

BIDS AND AWARDS COMMITTEE

BID BULLETIN No. 23 s. 2023 22 November 2023

Projects:

Competitive Bidding:

- 1. Upgrading of Power Distribution System: Bird Guards Installation at Posts Pin Insulators
- 2. Upgrading of Power Distribution System: Distribution Line Upgrade at Zigzag Road Area
- 3. Realignment of Sewer Lines to Sewer Line Type A & B
- 4. Restoration of Street Signages Posts
- 5. Improvement of Administrative Offices

TO ALL PROSPECTIVE BIDDERS:

No.	Projects	Clarifications	Response
1	All projects	Can bidders submit their bids online?	No. Currently, only physical submission of bidding documents is allowed.
2	All INFRASTRUCT URE PROJECTS (Project Nos. 2-5)	Hierarchy of documents	 Contract Bid Bulletin Philippine Bidding Documents Specifications Plans & Drawings Submitted Bill of Quantities Submitted Detailed Estimate
3		Submission of DOLE approved Construction Safety and Health Program	To be submitted by the winning contractor upon issuance of Notice to Proceed prior to actual implementation.
4		Can bidders under Small A and Small B categories without similar experience participate in the bidding?	Section 23.4.2.4 of the RIRR of the RA 9184 states that: "The bidder must have completed an SLCC that is similar to the contract to be bid, and whose value, adjusted to current prices using the PSA consumer price indices, must be at least fifty percent (50%) of the ABC to be bid: Provided, however, That contractors under Small A and Small B categories without similar experience on the contract to be bid may be allowed to bid if the cost of such contract is not more than the Allowable Range of Contract Cost (ARCC) of their registration based on the guidelines as prescribed by the PCAB."







No.	Projects	Clarifications	Response
5	All	Documents for	1. Construction schedule and S-
	INFRASTRUCTURE	submission and	curve
	PROJECTS (Project	verification during post-	2. Manpower schedule
	Nos. 2-5)	qualification (Bidder's	1 -
		own format)	4. Equipment utilization
		·	schedule
			5. Certificate of Site Inspection
			(to be provided by the end-user unit
			upon conduct of site inspection)
			6. Other document as required
			in the Specifications
6	Upgrading of Power	Is partial delivery	
	Distribution System:	} •	completed within 90 calendar
	Bird Guards		days.
7	Installation at Posts	Documents for	1. Warranty
	Pin Insulators	submission and	
		verification during post-	
l		qualification	
8	Upgrading of Power	List of minimum key	Refer to the attached revised Bill of
	Distribution System:	personnel requirements	Quantities for the project.
	Distribution Line	and the number of years	
	Upgrade at Zigzag	of experience, and list of	
	Road Area	minimum major	
		equipment requirements.	
9		_	Yes. The designated disposal
		_	area is within the Freeport Area
	Sewer Line Type A		of Bataan.
	& B	materials? If yes, how far	
		will it be?	
10		List of minimum key	, ,
		personnel requirements	Quantities for the project.
		and the number of years	
		of experience, and list of	
		minimum major	
11	Destauration of Co.	equipment requirements.	
11	Restoration of Street	,	, ,
	Signages Posts	personnel requirements	Quantities for the project.
		and the number of years	
		of experience, and list of minimum major	
		equipment requirements.	
12	Improvement of		The materials for the ceiling and
	Administrative	used in the ceiling and	flooring are indicated in the
	Offices	flooring?	Plans issued for the project.
Ц			ADDAGA TOT MIC PROJECT

No.	Projects			Clarific	ations		Response
13	Improvement	of	How	much	ı is	the	Mobilization Fund refers to the
	Administrative		mobili	zation f	und?		Advance Payment as stated in
	Offices						Annex E of the RIRR of RA 9184
							which is equivalent to 15% of the
							Contract Amount.
14			List o	of min	imum	key	Refer to the attached revised Bill of
			person	nel r	equire	ments	Quantities for the project.
			and the number of years			years	(including revised Annex A)
			of experience, and list of			list of	i
			minim	um		major	
			equipr	equipment requirements.			
15			Detailed specifications for			ns for	Refer to the attached Specifications for
			the Voice and Data			Data	the Voice and Data Requirements of
			Requir	ements			the Project.

All terms, conditions and instructions to bidders specified in the Bidding Documents inconsistent with this Bid Bulletin are hereby superseded and modified accordingly.

For the guidance and information of all concerned.

PERCIVAL B. PERALTA

BAC-Chairperson

BILL OF QUANTITIES (as of Nov. 22, 2023)

Contract Name Upgrading of Power Distribution System: Distribution Line Upgrade at Zigzag Road Area

Location of Contract FAB Mariveles, Bataan

Project Duration 45

Major Equipments:

Minimum Requirements Key Personnel:

1-Project Engineer 2 - Boom Trucks

1-Safety Officer

Item No. Description Unit Quantity Unit Price	:
I FACILITIES FOR THE ENGINEERS 1.1 Provision of progress photographs e.a. 45.00 in words: in words: in figures: in figures: II OTHER GENERAL REQUIREMENTS	
1.1 Provision of progress photographs e.a. 45.00 in words: in words: in words: in figures: in figures: in figures: in figures: in words:	:
in figures : in words	:
II OTHER GENERAL REQUIREMENTS	:
II OTHER GENERAL REQUIREMENTS	:
II OTHER GENERAL REQUIREMENTS	:
II OTHER GENERAL REQUIREMENTS 2.1 days 45.00 in words in words	:
days 45.00 in words: in words	:
Provide Health and Safety Program	:
I I I I I I I I I I I I I I I I I I I	
in figures : in figures	
2.2 Mobilization/Demobilization lot 1.00 in words : in words	
2.2 Modification/Demodification 10t 1.00 in words . In words	•
in figures : in figures	
2.3 Project Billboard and Signboard pcs 2.00 in words: in words	:
(Conform to COA Circular No. 2013-004 format)	
in figures : in figures	:
III ELECTRICAL WORKS	
3.1 l.m. 3,100.00 in words : in words	:
(Supply and Installation of Tree wire)	
ACSR TREE WIRE,15KV, 4/0AWG, XLPE HDPE	
List of Required Equipment	
2- Boom Truck in figures : in figures	:
3.2 Termination, Connector and insulators lot 1 in words: in words	:
Bolt, Carriage 3/8" X4-1/2"	
Bolt, Double Arming. 5/8" X 20" Bolt, Machine, 1/2" X 12"	
Bolt, Machine, 5/8" X 12"	
Brace, Flat	
Clamp, Dead-end Strain, #4/0 ACSR	
Connector, Wedge Type, #4/0 ACSR - #4/0 ACSR	
Crossarm Steel 8	
Insulator, Pin Type, Porcelain, ANSI, Class 55 - 5 Insulator, Suspension, 4 shed, Polymer, 15KV	
Nut, Lock, Mf Type, 3/8"	
Nut, Lock, Mf Type, 5/8"	
Pin, Crossarm, Steel, 5/8" X 13-3/4"	
Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16", 13/16" Diameter Hole	
Wire, Tie, Aluminum Alloy, Soft, #4 AWG	
in figures : in figures	
in iguies . In iguies	•
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Name and Signature of Bidder
Name of Company

BILL OF QUANTITIES (as of Nov. 22, 2023)

Contr	act Name	REALIGNMENT OF SEWERLI	INE TO MAIN SEWERLINE TYPE A & B						
Locati	on of Contract	BRGY. MALAYA, FAB MARIV	ELES, B	ATAAN					
Projec	t Duration	ion 180 CD							
	Equipment rements:	One (1) Backhoe with breaker One (1) Bagger Mixer		Dump Truck Welding Gener	ator & Power Tools	One (1) Plate Compactor One (1) Concrete Saw			
	num Key Personnel rements	One (1) Project Engineer One (1) Safety Officer		One (1) Constru	ction Foreman				
Item No.		Description	Unit	Quantity	Unit Price	Amount			
(1)		(2)	(3)	(4)	(5)	(6)			
	Facilities for the En Provision of Progre		e.a.	180.00	in words :	in words:			
					in figures :	in figures :			
	Other General Req								
2.1	Offices, Shops, Stor	res & Workmen Accomodation	l.s.	1.00	in words :	in words :			
2.2	Ozavnational Cafet	y and Health Program	davia	180.00	in figures :	in figures :			
۷.۷.	Provision of Safety &	_	days	100.00	in words :	in words :			
2.3.	Mobilization/Demo	bilization	l.s	1.00	in words :	in words : in figures :			
2.4	Project Billboard as	nd Sign Roard	e.a.	1.00	in figures : in words :	in words :			
2.4.		ccular No. 2013-004 format)	e.a.	1.00	in figures :	in figures :			
	•				Total for this page	, 3			
					Total for this puge	A			

Name and Signature of Bidder

Name of Company

III	Demolition, Excavation, Disposal and Embankment				
	Demolition & Disposal		140.60	in words :	in words :
3.	Demontion & Disposar	m3	148.60	iii worus .	in words :
				in figures :	in figures :
2.0	Excavation & Hauling	?	455.80	in figures : in words :	in figures :
3.2	excavation & Hauling	m3	433.60	in words:	in words :
				in figures :	in figures :
2.3	Embankment/Fill	m3	453.00	in words :	in figures : in words :
3.0	Embankment/Fin	1113	455.00	iii words .	iii words .
				in figures :	in figures :
IV	Sanitary Works			in figures .	in figures .
4.1	Supply, Installation and Laying of ABS Pipes	l.m.	453.00	in words :	in words:
	Supply of Acrylonitrile-Butadiene-Styrene (ABS) Sewer			iii words .	III WOLGO.
	Pipes and Fittings (6")				
	Use ABS Elbow 22.5				
	Use PVC Tee 6"				
	UseABS Cement				
				in figures :	in figures :
V	Civil and Structural Works				
5. 1	Supply and Installation of Cast-iron Manhole	pcs	52.00	in words:	in words:
	Covers				
	Supply of Cast-iron 800mm Diameter Round				
	Supply of Cast-iron 600mm Diameter Round				
	Supply of Cast-iron 400mm Square				
				in figures :	in figures :
5.2	Construction of Manholes	pcs	52.00	in words:	in words:
	Cement				
	Gravel 3/4 & G1				
	Sand				
	10mm diameter deformed and round rebar gr. 40				
	G.I Wire #16				
	Metal Paint Epoxy				
				in figures :	in figures :
5.3	Restoration of Roads, Canal, Stairs and Riprap	m3	145.63	in words:	in words :
	Cement				
	Gravel 3/4 & G1				
	Sand				
	10mm diameter deformed rebar gr. 40				
	G.I Wire #16				
	Metal Paint Epoxy				
	2" G.I. Pipe sch 40				
	1 1/2" x 1 1/2" x 3.5mm Angle Bar A36				
	Welding Rod, 6013 wipweld				
				in figures :	in figures :

:	in figures :						
Name and Signature of Bidder							
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Name of Company							

BILL OF QUANTITIES (as of Nov. 22, 2023)

One (1) Dump Truck

Contract Name	Restoration of Street Signages	Posts
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Location of Contract Freeport Area of Bataan

Project Duration 45 C.D.

Major Equipment

Minimum Required One (1) Pavement Breaker

Two (2) Bagger Mixer

Minimum Required One (1) Project Engineer Key Personnel

One (1) Safety Practitioner

One (1) Construction Foreman

Item No.	Description	Unit	Quantity	Unit Price	Amount		
(1)	(2)	(3)	(4)	(5)	(6)		
	GENERAL REQUIREMENTS	(-)		(-)	(-7		
1.1.	Offices, Shops, Stores and Workers Accomodation	month	1.00	in words:	in words:		
	for Contractor						
	Workmens Accomodation for Contractors						
				in figures :	in figures :		
	Project Billboard/ Signboard	each	1.00	in words :	in words :		
	Project Billboard/ Signboard			in words:	in words:		
				in figures :	in figures :		
1.3.	Mobilization / Demobilization	l.s	1.00	in words :	in words :		
				in figures :	in figures :		
1.4.	Occupational Safety and Health Program	days	15.00	in words:	in words:		
	Provision of Safety & Health Program		13.00		+		
	2 To Vision of Surety & Treatment Tograms						
				in figures :	in figures :		
1.5.	Provision of Photographs	each	135.00	in words:	in words:		
					1.0		
				in figures :	in figures :		
				Total for this page	. Р		
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 Name and Signature of Bidder	
 Name of Company	

II	CIVIL WORKS						
	Removal of Existing Structures/ Clearing			in words :	in words :		
2.1.		l.s	1.00	iii words .	in words.		
	T		0.00	in figures :	in figures :		
2.2.	Excavation Works and Backfilling	cu.m	9.80	in words :	in words:		
				in figures :	in figures :		
2.3.	Concrete and Reinforcement Works	each	45.00	in words :	in words :		
	Cement						
	Sand						
	Gravel						
	Reinforced steel bar, 12mm						
	GI Tie wire #16						
	Anchor bolts, 16 mm dia x 300 mm long with						
	thread, nuts, and washers (bended @100mm)						
				in figures :	in figures :		
III	FABRICATION, DELIVERY, AND INSTALLATIO	N WOI	RKS				
	Fabrication, Delivery, and Installation of Wrought	set	45.00				
5.1.	Iron Posts (including signages)	SCI	43.00	in words:	in words:		
	Fabrication, Delivery, and Installation of fully-						
	furnished wrought iron posts including signages,						
	steel plates, wrought iron base, round steel ball						
	head)						
	Fabricated wrought-iron posts, 2.60 m long, (1.91 m						
	x 60 mm dia w/ .70m x 70mm dia)						
	6: 1 1 1 1 0 65 0 15 (100)						
	Signages, back to back, 0.65m x 0.15m, (100 mm text						
	height, white retro-reflective letters & red retro- reflective border with blue retro-reflective background)						
	Steel ball head, 60 mm dia						
	Wrought iron base for bolting, 80 mm dia x 100 mm Steel Plate, 6 mm thk						
	(refer to attached plans)						
	(1j.c. 10 armonou pranto)						
				in figures :	in figures :		
IV	RESTORATION WORKS			Ü			
4.1.	Restoration of Pavements	sq.m	3.00	in words:	in words:		
				: C:	in Granna		
				in figures :	in figures :		
	Total for this page ₱						
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3:		in figures :
7	Total for this page	₽
-	Name	and Signature of Bidder
-	N	Name of Company

BILL OF QUANTITIES (as of Nov. 22, 2023)

IMPROVEMENT OF ADMINISTRATIVE OFFICES

Location of Contract Freeport Area of Bataan

180 C.D. Project Duration

Required Key Personnel One (1) Project Manager - w/ 5 years general experience & 3 years relative experience

> One (1) Project Engineer - w/ 5 years general experience & 3 years relative experience One (1) Construction Foreman - w/5 years general experience & 3 years relative experience One (1) Safety Health Officer - w/5 years general experience & 3 years relative experience

Skilled Laborers (minimum of 40) Unskilled Laborers (minimum of 100)

One (1) Unit Dump Truck and One (1) lot Tools for Cutting, chipping, and removal Outfit with Required Equipment

Accessories

Item	Description	Unit	Quantity	Unit Price	Amount
No.	-		·		
(1)	(2)	(3)	(4)	(5)	(6)
I	FACILITIES FOR THE ENGINEERS				
1.1.	Provision of Progress Photographs	e.a.	200.00	in words:	in words:
	Provision for Progres Photographs				
				in figures :	in figures :
II	OTHER GENERAL REQUIREMENTS				
2.1.	Occupational Safety and Health Program	days	180.00	in words:	in words:
	Safety Signages				
	PPE's				
	Medicine Kits				
				in figures :	in figures :
2.2.	Mobilization/Demobilization	1.s.	1.00	in words:	in words :
				in figures :	in figures :
2.3	Project Billboard and Signboard	e.a.	1.00	in words :	in words:
2.5.	1 Toject Difficulta and Signosara	c.a.	1.00	iii words .	iii words.
	m				
	Tarpauline (4'x8') Good Lumber 2"x3"				
	Good Lumber 3"x3"			in figures :	in figures :
			То	tal for this page	₱

Name and Signature of Bidder	
Name of Company	

I 2 1	PREPARATION WORKS Demolition/Chipping/Removal Works	60.77	822 47	in words :	in words .
3.1.	Demolition/Chipping/Removal Works	sq.m.	832.47	in words :	in words :
			225.00	in figures :	in figures :
3.2.	Masonry Works with Reinforcements	sq.m.	225.98	in words:	in words :
	4" CHB				
	Cement				
	Sand				
	12mm dia. Deformed Bar				
	10mm dia. Deformed Bar				
	Ga. 16 Tie Wire			in figures :	in figures :
J	CIVIL WORKS				
4.1.	Tileworks/Marble Works: Flooring and	sq.m.	513.63	in words:	in words :
	60cm x 60cm Granite Polished Ceramic Tiles - Un	1Glazed			
	60cm x 60cm Granite Polished Ceramic Tiles - Gla	azed			
	60cm x 30cm Granite Polished Ceramic Tiles - Glo	azed			
	Granite Slab 20mm thick	1			
	1200mm x 200mm Ceramic Tiles Wood Type -Flo			in figures :	in figures :
4 2	Partition Works : a. Wood Cladding	60 50	266.73	in figures :	
4.2.		sq.m.	200.73	in words:	in words :
	1/2" Narra Plywood 2"x3" Metal Stud				
	1"x1" Wood Cornice with groove				
	1"x8" Baseboard				
				in figures :	in figures :
	Partition Works : b. Glass Works	sq.m.	8.39	in words:	in words:
	18mm thick tempered Glass Panel				
	6mm thick tempered Glass Panel with Frame			in figures :	in figures :
	Partition Works : c. Phenolic Compact	sq.m.	36.15	in words:	in words:
	12mm Phenolic Compact Board Partitions with	1		in figures :	in figures :
4.3	Ceiling Works	sq.m.	585.00	in words :	in words :
	Please see detailed plans and specifications: Used	1			
	materials with accessories, fittings, supports and				
	clips				
	1/2"x 1.2' x 2.4' Accoustic Board				
	Carrying Channel				
	Wall angle furring				
	Furring	1			
	1/4" thk. Marine Plywood	1			
				in figures :	in figures :
	1	1			
			To	otal for this page .	₱
			TOTAL	L AMOUNT	₱
				·	Name and Signature of Bidder
					0
					Name of Company
	Wood Plastic Composite Board - Flutted	sq.m.	195.85	in words:	in words :
4.4	1	_			
4.4	Please see detailed plans and specifications: Used				

		1			
1000	cm x 25mmx 3000mm PVC Ceiling Panel				
	mm x25mm x 2900mm WPC Wall Cladding				
	m x 100mm X 3.0 m Good Lumber Partition				
	ım x 75mm X 3.0 m Good Lumber Partition				
	1-Nailers				
	ll Angle				
MD	F Laminated Sheets				
				in figures :	in figures :
4.4 PLU	UMBING AND SANITARY	sq.m.	62.26	in words:	in words:
Plea	se see detailed plans and specifications: Used				
4" P	PVC Pipe series 600				
3" F	PVC Pipe series 600				
2" F	PVC Pipe series 600				
4" P	PVC Fittings				
3" F	PVC Fittings				
	PVC Fittings				
	G.I. Pipe Sch 40				
	G.I. Pipe Fittings				
	vent Cement				
	' dia. PN20 PPRC Pipe				
	" x 90 PPRC Elbow				
1/2	X 90 FFRC LIDOW			in figures :	in figures :
V ARO	CHITECTURAL WORKS			in figures .	in figures .
•	ors and Windows	cot	16.00	in words :	in words:
	te : All doors with Jamb, accessories	set	16.00	iii words .	iii words :
NOL	OFFICE OF THE DEPUTY ADMINISTR	ATORC			
	100cm x 210cm Single Leaf Wooden with				
	a. Glass Panel Door	set	2.00		
	ODA Deputy Administrator		2.00		
			2.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway				
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door				
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room	set	2.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room ECOLOGY CENTER	set	2.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door	set	2.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d Pantry Room	set set	2.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door	set set set	2.00 1.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d Pantry Room 100cm x 210cm Single Leaf Panel Wooden	set set	2.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d Pantry Room 100cm x 210cm Single Leaf Panel Wooden e. Door	set set set	2.00 1.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d Pantry Room 100cm x 210cm Single Leaf Panel Wooden e. Door - Meeting Room 180cm x 210cm Double Leaf Acting Door f. with Vision PanelWooden Solid Door	set set set	2.00 1.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d Pantry Room 100cm x 210cm Single Leaf Panel Wooden e. Door - Meeting Room 180cm x 210cm Double Leaf Acting Door f. with Vision Panel Wooden Solid Door - Laboratory Room	set set set	2.00 1.00 1.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d Pantry Room 100cm x 210cm Single Leaf Panel Wooden e. Door - Meeting Room 180cm x 210cm Double Leaf Acting Door f. with Vision PanelWooden Solid Door - Laboratory Room 190cm x 210cm Double Leaf Panel	set set set set	2.00 1.00 1.00 1.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d Pantry Room 100cm x 210cm Single Leaf Panel Wooden e. Door - Meeting Room 180cm x 210cm Double Leaf Acting Door f. with Vision Panel Wooden Solid Door - Laboratory Room	set set set	2.00 1.00 1.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d Pantry Room 100cm x 210cm Single Leaf Panel Wooden e. Door - Meeting Room 180cm x 210cm Double Leaf Acting Door f. with Vision Panel Wooden Solid Door - Laboratory Room 190cm x 210cm Double Leaf Panel g. Wooden Door	set set set set	2.00 1.00 1.00 1.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d. Pantry Room 100cm x 210cm Single Leaf Panel Wooden e. Door - Meeting Room 180cm x 210cm Double Leaf Acting Door f. with Vision Panel Wooden Solid Door - Laboratory Room 190cm x 2100cm Double Leaf Panel g. Wooden Door - Ecology Office and Lobby laboratory	set set set set	2.00 1.00 1.00 1.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d. Pantry Room 100cm x 210cm Single Leaf Panel Wooden e. Door - Meeting Room 180cm x 210cm Double Leaf Acting Door f. with Vision Panel Wooden Solid Door - Laboratory Room 190cm x 2100cm Double Leaf Panel g. Wooden Door - Ecology Office and Lobby laboratory ASDIFDICOMMON CRI FDIOAD cr 100cm x 210cm Single Leaf Wooden with Glass Panel Door	set set set set	2.00 1.00 1.00 1.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d Pantry Room 100cm x 210cm Single Leaf Panel Wooden e. Door - Meeting Room 180cm x 210cm Double Leaf Acting Door f. with Vision Panel Wooden Solid Door - Laboratory Room 190cm x 210cm Double Leaf Panel g. Wooden Door - Ecology Office and Lobby laboratory ASD/FD/COMMON CR/ FD/OAD cr 100cm x 210cm Single Leaf Wooden with Glass Panel Door h ASD Manager	set set set set	2.00 1.00 1.00 1.00 2.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d. Pantry Room 100cm x 210cm Single Leaf Panel Wooden e. Door - Meeting Room 180cm x 210cm Double Leaf Acting Door f. with Vision PanelWooden Solid Door - Laboratory Room 190cm x 210cm Double Leaf Panel g. Wooden Door - Ecology Office and Lobby laboratory ASD/FD/COMMON CR/ FD/OAD cr 100cm x 210cm Single Leaf Wooden with Glass Panel Door h. ASD Manager 80cm x 210cm Wooden Flush Door - Comouflage	set set set set	2.00 1.00 1.00 1.00 2.00		
	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d. Pantry Room 100cm x 210cm Single Leaf Panel Wooden e. Door - Meeting Room 180cm x 210cm Double Leaf Acting Door f. with Vision PanelWooden Solid Door - Laboratory Room 190cm x 210cm Double Leaf Panel g. Wooden Door - Ecology Office and Lobby laboratory ASD/FD/COMMON CR/ FD/OAD cr 100cm x 210cm Single Leaf Wooden with Glass Panel Door h ASD Manager 80cm x 210cm Wooden Flush Door -	set set set set set	2.00 1.00 1.00 1.00 2.00		
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	ODA Deputy Administrator 100cm x 210cm Single Leaf Panel Wooden b. Door ODA Deputy AdministratorHallway 100cm x 210cm Wooden Flush Door c. ODA Meeting room ECOLOGY CENTER 80cm x 210cm Swing Type Wooden Flush Door d. Pantry Room 100cm x 210cm Single Leaf Panel Wooden e. Door - Meeting Room 180cm x 210cm Double Leaf Acting Door f. with Vision PanelWooden Solid Door - Laboratory Room 190cm x 210cm Double Leaf Panel g. Wooden Door - Ecology Office and Lobby laboratory ASD/FD/COMMON CR/ FD/OAD cr 100cm x 210cm Single Leaf Wooden with Glass Panel Door h ASD Manager 80cm x 210cm Wooden Flush Door - Comouflage i Asset Management Division and Finance 100cm x 210cm Wooden Flush Door j Common Rest Room (Male, and Female) 100cm x 210cm Wooden Flush Door with k. Louver and Metal	set set set set set set set	2.00 1.00 1.00 1.00 2.00 1.00 2.00		
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	Bidet Lavatory		13.00 10.00		
	Lavatory		10.00		
	Drain Urinal		13.00		
	Glass Mirror with aluminum frame and accessories		4.00 7.05		
	Kitchen Sink - Ecology and ODA Pantry		2.00		
	Lavatory with Buil-in Cabinet below		1.00		
	Stainless Handrails for PWD		1.00		
- 4	C (F')		200 50	in figures :	in figures :
5.4	Carpet Finishes	sq.m.	288.58	in words :	in words:
3 .71	50cm x 50cm Carpet with accessories - as I ELECTRICAL WORKS	1.4	1.00	in figures :	in figures :
6.1	Junctions, Conduits, wiring and wiring devices	lot	1.00	in words :	in words:
0.1					
	Please see Plans and Scope of Works Utility box 2" x 4" (Flush Mounted)				
	Junction Box 4" x 4"				
	GI Tie wire #16				
	Electrical Tape 3/4" x 20 yards				
	2 Gang Flash Mounted Universal C.O. w/ grounding				
	1 Gang Flash Mounted Universal C.O. w/ grounding				
	1 gang Switch with plate				
	2 gang Switch with plate				
	3 gang switch with plate				
	2.0 mm2 THHN CU. Stranded wire				
	3.5 mm2 THHN CU. Stranded wire				
	5.5 mm2 THHN CU. Stranded wire				
	8.0 mm2 THHN CU. Stranded wire				
	50.0 mm2 THHN CU. Stranded wire				
	100.0 mm2 THHN CU. Stranded wire				
	Threaded rod 3/8" x 1m				
	1x 1 x 3/16" Angle Bar (6m)				
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Please see Plans and Scope of Works

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unit	3		
unit	7		
unit	7		
unit	7		
lot	1.00	in words:	in words:
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Set	190		
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	l		in figures .	in inguico .
Cement, Sand, 1"x8" base/upper Board, 1/2"			in figures :	in figures :
Restoration and Replacement Materials				
Please see scope and plans				
RESTORATION WORKS	lot	1.00	in words:	in words:
			in figures :	in figures :
hanger, screws, handle and roller)				
Hardwares (wood glue, hinges, lock and keys, rod				
2"x2"x2mm Thk. Tubular				
Finishing Nails 1/2"x4"x8" MDF Sheets				
CWN Assorted				
Cabinet Wood Panel with Glass				
2"x8"x12' Good Lumber with Groove kd				
1"x1x12' Good Lumber with Groove kd				
3/4" x 4'x8' Plyboard				
2"x4"x12' Good Lumber				

Name and Signature of Bidder	
Name of Company	

ANNEX A: Improvement of Administrative Offices (as of Nov. 22, 2023)

Item 7: Provision of Voice and Data Requirements

Minimum Required Key Personnel for Voice and Data:

- One (1) Electronics and Communications Engineer (w/ 5 years general experience & 5 years relevant experience)
- One (1) Skilled Laborer (w/ 5 years general experience & 3 years relevant experience)

Item No.	PARTICULARS	Quantity	Unit	Unit Price	Total Cost
	UTP Cat 6 4-pairs cable Number				
	of Pairs: 4				
	Total Number of Conductors: 8				
	AWG: 24				
	Stranding: Solid				
	Conductor Material: BC - Bare Copper				
	Insulation Material: PO - Polyolefin				
1	Outer Shield Material: Unshielded	14	boxes		
	Outer Jacket Material: PVC - Polyvinyl Chloride				
	Plenum (Y/N): N				
	Outer Jacket Ripcord - Yes UL CM Rated				
	Supporting frequencies of up to 250 MHz and the 10BASE-T, 100BASE-TX,				
	1000BASE-T, and 10GBASE-T				
	1000ft/305m				
2	4 Core multi mode Indoor FOC Cable (Heavy Duty)	200	meters		
3	12 Core single mode Outdoor FOC Cable (Heavy Duty)	850	meters		
4	Fiber Patch, Pigtail and Protector Sleeves	1	lot		
5	Multi mode SFP Module (Transceiver), up to 2KM	4	set		
6	High Quality 2 in 1 Floor Outlet Socket (1 Data and 1 Voice)	5	pcs		
7	Information Outlet (Modular Jack) with cover, Cat 6 - High Quality	94	pcs		
8	Faceplate with shutter, Simplex	60	pcs		
9	Faceplate with shutter, Duplex	15	pcs		
10	Patch Cord, 1Mtr	79	pcs		
11	Patch Cord, 2 Mtr	79	pcs		
12	Fully managed layer 2 switch 48G Ports 48 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3a Type 1000BASE-T, IEEE 802.3a Type 100BASE-T, IEEE 802.3a Type 100BASE-T; IEEE 802.3 BMG Grade B	1	unit		

13	Fully managed layer 2 switch 24G Ports 24 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-TX, IEEE 802.3ab Type 1000BASE-TX, IEEE 802.3ab Type 1000BASE-TX; IEEE 802.3ab Type 1000BASE-TX; IEEE 802.3ab Type 1000BASE-TX; IEEE 802.3ab Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX; half or full; 1000BASE-T: full only -4 fixed Gigabit Ethernet SFP ports -1 dual-personality (RJ-65 or USB micro-B) serial console port. Memory and processor Processor: ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated. Mounting Mounts in an ElA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting. Management IMC - Intelligent Management Center; Command-Line Interface (CLI); Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB. 1000 Mb latency: < 2.3 µs (LIFO 64-byte packets) 100 Mb Latency: < 7.4 µs (LIFO 64-byte packets) Throughput: up to 41.6 million pps (64-byte packets) Switching capacity: 56 Gb/s MAC address table size: 16000 entries Voltage: 100 - 127 / 200 - 240 V ac Current: 3.2/1.6 A Idle power1: 25.2 W Maximum power rating2: 247 W PoE power: 195 W Frequency: 50/60 Hz	4	unit	
14	48-Port Patch Panel with Modular Jack-Cat 6 (Meets or Exceeds TIA/EIA 568-A and 568-B Standard, 110 Style Punch Down, 48 Dust Caps, 568-A/B Wiring Code, UL Listed, TAA Compliant, RoHS Compliant)	1	unit	
15	24-Port Patch Panel with Modular Jack-Cat 6 (Meets or Exceeds TIA/EIA 568-A and 568-B Standard, 110 Style Punch Down, 48 Dust Caps, 568-A/B Wiring Code, UL Listed, TAA Compliant, RoHS Compliant)	6	unit	
16	Cable Organizer (1u compatible with standard 19" racks, with finger duct, a sliding panel, and two openings in the rear for easy cable access)	12	unit	
17	Wall mount Cabinet H=2 Ft (Front toughened glass door with lock, with rear and side solid metal panels, 2 FANS with cable US standard plug, with sets of screw and nut)	3	unit	
18	Optical Distribution Frame of Fiber Panel and Accessories(Loaded)	8	unit	
19	Utility Box, Orange	103	pcs	
20	PVC Pipe, 3" Dia, 10 Ft	2	pcs	
21	PVC Pipe, 2" Dia, 10 Ft	65	pcs	
22	PVC Pipe, 1.5" Dia, 10 Ft	17	pcs	
23	PVC Pipe, 1" Dia, 10 Ft	91	pcs	
24	Pull-box, 6 x 6" 24-Port Fiber Optic SFP Managed Switch(Interface 24*1000Mbps SFP Slots 4* 10G SFP+ Slot, Indicator PWR, LNK/ACT, SYS, Network media 10BASE-T: UTP category 3,4,5 cable (\$100m) 100BASE-TX: UTP category 5, 5e cable (\$100m) 1000BASE-T: UTP category 5e, 5 cable (\$100m) 1000BASE-T: UTP category 5e, 5 cable (\$100m) 1000BASE-X: MMF, SMF, 10GBASE-X: MMF, SMF, MAC Address Table 16K, Auto-learning, Auto-aging, Jumbo frame 9216Bytes, Transfer Mode Store-and-forward, Packet Forward Speed 95Mpps, Packet buffer 1.5MB, Switching Capacity 128Gbps, Fan Quantity2)	124	pcs unit	
	SUPPLY AND CONFIGURATION OF PABX (30 LOCALS) Note: Item requirements must be compatible with AFAB existing PABX (NEC 2100)			
26	IP7WW-4KSU-C1, Main/Expansion Chassis w/ AC Cable	1	ea	
27	IP7WW-VOIPDB-C1, VoIP GW daughter board (mount to CPU)	1	ea	
28	IP7WW-EXIFB-C1 System expansion BUS daughter board	1	ea	

30		4	ea		
31	SL2100 IP TRUNK-01 LIC, IP Trunk License	8	ea		
	AT-40 TEL(EB), Analog Terminal Basic Model (Asia)	5	ea		
32	Digital Phone, 12 key Backlit keypad and soft keys Adjustable angle Programmable keys with LEDs 4 feature keys and navigation keys Headset port Full Duplex Speakerphone 20 number personal directory 1000 number system/group directory Built-in wall mount kit Dual-color call indicator lamp 8 Selectable ring tones Power saving sleep mode Standard silver designation sheet or optional charcoal one; Compatible with NEC SL 2100	10	ea		
33	IP Phone	10	ea		
34	1U 19" power distribution unit, w/ aluminum body, US (NEMA5-15P) Plug, 6 Universal outlets, w/ LED master switch	4	pcs		
35	Civil works, Hangers and Support, Miscellaneous, Consumables, accessories and roughing in materials including PVC long elbow and GI wire	1	lot		
36	Mobilization & Demobilization, Labor for Installation, Testing, Commissioning, Engineering, Asbuilt and Documentation	1	lot	TOTAL:	

TOTAL:

IMPROVEMENT OF ADMINISTRATIVE OFFICES

SPECIFICATIONS for Voice and Data Communication System (ODA, Finance, AMDiv, PMD and Ecology Office)

I. Three (3) Runs of 4 Core Multimode Indoor FOC backbone connectivity from Homerun (MIS 2nd Floor) to the following offices: (See attached Layout)

Office of the Deputy Administrators (2nd **Floor):** 1 Unit of L2 Fully Managed Switch 24 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) Duplex: 10BASE-T/100BASE-TX: half or full 1000BASE-T: full only, with 2-4 GbE SFP slot

Finance and Asset Management Division (Upper Ground Floor): 1 Unit of L2 Fully Managed Switch 48 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) Duplex: 10BASE-T/100BASE-TX: half or full 1000BASE-T: full only, with 4 GbE SFP slot; 1 Unit of L2 Fully Managed Switch 24 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) Duplex: 10BASE-T/100BASE-TX: half or full 1000BASE-T: full only, with 2-4 GbE SFP slot

Procurement Management Division (Upper Ground Floor): 1 Unit of L2 Fully Managed Switch 24 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) Duplex: 10BASE-T/100BASE-TX: half or full 1000BASE-T: full only, with 2-4 GbE SFP slot

II. One (1) Run of 12 Core Single mode Outdoor FOC backbone connectivity from Homerun (MIS 2nd Floor) to Ecology office: (See attached Layout)

Ecology Office (2nd Floor of STP Building): 1 Unit of L2 Fully Managed Switch 24 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) Duplex: 10BASE-T/100BASE-TX: half or full 1000BASE-T: full only, with 2-4 GbE SFP slot

Note: To utilize underground conduit of AFAB.

- 1.1 The works shall consider the Multimode Fiber Transceiver end to end fiber optic link termination; From L2 Managed Switches GbE SFP slot at office area to 24-Port SFP Switch at MIS Server Room.
- 1.2 Laying of FOC (Horizontal and vertical installation)
- 1.3 Installation of Optical Distribution Frame (ODF) / patch panel / SFP Fiber panel /

cabinet including patch cords / pigtails, optical fiber trays and other fiber accessories.

- 1.4 Splicing and termination of fiber optic cable.
- 1.5 Tagging and Labeling
- 1.6 Testing and commissioning (provisional and final acceptance) of newly installed fiber optic cable.
- 1.7 Loss is about 1.0 dB per km for 1350 nm sources
- 1.8 Each splice, figure 1.0dB Loss
- 2. (79) Data & (21) Voice of Cat6 UTP Runs from Data Cabinet to distribution nodes
- 2.1 Structured Cabling Endpoint Nodes:
- a. Office of the Deputy Administrators (2nd Floor)

Data – 15 nodes

Voice – 7 nodes

- 2 Ft. Data Cabinet Front toughened glass door with lock, with rear and side solid metal panels, 2 FANS with cable US standard plug, with sets of screw and nut (1 unit)
- 1U 19" power distribution unit, w/ aluminum body, US (NEMA5-15P) Plug, 6 Universal outlets with LED master switch (1 unit)
- 24-Port L2 Manageable Gigabit Switch (1 unit)
- ODF, End to end (2 units)
- 24-Port Patch Panel (2 units)
- Cable wire manager, 1u compatible with standard 19" racks, with finger duct, a sliding panel, and two openings in the rear for easy cable access (3 units)
- Patch cables

b. Finance and Asset Management Division (Upper Ground Floor)

Data – 47 nodes

Voice – 10 nodes

 To utilize existing 1 unit 2 Ft. Data Cabinet - Front toughened glass door with lock, with rear and side solid metal panels, 2 FANS with cable US standard plug, with sets of screw and nut

- 1U 19" power distribution unit, w/ aluminum body, US (NEMA5-15P) Plug, 6 Universal outlets with LED master switch (1 unit)
- 48-Port L2 Manageable Gigabit Switch (1 unit)
- 24-Port L2 Manageable Gigabit Switch (1 unit)
- ODF, End to end (2 units)
- 48-Port Patch Panel (1 unit)
- 24-Port Patch Panel (1 unit)
- Cable wire manager, 1u compatible with standard 19" racks, with finger duct, a sliding panel, and two openings in the rear for easy cable access (4 units)
- Patch cables

c. Procurement Management Division (Upper Ground Floor)

Data - 4 nodes

- 2 Ft. Data Cabinet Front toughened glass door with lock, with rear and side solid metal panels, 2 FANS with cable US standard plug, with sets of screw and nut (1 unit)
- 1U 19" power distribution unit, w/ aluminum body, US (NEMA5-15P) Plug, 6 Universal outlets with LED master switch (1 unit)
- 24-Port L2 Manageable Gigabit Switch (1 unit)
- ODF, End to end (2 units)
- 24-Port Patch Panel (1 unit)
- Cable wire manager, 1u compatible with standard 19" racks, with finger duct, a sliding panel, and two openings in the rear for easy cable access (2 units)
- Patch cables

d. Ecology Office (2nd Floor of STP Building)

Data – 13 nodes **Voice** – 4 nodes

- 2 Ft. Data Cabinet Front toughened glass door with lock, with rear and side solid metal panels, 2 FANS with cable US standard plug, with sets of screw and nut (1 unit)
- 1U 19" power distribution unit, w/ aluminum body, US (NEMA5-15P) Plug, 6 Universal outlets with LED master switch (1 unit)
- 24-Port L2 Manageable Gigabit Switch (2 units)
- ODF, End to end (2 units)
- 24-Port Patch Panel (2 units)
- Cable wire manager, 1u compatible with standard 19" racks, with finger duct, a

- sliding panel, and two openings in the rear for easy cable access (3 units)
- Patch cables
- 2.2 Labeling of the following: (Using computerized and high quality material label)
- a.) Outlet faceplates
- b.) Backbone cables
- c.) Patch panels
- d.) ODF
- e.) IDC blocks
- f.) Horizontal cables
- g.) PABX (Chassis and cables)
- 2.3 Installation of conduit piping to secure Category 6 UTP cables with GI wire for cable pulling; Must use threaded hanger, clamps, pull-boxes, PVC conduits and other support accessories to ensure proper conduit support; Must use long elbow PVC in every 90 deg turn to avoid stress in FOC and UTP cables.
- 2.4 Laying of Category 6 UTP Cables (Horizontal and vertical installation); 7 runs of UTP Cat6 cable from homerun (MIS Server 2nd Flr) to ODA office data cabinet (2nd Flr), 10 runs of UTP CAT6 cable from homerun (MIS Server 2nd Flr) to Finance and Asset Management office data cabinet (Upper Ground Flr); 22 runs of UTP Cat6 cable from ODA office data cabinet (2nd Flr) to ODA office voice and data distribution nodes, 57 runs of UTP Cat6 cable from Finance and Asset Management office data cabinet (Upper Ground Flr) to Finance and Asset Management office voice and data distribution nodes, 4 runs of UTP Cat6 cable from PMD office data cabinet (Upper Ground Flr) to PMD office voice and data distribution nodes, 17 runs of UTP Cat6 cable from Ecology office data cabinet (2nd Flr of STP Bldg.) to Ecology office voice and data distribution nodes.
- 2.5 Installation of outlet faceplates (I/O cat 6 keystone jack, simplex/duplex faceplate), Utility box, PVC surface utility box, Pull-box and Floor mounted plastic moulding).
- 2.6 Installation of data cabinet, 24 and 48-port patch panels, cable wire managers including Cat 6 patch cords / pigtails, trays and accessories.
- 2.7 Termination of UTP cables (I/O and patch panels).

2.8 Testing and commissioning (provisional and final acceptance) of newly installed structured cabling.

Supply and Configuration of PABX (30 Locals)

Installation and set-up of the following PABX chassis and parts:

- Main/Expansion Chassis w/ AC Cable (1 unit)
- VoIP GW daughter board (mount to CPU) (1 unit)
- System expansion BUS daughter board (1 unit)
- 8 Hybrid/Analog Exten (4 units)
- IP Trunk License (8 Licenses)

Configuration of PABX system, cable installation, testing and commissioning.

Other Terms and Conditions

- 1. Supplier must coordinate with CPD-MIS with regards to details of technical specification of ICT equipment/accessories and design/layout of communication network system.
- 2. Supplier must conduct survey and preparation of engineering design/plan prior to installation.
- 3. Must provide qualified and certified network and PABX engineer and technicians.
- 4. Documentations, As-built of all plans and drawings (cable route, termination, splicing, etc.) required by the project.
- 5. The supplier must ensure that the hardware and system requirement were inspected and tested.
- 6. End to end FOC and UTP Cat6 test results.
- 7. Delivery cost shall be shouldered by the supplier.

Warranty: 1 Year on Equipment and 2 years after sales support

Note:

- Conduits at ceiling must be installed using treaded rod hanger with clamp and lock nut to ensure proper support; All conduits must have GI wire for cable pulling.
- Must use long elbow PVC in every 90 deg turn of PVC to avoid stress in FOC and UTP cables
- Provision of electrical convenience outlet (2-Gang Universal Outlet) in every voice and data node location
- Chipping works when necessary