry Wall	6	sq.m		
2	Dismantling of Existing Ceiling	25	sq.m		
3	Installation of New Ceiling	25	sq.m		
4	Repainting of Walls and Ceiling	70	sq.m		
<b>IV</b>	<b>MISCELLANEOUS WORKS</b>				
	<b>Materials:</b>				
	Supply of Pre-fabricated Furnitures				
1	Desk - Bow shaped desk on panel legs, 3 drawers on panel legs, high pressure laminated top, melamine-face panel legs	1	set		

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
	with adjustable leveler glides powder coated modesty panel.				
	(0.90mW x 2.5mL x 0.70mH)				
2	Chair - midback chair, mesh back, fabric upholster seat, high quality medium density foam upholstered of high quality mesh fabric.	2	sets		
	(0.70mW x 0.52mD x 0.92m-0.95mH)				

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>ELECTRICAL</b>				
<b>LOCATION: NAIA T2/ZONE BRAVO</b>				
<b>I - SECTOR 1.1 &amp; 1.2 SOUTHWING ARRIVAL AND DEPARTURE LEVEL</b>				
ITEM NO.	DESCRIPTION	QTY	UNIT	
<b>WIRES AND CABLES</b>				
1	#6 XLPE Cable 2KV Insulation	36	mtrs	
2	3.5 mm <sup>2</sup> THHN Stranded Copper Wire, 150 m/roll	45	rolls	
3	5.5 mm <sup>2</sup> THHN Stranded Copper Wire, 150 m/roll	25	rolls	
4	8 mm <sup>2</sup> Stranded Copper Wire, 150 m/roll	25	rolls	
<b>BOXES:</b>				
5	Junction Box w/ cover, Ga. 16 Deep type	110	pcs	
<b>CONDUIT AND FITTINGS</b>				
6	25 mm dia. IMC Pipe w/ Coupling	6	lengths	
7	25 mm dia. Locknut and Bushing	10	pairs	
8	25 mm dia. Coupling	3	pcs	
9	25 mm dia. Elbow	4	pcs	
10	20 mm dia. IMC Pipe w/ Coupling	750	lengths	
11	20 mm dia. Bushing	250	pcs	
12	20 mm dia. Locknuts	320	pcs	
13	20 mm dia. Coupling	180	pcs	
14	20 mm dia. Elbow	160	pcs	
15	20 mm dia. Liquid Tight Conduit	75	mtrs	
16	20 mm dia. Liquid Tight Connector	100	pcs	
17	15 mm dia. IMC Pipe w/ Coupling	750	lengths	
18	15 mm dia. Bushing	250	pcs	
19	15 mm dia. Locknuts	320	pcs	
20	15 mm dia. Coupling	180	pcs	
21	15 mm dia. Elbow	160	pcs	
22	15 mm dia. Liquid Tight Conduit	75	mtrs	
23	15 mm dia. Liquid Tight Connector	100	pcs	
<b>SUPPORTS</b>				
24	10 mm dia. Full Threaded Rod, 10' / length	500	lengths	
25	10 mm dia. Nut and Washer	2,000	pairs	
26	Expansion Bolt for 10 mm dia. Full Threaded Rod	1,000	pcs	
27	15 mm dia. Strut Clamp	2,000	pcs	
28	20 mm dia. Strut Clamp	2,000	pcs	
29	Strut Channel 10' / length	70	lengths	
<b>CIRCUIT BREAKER AND PANEL BOARD</b>				
30	Panel Board in NEMA 1 Enclosure, Main: 60 AT C.B., 3Ø Bolt-on Type, Branches: 15-20 AT, 1Ø C. B. Bolt-on Type	1	set	
31	60 AT / 100 AF, 3Ø Bolt-on Type Isolation C.B. in NEMA 1 Enclosure	1	pcs	
32	15 AT Miniature C.B., 1Ø	119	pcs	
<b>MISCELLANEOUS</b>				
33	Hacksaw Blade	15	pcs	
34	Ga. 16 G.I. Wire	8	kg	
35	#8 Metal Screw	1000	pcs	
36	#8 Masonry Drill Bit	15	pcs	
37	#8 Plastic Tox	1000	pcs	
38	Plastic Vinyl Insulation Tape	20	rolls	
39	Rubber Insulation Tape	15	rolls	

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>ELECTRICAL</b>					
<b>LOCATION: NAIA T2/ZONE BRAVO</b>					
<b>SOLAR PANEL</b>					
40	70 Wt Solar Panel with 30 AH Lith Battery, 1.30 Wt LED Light with 5 day Back-up	5	sets		
<b>II - 1.3 &amp; 1.4 SECTOR NORTHWING ARRIVAL AND DEPARTURE LEVEL</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>		
<b>WIRES AND CABLES</b>					
1	#6 XLPE Cable 2KV Insulation	36	mtrs		
2	3.5 mm <sup>2</sup> THHN Stranded Copper Wire, 150 m/roll	45	rolls		
3	5.5 mm <sup>2</sup> THHN Stranded Copper Wire, 150 m/roll	25	rolls		
4	8 mm <sup>2</sup> Stranded Copper Wire, 150 m/roll	25	rolls		
<b>BOXES</b>					
5	Junction Box w/ cover, Ga. 16 Deep type	100	pcs		
<b>CONDUIT AND FITTINGS</b>					
6	25 mm dia. IMC Pipe w/ Coupling	6	lengths		
7	25 mm dia. Locknut and Bushing	10	pairs		
8	25 mm dia. Coupling	3	pcs		
9	25 mm dia. Elbow	4	pcs		
10	20 mm dia. IMC Pipe w/ Coupling	750	lengths		
11	20 mm dia. Bushing	250	pcs		
12	20 mm dia. Locknuts	320	pcs		
13	20 mm dia. Coupling	180	pcs		
14	20 mm dia. Elbow	160	pcs		
15	20 mm dia. Liquid Tight Conduit	75	mtrs		
16	20 mm dia. Liquid Tight Connector	100	pcs		
17	15 mm dia. IMC Pipe w/ Coupling	750	lengths		
18	15 mm dia. Bushing	250	pcs		
19	15 mm dia. Locknuts	320	pcs		
20	15 mm dia. Coupling	180	pcs		
21	15 mm dia. Elbow	160	pcs		
22	15 mm dia. Liquid Tight Conduit	75	mtrs		
23	15 mm dia. Liquid Tight Connector	100	pcs		
<b>SUPPORTS</b>					
24	10 mm dia. Full Threaded Rod, 10' / length	500	lengths		
25	10 mm dia. Nut and Washer	2,000	pairs		
26	Expansion Bolt for 10 mm dia. Full Threaded Rod	1,000	pcs		
27	15 mm dia. Strut Clamp	2,000	pcs		
28	20 mm dia. Strut Clamp	2,000	pcs		
29	Strut Channel 10' / length	70	lengths		
<b>CIRCUIT BREAKER AND PANEL BOARD</b>					
30	Panel Board in NEMA 1 Enclosure, Main: 60 AT C.B., 3 $\emptyset$ Bolt-on Type, Branches: 15-20 AT, 1 $\emptyset$ C. B. Bolt-on Type	1	set		
31	60 AT / 100 AF, 3 $\emptyset$ Bolt-on Type Isolation C.B. in NEMA 1 Enclosure	1	pcs		
32	32) 15 AT Miniature C.B., 1 $\emptyset$	124	pcs		
<b>MISCELLANEOUS</b>					
33	Hacksaw Blade	12	pcs		
34	Ga. 16 G.I. Wire	6	kg		
35	#8 Metal Screw	750	pcs		
36	#8 Masonry Drill Bit	12	pcs		
37	#8 Plastic Tox	750	pcs		
38	Plastic Vinyl Insulation Tape	18	rolls		

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>ELECTRICAL</b>					
<b>LOCATION: NAI A T2/ZONE BRAVO</b>					
39	Rubber Insulation Tape	2	rolls		
<b>SOLAR PANEL</b>					
40	70 Wt Solar Panel with 30 AH Lith Battery, 1.30 Wt LED Light with 5 day Back-up	2	sets		
<b>III - SECTOR 1.5 ROTUNDA BUILDING</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>		
<b>WIRES AND CABLES</b>					
1	3.5 mm <sup>2</sup> THHN Stranded Copper Wire, 150 m/roll	10	rolls		
2	5.5 mm <sup>2</sup> THHN Stranded Copper Wire, 150 m/roll	5	rolls		
<b>BOXES</b>					
3	Junction Box w/ cover, Ga. 16 Deep type	30	pcs		
<b>CONDUIT AND FITTINGS</b>					
4	15 mm dia. IMC Pipe w/ Coupling	125	lengths		
5	15 mm dia. Bushing	120	pcs		
6	15 mm dia. Locknuts	170	pcs		
7	15 mm dia. Coupling	75	pcs		
8	15 mm dia. Elbow	75	pcs		
<b>SUPPORTS</b>					
9	10 mm dia. Full Threaded Rod, 10' / length	70	lengths		
10	10 mm dia. Nut and Washer	350	pairs		
11	Expansion Bolt for 10 mm dia. Full Threaded Rod	300	pcs		
12	15 mm dia. Strut Clamp	250	pcs		
13	Strut Channel 10' / length	25	lengths		
<b>CIRCUIT BREAKER</b>					
14	15 AT Miniature C.B., 1Ø	61	pcs		
<b>MISCELLANEOUS</b>					
15	Hacksaw Blade	5	pcs		
16	Ga. 16 G.I. Wire	2	kg		
17	#8 Metal Screw	500	pcs		
18	#8 Masonry Drill Bit	4	pcs		
19	#8 Plastic Tox	500	pcs		
20	Plastic Vinyl Insulation Tape	10	rolls		
21	Rubber Insulation Tape	5	rolls		
<b>IV - SECTOR 2 CAR PARK 1</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>		
1	70 Wt Solar Panel with 30 AH Lith Battery, 1.30 Wt LED Light with 5 day Back-up	30	sets		
<b>V - SECTOR 3 CAR PARK 2</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>		
1	70 Wt Solar Panel with 30 AH Lith Battery, 1.30 Wt LED Light with 5 day Back-up	30	sets		
<b>VI - SECTOR 4 PERIMETER</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>		
1	70 Wt Solar Panel with 30 AH Lith Battery, 1.30 Wt LED Light with 5 day Back-up	30	sets		

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>ELECTRICAL</b>					
<b>LOCATION: NAIA T2/ZONE BRAVO</b>					
<b>VII - CONTROL ROOM</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>		
<b>WIRES AND CABLES</b>					
1	3.5 mm <sup>2</sup> THHN Stranded Copper Wire, 150 m/roll	12	rolls		
2	8 mm <sup>2</sup> Stranded Copper Wire, 150 m/roll	6	rolls		
<b>BOXES</b>					
3	3) Junction Box w/ cover, Ga. 16 Deep type	40	pcs		
<b>CONDUIT AND FITTINGS</b>					
4	20 mm dia. IMC Pipe w/ Coupling	120	lengths		
5	20 mm dia. Bushing	60	pcs		
6	20 mm dia. Locknuts	90	pcs		
7	20 mm dia. Coupling	50	pcs		
8	20 mm dia. Elbow	40	pcs		
9	15 mm dia. IMC Pipe w/ Coupling	120	lengths		
10	15 mm dia. Bushing	60	pcs		
11	15 mm dia. Locknuts	90	pcs		
12	15 mm dia. Coupling	50	pcs		
13	15 mm dia. Elbow	40	pcs		
<b>SUPPORTS</b>					
14	10 mm dia. Full Threaded Rod, 10' / length	80	lengths		
15	10 mm dia. Nut and Washer	1000	pairs		
16	Expansion Bolt for 10 mm dia. Full Threaded Rod	200	pcs		
17	15 mm dia. Strut Clamp	200	pcs		
18	20 mm dia. Strut Clamp	200	pcs		
19	Strut Channel 10' / length	25	lengths		
<b>PANEL BOARD</b>					
20	Panel Board, Main : 60 AT 1Ø C.B., Branches: 6 - 20 AT Bolt-on Type in NEMA 1 Enclosure	1	set		
21	21) 60 AT / 100 AF, 1 Ø, Bolt-on Type Isolation C.B. In NEMA 1 Enclosure	1	pc		
<b>MISCELLANEOUS:</b>					
22	22) Ga. 16 G.I. Wire	1	kg		
23	23) #8 Cable Tie	150	pcs		
24	24) Rubber Insulator Tape	3	rolls		
25	25) Plastic Vinyl Insulation Tape	5	rolls		

I hereby certify that the statement of compliance to the foregoing agency specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Signature Over Printed Name of  
Authorized Representative

\_\_\_\_\_  
Date

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>(ELECTRONICS AND COMMUNICATIONS)</b>				
<b>LOCATION: NAIA T2 / ZONE BRAVO</b>				
<b>I - SECTOR 1.1 SOUTHWING DEPARTURE LEVEL</b>				
ITEM NO.	DESCRIPTION	QTY	UNIT	
<b>CABLES &amp; PERIPHERALS</b>				
1	Station Antenna	2	sets	
2	UTP Cable - CAT 6	2	m	
3	48Core FOC Multimode 50/125 - OM4	1695	m	
4	24Core FOC Multimode 50/125 - OM4	370	m	
5	12Core FOC Multimode 50/125 - OM4	660	m	
6	4Core FOC Multimode 50/125 - OM4	5418	m	
7	Fiber Optic SC Pigtail-MM 50/125 -1.5m - OM4	1088	pcs	
8	Fiber Optic SC-SC Patch Cord-MM 50/125 -2m Duplex - OM4	136	pcs	
9	Fiber Distribution Panel SC Coupler 48P	12	pcs	
10	RJ45 Connector	144	pcs	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
11	20 mm. $\phi$ IMC Pipe w/ Coupling 10'/length	1039	length	
12	20 mm. $\phi$ Coupling	73	pcs	
13	20 mm. $\phi$ Bushing and Lock Nuts	156	pcs	
14	20 mm. $\phi$ Elbow	150	pcs	
15	Strut Channel, 10'/length	75	length	
16	20 mm. $\phi$ Strut Clamp	2075	pcs	
17	#8 metal screw and #8 plastic Tox	3000	pcs	
<b>CABINETS &amp; BOXES</b>				
18	19" Rack Closed Cabinet 42 U 80cm x 60cm	4	pcs	
19	Outdoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	4	pcs	
20	Indoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	64	pcs	
21	Junction box w/cover, Ga. 16, deep type 4x4	39	pcs	
22	Pull Box 12 x 12 x 12	4	pcs	
<b>II -</b>				
ITEM NO.	DESCRIPTION	QTY	UNIT	
<b>CABLES &amp; PERIPHERALS</b>				
1	Station Antenna	3	sets	
2	UTP Cable - CAT 6	3	m	
3	48Core FOC Multimode 50/125 - OM4	925	m	
4	24Core FOC Multimode 50/125 - OM4	585	m	
5	8Core FOC Singlemode 9/125 - OS1	340	m	
6	4Core FOC Singlemode 9/125 - OS1	245	m	
7	4Core FOC Multimode 50/125 - OM4	2640	m	
8	Fiber Optic SC Pigtail-MM 50/125 -1.5m -OM4	736	pcs	
9	Fiber Optic SC-SC Patch Cord-MM 50/125 -2m Duplex -OM4	92	pcs	
10	Fiber Distribution Panel SC Coupler 48P	10	pcs	
11	RJ45 Connector	104	pcs	

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>(ELECTRONICS AND COMMUNICATIONS)</b>				
<b>LOCATION: NAIA T2 / ZONE BRAVO</b>				
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
12	20 mm. $\phi$ IMC Pipe w/ Coupling 10'/length	554	length	
13	20 mm. $\phi$ Coupling	51	pcs	
14	20 mm. $\phi$ Bushing and Lock Nuts	108	pcs	
15	20 mm. $\phi$ Elbow	102	pcs	
16	Strut Channel, 10'/length	39	length	
17	20 mm. $\phi$ Strut Clamp	1106	pcs	
18	#8 metal screw and #8 plastic Tox	2300	pcs	
<b>CABINETS &amp; BOXES</b>				
19	19" Rack Closed Cabinet 42 U 80cm x 60cm, 6ft	2	pcs	
20	Outdoor Enclosure 12x12x16 Single w/ mounting bracket, Nema3R, w/ ventilation & knockout	5	pcs	
21	Indoor Enclosure 12x12x16 Single w/ mounting bracket, Nema3R, w/ ventilation & knockout	41	pcs	
22	Junction box w/cover, Ga. 16, deep type 4x4	27	pcs	
23	Pull Box 12 x 12 x 12	4	pcs	
<b>III - SECTOR 1.3 NORTHWING DEPARTURE LEVEL</b>				
ITEM NO.	DESCRIPTION	QTY	UNIT	
<b>CABLES &amp; PERIPHERALS</b>				
1	48Core FOC Multimode 50/125 - OM4	1385	m	
2	24Core FOC Multimode 50/125 - OM4	330	m	
3	12Core FOC Multimode 50/125 - OM4	185	m	
4	4Core FOC Multimode 50/125 - OM4	4751	m	
5	Fiber Optic SC Pigtail-MM 50/125 -1.5m - OM4	1040	pcs	
6	Fiber Optic SC-SC Patch Cord-MM 50/125 -2m Duplex - OM4	130	pcs	
7	Fiber Distribution Panel SC Coupler 48P	12	pcs	
8	RJ45 Connector	130	pcs	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
9	20 mm. $\phi$ IMC Pipe w/ Coupling 10'/length	1007	length	
10	20 mm. $\phi$ Coupling	69	pcs	
11	20 mm. $\phi$ Bushing and Lock Nuts	128	pcs	
12	20 mm. $\phi$ Elbow	140	pcs	
13	Strut Channel, 10'/length	69	length	
14	20 mm. $\phi$ Strut Clamp	2012	pcs	
15	#8 metal screw and #8 plastic Tox	4000	pcs	
<b>CABINETS &amp; BOXES</b>				
16	19" Rack Closed Cabinet 42 U 80cm x 60cm, 6ft	4	pcs	
17	Outdoor Enclosure 12x12x16 Single w/ mounting bracket, Nema3R, w/ ventilation & knockout	2	pcs	
18	Indoor Enclosure 12x12x16 Single w/ mounting bracket, Nema3R, w/ ventilation & knockout	63	pcs	
19	Junction box w/cover, Ga. 16, deep type 4x4	32	pcs	
20	Pull Box 12 x 12 x 12	4	pcs	



AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>(ELECTRONICS AND COMMUNICATIONS)</b>				
<b>LOCATION: NAIA T2 / ZONE BRAVO</b>				
<b>IV - SECTOR 1.4 NORTHWING ARRIVAL LEVEL</b>				
ITEM NO.	DESCRIPTION	QTY	UNIT	
<b>CABLES &amp; PERIPHERALS</b>				
1	Station Antenna	2	sets	
2	UTP Cable - CAT 6	2	m	
3	48Core FOC Multimode 50/125 - OM4	539	m	
4	24Core FOC Singlemode 9/125 - OS1	121	m	
5	24Core FOC Multimode 50/125 - OM4	203	m	
6	8Core FOC Singlemode 9/125 - OS1	82	m	
7	8Core FOC Multimode 50/125 - OM4	168	m	
8	4Core FOC Multimode 50/125 - OM4	4281	m	
9	Fiber Optic SC Pigtail-MM 50/125 -1.5m - OM4	944	pcs	
10	Fiber Optic SC-SC Patch Cord-MM 50/125 -2m Duplex - OM4	118	pcs	
11	Fiber Distribution Panel SC Coupler 48P	12	pcs	
12	Fiber Distribution Panel SC Coupler 48P (EOC Rm)	36	pcs	
13	Cable tray, electrogalvanized steel 300 mm x 600 mm	15	m	
14	RJ45 Connector	122	pcs	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
15	20 mm. $\phi$ IMC Pipe w/ Coupling 10'/length	660	length	
16	20 mm. $\phi$ Coupling	62	pcs	
17	20 mm. $\phi$ Bushing and Lock Nuts	92	pcs	
18	20 mm. $\phi$ Elbow	124	pcs	
19	Strut Channel, 10'/length	46	length	
20	20 mm. $\phi$ Strut Clamp	1317	pcs	
21	#8 metal screw and #8 plastic Tox	2600	pcs	
<b>CABINETS &amp; BOXES</b>				
22	19" Rack Closed Cabinet 42 U 80cm x 60cm, 6ft	3	pcs	
23	19" Rack Closed Cabinet 42 U 80cm x 60cm, 6ft (EOC Room)	3	pcs	
24	Outdoor Enclosure 12x24x24 Nema3R,w/ ventilation& knockout	1	pcs	
25	Outdoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	9	pcs	
26	Indoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	46	pcs	
27	Junction box w/cover, Ga. 16, deep type 4x4	23	pcs	
28	Pull Box 12 x 12 x 12	4	pcs	
<b>V - SECTOR 1.5 ROTUNDA BUILDING</b>				
ITEM NO.	DESCRIPTION	QTY	UNIT	
<b>CABLES &amp; PERIPHERALS</b>				
1	Access Point	10	set	
2	UTP Cable - CAT 6	10	m	
3	48Core FOC Multimode 50/125 - OM4	750	m	
4	48 Core FOC Singlemode 50/125(zone Interconnection) - OS1	150	m	

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>(ELECTRONICS AND COMMUNICATIONS)</b>				
<b>LOCATION: NAIA T2 / ZONE BRAVO</b>				
5	4Core FOC Multimode 50/125 - OM4	3715	m	
6	Fiber Optic SC Pigtail-SM 9/125 -1.5m(Zone Interconnection) - OS1	96	pcs	
7	Fiber Optic SC Pigtail-MM 50/125 -1.5m - OM4	976	pcs	
8	Fiber Optic SC-SC Patch Cord-MM 50/125 -2m Duplex - OM4	122	pcs	
9	Fiber Distribution Panel SC Coupler 48P	12	pcs	
10	Fiber Distribution Panel SC Coupler 48P (Zone Interconnection)	2	pcs	
11	RJ45 Connector	142	pcs	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
12	50mm $\phi$ Rigid PVC with coupler	19	length	
13	20 mm. $\phi$ IMC Pipe w/ Coupling 10'/length	546	length	
14	20 mm. $\phi$ Coupling	62	pcs	
15	20 mm. $\phi$ Bushing and Lock Nuts	148	pcs	
16	20 mm. $\phi$ Elbow	124	pcs	
17	Strut Channel, 10'/length	39	length	
18	20 mm. $\phi$ Strut Clamp	1089	pcs	
19	#8 metal screw and #8 plastic Tox	2200	pcs	
<b>CABINETS &amp; BOXES</b>				
20	19" Rack Closed Cabinet 42 U 80cm x 60cm, 6ft	1	pcs	
21	19" Rack Closed Cabinet 42 U 80cm x 60cm, 6ft (Zone Interconnection)	1	pcs	
22	Indoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	61	pcs	
23	Junction box w/cover, Ga. 16, deep type 4x4	37	pcs	
24	Pull Box 12 x 12 x 12	1	pc	
<b>VI - SECTOR 2 CAR PARK 1</b>				
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	
<b>ACTIVE/PASSIVE EQUIPMENT &amp; PERIPHERALS</b>				
1	Station Antenna	30	pcs	
2	UTP Cable - CAT 6	30	m	
3	RJ45 Connector	60	pcs	
<b>VII - SECTOR 3 CAR PARK 2</b>				
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	
<b>ACTIVE/PASSIVE EQUIPMENT &amp; PERIPHERALS</b>				
1	Station Antenna	30	pcs	
2	UTP Cable - CAT 6	30	m	
3	RJ45 Connector	60	pcs	
<b>VIII - Sector 4 Perimeter</b>				
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	
<b>CABLES &amp; PERIPHERALS</b>				
1	Station Antenna	30	pcs	
2	UTP Cable - CAT 6	30	m	
3	4Core FOC Singlemode 9/125 - OS1	726	m	

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>(ELECTRONICS AND COMMUNICATIONS)</b>				
<b>LOCATION: NAIA T2 / ZONE BRAVO</b>				
4	Fiber Optic Pigtail-SM 9/125 SC-1.5m - OS1	40	pcs	
5	Fiber Optic SC-SC Patch Cord-MM 50/125 -2m Duplex - OM4	10	pcs	
6	RJ45 Connector	80	pcs	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
7	20 mm. $\phi$ IMC Pipe w/ Coupling 10'/length	170	length	
8	20 mm. $\phi$ Coupling	10	pcs	
9	20 mm. $\phi$ Bushing and Lock Nuts	20	pcs	
10	20 mm. $\phi$ Elbow	20	pcs	
11	Strut Channel, 10'/length	20	length	
12	20 mm. $\phi$ Strut Clamp	340	pcs	
13	#8 metal screw and #8 plastic Tox	50	pcs	
14	Outdoor Enclosure 12x12x16 Single w/ mounting bracket, Nema3R, w/ ventilation & knockout	5	pcs	
15	Junction box w/cover, Ga. 16, deep type 4x4	5	pcs	
16	Pull Box 12 x 12 x 12	5	pcs	

I hereby certify that the statement of compliance to the foregoing agency specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Signature Over Printed Name of  
Authorized Representative

\_\_\_\_\_  
Date

Note :

1. all cameras support H.265 and H.265
2. bit rate(4MP@4Mbps 20fps,8MP@6Mbps 20fps,2MP@2Mbps 20fps,12MP@8Mbps 20fps ,
3. 4TB per HDD, each HDD have 10% LOSS

Terminal 2

Requirements	Types of Camera										Total Camera
	Fixed Dome 4MP	Fixed Bullet 4MP	180 Degrees Multisensor 4MP	Varifocal 4mp	PTZ 4MP	Panoramic w /Integrated PTZ	Fisheye 5MP	ANPR 5MP	Facial Recognition 5mp		
Total number of Camera	74	0	26	114	40	5	80	43	17		399
Total number of NVR	2pcs		1pc	2pcs	2pcs	1pc	8pcs	4	3		
Total HDD Storage Capacity (TB)	131TB		72TB	106TB	75TB	33TB	297TB	350TB	700TB		
Total number of HDD	32		16	30	21	10	83	87.5	175		

CCTV ACCESSORIES

QTY	Unit	DESCRIPTION
1	unit	Server
4	units	Workstation
1	pc	CORE SWITCH (see TOR for the Specs)
1	Lot	MEDIA CONVERTER & PATCH CABLE
1	Lot	MEDIA CONVERTER RACK
1	Lot	Camera Bracket and Accessories
399	pcs	UPS @ 750 VA Line Interactive
2	Pcs	UPS @ 10KVA On-Line Series
8	pcs	21" HD 4K LED TV (Including Desktop Stand Bracket)
12	pcs	50" HD 4K LED TV
1	Lot	Video Matrix System

2

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>CCTV Components</b>					
<b>AND SURVEILANCE SYSTEM AT NAIA TERMINAL 2</b>					
<b>LOCATION: NAIA T2 / ZONE BRAVO</b>					
ITEM NO.	DESCRIPTION	QTY	UNIT		
1	Fixed Dome 4MP	74			
2	Fixed Bullet 4MP	0			
3	180 Degrees Multisensor 4MP	26			
4	Varifocal 4mp	114			
5	PTZ 4MP	40			
6	Panoramic w/ Integrated PTZ	5			
7	Fisheye 5MP	80			
8	ANPR 5MP	43			
9	Facial Recognition 5mp	17			
10	Total number of NVR	23			
11	Total number of HDD	454.5			
12	Server	1			
13	Workstation	4			
14	CORE SWITCH (see TOR for the Specs)	1			
15	MEDIA CONVERTER & PATCH CABLE	1			
16	MEDIA CONVERTER RACK	1			
17	Camera Bracket and Accessories	1			
18	UPS @ 750 VA Line Interactive	0			
19	UPS @ 10KVA On-Line Series	2			
20	21" HD 4K LED TV (Including Desktop Stand Bracket)	8			
21	50" HD 4K LED TV	12			
22	Video Matrix Sytem	1			

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# Zone Charlie - Terminal 4

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>(ELECTRONICS AND COMMUNICATIONS)</b>					
<b>LOCATION: NAIA T4 / ZONE CHARLIE</b>					
<b>I - Sector1 - Terminal 4 Internal / Charlie (62 CCTV CAMERA)</b>					
ITEM NO.	DESCRIPTION	QTY	UNIT		
<b>CABLES &amp; PERIPHERALS</b>					
1	48Core FOC Multimode 50/125 - OM4	209	mtrs		
2	24Core FOC Multimode 50/125 - OM4	209	mtrs		
3	4Core FOC Multimode 50/125 - OM4	48	mtrs		
4	CAT6 Cable 305m/roll (foiled)	10	rolls		
5	Fiber Optic SC Pigtail-MM 50/125 -1.5m - OM4	368	pcs		
6	Fiber Distribution Panel SC Coupler 48P	6	pcs		
7	24 ports CAT6 Patch Panel	1	pc		
8	Fiber Termination Enclosure	3	pcs		
9	RJ45 LAN Connector for CAT6 cable	170	pcs		
<b>CONDUITS &amp; OTHER ACCESSORIES</b>					
10	15mm $\phi$ x 10' IMC	44	pcs		
11	20mm $\phi$ x 10' IMC	56	pcs		
12	50mm $\phi$ x 10' IMC	81	pcs		
13	Strut Channel, 10'/length	10	length		
14	15mm $\phi$ Uni-strut Clamp	88	pcs		
15	20mm $\phi$ Uni-strut Clamp	112	pcs		
16	50mm $\phi$ Uni-strut Clamp	178	pcs		
17	15mm $\phi$ IMC Coupling	43	pcs		
18	20mm $\phi$ IMC Coupling	55	pcs		
19	50mm $\phi$ IMC Coupling	88	pcs		
20	15mm $\phi$ Straight Connector	56	pcs		
21	20mm $\phi$ Straight Connector	64	pcs		
22	50mm $\phi$ Straight Connector	70	pcs		
23	15mm $\phi$ Locknut & Bushing	56	pcs		
24	20mm $\phi$ Locknut & Bushing	64	pcs		
25	50mm $\phi$ Locknut & Bushing	70	pcs		
26	Full Threaded $\frac{3}{8}$ " x 8'	100	length		
27	Dyna Bolt with nuts $\frac{3}{8}$ "	300	pcs		
28	Angle Bar $\frac{1}{8}$ x 1 x 120"	25	length		
29	Flat Bar $\frac{1}{8}$ x 1 x 120"	20	length		
<b>CABINETS &amp; BOXES</b>					
30	IDF or DATA Cabinet 21"x21"x24"	3	pcs		
31	Rack Close Cabinet	3	pcs		
32	Junction Box (4 x 4)	91	pcs		
33	Pull box (12 x 12)	4	pcs		
<b>II - Sector2 - Terminal 4 Perimeter / Charlie (20 CCTV)</b>					
ITEM NO.	DESCRIPTION	QTY	UNIT		
<b>CABLES &amp; PERIPHERALS</b>					
1	SC Pigtail SM9/125-1.5mm - OSi Cables	56	pcs		
2	CAT6 Cable	5	mtrs		
3	RJ45 LAN Connector for CAT6 cable	10	pcs		
<b>CONDUITS &amp; OTHER ACCESSORIES</b>					
4	20mm $\phi$ x 10' PVC Pipe w/ hub	119	length		
5	20mm $\phi$ C Clamp	238	pcs		
6	20mm $\phi$ PVC male adapter w/ locknut	50	pcs		

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>(ELECTRONICS AND COMMUNICATIONS)</b>					
<b>LOCATION: NAJA T4 / ZONE CHARLIE</b>					
7	20mm $\phi$ locknut & bushing	50	pcs		
<b>CABINETS &amp; BOXES</b>					
8	Outside Enclosure NEMA 3R w/ Ventillation and knock-out and mounting bracket 16x16x12	13	pcs		
9	Pull Box 4 x 4	25	pcs		
<b>STATION</b>					
10	STATION FOR WIRELESS	13	pcs		
11	ACCESS POINT FOR WIRELESS	8	pcs		
<b>III - Sector3 - Along Andrew Ave. / Charlie (11 CCTV)</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>		
<b>CABLES &amp; PERIPHERALS</b>					
1	CAT6 Cable	4	mtrs		
2	RJ45 LAN Connector for CAT6 cable	8	pcs		
<b>STATION</b>					
3	STATION FOR WIRELESS	11	pcs		
<b>IV - Sector 4 - Along Domestic Road / Charlie (14 CCTV)</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>		
<b>CABLES &amp; PERIPHERALS</b>					
1	CAT6 Cable	13	mtrs		
2	RJ45 LAN Connector for CAT6 cable	26	pcs		
<b>STATION</b>					
3	STATION FOR WIRELESS	14	pcs		
<b>V - Sector 5 - Ramp Side to T3 / Charlie (15 CCTV)</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>		
<b>CABLES &amp; PERIPHERALS</b>					
1	SC Pigtail SM9/125-1.5mm - OSI Cables	24	pcs		
2	CAT6 Cable	16	mtrs		
3	RJ45 LAN Connector for CAT6 cable	32	pcs		
<b>CONDUITS &amp; OTHER ACCESSORIES</b>					
4	20mm $\phi$ x 10' PVC Pipe w/ hub	63	length		
5	20mm $\phi$ C Clamp	126	pcs		
6	20mm $\phi$ PVC male adapter w/ locknut	28	pcs		
7	20mm $\phi$ locknut & bushing	28	pcs		
<b>CABINETS &amp; BOXES</b>					
8	Outside Enclosure NEMA 3R w/ Ventillation and knock-out and mounting bracket 16x16x12	11	pcs		
9	Pull Box 4"x10"x10"	14	pcs		
<b>STATION &amp; ACCESS POINT</b>					
10	STATION FOR WIRELESS	12	pcs		



AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>(ELECTRONICS AND COMMUNICATIONS)</b>					
<b>LOCATION: NAIA T4 / ZONE CHARLIE</b>					
<b>VI - Sector 6 - Ramp Side to T2 / Charlie (16 CCTV)</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>		
<b>CABLES &amp; PERIPHERALS</b>					
1	CAT6 Cable	11	mtrs		
2	RJ45 LAN Connector for CAT6 cable	22	pcs		
<b>CONDUITS &amp; OTHER ACCESSORIES</b>					
3	20mm $\phi$ x 10' PVC Pipe w/ hub	33	length		
4	20mm $\phi$ C Clamp	66	pcs		
5	20mm $\phi$ PVC male adapter w/ locknut	40	pcs		
6	20mm $\phi$ locknut & bushing	40	pcs		
<b>CABINETS &amp; BOXES</b>					
7	Outside Enclosure NEMA 3R w/ Ventillation and knock-out 16"x16"x12"	13	pcs		
8	Pull Box 4"x10"x10"	20	pcs		
9	Pull box 12x12	1	pc		
<b>STATION &amp; ACCESS POINT</b>					
10	STATION FOR WIRELESS	15	pcs		

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AGENCY SPECIFICATIONS			BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>				
<b>CIVIL WORKS</b>				
<b>PROJECT: NAIA - AGMSES CCTV PROJECT</b>				
<b>LOCATION / ZONE: NAIA TERMINAL 4 / ZONE CHARLIE</b>				
ITEM #	DESCRIPTION	QTY.	UNITS	
<b>I</b>	<b>SUPPLY OF LABOR AND MATERIALS FOR INSTALLATION OF (21 UNITS) 6.0M CCTV POLE</b>			
A	Earth Works			
1	Concrete Excavation and Restoration			
	Volume: 34 cu.m (for 6.0m CCTV Pole Pedestal)			
	Dimensions: 1.3m x 1.3m x 0.95m			
B	Construction of Concrete Pedestal for (21 Units) 6.0m CCTV Pole			
C	Supply and Installation of (21 units) 6.0m CCTV Pole			
1	Materials			
	Supply of CCTV Post			
	Height : 6.0m	21		sets
	Base Diameter : 200mm			
	Shape : Round with constant tapered of 0.14" per foot			
	Thickness : 6mm			
	Base Plate : 350mm x 350mm x 16mm THK			
	Stiffener Plate : 20mm THK			
	Material : ASTM A572 Grade 50			
	Surface : Hot-dip Galvanized and Powder Coated			
	Brackets/Arm : Single Bracket Arm			
	Weld Metal : E70XX			
	Supply of Anchor Bolt			
	Size : 1" x 36" x 4"	84		set
	Material : ASTM F1554 Grade 55 with ASTM A563 Grade A			
	heavy-hex nut and plate washers. ASTM F2329 galvanization			
<b>II</b>	<b>SUPPLY OF LABOR AND MATERIALS FOR INSTALLATION OF (6 UNITS) 18.0M CCTV POLE</b>			
A	Earth Works			
1	Concrete Excavation and Restoration			
B	Construction of Concrete Pedestal for (6 Units) 18.0m CCTV Pole			
C	Supply and Installation of (6 units) 18.0m CCTV Pole			
1	Materials			
	Supply of CCTV Post			
	Height : 18.0m	6		sets
	Base Diameter : 18 inches			
	Shape : Round with constant tapered of 0.14" per foot			
	Thickness : 16mm			
	Base Plate : 650mm x 650mm x 30mm THK			
	Top Plate : 255mm Ø x 22mm THK			
	Stiffener Plate : 20mm THK			
	Material : ASTM A512 Grade 50			
	Surface : Hot-dip Galvanized and Powder Coated			
	Brackets/Arm : 2pcs Single Bracket Arm			
	Weld Metal : E70XX			
	Supply of Anchor Bolt			
	Size : 1" x 36" x 4"	24		sets
	Material : ASTM F1554 Grade 55 with ASTM A563 Grade A			
	heavy-hex nut and plate washers. ASTM F2329 galvanization			
<b>III</b>	<b>SUPPLY OF LABOR AND MATERIALS FOR THE IMPROVEMENT OF CCTV ROOM</b>			
A	Site Works			

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AGENCY SPECIFICATIONS			BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>				
<b>CIVIL WORKS</b>				
<b>PROJECT: NAIA - AGMISES CCTV PROJECT</b>				
<b>LOCATION / ZONE: NAIA TERMINAL 4 / ZONE CHARLIE</b>				
	Demolition and Hauling Works			
	Including removal of existing dry walls, old tiles and hauling of debris			
B	Supply and Installation of Aluminum Framing (Analog) with Tempered Glass 20mm THK and One-Way Mirror Glass Tint			
1	Materials			
	Aluminum Framing (Analog) with Tempered Glass 20mm THK and One-Way Mirror Glass Tint			
	Size : 0.4m x 1m	10	pcs	
	Location: CCTV Room			
	Size : 2.5m x 1m	9	pcs	
	Location: CCTV Room			
	Tempered Glass Door w/ Stainless Steel Handles Tempered Glass 20mm THK			
	Size : 250cm x 90cm	1	set	
	Location: CCTV Room			
C	Painting Works			
1	Materials			
	Mesh Tape	3	rolls	
	Flat Latex White	12	gal	
D	Tile Works			
1	Materials			
	Ceramic Tiles, 60cm x 60cm	70	pcs	
IV	<b>MISCELLANEOUS WORKS</b>			
A	Supply, Fabrication and Installation of Desk and Chairs			
1	Materials			
	Desk	1	sets	
	Specifications:			
	Bow shaped desk on panel legs			
	3 drawers on panel legs,			
	high pressure laminated top,			
	melamine-face panel legs			
	with adjustable leveler glides			
	powder coated modesty panel			
	Dimensions: 0.90mW x 2.5mL x 0.70mH			
	Chairs	2	sets	
	Specifications:			
	midback chair			
	mesh back			
	fabric upholster seat			
	high quality medium density foam			
	upholstered of high quality mesh fabric			
	Dimensions:			
	0.70mW x 0.52mD x 0.92m-0.95mH			

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AGENCY SPECIFICATIONS			BIDDER'S STATEMENT OF COMPLIANCE	
LOCATION: ZONE CHARLIE				
BILL OF MATERIALS				
	DESCRIPTION	QTY.	UNITS	
	<b>ELECTRICAL WORKS:</b>			
<b>I</b>	<b>WIRES AND CABLES:</b>			
1	30mm <sup>2</sup> THHN, Cu. wire	60	meter	
2	3.5mm <sup>2</sup> THHN, Cu. wire	28	rolls	
3	5.5mm <sup>2</sup> THHN, Cu. wire	10	rolls	
4	8.0mm <sup>2</sup> THHN, Cu. wire	3	rolls	
<b>II</b>	<b>BOXES:</b>			
5	Utility Box, G.I type Heavy Duty	12	pcs	
6	Junction Box with cover, Ga.16, Deep type	857	pcs	
<b>III</b>	<b>CONDUITS AND FITTINGS:</b>			
7	15mm $\emptyset$ x 10' IMC pipe with coupling	210	length	
8	20mm $\emptyset$ x 10' IMC pipe with coupling	194	length	
9	32mm $\emptyset$ x 10' IMC pipe w/ coupling	3	length	
10	15mm $\emptyset$ IMC locknut & bushing	138	pcs	
11	20mm $\emptyset$ locknut & bushing	758	pairs	
12	32mm $\emptyset$ locknut & bushing	10	pairs	
<b>IV</b>	<b>SUPPORTS:</b>			
13	Uni-Strut Channel	187	pcs	
14	15mm $\emptyset$ uni-strut clamp	420	pcs	
15	20mm $\emptyset$ uni-strut clamp	200	pcs	
16	32mm $\emptyset$ uni-strut clamp	20	pcs	
17	10mm $\emptyset$ Full Threaded Rod, 10' / length	100	length	
18	10mm $\emptyset$ Nut and Washer	1000	pcs	
19	Expansion Bolt with Screw, 10mm $\emptyset$	100	pcs	
<b>V</b>	<b>CIRCUIT BREAKERS AND PANEL BOARDS:</b>			
20	MAIN 100AT,3P,600V,MCCB, BRANCHES : 1 – 20A/50AF,1P, BOLT ON TYPE 9 - 30A/50AF,1P, BOLT ON TYPE	1	assy	
21	60AT/50AF,1PH,Bolt-on Type Circuit Breaker, in NEMA 3R Enclosure	1	sets	
22	30AT/50AF,1PH,Bolt-on Type Circuit Breaker, in NEMA 3R Enclosure	11	sets	
<b>VI</b>	<b>LIGHTNING PROTECTION SYSTEM</b>			
23	Lightning Arrester and Grounding Rod with Accessories	49	pcs	
<b>VII</b>	<b>LIGHTING FIXTURES</b>			
24	Lighting Fixture, Recessed –mounted, Louver-type with 2X16 W Tubular LED Lamps,1.2 meter, daylight, at least 6000k color temp,76ra CRI and 1600lm,RoHS, CE and /or UL approve or its equivalent	4	sets	

AGENCY SPECIFICATIONS			BIDDER'S STATEMENT OF COMPLIANCE	
LOCATION: ZONE CHARLIE				
VIII	SWITCHED AND OUTLETS			
25	Universal outlets, duplex, recessed type, complete with plate and cover.	11	sets	
26	ACU outlet, heavy duty, recessed type, complete with plate and cover.	1	set	
27	2-Gang Switch, with plate and cover.	1	set	
IX	MISCELLANEOUS:			
28	Electrical Tape Big	60	pcs	
29	Rubber Tape #23, 3M	25	pcs	
30	#8 Plastic Tox, with Screw	150	pcs	
31	G. I. Wire, Ga. 16	15	Kgs	
32	2.5HP Split Type Air conditioner Inverter High Power Cooling can provide up to 1220m <sup>3</sup> /hr of fresh air instantly.	1	assy	
X	SOLAR PANELS		49	sets

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Note :

1. all cameras support H.265
2. bit rate(4MP@4Mbps,20fps,8MP@6Mbps,20fps,2MP@2Mbps,12MP@8Mbps,20fps ,
3. 4TB per HDD, each HDD assume to have 10% LOS5

Terminal 4

Requirements	Types of Camera							Total camera		
	Fixed Dome 4MP	Fixed Bullet 4MP	180 Degrees MultiSensor 4MP	Varifocal 4mp	PTZ 4MP	Panoramic w /Integrated PTZ	Fisheye 5MP		ANPR 5MP	Facial Recognition 5mp
Total number of Camera	11	0	13	24	43	1	27	7	12	138
Total number of NVR	2pcs		2pcs	3pcs	2pcs	2pcs	2pcs	3pcs	4pcs	
Total HDD storage Capacity (TB)	75		93	150	125	30	172	192	110	
Total number of HDD	19		23	38	31	8	43	48	55	

CCTV ACCESSORIES

QTY	Unit	DESCRIPTION
1	unit	Server
4	units	Workstation
1	pc	CORE SWITCH (see TOR for the Specs)
1	Lot	MEDIA CONVERTER & PATCH CABLE
1	Lot	MEDIA CONVERTER RACK
1	Lot	Camera Bracket and Accessories
166	pcs	UPS @ 750 VA Line Interactive
2	Pcs	UPS @ 10KVA On-Line Series
8	pcs	21" HD 4K LED TV (Including Desktop Stand Bracket)
12	pcs	50" HD 4K LED TV
1	Lot	Video Matrix System

2

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
BILL OF MATERIALS				
CCTV Components				
LOCATION / ZONE: ZONE Charlie				
ITEM NO.	DESCRIPTION	QTY	UNIT	
WIRES AND CABLES				
1	Fixed Dome 4MP	11	units	
2	180 Degrees Multisensor 4MP	13	units	
3	Varifocal 4mp	24	units	
4	PTZ 4MP	43	units	
5	Panoramic w /Integrated PTZ	1	units	
6	Fisheye 5MP	27	units	
7	ANPR 5MP	7	units	
8	Facial Recognition 5mp	12	units	
9	Server	1	unit	
10	Workstation	4	units	
11	CORE SWITCH (see TOR for the Specs)	1	pc	
12	MEDIA CONVERTER & PATCH CABLE	1	Lot	
13	MEDIA CONVERTER RACK	1	Lot	
14	Camera Bracket and Accessories	1	Lot	
15	UPS @ 750 VA Line Interactive	166	pcs	
16	UPS @ 10KVA On-Line Series	2	Pcs	
17	21" HD 4K LED TV (Including Desktop Stand Bracket)	8	pcs	
18	50" HD 4K LED TV	12	pcs	
19	Video Matrix System	1	Lot	

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# Zone Delta - Terminal 3

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>CIVIL WORKS</b>				
<b>PROJECT: NAIA - AGMSES CCTV PROJECT</b>				
<b>LOCATION / ZONE: NAIA TERMINAL 3</b>				
ITEM #	DESCRIPTION	QTY.	UNITS	
<b>I. EARTH WORKS</b>				
1	Concrete Excavation/Cutting and Restoration	200	l.m.	
	Volume: 38 cu.m (for Optic Fiber Cable)			
	Dimensions: 12" x 24" x 1m			
2	Excavation for 6.0m CCTV Post Pedestal			
	Volume: 65 cu.m			
	Dimensions: 1.3m x 1.3m x 0.95m			
	Excavation for 2.0m CCTV Post Pedestal			
	Volume: 65 cu.m			
	Dimensions: 1.3m x 1.3m x 0.95m			
<b>II. 6 METERS HEIGHT CCTV POST</b>				
1	Supply and Installation: CCTV POLE	38	unit	
	Height: 6.0 meter			
	Base Diameter: 250mm			
	Shape: Round w/ constant tapered of 0.14" per foot			
	Thickness: 6mm			
	Base Plate: 350x350x22mm thk			
	Stiffener Plate: 20mm thk.			
	Materials: ASTM A572 Grade 50			
	Surface: Hot Dip Galvanized and Powder Coated			
	Bracket/ Arm: Single Bracket Arm			
	Weid Metal: E70XX			
2	Anchor Bolt:	152	unit	
	Size: 1" x 36" x 4"			
	Material: ASTM F1554 Grade 55 with ASTM A563 Grade A			
	Heavy-hex nut and plate washer. ASTM F2329 galvanization			
<b>CONCRETE FOOTING/PEDESTAL (6m Post)</b>				
Materials:				
3	16mm dia. X 6m RSB	265	pcs	
4	12mm dia. X 6m Deformed bar	258	pcs	
5	Portland Cement, 40kgs/bag	400	bags	
6	3/4" Gravel	30.00	cu.m	
7	Bistay Sand (15bags/cu.m)	15.00	cu.m	
8	G.I. Tie Wire #16	40	kg	
9	Ordinary Plywood 4x8x1/4"	50	pcs	
10	Coco lumber 2" x 2" x 3m	80	pcs	
11	Assorted CWN	50	kg	

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AGENCY SPECIFICATIONS		BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>			
<b>CIVIL WORKS</b>			
<b>II. 2 METERS HEIGHT CCTV POST</b>			
	<i>Supply and Installation:</i>	20	unit
	2.0 meter CCTV POLE		
	Height: 2.0 meter		
	Base Diameter: 100mm		
	Shape: Round w/ constant tapered of 0.14" per foot		
	Thickness: 6mm		
	Base Plate: 300x300x12mm thk		
	Stiffener Plate: 20mm thk.		
	Materials: ASTM A572 Grade 50		
	Surface: Hot Dip Galvanized and Powder Coated		
	Bracket/ Arm: Single Bracket Arm		
	Weld Metal: E70XX		
	Anchor Bolt:	80	unit
	Size: 1" x 18" x 4"		
	Material: ASTM F1554 Grade 55 with ASTM A563 Grade A		
	Heavy-hex nut and plate washer. ASTM F2329 galvanization		
	<b>CONCRETE FOOTING/PEDESTAL (2m Post)</b>		
	12mm dia. X 6m Deformed bar	60	pcs
	10mm dia. X 6m Deformed bar	50	pcs
	Portland Cement, 40kgs/bag	85	bags
	3/4" Gravel	7	cu.m
	Bistay Sand (15bags/cu.m)	4	cu.m
	G.I. Tie Wire #16	20	kg
	Ordinary Plywood 4x8x1/4"	30	pcs
	Coco lumber 2" x 2" x 3m	60	pcs
	Assorted CWN	50	kg
<b>III. CCTV ROOM</b>			
<b>A</b>	<b>Flooring Works</b>		
	Supply and Installation for Steel Cement Floor Panels	344.00	sets
	Including Preparation of Flooring to install Steel Panels		
	<i>Materials:</i>		
	Laminate Tile-Double Cup Suction Lifter		
	Size: 300mmx610mmx610		
<b>B</b>	<b>Painting Works</b>		
	Semi-Gloss Latex	15	gal
	Flat Latex White	8	gal

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AGENCY SPECIFICATIONS		BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>			
<b>CIVIL WORKS</b>			
<b>C</b>	<b>MISCELLANEOUS WORKS</b>		
	<i>Supply, Fabrication and Installation:</i>		
1	Desk - Bow shaped desk on panel legs, 3 drawers on panel legs, high pressure laminated top, melamine-face panel legs with adjustable leveler glides powder coated modesty panel (0.90mW x 2.5mL x 0.70mH)	1	sets
2	Chair - midback chair, mesh back, fabric upholster seat, high quality medium density foam upholstered of high quality mesh fabric. (0.70mW x 0.52mD x 0.92m-0.95mH)	2	sets

I hereby certify that the statement of compliance to the foregoing agency specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Signature Over Printed Name of  
Authorized Representative

\_\_\_\_\_  
Date

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AGENCY SPECIFICATIONS	BIDDER'S STATEMENT OF COMPLIANCE
<p><b>Location / Zone: Zone Delta</b></p> <p><b>SCOPE OF WORKS</b></p> <ol style="list-style-type: none"> <li>1 Coordination Meeting (Technical and Pre-Construction, Document Processing)</li> <li>2 Mobilization (delivery of equipment/materials and personnel deployment)</li> <li>3 Roughing-ins including piping, installation of cabinets, enclosures and boxes</li> <li>4 Cabling Lay-out / Cable Pulling</li> <li>5 Mounting, termination of cameras and installation of equipment</li> <li>6 Testing of equipment and focussing of cameras</li> <li>7 Training and Commissioning</li> <li>8 Acceptance and Turn-over</li> </ol>	

I hereby certify that the statement of compliance to the foregoing agency specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Signature Over Printed Name of  
Authorized Representative

\_\_\_\_\_  
Date

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**AGENCY SPECIFICATIONS**

**BIDDER'S STATEMENT  
OF COMPLIANCE**

**BILL OF MATERIALS**

**(ELECTRONICS AND COMMUNICATIONS)**

**LOCATION: NAIA T3 / ZONE DELTA**

**I - Surface Parking (PSI) = 30 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
<b>CABLES &amp; PERIPHERALS</b>			
1	Station Antenna	12	sets
2	Access Point	3	sets
3	Managed Gigabit Slim Type 4x10/100/1000Tx 9RJ 45) PoE+ with FOC port (with Power Adapter)	8	pcs
4	Managed Gigabit Slim Type 8x10/100/1000Tx 9RJ 45) PoE+ with FOC port (with Power Adapter)	4	pcs
5	12Core FOC Multimode 50/125 - OM4	646	m
6	UTP Cable Cat 6 (Outdoor Type)	150	m
7	RJ45 Connector	120	pcs

**CONDUITS & OTHER ACCESSORIES**

8	32 mm. $\phi$ IMC Pipe 10'/length	216	length
9	32 mm. $\phi$ Coupling	432	pcs
10	Strut Channel, 10'/length	10	length
11	32 mm. $\phi$ Strut Clamp	260	pcs
12	Full treaded 5/8" x 8'	432	pcs
13	Full treaded 5/8" x 8' Expansion Bolt	1728	pcs
14	M10 Nuts & washer	3456	pcs
15	#8 metal screw and #8 plastic Tox	120	pcs

**CABINETS & BOXES**

16	Outdoor Enclosure 12x12x16 Single w/ mounting bracket, Nema3R, w/ ventilation & knockout	13	sets
17	Junction box w/cover, Ga. 16, deep type 4x4	72	pcs
18	Pull Box 12 x 12 x 12	1	pcs

**II - Open Parking = 46 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
<b>CABLES &amp; PERIPHERALS</b>			
1	Station Antenna	21	sets
2	Access Point	4	sets
3	Managed Gigabit Slim Type 4x10/100/1000Tx 9RJ 45) PoE+ with FOC port (with Power Adapter)	18	pcs
4	Managed Gigabit Slim Type 8x10/100/1000Tx 9RJ 45) PoE+ with FOC port (with Power Adapter)	3	pcs
5	12Core FOC Multimode 50/125 - OM4	450	m
6	UTP Cable Cat 6 (Outdoor Type)	230	m
7	RJ45 Connector	184	pcs

**CONDUITS & OTHER ACCESSORIES**

8	32 mm. $\phi$ IMC Pipe 10'/length	150	length
9	32 mm. $\phi$ Coupling	300	pcs
10	Strut Channel, 10'/length	15	length
11	32 mm. $\phi$ Strut Clamp	180	pcs
12	Full treaded 5/8" x 8'	300	pcs
13	Full treaded 5/8" x 8' Expansion Bolt	1200	pcs

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**AGENCY SPECIFICATIONS**

**BIDDER'S STATEMENT  
OF COMPLIANCE**

**BILL OF MATERIALS**

**(ELECTRONICS AND COMMUNICATIONS)**

14	M10 Nuts & washer	2400	pcs
15	#8 metal screw and #8 plastic Tox	184	pcs

**CABINETS & BOXES**

16	Outdoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	21	pcs
17	Junction box w/cover, Ga. 16, deep type 4x4	50	pcs
18	Pull Box 12 x 12 x 12	1	pcs

**III - MLP A = 33 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
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**CABLES & PERIPHERALS**

1	48Core FOC Multimode 50/125 - OM4	426	m
2	24Core FOC Multimode 50/125 - OM4	213	m
3	12Core FOC Multimode 50/125 - OM4	213	m
4	4Core FOC Multimode 50/125 - OM4	884	m
5	UTP Cable Cat 6	1797	m
6	RJ45 Connector	132	pcs

**CONDUITS & OTHER ACCESSORIES**

8	32 mm. $\phi$ IMC Pipe 10'/length	500	length
9	32 mm. $\phi$ Coupling	1000	pcs
10	Strut Channel, 10'/length	28	length
11	32 mm. $\phi$ Strut Clamp	600	pcs
12	Full treaded 5/8" x 8'	1000	pcs
13	Full treaded 5/8" x 8' Expansion Bolt	4000	pcs
14	M10 Nuts & washer	8000	pcs
15	#8 metal screw and #8 plastic Tox	132	pcs

**CABINETS & BOXES**

16	Outdoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	7	pcs
17	In Line Closure for 96 core Fiber Optic Cable for IDF	2	pcs
18	Junction box w/cover, Ga. 16, deep type 4x4	167	pcs
19	Junction box w/cover, Ga. 16, deep type 12x12	33	pcs
20	Pull Box 12 x 12 x 12	1	pcs

**IV - MLP B = 26 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
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**CABLES & PERIPHERALS**

1	48Core FOC Multimode 50/125 - OM4	408	m
2	8Core FOC Multimode 50/125 - OM4	204	m
3	4Core FOC Multimode 50/125 - OM4	845	m
4	UTP Cable Cat 6	1313	m
5	RJ45 Connector	104	pcs

**CONDUITS & OTHER ACCESSORIES**

6	32 mm. $\phi$ IMC Pipe 10'/length	509	length
7	32 mm. $\phi$ Coupling	1018	pcs
8	Strut Channel, 10'/length	23	length

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**AGENCY SPECIFICATIONS**

**BIDDER'S STATEMENT  
OF COMPLIANCE**

**BILL OF MATERIALS**

**(ELECTRONICS AND COMMUNICATIONS)**

9	32 mm.φ Strut Clamp	610.8	pcs
10	Full treaded 5/8" x 8'	1018	pcs
11	Full treaded 5/8" x 8' Expansion Bolt	4072	pcs
12	M10 Nuts & washer	8144	pcs
13	#8 metal screw and #8 plastic Tox	104	pcs

**CABINETS & BOXES**

14	Outdoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	7	pcs
15	In Line Closure for 96 core Fiber Optic Cable for IDF	2	pcs
16	Junction box w/cover, Ga. 16, deep type 4x4	170	pcs
17	Junction box w/cover, Ga. 16, deep type 12x12	26	pcs
18	Pull Box 12 x 12 x 12	1	pcs

**V - MLP C = 28 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
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**CABLES & PERIPHERALS**

1	48Core FOC Multimode 50/125 - OM4	409	m
2	12Core FOC Multimode 50/125 - OM4	205	m
3	4Core FOC Multimode 50/125 - OM4	1088	m
4	UTP Cable Cat 6	1517	m
5	Managed Gigabit Slim Type 8x10/100/1000Tx 9RJ 45) PoE+ with FOC port (with Power Adapter)	7	pcs
6	RJ45 Connector	112	pcs

**CONDUITS & OTHER ACCESSORIES**

7	32 mm. φ IMC Pipe w/ Coupling 10'/length	515	length
8	32 mm. φ Coupling	1030	pcs
9	Strut Channel, 10'/length	29	length
10	32 mm.φ Strut Clamp	618	pcs
11	Full treaded 5/8" x 8'	1030	pcs
12	Full treaded 5/8" x 8' Expansion Bolt	4120	pcs
13	M10 Nuts & washer	8240	pcs
14	#8 metal screw and #8 plastic Tox	112	pcs

**CABINETS & BOXES**

15	Outdoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	7	pcs
16	In Line Closure for 96 core Fiber Optic Cable for IDF	2	pcs
17	Junction box w/cover, Ga. 16, deep type 4x4	172	pcs
18	Junction box w/cover, Ga. 16, deep type 12x12	28	pcs
19	Pull Box 12 x 12 x 12	1	pcs

**VI - MLP D = 33 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
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**CABLES & PERIPHERALS**

1	48Core FOC Multimode 50/125 - OM4	401	m
2	24Core FOC Multimode 50/125 - OM4	201	m
3	12Core FOC Multimode 50/125 - OM4	201	m
4	4Core FOC Multimode 50/125 - OM4	884	m

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**AGENCY SPECIFICATIONS**

**BIDDER'S STATEMENT  
OF COMPLIANCE**

**BILL OF MATERIALS**

**(ELECTRONICS AND COMMUNICATIONS)**

5	UTP Cable Cat 6	1797	m
6	RJ45 Connector	132	pcs

**CONDUITS & OTHER ACCESSORIES**

7	32 mm. $\phi$ IMC Pipe w/ Coupling 10'/length	515	length
8	32 mm. $\phi$ Coupling	1030	pcs
9	Strut Channel, 10'/length	29	length
10	32 mm. $\phi$ Strut Clamp	618	pcs
11	Full treaded 5/8" x 8'	1030	pcs
12	Full treaded 5/8" x 8' Expansion Bolt	4120	pcs
13	M10 Nuts & washer	8240	pcs
14	#8 metal screw and #8 plastic Tox	132	pcs

**CABINETS & BOXES**

15	Outdoor Enclosure 12x12x16 Single w/ mounting bracket, Nema3R, w/ ventilation & knockout	7	pcs
16	In Line Closure for 96 core Fiber Optic Cable for IDF	2	pcs
17	Junction box w/cover, Ga. 16, deep type 4x4	172	pcs
18	Junction box w/cover, Ga. 16, deep type 12x12	33	pcs
19	Pull Box 12 x 12 x 12	1	pcs

**VII - MLP E = 5 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
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**CABLES & PERIPHERALS**

1	24Core FOC Multimode 50/125 - OM4	206.57	m
2	4Core FOC Multimode 50/125 - OM4	412	m
3	UTP Cable Cat 6	273	m
4	Managed Gigabit Slim Type 4x10/100/1000Tx 9RJ 45) PoE+ with FOC port (with Power Adapter)	2	pcs
5	RJ45 Connector	20	pcs

**CONDUITS & OTHER ACCESSORIES**

7	32 mm. $\phi$ IMC Pipe w/ Coupling 10'/length	297	length
8	32 mm. $\phi$ Coupling	594	pcs
9	Strut Channel, 10'/length	39	length
10	32 mm. $\phi$ Strut Clamp	356.4	pcs
11	Full treaded 5/8" x 8'	594	pcs
12	Full treaded 5/8" x 8' Expansion Bolt	2376	pcs
13	M10 Nuts & washer	4752	pcs
14	#8 metal screw and #8 plastic Tox	20	pcs

**CABINETS & BOXES**

15	Outdoor Enclosure 12x12x16 Single w/ mounting bracket, Nema3R, w/ ventilation & knockout	7	pcs
16	In Line Closure for 96 core Fiber Optic Cable for IDF	1	pcs
17	Junction box w/cover, Ga. 16, deep type 4x4	99	pcs
18	Junction box w/cover, Ga. 16, deep type 12x12	5	pcs
19	Pull Box 12 x 12 x 12	1	pcs

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**AGENCY SPECIFICATIONS**

**BIDDER'S STATEMENT  
OF COMPLIANCE**

**BILL OF MATERIALS**

**(ELECTRONICS AND COMMUNICATIONS)**

**VIII - South Loading Bay = 8 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
<b>CABLES &amp; PERIPHERALS</b>			
1	Station Antenna	3	sets
2	Access Point	1	sets
3	Managed Gigabit Slim Type 4x10/100/1000Tx 9RJ 45) PoE+ with FOC port (with Power Adapter)	2	pcs
4	Managed Gigabit Slim Type 8x10/100/1000Tx 9RJ 45) PoE+ with FOC port (with Power Adapter)	1	pcs
5	4Core FOC Multimode 50/125 - OM4	1341.34	m
6	UTP Cable Cat 6 (Outdoor Type)	40	m
7	RJ45 Connector	32	pcs

**CONDUITS & OTHER ACCESSORIES**

8	32 mm. φ IMC Pipe w/ Coupling 10'/length	204	length
9	32 mm. φ Coupling	408	pcs
10	Strut Channel, 10'/length	29	length
11	32 mm.φ Strut Clamp	244.8	pcs
12	Full treaded 5/8" x 8'	408	pcs
13	Full treaded 5/8" x 8' Expansion Bolt	1632	pcs
14	M10 Nuts & washer	3264	pcs
15	#8 metal screw and #8 plastic Tox	32	pcs

**CABINETS & BOXES**

16	Outdoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	4	pcs
17	Junction box w/cover, Ga. 16, deep type 4x4	150	pcs
18	Pull Box 12 x 12 x 12	1	pcs

**IX - Basement = 14 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
<b>CABLES &amp; PERIPHERALS</b>			
1	48Core FOC Multimode 50/125 - OM4	213	m
2	8Core FOC Multimode 50/125 - OM4	213	m
3	4Core FOC Multimode 50/125 - OM4	213	m
4	UTP Cable Cat 6	1404	m
5	RJ45 Connector	56	pcs

**CONDUITS & OTHER ACCESSORIES**

6	32 mm. φ IMC Pipe w/ Coupling 10'/length	539	length
7	32 mm. φ Coupling	1078	pcs
8	Strut Channel, 10'/length	25	length
9	32 mm.φ Strut Clamp	646.8	pcs
10	Full treaded 5/8" x 8'	1078	pcs
11	Full treaded 5/8" x 8' Expansion Bolt	4312	pcs
12	M10 Nuts & washer	8624	pcs
13	#8 metal screw and #8 plastic Tox	56	pcs

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>(ELECTRONICS AND COMMUNICATIONS)</b>				
<b>CABINETS &amp; BOXES</b>				
14	Indoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	3	pcs	
15	Junction box w/cover, Ga. 16, deep type 4x4	180	pcs	
16	Junction box w/cover, Ga. 16, deep type 12x12	14	pcs	
17	Pull Box 12 x 12 x 12	1	pcs	
<b>X - Head House Level 1 &amp; Bus Gate = 103 cameras</b>				
ITEM NO.	DESCRIPTION	QTY	UNIT	
<b>CABLES &amp; PERIPHERALS</b>				
1	48Core FOC Multimode 50/125 - OM4	1704	m	
2	24Core FOC Multimode 50/125 - OM4	213	m	
3	4Core FOC Multimode 50/125 - OM4	10320	m	
4	UTP Cable Cat 6	10745	m	
5	RJ45 Connector	412	pcs	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
6	32 mm. $\phi$ IMC Pip 10'/length	1711	length	
7	32 mm. $\phi$ Coupling	3422	pcs	
8	Strut Channel, 10'/length	95	length	
9	32 mm. $\phi$ Strut Clamp	2054	pcs	
10	Full treaded 5/8" x 8'	3422	pcs	
11	Full treaded 5/8" x 8' Expansion Bolt	13688	pcs	
12	M10 Nuts & washer	27376	pcs	
13	#8 metal screw and #8 plastic Tox	412	pcs	
<b>CABINETS &amp; BOXES</b>				
17	Indoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	17	pcs	
18	In Line Closure for 96 core Fiber Optic Cable for IDF	5	pcs	
19	Junction box w/cover, Ga. 16, deep type 4x4	2341	pcs	
20	Junction box w/cover, Ga. 16, deep type 12x12	103	pcs	
21	Pull Box 12 x 12 x 12	1	pcs	
<b>XI - Head House Level 2 = 32 cameras</b>				
ITEM NO.	DESCRIPTION	QTY	UNIT	
<b>CABLES &amp; PERIPHERALS</b>				
1	48Core FOC Multimode 50/125 - OM4	408	m	
2	24Core FOC Multimode 50/125 - OM4	204	m	
3	8Core FOC Multimode 50/125 - OM4	204	m	
4	4Core FOC Multimode 50/125 - OM4	1007	m	
5	UTP Cable Cat 6	752	m	
6	RJ45 Connector	128	pcs	
<b>CONDUITS &amp; OTHER ACCESSORIES</b>				
7	32 mm. $\phi$ IMC Pipe 10'/length	441	length	
8	32 mm. $\phi$ Coupling	882	pcs	
9	Strut Channel, 10'/length	25	length	
10	32 mm. $\phi$ Strut Clamp	529.2	pcs	
11	Full treaded 5/8" x 8'	882	pcs	

**AGENCY SPECIFICATIONS**

**BIDDER'S STATEMENT  
OF COMPLIANCE**

**BILL OF MATERIALS**

**(ELECTRONICS AND COMMUNICATIONS)**

12	Full treaded 5/8" x 8' Expansion Bolt	3528	pcs
13	M10 Nuts & washer	7056	pcs
14	#8 metal screw and #8 plastic Tox	128	pcs

**CABINETS & BOXES**

15	Indoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	6	pcs
16	In Line Closure for 96 core Fiber Optic Cable for IDF	2	pcs
17	Junction box w/cover, Ga. 16, deep type 4x4	219	pcs
18	Junction box w/cover, Ga. 16, deep type 12x12	32	pcs
19	Pull Box 12 x 12 x 12	1	pcs

**XII - Head House Level 3 = 126 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
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**CABLES & PERIPHERALS**

1	48Core FOC Multimode 50/125 - OM4	2002	m
2	24Core FOC Multimode 50/125 - OM4	201	m
3	4Core FOC Multimode 50/125 - OM4	10165	m
4	UTP Cable Cat 6	8828	m
5	RJ45 Connector	504	pcs

**CONDUITS & OTHER ACCESSORIES**

6	32 mm. $\phi$ IMC Pipe w/ Coupling 10'/length	2235	length
7	32 mm. $\phi$ Coupling	4470	pcs
8	Strut Channel, 10'/length	123	length
9	32 mm. $\phi$ Strut Clamp	2682	pcs
10	Full treaded 5/8" x 8'	4470	pcs
11	Full treaded 5/8" x 8' Expansion Bolt	17880	pcs
12	M10 Nuts & washer	35760	pcs
13	#8 metal screw and #8 plastic Tox	504	pcs

**CABINETS & BOXES**

14	Indoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	20	pcs
15	In Line Closure for 96 core Fiber Optic Cable for IDF	6	pcs
16	Junction box w/cover, Ga. 16, deep type 4x4	2133	pcs
17	Junction box w/cover, Ga. 16, deep type 12x12	126	pcs
18	Pull Box 12 x 12 x 12	1	pcs

**XIII - Head House Level 4 & Elevator = 74 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
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**CABLES & PERIPHERALS**

1	48Core FOC Multimode 50/125 - OM4	1240	m
2	8Core FOC Multimode 50/125 - OM4	207	m
3	4Core FOC Multimode 50/125 - OM4	4018	m
4	UTP Cable Cat 6	6904	m
5	RJ45 Connector	296	pcs

**CONDUITS & OTHER ACCESSORIES**

6	32 mm. $\phi$ IMC Pipe w/ Coupling 10'/length	1512	length
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**AGENCY SPECIFICATIONS**

**BIDDER'S STATEMENT  
OF COMPLIANCE**

**BILL OF MATERIALS**

**(ELECTRONICS AND COMMUNICATIONS)**

7	32 mm. φ Coupling	3024	pcs
8	Strut Channel, 10'/length	84	length
9	32 mm.φ Strut Clamp	1814.4	pcs
10	Full tressed 5/8" x 8'	3024	pcs
11	Full tressed 5/8" x 8' Expansion Bolt	12096	pcs
12	M10 Nuts & washer	24192	pcs
13	#8 metal screw and #8 plastic Tox	296	pcs

**CABINETS & BOXES**

14	Indoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	7	pcs
15	In Line Closure for 96 core Fiber Optic Cable for IDF	4	pcs
16	Junction box w/cover, Ga. 16, deep type 4x4	1237	pcs
17	Junction box w/cover, Ga. 16, deep type 12x12	74	pcs
18	Pull Box 12 x 12 x 12	1	pcs

**XIV - Aero Bridge and Roof Deck = 20 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
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**CABLES & PERIPHERALS**

1	48Core FOC Multimode 50/125 - OM4	283.5	m
2	24Core FOC Multimode 50/125 - OM4	283.5	m
3	8Core FOC Multimode 50/125 - OM4	283.5	m
4	4Core FOC Multimode 50/125 - OM4	8997	m
5	UTP Cable Cat 6	100	m
6	RJ45 Connector	80	pcs

**CONDUITS & OTHER ACCESSORIES**

7	32 mm. φ IMC Pipe w/ Coupling 10'/length	908	length
8	32 mm. φ Coupling	1816	pcs
9	Strut Channel, 10'/length	50	length
10	32 mm.φ Strut Clamp	1089.6	pcs
11	Full tressed 5/8" x 8'	1816	pcs
12	Full tressed 5/8" x 8' Expansion Bolt	7264	pcs
13	M10 Nuts & washer	14528	pcs
14	#8 metal screw and #8 plastic Tox	80	pcs

**CABINETS & BOXES**

15	Indoor Enclosure 12x12x16 Single w/ mounting bracket,Nema3R,w/ ventilation& knockout	20	pcs
16	In Line Closure for 96 core Fiber Optic Cable for IDF	1	pcs
17	Junction box w/cover, Ga. 16, deep type 4x4	303	pcs
18	Junction box w/cover, Ga. 16, deep type 12x12	20	pcs
19	Pull Box 12 x 12 x 12	1	pcs

**XV - Ramp - 34 cameras**

ITEM NO.	DESCRIPTION	QTY	UNIT
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**CABLES & PERIPHERALS**

1	Station Antenna	7	sets
2	Access Point	2	sets

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>(ELECTRONICS AND COMMUNICATIONS)</b>					
3	Managed Gigabit Slim Type 4x10/100/1000Tx 9RJ 45) PoE+ with FOC port (with Power Adapter)	17	pcs		
4	4Core FOC Multimode 50/125 - OM4	10684	m		
5	UTP Cable Cat 6 (Outdoor Type)	170	m		
6	RJ45 Connector	136	pcs		
<b>CONDUITS &amp; OTHER ACCESSORIES</b>					
7	32 mm. φ IMC Pipe w/ Coupling 10'/length	3562	length		
8	32 mm. φ Coupling	7124	pcs		
9	Strut Channel, 10'/length	48	length		
10	32 mm.φ Strut Clamp	4274.4	pcs		
11	Full treaded 5/8" x 8'	7124	pcs		
12	Full treaded 5/8" x 8' Expansion Bolt	28496	pcs		
13	M10 Nuts & washer	56992	pcs		
14	#8 metal screw and #8 plastic Tox	80	pcs		
<b>CABINETS &amp; BOXES</b>					
15	Outdoor Enclosure 12x12x16 Single w/ mounting bracket, Nema3R,w/ ventilation& knockout	17	sets		
16	Junction box w/cover, Ga. 16, deep type 4x4	1188	pcs		
17	Junction box w/cover, Ga. 16, deep type 12x12	34	pcs		
18	Pull Box 12 x 12 x 12	1	pcs		
<b>XVI - Server (Active Component) EOC</b>					
ITEM NO.	DESCRIPTION	QTY	UNIT		
<b>CABLES &amp; PERIPHERALS</b>					
1	Fiber Optic SC Pigtails SM/MM	4896	m		
2	Fiber Optic Distribution Panel	13	m		
3	Rack 42U	1	m		
4	Work Station at Ramp Control	1	pcs		

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Note :

1. all cameras support H.265
2. bit rate(4MP@4Mbps 20fps,8MP@6Mbps 20fps,2MP@2Mbps 20fps,12MP@8Mbps 20fps ,
3. 4TB per HDD, each HDD have 10% LOSS

Requirements	Types of camera										Total Camera
	Fixed Dome 4MP	Fixed Bullet 4MP	180 Degrees MultiSensor 4MP	Varifocal 4mp	PTZ 4MP	Panoramic w /Integrated PTZ	Fisheye 5MP	ANPR 5MP	Facial Recognition 5mp	Total Camera	
Total number of Camera	19	0	0	186	51	22	270	39	25	612	
Total number of NVR	2pcs			8pcs	6pcs	39pcs	23pcs	4pcs	11		
Total HDD Storage Capacity (TB)	80TB			550TB	350TB	122TB	1500TB	250TB	175TB		
Total number of HDD	20			138	88	34HDD	375	63	179		

CCTV Accessories

QTY	Unit	DESCRIPTION
1	unit	Server
4	units	Workstation
1	pc	CORE SWITCH (see TOR for the Specs)
1	Lot	MEDIA CONVERTER & PATCH CABLE
1	Lot	MEDIA CONVERTER RACK
1	Lot	Camera Bracket and Accessories
612	pcs	UPS @ 750 VA Line Interactive
2	Pcs	UPS @ 10KVA On-Line Series
12	pcs	21" HD 4K LED TV (Including Desktop Stand Bracket)
15	pcs	50" HD 4K LED TV
1	Lot	Video Matrix System

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
BILL OF MATERIALS				
CCTV Components				
AND SURVEILLANCE SYSTEM AT NAIA TERMINAL 2				
LOCATION: NAIA T3 / ZONE DELTA				
ITEM NO.	DESCRIPTION	QTY	UNIT	
WIRES AND CABLES				
1	Varifocal 4mp	186	unit	
2	PTZ 4MP	51	unit	
3	Panoramic w /Integrated PTZ	22	unit	
4	Fisheye 5MP	270	unit	
5	ANPR 5MP	39	unit	
6	Facial Recognition 5mp	25	unit	
7	NVR	93	unit	
8	HDD	861	unit	
9	Server	1	unit	
10	Workstation	4	units	
11	CORE SWITCH (see TOR for the Specs)	1	pc	
12	MEDIA CONVERTER & PATCH CABLE	1	Lot	
13	MEDIA CONVERTER RACK	1	Lot	
14	Camera Bracket and Accessories	1	Lot	
15	UPS @ 750 VA Line Interactive	0	pcs	
16	UPS @ 10KVA On-Line Series	2	Pcs	
17	21" HD 4K LED TV (Including Desktop Stand Bracket)	12	pcs	
18	50" HD 4K LED TV	15	pcs	
19	Video Matrix Sytem	1	Lot	

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AGENCY SPECIFICATIONS		BIDDER'S STATEMENT OF COMPLIANCE	
PROJECT: MIAA AGMSES CCTV PROJECT LOCATION: NAIA TERMINAL 3 (Zone Delta) ELECTRICAL WORKS: EOS ROOM 2ND LEVEL			
<b>BILL OF MATERIALS</b>			
	DESCRIPTION	QTY.	UNITS
	<b>Electrical Materials</b>		
<i>I</i>	<b>Wires and Cables</b>		
1	3.5sqmm THHN Copper Wire - 150m/roll	16	roll
2	14.0 sqmm THHN Copper Wire	7	roll
3	8.0 sqmm THHN Copper Wire (Grounding)	1	roll
	<b>II Boxes</b>		
4	Junction Box GI w/ cover (Heavy Duty)	20	pcs
5	Utility Box, Deep Type HD	36	pcs
	<b>III Conduits and Fittings</b>		
6	20mm $\phi$ x 3m IMC w/ coupling	30	length
7	32mm $\phi$ x 3m IMC w/ coupling	50	length
8	20mm $\phi$ Locknut and Bushing (IMC)	75	pair
9	32mm $\phi$ Locknut and Bushing (IMC)	20	pair
10	20mm $\phi$ IMC coupling	15	pcs
11	32mm $\phi$ IMC coupling	25	pcs
	<b>IV Supports</b>		
12	Electrical Strut Channel (Plain)G 41x41mm x 3m Thick-2.5mm	15	length
13	Strut Clamp 20mm $\phi$ set	20	pcs
14	Strut Clamp 32mm $\phi$ set	100	pcs
15	Conduit Hanger 20mm $\phi$ set	50	pcs
16	Threaded Rod 3/8 Standard x 3m	50	length
17	Expansion Bolt 3/8 set	150	pcs
18	M10 Nuts w/ washer - pair	150	pair
	<b>V Circuit Breakers and Panel Boards</b>		
19	40AT CB 2P with NEMA 3R Enclosure	1	assy
20	Elec Panel: 75AT 3 $\phi$ CB branches: 2-40AT and 8-20AT Bolt-on-Type 2P Industrial CB with separate busbar for grounding.	1	assy
	<b>VI Lightings, Switches, and Outlets</b>		
21	2 X 16 W Tubular LED Lamp Fixture, (12" X 48") Louver, 220V, 1800 lumens, 6000k Color Temp, 76 Ra CRI, Daylight, Recessed Type ( As per sample )	12	assy
22	Switch, Two-Gang, Flushed Mounted, with Plate Cover	2	set
23	Duplex Universal Convenience Outlet, Flushed Mounted with Plate Cover 3-prong	16	set
	<b>VII Air-Conditioning System</b>		
24	3TR Ceiling Cassette AC, Inverter Type, 220V 1 $\phi$ 60Hz	1	assy

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AGENCY SPECIFICATIONS		BIDDER'S STATEMENT OF COMPLIANCE	
PROJECT: MIAA AGMSES CCTV PROJECT			
LOCATION: NAIA TERMINAL 3 (Zone Delta)			
ELECTRICAL WORKS: POWER SUPPLY FOR CCTV CAMERAS			
<b>BILL OF MATERIALS</b>			
	DESCRIPTION	QTY.	UNITS
	<b>Electrical Materials</b>		
<i>I</i>	<b>Wires and Cables</b>		
1	3.5sqmm THHN Copper Wire - 150m/roll	331	roll
2	5.5sqmm THHN Copper Wire - 150m/roll	51	roll
3	8.0sqmm THHN Copper Wire - 150m/roll	43	roll
4	14.0sqmm THHN Copper Wire-150m/roll	20	roll
5	22.0sqmm THHN Copper Wire	200	mtr
<i>II</i>	<b>Boxes</b>		
6	Pull Box 8"x8"x6" GI (Heavy Duty)	75	pcs
7	Junction Box GI w/ cover (Heavy Duty)	250	pcs
8	Terminal Enclosure w/ 12 Terminal Blocks	110	pcs
<i>III</i>	<b>Conduits and Fittings</b>		
9	20mmØ x 3m IMC w/ coupling	5010	length
10	25mmØ x 3m IMC w/ coupling	1520	length
11	32mmØ x 3m IMC w/ coupling	520	length
12	20mmØ Locknut and Bushing (IMC)	1200	pair
13	25mmØ Locknut and Bushing (IMC)	200	pair
14	32mmØ Locknut and Bushing (IMC)	150	pair
<i>IV</i>	<b>Supports</b>		
15	Electrical Strut Channel (Plain)G 41x41mm x 3m Thick-2.5mm	800	length
16	Strut Clamp 20mmØ set	8000	pcs
17	Strut Clamp 25mmØ set	2835	pcs
18	Strut Clamp 32mmØ set	820	pcs
19	Threaded Rod 3/8 Standard x 3m	5000	length
20	Expansion Bolt 3/8 set	12000	pcs
21	M10 Nuts w/ washer - pair	15000	pair
<i>V</i>	<b>Circuit Breakers and Panel Boards</b>		
22	20AT CB with EMA 3R Enclosure	6	assy
23	Elec Panel Board: 60AT, 2P, 50AF TQC Type 20AT bolt-on, NEMA 3R Enclosure	Branches: 6- 3	assy
24	Elec Panel Board: 40AT, 2P, 50AF TQC Type 20AT bolt-on, NEMA 3R Enclosure	Branches: 4- 3	assy
25	15AT MCB 2-pole	612	pcs
<i>VI</i>	<b>Miscellaneous</b>		
26	Rubber Insulation Tape	10	pcs
27	Plastic Vinyl Insulation Tape	450	pcs
28	Caution Tape	50	rolls
29	Gauge 16 GI Wire	45	kl
30	Hacksaw Blade	450	pcs
31	#8 Cable Tie	6000	pcs
<i>VII</i>	<b>Other System</b>		
40	Lightning Arrester complete with aerial and grounding rod	61	assy
41	Solar Panel System	41	assy

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# Zone Echo - Perimeter

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AGENCY SPECIFICATIONS					BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS/QUANTITIES</b>					
<b>CIVIL WORKS</b>					
<b>LOCATION / ZONE: ZONE ECHO PERIMETER</b>					
ITEM #	DESCRIPTION	NO.	QTY.	UNITS	
1	CIVIL WORKS				
<b>A</b>	<b>EXCAVATION / EARTHWORKS</b>				
1	Clearing & Grubbing		71	sq.m.	
2	Topsoil Removal and Storage		71	sq.m.	
3	Cutting of Concrete Pavement		58	l.m.	
4	Removal & Disposal of Concrete Pavement		24	sq.m.	
5	Cutting of Asphalt Pavement		58	l.m.	
6	Removal & Disposal of Asphalt Pavement		24	sq.m.	
7	Excavation		141	cu.m.	
<b>B</b>	<b>RESTORATION / BACKFILLING</b>				
1	Sub-Grade Preparation		117	sq.m.	
2	Sand Leaning		94	cu.m.	
3	Subbase Course (t=100mm)		117	sq.m.	
4	Aggregate Base Course (t=100mm)		117	sq.m.	
5	Portland Cement Concrete Pavement (t=100mm)		24	sq.m.	
6	Bituminous Concrete Surface Coarse (t=100mm)		24	sq.m.	
7	Prime Coat		24	sq.m.	
8	Tack Coat		24	sq.m.	
9	Topsoiling/Embankment		71	sq.m.	
10	Sodding		71	sq.m.	
<b>C</b>	<b>GENERAL REQUIREMENT</b>				
1	CCTV Monitoring System Room		1	unit	
2	Post Concrete Pedestal w/ 6.0m CCTV Pole		3	units	
3	Post Concrete Pedestal w/ 8.0m CCTV Pole		48	units	
<b>D</b>	<b>TEMPORARY ENCLOSURE</b>		1	lot	
<b>E</b>	<b>MISCELLANEOUS WORKS</b>				
	<i>Supply, Fabrication and Installation:</i>				
	Desk - Bow shaped desk on panel legs, 3 drawers on panel legs, high pressure laminated top, melamine-face panel legs with adjustable leveler glides powder coated modesty panel (0.90mW x 2.5mL x 0.70mH)		1	sets	
	Chair - midback chair, mesh back, fabric upholster seat, high quality medium density foam upholstered of high quality mesh fabric. (0.70mW x 0.52mD x 0.92m-0.95mH)		2	sets	

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<p style="text-align: center;"><b>AGENCY SPECIFICATIONS</b></p>	<p style="text-align: center;"><b>BIDDER'S STATEMENT OF COMPLIANCE</b></p>
<p style="text-align: center;"><b>SCOPE OF WORK</b></p> <p><b>A      Clearing &amp; Grubbing</b></p> <p>This work shall consist of clearing, grubbing, removing and disposing all vegetation and debris, except those objects that are designated to remain in place or are to be removed in consonance with other provisions of this Specification. The work shall also include the preservation from injury or defacement of all objects designated to remain.</p> <p><b>B      Topsoil Removal and Storage</b></p> <p>This work shall consist of topsoil excavation in conformity with the lines, grades and dimensions shown on the plans or established by the engineer. The removed topsoil shall be transported and deposited in storage piles at locations approved by the engineer. The topsoil shall be completely removed to the required depth from any designated area prior to the beginning of regular excavation or embankment work in the area and shall be kept separate from other excavated materials for later use.</p> <p><b>C      Cutting of Pavement</b></p> <p>This work involves furnishing of all labor, materials, tools and equipment necessary to saw or cut concrete and asphalt pavement for construction activities with direct supervision by the engineer in-charge.</p> <p><b>D      Removal &amp; Disposal</b></p> <p>This work shall consist of the removal wholly or in part, and satisfactory disposal of all fences, structures, old pavements, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed off under other items in the Contract. It shall also include the salvaging of designated materials and backfilling the resulting trenches, holes, and</p> <p><b>E      Sub-Grade Preparation</b></p> <p>This work shall consist of the preparation of the subgrade for the support of overlying structural layers. It shall extend to full width of the roadway. Unless authorized by the Engineer, subgrade preparation shall not be done unless the Contractor is able to start immediately the construction of the pavement structure.</p>	

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<b>AGENCY SPECIFICATIONS</b>	<b>BIDDER'S STATEMENT OF COMPLIANCE</b>
<p><b>F Sand Leaning</b></p> <p>This work shall consist of furnishing of all labor, materials, tools and equipment necessary in compacting and leveling of the sand leaning until the specified lines, grades and cross-sections have been obtained and the materials are compacted to the specified depth and density.</p> <p><b>G Subbase Course</b></p> <p>This work shall consist of furnishing, placing and compacting an subbase course on a prepared subgrade in accordance with this Specification and the lines, grades and cross-sections shown on the Plans, or as directed by the Engineer.</p> <p><b>H Crushed Aggregate Base Course</b></p> <p>This work shall consist of furnishing, placing and compacting crushed gravel, crushed stone or crushed rock on a prepared subgrade/subbase in one or more layers in accordance with this Specification and lines, grades, thickness and typical cross-sections shown on the Plans or as established by the Engineer.</p> <p><b>I Portland Cement Concrete Pavement</b></p> <p>This work shall consist of pavement of Portland Cement Concrete, with or without reinforcement, constructed on the prepared base in accordance with this specification and in conformity with lines, grades, thickness and typical crosssection shown on the plans.</p> <p><b>J Bituminous Concrete Surface Course</b></p> <p>This work shall consist of a foundation for surface course, composed of soil-aggregate and asphaltic material in proper proportions, road mixed and constructed on a prepared subgrade/subbase in accordance with this specification and the lines, grades and typical cross-sections shown on the plans or established by the Engineer.</p> <p><b>K Bituminous Coating</b></p> <p>This work shall consist spraying of prime coat throughout the base course and for every layer of the asphalt for proper bonding of the materials.</p> <p><b>L Topsoil and Sodding</b></p> <p>This work involves furnishing of all labor, equipment, materials and miscellaneous items necessary to perform all soil preparation, topsoiling, sodding and other related work not specified elsewhere.</p>	

<b>AGENCY SPECIFICATIONS</b>	<b>BIDDER'S STATEMENT OF COMPLIANCE</b>
<p><b>M Handhole</b></p> <p>This work involves construction of reinforced concrete handhole complete with frame and cover, endbells, formworks and other necessary accessories/works to complete the construction.</p> <p><b>N General Requirement</b></p> <p>This work involves purchase of 20mm thk x 1.2m x 2.4m steel plate and caution tape (3"x1000') yellow. This work also includes the provision of temporary enclosure (painted) and shall be located on some locations as directed by the engineer in-charge. Provisions of informative signage shall be a part of this work item. All salvageable materials, including 20mm thk steel plates, used in construction shall be properly turnover to .....</p> <p><b>GENERAL NOTES:</b></p> <p>It is assumed that the bidder shall have full knowledge of the work and the site condition, shall have thoroughly reviewed the plans, specifications and bid documents, and thus warrants the availability of the work, materials and equipment upon submission of his bid proposal.</p> <p>All existing dimensions shall be verified at the site before commencing work. Any discrepancies shall be reported to the MIAA project engineer for clarification.</p> <p>The scope of work shall not in any way limit the true intent of the plans and specifications. It shall be the responsibility of the contractor to incorporate in his work any materials and other incidental he deems necessary to satisfy the true intent and complete the same to the best Engineering Standard and practices.</p> <p>The contractor shall provide safety warning signages in all construction working areas to prevent any accident and shall coordinate with MIAA Engineering for proper implementation of the project. It shall be the responsibility of the contractor to verify presence of embedded utility lines within the excavation path to avoid damage to utility lines.</p> <p>Contractor is expected to exercise caution in the implementation of the construction / installation work to safeguard life and avoid damage to adjoining existing structures / utilities.</p> <p>The contractor shall be responsible for all injury to persons and damages to properties caused by the work or by his men and shall be liable for any claims as a result of his injury and/or damages.</p> <p>The contractor shall coordinate all aspects of the works in order to ensure a harmonious progress without interruptions, delays or modifications to work already completed.</p> <p>The contractor shall guarantee his work (Civil works- materials and workmanship) for a period of one (1) year from acceptance of the project. Noted defects within the aforesaid period shall be repaired by the contractor at his expense.</p>	

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AGENCY SPECIFICATIONS					BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>					
<b>ELECTRICAL</b>					
<b>PROJECT: CCTV, Zone Echo, Control Room, Electrical Works</b>					
<b>LOCATION: Airside Perimeter of NAIA Complex specifically Balagbag outer side of Runway 06-24 and portion of T3.</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>		
<b>WIRES AND CABLES</b>					
1	3.5mm <sup>2</sup> THHN Stranded Copper Wire	4	rolls		
2	5.5mm <sup>2</sup> THHN Stranded Copper Wire	2	roll		
3	14mm <sup>2</sup> THHN Stranded Copper Wire	45	mtrs.		
4	Bare copper wire	252	mtrs.		
<b>BOXES</b>					
5	Pull Box (6 x 6 x 4 inches)	1	pc.		
6	Utility Box Heavy Duty	15	pcs.		
7	Octagonal Box Heavy Duty 4x4	30	pcs.		
<b>CONDUIT AND FITTINGS</b>					
8	Flexible Metallic Conduit (FMC) 1/2"	15	mtrs.		
9	FMC Connector 1/2"	9	pcs.		
10	40mmØ IMC Pipe with Coupling	3	length		
11	40mmØ Connector, heavy duty	2	pcs.		
12	40mmØ Elbow, heavy duty	3	pcs.		
13	40mmØ Locknut, heavy duty	2	pcs.		
14	40mmØ Bushing, heavy duty	2	pcs.		
15	20mmØ IMC Pipe with Coupling	35	length		
16	20mmØ C-Clamp, heavy duty	35	pcs.		
17	20mmØ Connector, heavy duty	40	pcs.		
18	20mmØ Locknut, heavy duty	40	pcs.		
19	20mmØ Bushing, heavy duty	40	pcs.		
20	20mmØ Elbow, heavy duty	10	pcs.		
<b>CIRCUIT BREAKER AND PANEL BOARD</b>					
21	Panel Board with: Main MCCB 60AT,3P,3Ø;branches: 2pcs.-40AT CB, 2P, 1Ø; 3pcs.-30AT,2P, 1Ø; 3pcs.-20AT CB,2P, 1Ø bolt-on type in NEMA 3R enclosure	1	unit		
22	30 AT Miniature C.B., 1Ø with NEMA 3R enclosure	2	pcs		
<b>MISCELLANEOUS</b>					
23	Galvanize Steel Post (4 meters), Base dia. 8", Top dia. 4"	48	units		
24	Galvanize Steel Post (6 meters), Base dia. 8", Top dia. 4"	3	units		
25	Rubber Tape #23	14	rolls		
26	Plastic Tape #33	20	rolls		
27	Ground rod 5/8 w/ shoulderless connector	51	pcs.		
28	Lighting Arrester Rod and Accs.	51	pcs.		
29	Electrical Vinyl Tape (Big)	30	rolls		
30	12W LED Downlight Fixture (Daylight), 220V, 1200 Lumens, 240mmØ x68mm depth	9	pcs.		

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>ELECTRICAL</b>					
<b>PROJECT: CCTV, Zone Echo, Control Room, Electrical Works</b>					
<b>LOCATION: Airside Perimeter of NAIA Complex specifically Balagbag outer side of Runway 06-24 and portion of T3.</b>					
31	Two gang Switch, Flushed Mounted with Plate Cover	1	pcs.		
32	2 Gang Outlet (SPO) with Plate Cover	1	pc.		
33	ACU Outlet with Plate Cover	2	pc.		
34	3 Gang Convenience Outlet with Plate Cover	9	pcs.		
35	G.I Wire Ga. 16	50	kgs.		
36	Shoulderless connector 8.0mm <sup>2</sup>	70	pcs.		
37	Shoulderless connector 14.0mm <sup>2</sup>	6	pcs.		
38	Shoulderless connector 22.0mm <sup>2</sup>	12	pcs.		
39	Shoulderless connector 30.0mm <sup>2</sup>	24	pcs.		
43	Window Type Inverter Aircon 1hp	2	units		
<b>SOLAR PANEL</b>					
44	70 Wt Solar Panel with 30 AH Lith Battery, 1.30 Wt LED Light with 5 day Back-up	51	sets		

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>					
<b>ELECTRONICS AND COMMUNICATIONS</b>					
<b>LOCATION: ZONE ECHO</b>					
Airside Perimeter of NAIA Complex specifically Balagbag outside of Runway 06-24 and portion of T3					
ITEM NO.	DESCRIPTION	QTY	UNIT		
<b>CABLES &amp; PERIPHERALS</b>					
1	Access Point	17	sets		
2	Station Antenna	55	sets		
3	UTP Cable - CAT 6	144	m		
4	RJ45 Connector	288	pcs.		
<b>CONDUITS &amp; OTHER ACCESSORIES</b>					
<b>CABINETS &amp; BOXES</b>					
5	Outdoor Enclosure 12"x24"x24" Single w/ mounting bracket, Nema3R, w/ ventilation & knockout	51	pcs		

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Note :

1. all cameras support H.264 and H265
2. bit rate(4MP@4Mbps 20fps,2MP@6Mbps 20fps,8MP@8Mbps 20fps,12MP@8Mbps 20fps ,
3. 4TB per HDD, each HDD assume to have 10% LOSS

Requirements	Types of Camera										Total camera
	Fixed Dome 4MP	Fixed Bullet 4MP	180 Degrees Multisensor 4MP	Varifocal 4mp	PTZ 4MP	Panoramic w /Integrated PTZ	Fisheye 5MP	ANPR 5MP	Facial Recognition 5mp		
Total number of Camera	-	0	0	94	31	1	13	3	2		142
Total number of NVR				11pcs	3pcs	1pcs	1pcs	1pcs	1pcs		
Total HDD Storage Capacity (TB)				150TB	70TB	50TB	85TB	64TB	54TB		
Total number of HDD				38	18	13	21	16	14		

CCTV Accessories

QTY	Unit	DESCRIPTION
1	unit	Server
4	units	Workstation
1	pc	CORE SWITCH (see TOR for the Specs)
1	Lot	MEDIA CONVERTER & PATCH CABLE
1	Lot	MEDIA CONVERTER RACK
1	Lot	Camera Bracket and Accessories
142	pcs	UPS @ 750 VA Line Interactive
2	Pcs	UPS @ 10KVA On-Line Series
6	pcs	21" HD 4K LED TV (Including Desktop Stand Bracket)
8	pcs	50" HD 4K LED TV
1	Lot	Video Matrix System

2

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE	
BILL OF MATERIALS					
CCTV Components					
LOCATION / ZONE: ZONE ECHO PERIMETER					
ITEM NO.	DESCRIPTION	QTY	UNIT		
WIRES AND CABLES					
1	Varifocal 4mp	94	units		
2	PTZ 4MP	31	units		
3	Panoramic with Integrated PTZ	1	units		
4	Fisheye 5MP	12	units		
5	ANPR 5MP	3	units		
6	Facial Recognition 5mp	2	units		
7	NVR	18	units		
8	HDD	118	units		
9	Server	1	unit		
10	Workstation	4	units		
11	CORE SWITCH	1	pc		
12	MEDIA CONVERTER & PATCH CABLE	1	Lot		
13	MEDIA CONVERTER RACK	1	Lot		
14	Camera Bracket and Accessories	1	Lot		
15	UPS @ 750 VA Line Interactive	142	pcs		
16	UPS @ 10KVA On-Line Series	2	Pcs		
17	21" HD 4K LED TV (Including Desktop Stand Bracket)	6	pcs		
18	50" HD 4K LED TV	8	pcs		
19	Video Matrix Sytem	1	Lot		

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# Zone Foxtrot - Command Center

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
<b>BILL OF MATERIALS</b>				
<b>ELECTRICAL</b>				
<b>LOCATION: NAIA COMMAND CENTER/ZONE FOXTROT</b>				
ITEM NO.	DESCRIPTION	QTY	UNIT	
<b>WIRES AND CABLES</b>				
1	3.5mm <sup>2</sup> THWN Stranded Copper Wire 150m/roll	25	rolls	
2	8mm <sup>2</sup> THWN Stranded Copper Wire 150m/roll	5	rolls	
3	14mm <sup>2</sup> THWN Stranded Copper Wire 150m/roll	1	roll	
4	50mm <sup>2</sup> THWN Stranded Copper Wire 150m/roll	4	rolls	
<b>BOXES</b>				
5	Pull box w/ knock outs and cover Ga. 16, 8"x8"x6"	35	pcs	
6	Junction box, deep type, metal w/ cover	100	pcs	
7	Utility box, Ga. 16	80	pcs	
<b>CONDUITS AND FITTINGS</b>				
8	40mm. dia. IMC pipe w/ coupling	55	lengths	
9	40mm. dia. locknuts & bushing	30	pairs	
10	40mm. dia. Coupling	15	pcs	
11	40mm. dia. Liquid tight connector	16	pcs	
12	40mm. dia. Liquid tight conduit	40	mts	
13	25mm. dia. IMC pipe w/ coupling	80	lengths	
14	25mm. dia. locknuts & bushing	40	pairs	
15	25mm. dia. Coupling	20	pcs	
16	25mm. dia. Liquid tight connector	40	pcs	
17	25mm. dia. Liquid tight conduit	20	mtrs	
18	15mm. dia. IMC pipe w/ coupling	150	lengths	
19	15mm. dia. Locknuts and bushing	300	pcs	
20	15mm. dia. Coupling	50	pcs	
<b>SUPPORTS</b>				
21	Uni strut channel, 10'/length	30	lengths	
22	40mm dia. Strut clamp	120	pcs	
23	25mm dia. Strut clamp	160	pcs	
24	15mm dia. Strut clamp	300	pcs	
25	10mm. dia. Full threaded rod, 10'/ length	30	lengths	
26	10mm. dia. Nut and washer	150	pairs	
27	Expansion bolt for 10mm. dia. Full threaded rod	100	pcs	
<b>CIRCUIT BREAKERS AND PANEL BOARD</b>				
28	Panel Board in NEMA 1 Enclosure, Main: 150AT/225AF, 3Ø, Bolt-on Type MCCB, Branches: 4-50AT/50AF, 3Ø, Bolt-on, 18-20AT/50AF, 1Ø, Bolt-on	1	assembly	
29	150AT/225AF, 3Ø, Bolt-on MCCB in NEMA 1 Enclosure	1	pc	
<b>AIRCONDITIONING SYSTEM</b>				

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
BILL OF MATERIALS				
ELECTRICAL				
LOCATION: NAIA COMMAND CENTER/ZONE FOXTROT				
ITEM NO.	DESCRIPTION	QTY	UNIT	
30	5-TR, 3Ø Split Type Air-conditioning, Unit Inverter Type	4	units	
MISCELLANEOUS				
31	12W LED Downlight Recess Mounting Light, 230VAC	35	sets	
32	Duplex universal convenience outlet w/ plate and cover	50	sets	
33	2-gang Switch, 2-device plate and cover	15	pcs	
34	1-gang Switch, 1-device plate and cover	15	pcs	
35	3-gang Switch , 3-device plate and cover	10	pcs	
36	Plastic vinyl insulation tape	40	rolls	
37	Rubber insulation tape	20	rolls	

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AGENCY SPECIFICATIONS	BIDDER'S STATEMENT OF COMPLIANCE
<p><b>SCOPE OF WORK</b></p> <p><b>CIVIL WORKS</b></p> <p><b>I. RAISED FLOORING</b></p> <p>This work involves supply, fabrication and installation of steel cement floor tiles (300mmx610mmx610mm Laminate tile- double cup suction lifter) including floor preparation, contact cement and necessary hardware accessories. See approved plans and specifications</p> <p><b>II. TILE WORKS</b></p> <p>This work involves supply and installation of 2.5mm thk x 1.82m x 20m Slip-resistant vinyl sheet including welding rod and adhesive. This also includes removal, clearing/ cleaning &amp; hauling of existing carpet tiles. See approved plans and specifications</p> <p><b>III. GLASS DOOR AND PARTITION</b></p> <p>This work involves supply, fabrication and installation of 12mm thk. Tempered fixed glass panels (partition) on anodized aluminum frame including sealants and 10mm thk. Tempered glass door with top and bottom corner patch fittings, lockset, sealants and hardware accessories. See approved plans and specifications</p> <p><b>IV. PAINTING WORKS</b></p> <p>This work involves supply of labor and materials for painting of walls, columns, beams, ceilings with the following application:</p> <ol style="list-style-type: none"> <li>1 1 - Latex Paint</li> <li>2 2 - Latex Semi-Gloss</li> <li>3 All welded joint connection shall be fully-weld &amp; grinded smoothly prior to painting. Surfaces to be applied shall be free from dirt, rust, and oil prior to paint application.</li> <li>4 As per Architect approval for the design/ color of paint. See approved plans and specification</li> </ol> <p><b>V. MISCELLANEOUS WORKS</b></p> <p>This work involves supply of 14 seater boat shaped conference table, duropal laminated top cut into 3-panel with cable management, panel leg, melamine finish (5.4mL x 1.5mW, 0.75mH); mid-back chrome finish, metal frame and leg high quality genuine leather (color black, 0.57mWx0.57mDx0.92m-0.95mH) conference chair; bow shaped desk on panel legs, 3 drawers on panel legs, high pressure laminated top, melamine-face panel legs with adjustable leveler glides powder coated modesty panel (0.90mW x 2.5mL x 0.70mH) supervisor desk; bow shaped desk on panel legs, 3 drawers on panel legs, high pressure laminated top, melamine-face panel legs with adjustable leveler glides powder coated modesty panel (3mL x 0.70mH) executive desk; midback chair, mesh back, fabric upholster seat, high quality medium density foam upholstered of high quality mesh fabric (0.70mW x 0.52mD x 0.92-0.95mH); roll up sunscreen blinds (design as per architect approval); metal frame, laminated head board and body double deck bed; carrier FP-53CSD018308, 2.0Hp, wall mounted inverted split type aircon (white) including wires, cables and necessary hardware accessories; free standing rectangular table, high pressure laminated top, melamine-face panel legs with adjustable leveler glides powder coated modesty panel (1.2mL x 0.9mW x 0.70mH) office desk; 0.60m x 0.80m x 0.45mHt Center table, 3 seater sofa, 0.85m x 1.5m synthetic granite top 6 seater pantry table, stackable chair.</p>	

AGENCY SPECIFICATIONS	BIDDER'S STATEMENT OF COMPLIANCE
<p><b>GENERAL NOTES:</b></p> <p>It is assumed that the bidder shall have full knowledge of the work and the site condition, shall have reviewed the plans, specifications, and bid documents, and thus warrants the availability of the work and materials upon submission of his bid proposal.</p> <p>The contractor shall conduct actual verification on site to ensure the accuracy of the plans. Any discrepancies noted shall be reported to MIAA project engineer/architect in-charge for immediate clarification.</p> <p>The scope of work shall not in any way limit the true intent of the plans and specifications. It shall be the responsibility of the contractor to incorporate in his work any materials and other incidental he deems necessary to satisfy the true intent and complete the same to the best Engineering standard and practices.</p> <p>The contractor shall provide safety warning signages in all affected areas to prevent any accident and shall coordinate with MIAA Engineering for proper implementation of the project.</p> <p>The contractor shall be responsible for all injury to persons and damages to properties caused by the work or by his men and shall be liable for any claims as a result of his injury and/or damages.</p> <p>The contractor shall coordinate all aspects of works in order to ensure a harmonious progress without interruptions, delays or modifications to work already completed.</p> <p>Materials and workmanship must be of best quality, MIAA reserves the right to reject the project in whole or in part due to poor workmanship or inferior quality of materials used. All materials installed and workmanship shall have a warranty of two (2) years upon the acceptance of the project.</p>	

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AGENCY SPECIFICATIONS			BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>				
<b>CIVIL WORKS</b>				
<b>PROJECT: NAIA - AGMSES CCTV PROJECT</b>				
<b>LOCATION / ZONE: ZONE FOXTROT - COMMAND CENTER</b>				
ITEM #	DESCRIPTION	QTY.	UNITS	
<b>I</b>	<b>SITE WORKS</b>			
	(Demolition/ removal of ceiling, drywall and doors)			
<b>II</b>	<b>RAISED FLOORING</b>			
	<i>Supply of materials, fabrication and Installation</i>			
1	Steel Cement Floor Panels	350		sets
	Including Preparation of Flooring to install Steel Panels			
	<i>Materials:</i>			
	Laminate Tile-Double Cup Suction Lifter			
	Size: 300mmx610mmx610			
<b>III</b>	<b>TILE WORKS</b>			
	<i>Materials:</i>			
1	150mm x 900mm x 3mm thk Vinyl Tiles	2,840.00		pcs
2	Contact Cement (Tophide)	40.00		gals
<b>IV</b>	<b>PARTITION WALL</b>			
	<i>Materials:</i>			
1	6mm thk High density board 4' x 8' (one face lamina	218.00		pcs
2	4.5mm thk. Ficem Board x 4' x 8'	210.00		pcs
3	25mm x 50mm x 2mm thk. x 6m B.I Tubular	60.00		pcs
4	50mm x 50mm x 2mm thk. x 6m B.I Tubular	10.00		pcs
5	50mm x 75mm x 2mm thk. x 6m B.I Tubular	52.00		pcs
6	1mm thk. x 35mm x 102mm x 3m Metal C-Studs	380.00		pcs
7	1mm thk. x 35mm x 102mm x 3m Metal U-Tracks	238.00		pcs
<b>V</b>	<b>VIDEOWALL</b>			
	<i>Materials:</i>			
1	25mm x 25mm x 2mm thk. x 6m S.S. Tubular	24.00		pcs
2	25mm x 75mm x 2mm thk. x 6m B.I Tubular	7.00		pcs
3	50mm x 150mm x 2mm thk. x 6m B.I Tubular	5.00		pcs
4	38mm x 38mm x 4.5mm thk. x 6m Angle Bar	4.00		pcs
5	50mm x 75mm K.D Tanguile	290.00		bd.ft
6	4.5mm Ø x 75mm carriage bolt & nut	320.00		pcs
7	12mm Ø Dyna Bolt	30.00		pcs

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
8	150mm x 250mm x 6mm thk. Base Plate	10.00	pcs	
9	100mm x 80mm x 6mm thk. Trapezoidal Stiffener Pl	10.00	pcs	
10	100mm x 100mm x 6mm thk. Stiffener Plate	20.00	pcs	
<b>VI</b>	<b>CEILING WORKS</b>			
1	6mm thk. Ficem Board	195.00	pcs	
2	Black Screw - 6x1",25mm Needle point	7,728.00	pcs	
3	Mesh Tape (2"x250ft)	17.00	roll	
4	Premium Joint (20kg/bag)	17.00	bag	
5	J-Furring - 0.4mmthk.x19mmx50mmx5m	195.00	pcs	
6	C-Channel - 0.8mmthk.x12mmx38mmx5m	112.00	pcs	
7	Wall Angle - 0.4mmthk.x25mmx25mmx3m	390.00	pcs	
8	Suspension Clip	420.00	pcs	
9	Rod Joiner	420.00	pcs	
10	Steel Angle	420.00	pcs	
11	Powerload	420.00	pcs	
12	Drivepin, nailhead	420.00	pcs	
13	Hanger Rod, #8	225.00	l.m	
14	W-Clip, double	805.00	pcs	
15	Blind Rivets - 1/8"x3/4"	644.00	pcs	
16	Concrete Nail	9.00	kgs	
<b>VII</b>	<b>GLASS DOOR AND PARTITION</b>			
	<i>Supply, Fabrication and Installation:</i>			
1	12mm thk. Tempered Fixed Glass Panels on 50mm x 100mm analok aluminum frames including frosted sticker, sealants and hardware accessories (2.75m x 8m)	2.00	sets	
2	10mm thk. Tempered Sliding door on analok aluminum frames including frosted sticker, sealants, lockset, patch fittings and hardware accessories (2.0m x 2.1m)	2.00	sets	
3	10mm thk. Tempered Swing door on analok aluminum frames including frosted sticker, sealants, lockset, door pull handle, patch fittings and hardware accessories (2.0m x 2.1m) 2 sets - H-Type S.S. Door handle satin finish 2 sets - H-Type Handle S.S. Satin Fin.	2.00	sets	
4	Roll up Sunscreen Blind (As per Architect Approval)	480.00	sq.ft	
<b>VIII</b>	<b>CARPENTRY WORKS</b>			
	<i>Materials:</i>			
A	Pantry Cabinets & Window Joist			
	<i>Materials:</i>			
1	2"x2" K.D. Tanguile	50.00	bd.ft	
2	Assorted Common Wire Nails	3.00	kgs	
3	20mm thk. Marine Plywood	6.00	pcs	

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
4	1mm thk. Formica Lamination	2.00	pcs	
5	2mm thk x 22mm PVC Edging	19.00	mts	
B	Pantry Countertops			
	<i>Supply &amp; Installation:</i>			
1	12mm thk. Synthetic stone countertop including splashboard and baseboards	15.00	sq.ft	
<b>IX</b>	<b>PAINTING WORKS</b>			
	<i>Materials:</i>			
1	Semi-Gloss Latex	50.00	gal	
2	Flat Latex White	25.00	gal	
<b>X</b>	<b>MISCELLANEOUS WORKS</b>			
	<i>Supply and Installation:</i>			
1	Conference Table - 14 seater boat shaped conference table, duropal laminated top cut into 3-panel with cable management, panel leg, melamine finish (5.4mL x 1.5mW x 0.75mH)	1.00	set	
2	Conference Chair - Midback chrome finish, metal frame and leg high quality genuine leather (color: black) (0.57mW x 0.57mD x 0.92m-0.95mH)	14.00	sets	
3	Supervisor Desk - Bow shaped desk on panel legs, 3 drawers on panel legs, high pressure laminated top, melamine-face panel legs with adjustable leveler glides powder coated modesty panel (0.90mW x 2.5mL x 0.70mH)	2.00	sets	
4	Executive Desk - Bow shaped desk on panel legs, 3 drawers on panel legs, high pressure laminated top, melamine-face panel legs with adjustable leveler glides powder coated modesty panel (3mL x 0.70mH)	1.00	set	
5	Chair - midback chair, mesh back, fabric upholster seat, high quality medium density foam upholstered of high quality mesh fabric. (0.70mW x 0.52mD x 0.92m-0.95mH)	10.00	sets	
6	Bed - with headboard, made of metal frame with high pressured laminated panel covers, 6" thick bed cushion high quality density foam upholstered with good quality genuine leather (1.90mL x 0.90mW x 0.50mH)	1.00	set	

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AGENCY SPECIFICATIONS			BIDDER'S STATEMENT OF COMPLIANCE
7	Office Desk - free standing rectangular table, high pressure laminated top, melamine-face panel legs with adjustable leveler glides powder coated modesty panel (1.2mL x 0.9mW x 0.70mH)	6.00 sets	
8	Pedestal Table - two (2) layer laminates (0.57mD x 0.649mH)	6.00 sets	
9	3 seater Sofa	1.00 set	
10	4 seater Pantry Table - 0.85x0.85 synthetic granite top	1.00 set	
11	Stackable Chair	4.00 sets	

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AGENCY SPECIFICATIONS		BIDDER'S STATEMENT OF COMPLIANCE	
<b>BILL OF MATERIALS</b>			
<b>CIVIL WORKS (INTERIOR)</b>			
<b>PROJECT: SUPPLY, INSTALLATION AND COMMISSIONING OF CCTV CAMERA SYSTEM AND SURVEILLANCE SYSTEM AT NAIA TERMINAL 2</b>			
<b>LOCATION: NAIA COMMAND CENTER/ ZONE FOXTROT</b>			
<b>ITEMS NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>
<b>WALL FINISHING</b>			
1	Supply of materials and installation of HDL (High Density Laminate) at command center with the area of 407 m <sup>2</sup>	1	Lot
<b>ADDITIONAL WALL PARTITION</b>			
1	Supply and installation of ficem board at the proposed pantry	1	Lot
2	Installation and supply of 4 sets of tempered swing glass door		
3	Painting of all affected areas		
<b>FLOOR TILES (COMMAND CENTER AREA)</b>			
1	Installation and supply of materials for the installation of 60x60 granite floor tiles (china brand) with the area of 293 m <sup>2</sup>	1	Lot
<b>LED WALL WASHER LIGHT WITH CONTROLLER (RGB)</b>			
1	Supply and install LED wall washer light with controller at the floor around command center with the length of 78 linear meter	1	Lot
<b>CRISIS ROOM/ CONFERENCE ROOM</b>			
1	Supply and install granite floor tile Italy brand with the area of 90 m <sup>2</sup>	1	Lot
2	Supply and installation of high density laminate at the inner wall of the crisis room		
3	Supply and install ficem board on metal furring of the ceiling		
4	Supply and installation of LED lighting fixture and electrical wiring		
<b>MISCELLANEOUS WORK</b>			
	1 Mobilization/ Demobilization		
	2 General Supplies, Miscellaneous & Accessories		
	3 Removal of existing vinyl tiles		
	4 Supervision		

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
BILL OF MATERIALS				
CCTV Components				
LOCATION: NAIA COMMAND CENTER/ZONE FOXTROT				
ITEM NO.	DESCRIPTION	QTY	UNIT	
1	BACK UP STORAGE (equivalent to per zone storage)	1	lot	
2	Workstation	6	units	
3	Server	5	units	
4	50" Monitor	58	units	
5	32" Monitor	29	units	
6	19" Monitor	90	units	
7	CORE SWITCH	1	lot	
8	UPS @ 10KVA X 2	2	units	

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AGENCY SPECIFICATIONS	BIDDER'S STATEMENT OF COMPLIANCE
<p><b>NAIA RD. – DOMESTIC RD. (upgrade of existing traffic signal)</b></p> <ul style="list-style-type: none"> <li>- Removal of Old Traffic Controller</li> <li>- Installation of new Traffic Controller</li> <li>- Installation of Wireless Vehicle Detectors(Flash Mount)</li> <li>- Installation of Wireless Vehicle Detector Access Point</li> <li>- Installation of Detector Data Acquisition</li> </ul> <p>- Rewiring of all Traffic Signal Cable to new Traffic Signal Controller</p> <p>- Timing Signal Plan</p> <p>- Installation of wireless interconnection to Advance Traffic Management System (ATMS) at the Command Center.</p> <p><b>NAIA RD. – SUCAT AVE (upgrade of existing traffic signal)</b></p> <ul style="list-style-type: none"> <li>- Removal of Old Traffic Controller</li> <li>- Installation of new Traffic Controller</li> <li>- Installation of Wireless Vehicle Detectors(Flash Mount)</li> <li>- Installation of Wireless Vehicle Detector Access Point</li> <li>- Installation of Detector Data Acquisition</li> <li>- Rewiring of all Traffic Signal Cable to new Traffic Signal Controller</li> </ul> <p>- Timing Signal Plan</p> <p>- Installation of wireless interconnection to Advance Traffic Management System (ATMS) at the Command Center.</p> <p><b>ANDREWS AVE – TRAMO (upgrade of existing traffic signal)</b></p> <ul style="list-style-type: none"> <li>- Removal of Old Traffic Controller</li> <li>- Installation of new Traffic Controller</li> <li>- Installation of Wireless Vehicle Detectors(Flash Mount)</li> <li>- Installation of Wireless Vehicle Detector Access Point</li> <li>- Installation of Detector Data Acquisition</li> </ul> <p>- Rewiring of all Traffic Signal Cable to new Traffic Signal Controller</p> <p>- Timing Signal Plan</p> <p>- Installation of wireless interconnection to Advance Traffic Management System (ATMS) at the Command Center.</p> <p><b>DOMESTIC RD. – TERMINAL 4 Entrance (New Traffic Signal Install</b></p> <ul style="list-style-type: none"> <li>- Trenching of underground conduit</li> <li>- Installation of new Traffic Signal Type 1 Pole Foundation</li> </ul>	

AGENCY SPECIFICATIONS	BIDDER'S STATEMENT OF COMPLIANCE
<ul style="list-style-type: none"> <li>- Installation of new Traffic signal Type 1 Pole (Straight Pole)</li> <li>- Installation of new Traffic Signal Type 17 Pole Foundation</li> <li>- Installation of new Traffic signal Type 17 Pole (Mast Arm Pole)</li>   <li>- Installation of new Traffic Signal Type 8 Pole Foundation (for Traffic Controller Cabinet)</li> <li>- Installation of new underground pull box</li> <li>- Installation of Traffic signal lanterns</li> <li>- Installation of Pedestrian Signal Lanterns</li> <li>- Installation of Pedestrian Push Button</li> <li>- Installation of Copper Grounding</li> <li>- Cable Pulling &amp; Splicing from Lanterns to Traffic Controller</li> <li>- Installation of Traffic Signal Controller</li> <li>- Installation of Wireless Vehicle Detectors(Flash Mount)</li> <li>- Installation of Wireless Vehicle Detector Access Point</li> <li>- Installation of Detector Data Acquisition</li> <li>- Timing Signal Plan</li> <li>- Installation of wireless interconnection to Advance Traffic Management System (ATMS) at the Command Center.</li> </ul> <p><b>COMMAND CENTER</b></p> <ul style="list-style-type: none"> <li>- Installation of Advance Traffic Management System (ATMS) Server at the Command Center</li>   <li>- Installation &amp; Configuration of ATMS Software to Server.</li> <li>- Installation of Traffic Signal Licenses to ATMS Server.</li> <li>- Configuration of Traffic Maps &amp; Backgrounds</li>   <li>- Configuration of Traffic Signal Time of Day Plans, Manual Plans, Emergency Plans, VIP Override Plans, Special Holiday Plans etc....</li> <li>- Integration of ATMS to Surveillance System</li> </ul>	

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AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
1	NAIA RD. - DOMESTIC RD.			
	Qty.	Unit	Description	
	1	ea	Type 170 Controller	
	1	ea	336 Cabinet Cabinet	
	12	ea	Wireless Flush Mount Sensor	
	1	gallon	Master AP	
	1	ea	Vice AP	
	1	ea	Data Acquisition Center Device	
	1	unit	ATMS License per intersection	
	2	units	Wireless Interconnection Radio	
2	NAIA RD. - SUCAT			
	Qty.	Unit	Description	
	1	ea	Type 170 Controller	
	1	ea	336 Cabinet Cabinet	
	14	ea	Wireless Flush Mount Sensor	
	1	gallon	Master AP	
	1	ea	Vice AP	
	1	ea	Data Acquisition Center Device	
	1	unit	ATMS License per intersection	
	2	units	Wireless Interconnection Radio	
3	TRAMO - ANDREWS			
	Qty.	Unit	Description	
	1	ea	Type 170 Controller	
	1	ea	336 Cabinet Cabinet	
	10	ea	Wireless Flush Mount Sensor	
	1	gallon	Master AP	
	1	ea	Vice AP	
	1	ea	Data Acquisition Center Device	
	1	unit	ATMS License per intersection	
	2	units	Wireless Interconnection Radio	
4	DOMESTIC RD. - TERMINAL 4			
	Qty.	Unit	Description	
	1	ea	Type 170 Controller	
	1	ea	336 Cabinet Cabinet	
	2	ea	Type 17 Including Foundation 20FT ma	
	2	ea	Luminaire	
	2	ea	Type 1 Including Foundation	
	1	ea	Type 8 Including Foundation	
	2	ea	Ped Head	

or

AGENCY SPECIFICATIONS			BIDDER'S STATEMENT OF COMPLIANCE
	8 ea	3 Section Head	
	2 ea	PPB	
	4 ea	PB 3	
	6 ea	Wireless Flush Mount Sensor	
	1 gallon	Master AP	
	1 ea	Vice AP	
	1 ea	Data Acquisition Center Device	
	ea	RSNS 4 feet 2 side	
	2 ea	RSNS 6 feet 1 side	
	1 ea	Wire I/S 3 legs (small)	
	2 ea	Traffic Sign	
	40 Meter	51 mm Conduit PVC Schedule 40 Trench	
	70 Meter	76 mm Conduit PVC Schedule 40 Trench	
	1 ea	copper ground rod	
	1 ea	service entrance	
	1 ea	Signal timing plan	
	2 ea	Pavement Marking (arrow)	
	2 units	Wireless Interconnection Radio	
5	COMMAND CENTER		
	Qty.	Unit	
	1	ea	ATMS SERVER
	1	lot	QUICNET SOFTWARE

I hereby certify that the statement of compliance to the foregoing agency specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Signature Over Printed Name of  
Authorized Representative

\_\_\_\_\_  
Date

*Q*

AGENCY SPECIFICATIONS				BIDDER'S STATEMENT OF COMPLIANCE
Location	QTY.	Unit	Fire Extinguisher Description	
Terminal 1	5	Pcs	Halotron I	
Terminal 2	3		Sensor Built-in on the tank	
Terminal 3	5		Automatically Spray whenever Reaches 60 Degress Celcuis	
Terminal 4	3		Environment Friendly	
Perimeter	4		Non Expirable	
Command Center	6		Non Toxic Non Corrosive and non-acidic 30 years Shelf Life Fire Rating 2A:10BC	

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Date

*a*