REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

SPECIAL BIDS AND AWARDS COMMITTEE FOR THE INTEGRATED GOVERNMENT PHILIPPINES PROJECT (BAC4IGOV)

Supplemental Bid Bulletin No. 2

DESIGN, SUPPLY, DELIVERY, INSTALLATION, SPLICING, TESTING, COMMISSIONING, OPERATION AND MAINTENANCE OF BRAND NEW FIBER OPTIC CABLE NETWORK IN ZAMBOANGA CITY

Bid Reference No. BAC4IGOV-2017-06-007

After considering the queries, clarifications, recommendations and suggestions, the BAC4IGOV hereby decides to include, revise, amend, delete and/or adapt the following provisions:

Item No.	**Query**	**BAC4IGOV Response**
1	May we know what is the bandwidth requirement of each Agencies?	At least 20 Mbps for each Agency.
2	How many physical interfaces do each agency need?	4-core for each Client Agency and for Node agency, a maximum of 24 agencies are connected.
3	Does the network need any kind of protection?	No, the Agency is responsible for the security of their own network.
4	What are the quantity & specification of the existing network equipment are we pertaining to in the 3.2.7. Replacement of damaged Network Equipment (Active Equipment) and ODF (under page 71 of bidding documents of IRU Batangas)	24 ports 1G switch and 144/48 ports ODF. DICT will provide the active equipment, the winning bidder is responsible for reporting any defects that may occur during the implementation and maintenance of the project.
5	If there are no network equipment in place, would the list be included on the bid?	Any active equipment is not necessary for this bid, DICT will be providing the active equipment.
6	Can we request for the site survey output which was the basis of the identified cable requirement?	We have provided the proposed route plan/schematic diagram which was included in the Supplemental Bid Bulletin No. 1.
7	Can we request a schematic diagram or map where all the agencies are connected?	We have provided the proposed route plan/schematic diagram which was included in the Supplemental Bid Bulletin No. 1.

Original Provision	**Amended Provision**
Section III. Bid Data Sheet	
12.(b)(x) Valid and current ISO 9001 Quality Management System Certificate issued to the manufacturer be an Independent Certifying body;	12.(b)(x) Valid and current ISO 9001 Quality Management System Certificate **issued to the manufacturer of the Fiber Optic Cable being offered**;

<table>
<tr><th><u>Original Provision</u></th><th><u>Amended Provision</u></th></tr>
<tr><td colspan="2">Section V. Special Conditions of the Contract</td></tr>
<tr><td>Spare Parts –
The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:
(a) such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and
(b) in the event of termination of production of the spare parts:
i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.
The spare parts required are listed in Error! Reference source not found. and the cost thereof are included in the Contract Price

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods for a period of [insert here the time period specified. If not used insert time period of three times the warranty period].

Other spare parts and components shall be supplied as promptly as possible, but in any case within [insert appropriate time period] months of placing the order.</td><td>Spare Parts –
The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:
(a) such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and
(b) in the event of termination of production of the spare parts:
i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.
The spare parts required are listed in <u>Section VI. Schedule of Requirements</u> and the cost thereof are included in the Contract Price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods for <u>a period of three years.</u>

Other spare parts and components shall be supplied as promptly as possible, but in any case within <u>one (1) month</u> of placing the order.</td></tr>
<tr><td colspan="2">Section VI. Schedule of Requirements</td></tr>
<tr><td>
<table>
<tr><th>Description</th><th>Qty</th><th>Delivered, Weeks/Months</th></tr>
<tr><td>DESIGN, SUPPLY, DELIVERY, INSTALLATION, SPLICING, TESTING,</td><td>1 Lot</td><td>Within one hundred eighty (180) calendar</td></tr>
</table>
</td><td>
<table>
<tr><th><u>Description</u></th><th><u>Delivered, Weeks/Months</u></th></tr>
<tr><td><u>Conduct of Site Survey</u></td><td><u>Within fifteen (15) calendar days after receipt of Notice to Proceed</u></td></tr>
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</td></tr>
</table>

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<tr><th><u>Original Provision</u></th><th><u>Amended Provision</u></th></tr>
<tr><td>
<table>
<tr><td>COMMISSIONING, OPERATION AND MAINTENANCE OF BRAND NEW FIBER OPTIC CABLE NETWORK IN ZAMBOANGA CITY</td><td></td><td>days upon receipt of Notice to Proceed</td></tr>
</table>
</td><td>
<table>
<tr><td><u>Submission of Engineering Design</u></td><td><u>Within fifteen (15) calendar days after site survey</u></td></tr>
<tr><td><u>Construction, Installation, splicing and termination of Fiber Optic Cables (FOC)</u></td><td><u>Within one hundred twenty (120) calendar days after delivery of Engineering Design</u></td></tr>
<tr><td><u>Pre-test, pre-acceptance and commissioning of laid-out Fiber Optic Cable Network</u></td><td><u>Within fifteen (15) calendar days after completion of the construction and installation of the FOC Network</u></td></tr>
<tr><td><u>Final Testing and Acceptance of FOC</u></td><td><u>Within fifteen (15) calendar days after Pre-testing and Pre-Acceptance.</u></td></tr>
<tr><td><u>Maintenance work</u></td><td><u>Within two (2) years after the final acceptance of the FOC network and ready for light-up.</u></td></tr>
</table>
</td></tr>
<tr><td colspan="2">Section VII. Technical Specifications</td></tr>
<tr><td>1.2. Brief Description
The Project includes the design, supply, delivery, installation and commissioning of brand new fiber optic cable network and three-year maintenance in Zamboanga covering eighty-six (86) government agencies/offices which include national government agencies, local government units, state universities and colleges, and rural health units. An approximately 28 km cable to be laid.</td><td>1.2. Brief Description
The Project includes the design, supply, delivery, installation and commissioning of brand new fiber optic cable network and <u>two-year maintenance</u> in Zamboanga covering <u>eighty-eight (88) government agencies/offices</u> which include national government agencies, local government units, state universities and colleges, and rural health units. An approximately 28 km cable to be laid.</td></tr>
<tr><td>3.1.4. Construction of underground (conduit system, micro-trenching, buried, directional drilling, etc.) facilities and installation of conduit system/sub ducts/micro ducts for the backbone/primary cable route.</td><td>3.1.4. Construction of underground (conduit system, micro-trenching, buried, directional drilling, etc.) facilities and installation of conduit system/sub ducts/micro ducts for the backbone/primary cable route. <u>For air-blown cable, we recommend a 7-way microduct. For traditional cable (underground), we recommend to install three (3) subducts inside a 4-inch HDPE pipe.</u></td></tr>
<tr><td>3.2. Two (2) Year Maintenance of Eighty-six (86) Agencies in Zamboanga Government-FOC Network
After the completion and acceptance of Zamboanga FOC Network (ready for light-up), the maintenance activities will commence. The maintenance work includes the following services to be rendered by the</td><td>3.2. Two (2) Year Maintenance of <u>Eighty-eight (88) Agencies</u> in Zamboanga Government-FOC Network
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</table>

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<tr><th><u>Original Provision</u></th><th><u>Amended Provision</u></th></tr>
<tr><td>Contractor to ensure the continuous operation of the FOC Network:</td><td>ensure the continuous operation of the FOC Network:</td></tr>
<tr><td>3.3. List of Government Agencies to be Connected in Zamboanga Government FOC Network

85. Philippine Institute of Volcanology and Seismology
86. Bureau of Treasury</td><td>3.3. List of Government Agencies to be Connected in Zamboanga Government FOC Network

85. Philippine Institute of Volcanology and Seismology
86. Bureau of Treasury
<u>87. PAGASA Radar Station</u>
<u>88. PAGASA Synoptic Station</u></td></tr>
<tr><td>3.7.1.1. Detailed work plan, including milestones and critical tasks, in implementing the project within the allotted one hundred twenty (120) calendar days from date of receipt of Notice to Proceed (NTP);</td><td>3.7.1.1. Detailed work plan, including milestones and critical tasks, in implementing the project within the allotted <u>one hundred eighty (180) calendar days</u> from date of receipt of Notice to Proceed (NTP);</td></tr>
<tr><td>4. Evaluation Process
Contractors must submit the following not more than three (3) days after the declaration of LCB or SCB:</td><td>4. Evaluation Process
Contractors must submit the following <u>as part of the Technical Documents during bid submission</u></td></tr>
<tr><td colspan="2">VIII. Bidding Forms
Technical Bid Form</td></tr>
<tr><td>Line No. 2<table><tr><th>ITEM</th><th>BRAND</th><th>MODEL</th></tr><tr><td>a) Fiber Optic Cable in compliance with ITU-T G.652.D</td><td></td><td></td></tr><tr><td>b) Optical Distribution Frame</td><td></td><td></td></tr><tr><td>c) Fiber Closure</td><td></td><td></td></tr><tr><td>d) Subduct/Microduct (HDPE)</td><td></td><td></td></tr></table></td><td>Line No. 2<table><tr><th>ITEM</th><th><u>BRAND / SPECIFICATIONS</u></th><th>MODEL</th></tr><tr><td>e) Fiber Optic Cable in compliance with ITU-T G.652.D</td><td></td><td></td></tr><tr><td>f) Optical Distribution Frame</td><td></td><td></td></tr><tr><td>g) Fiber Closure</td><td></td><td></td></tr><tr><td>h) Subduct/ Microduct (HDPE)</td><td></td><td></td></tr></table></td></tr>
<tr><td colspan="2">VIII. Bidding Forms
Detailed Financial Breakdown</td></tr>
<tr><td colspan="2"><table><tr><th>ITEM</th><th>QTY</th><th>ITEM</th><th>QTY</th></tr><tr><td>144 core, FOC, SM, 1310, Air blown or underground or buried fiber (depending on what type of fiber to be installed) 4km/drum</td><td>4 drums</td><td>144 core, FOC, SM, 1310, Air blown fiber or underground or buried, depends on the FOC supplied during installation 4km/drum</td><td><u>3 drums</u></td></tr><tr><td>48 core, FOC, SM, 1310. Self-support (depending on what type of fiber to be installed), 4km/drum</td><td>4 drums</td><td>48 core, FOC, SM, 1310. Self-support, depends on the FOC supplied during installation 4km/drum</td><td><u>3 drums</u></td></tr><tr><td>FOC Splice Closure – 48 core</td><td>30 sets</td><td><u>This provision is deleted.</u></td><td></td></tr></table></td></tr>
</table>

Original Provision		**Amended Provision**	
Patch Cord, LC/LC	190 pcs.	Patch Cord, LC/LC	**100 pcs.**
Subduct/microduct, HDPE	15 km	**Underground HDPE ducts/conduit/microducts, depends on the FOC supplied during installation**	**1 lot**
Different size of pole clamps (10 each)	1 lot	**This provision is deleted.**	
Different types of suspension clamps (10 each)	1 lot	**This provision is deleted.**	
Messenger/Guy grip	100 pcs	**This provision is deleted.**	
No original provision		**Other necessary materials**	**1 lot**
Arc Fusion Machine	1 set	**This provision is deleted.**	
Optical Loss Test Set (Power Meter & Light Source)	1 set	**This provision is deleted.**	
Optical Time Domain Reflectometer (OTDR)	1 set	**This provision is deleted.**	
Fiber Extension Ladder 24 feet length	2 sets	**This provision is deleted.**	
Lineman safety belts	2 sets	**This provision is deleted.**	
Lineman Tool Kit	2 sets	**This provision is deleted.**	
Cable jack/trailer	1 set	**This provision is deleted.**	
Digging bar, shovel, clamshell digger	2 sets	**This provision is deleted.**	
Carpentry Tools	2 sets	**This provision is deleted.**	
Wheel meter	2 pcs	**This provision is deleted.**	
Cable Cutter	2 pcs	**This provision is deleted.**	
Messenger wire cutter	2pcs	**This provision is deleted.**	
Contractor must have the following vehicles to mobilize necessary tools and materials that will be used in the maintenance of the network in the duration of the contract but not to be delivered to DICT.		**This provision is deleted.**	
Splicing Van with Ladder rack/holder	1	**This provision is deleted.**	
Bucket/Boom Truck	1	**This provision is deleted.**	
Service Vehicle with Ladder rack/holder	1	**This provision is deleted.**	
Minimum FOC Network maintenance personnel for Cotabato		**This provision is deleted.**	
Engineer/Coordinator	1	**This provision is deleted.**	
One (1) FOC team which is consisting of seven (7) personnel:		**This provision is deleted.**	
OSP Supervisor	1	**This provision is deleted.**	
Lineman	2	**This provision is deleted.**	

Original Provision		**Amended Provision**
Splicers/Commissioning personnel	2	**This provision is deleted.**
Support personnel	2	**This provision is deleted.**

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

Please use the following forms attached in this Supplemental Bid Bulletin:

- Revised Schedule of Requirements as of 10 July 2017
- Revised Technical Specifications as of 10 July 2017
- Revised Technical Bid Form as of 10 July 2017
- Revised Detailed Financial Breakdown as of 10 July 2017

In addition, attached in this Supplemental Bid Bulletin is the amended route plan for Zamboanga City.

For information and guidance of all concerned.

Issued this 10th day of July 2017.

(Original Signed)
ALLAN S. CABANLONG
Chairperson, BAC4IGOV

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

DESIGN, SUPPLY, DELIVERY, INSTALLATION, SPLICING, TESTING, COMMISSIONING, OPERATION AND MAINTENANCE OF BRAND NEW FIBER OPTIC CABLE NETWORK IN ZAMBOANGA CITY

BAC4IGOV-2017-06-007

Revised Schedule of Requirements as of 10 July 2017

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site

Description	Delivered, Weeks/Months
Conduct of Site Survey	Within fifteen (15) calendar days after receipt of Notice to Proceed
Submission of Engineering Design	Within fifteen (15) calendar days after site survey
Construction, Installation, splicing and termination of Fiber Optic Cables (FOC)	Within one hundred twenty (120) calendar days after delivery of Engineering Design
Pre-test, pre-acceptance and commissioning of laid-out Fiber Optic Cable Network	Within fifteen (15) calendar days after completion of the construction and installation of the FOC Network
Final Testing and Acceptance of FOC	Within fifteen (15) calendar days after Pre-testing and Pre-Acceptance.
Maintenance work	Within two (2) years after the final acceptance of the FOC network and ready for light-up.

I hereby commit to comply and deliver all the above requirements in accordance with the above-stated schedule.

Name of Company	Signature Over Printed Name Of Authorized Representative	Date

DESIGN, SUPPLY, DELIVERY, INSTALLATION, SPLICING, TESTING, COMMISSIONING, OPERATION AND MAINTENANCE OF BRAND NEW FIBER OPTIC CABLE NETWORK IN ZAMBOANGA CITY
BAC4IGOV-2017-06-007

REVISED TECHNICAL SPECIFICATIONS
10 July 2017

Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of **ITB** Clause 3.1.(a)(ii) and/or **GCC** Clause 2.1(a)(ii).

ITEM	MINIMUM SPECIFICATIONS	STATEMENT OF COMPLIANCE
1.	**Background of the Project**	
	1.1. Overview The project aims to interconnect government agencies in the country to enable faster communication, easier access to government shared services, integrate functions and simplify processes. Agencies connected to the GovNet through a fiber optic backbone will be able to reap the benefits of lower costs of internet services and faster data transfers for effective government-to-government transactions.	
	1.2. Brief Description The Project includes the design, supply, delivery, installation and commissioning of brand new fiber optic cable network and two-year maintenance in Zamboanga covering eighty-eight (88) government agencies/offices which include national government agencies, local government units, state universities and colleges, and rural health units. An approximately 28 km cable to be laid.	
2.	**Purpose of the Procurement**	
	2.1. Rationale The purpose of the project is to establish an integrated government network using fiber optic cable in Zamboanga that will deliver faster communication and ease of access of the citizenry to government services in the country, and at the same time provide effective government-to-government transactions.	
3.	**Scope of Work**	
	3.1. Design, Supply, Delivery, Installation, Splicing, Testing and Acceptance The Work includes the supply of engineering services, furnishing of materials, labor, supervision, tools, supplies, and performance of all operations necessary to complete the project, all in accordance with	

	the contract documents and subject to the terms and conditions of the Contract. The Work covers the design-and-build of the above-mentioned project particularly the following components: 3.1.1. Survey and preparation of engineering design/plan prior to installation	
	3.1.2. As-built of all plans and drawings (detailed map, cable route, termination, splicing, etc.) required by the project;	
	3.1.3. Erection of poles, pole dressing, guyings and other appurtenances for aerial installation of last mile/distribution cable;	
	3.1.4. Construction of underground (conduit system, micro-trenching, buried, directional drilling, etc.) facilities and installation of conduit system/sub ducts/micro ducts for the backbone/primary cable route. For air-blown cable, we recommend a 7-way microduct. For traditional cable (underground), we recommend to install three (3) subducts inside a 4-inch HDPE pipe.	
	3.1.5. Laying of underground/buried/air-blown 144-core fiber optic cable (for the backbone) with approximate length of 14 kilometers	
	3.1.6. Laying of figure-8/self-supporting 48-core fiber optic cable(for last mile) to connect all the agencies with approximate length of 14 kilometers;	
	3.1.7. Installation of Optical Distribution Frame (ODF)/patch panel/cabinet including patch cord/pig tails, optical fiber trays, dB loss/amplification and other equipment and accessories inside agency's equipment/ICT room, if necessary;	
	3.1.8. Structural cabling installation (cable trays, conduit, groundings and accessories)	
	3.1.9. Splicing and termination of fiber optic cable;	
	3.1.10. Testing and commissioning (provisional and final acceptance) of newly installed FOC; and	
	3.1.11. Restoration of all affected facilities. Note: Scope of work for the Fiber Network will be up to the Optical Distribution Frame (ODF) only. All connections are to be directly terminated to the user nodes using ODFs/Patch Panels.	
	3.2. Two (2) Year Maintenance of Eighty-eight (88) Agencies in Zamboanga Government-FOC Network After the completion and acceptance of Zamboanga FOC Network (ready for light-up), the maintenance activities will commence. The maintenance work includes the following services to be rendered by the Contractor to ensure the continuous operation of the FOC Network: 3.2.1. Conduct daily physical inspections for the coverage Area.	

	3.2.2. All route covering all Agencies connected must be inspected at least every quarter per year	
	3.2.3. Restoration and replacements of damaged and/or stolen fiber optic cable	
	3.2.4. Pole replacement / relocation / straightening / erection	
	3.2.5. Re-tensioning and maintain separation of fiber optic cable to other facilities	
	3.2.6. Repair of broken duct/conduit system and other underground facilities	
	3.2.7. Repair/restoration of ODF/patch panel	
	3.2.8. Replacement of FOC pigtail and/or patch cord at the ODF	
	3.2.9. Replacement of damaged Equipment (Media Converter, Switch, router and other active devices) part of the government network	
	3.2.10. Maintenance of warehouse for safe-keeping of spare materials and facilities needed	
	3.2.11. Secure 24/7 on-call/standby maintenance team for immediate response in case of network failure. *Response and Report Time Target* Contractor considers all interruptions in service as urgent priority. Expected response and repair time are given in the table below:	

Hours/Days of Coverage	*Response Time*	*Restoration*
	Maximum Time to Respond	*Maximum Time to UP the Network*
24 x 7 x 365 Days Monday to Sunday	*1 Hour*	*6 Hours from the issuance of trouble ticket*

3.3. List of Government Agencies to be Connected in Zamboanga Government FOC Network

1. Development Bank of the Philippines	45. Philippine Red Cross
2. Bangko Sentral ng Pilipinas	46. Department of Trade and Industry
3. Land Bank of the Philippines	47. Social Housing Finance Corporation
4. Phil. Veterans Bank	48. National Youth Commission
5. Zamboanga City Medical Center	49. National Housing Authority
6. Zamboanga State College of Marine Science and Technology	50. Mines and Geosciences Bureau
7. Sta. Barbara Elementary School	51. Department of Foreign Affairs
8. Zamboanga City Tourism Office	52. Social Security System
9. Barangay Hall, Zone 4	53. Sangguniang Panglungsod
10. City Local Disaster Risk Reduction Management Council	54. Department of Trade and Industry
11. City Procurement Services Office	55. Philippine National Police - PRO 9
12. City Civil Registrar's Office	56. Commission on Audit - ZC
13. Social Development Center (CSWD)	57. Commission on Audit - RO 9
14. City Health Office	58. Pag-ibig Fund
15. Zamboanga City Hall	59. Office of the City Veterinarian
16. Postal Office	60. Maritime Industry Authority
17. National Museum	61. Department of Health RO 9
18. Philippine Statistics Authority	62. National Food Authority
19. Department of Justice - RO 9	63. Philippine Information Agency
20. Zamboanga City Jail	64. Technical Education and Skills Development Authority (TESDA) RO 9

	21. Philippine Ports Authorities	65. Bureau of Jail Management and Penology - Zamboanga	
	22. PhilHealth	66. Western Mindanao State University (WMSU)	
	23. Land Transportation Office	67. Zamboanga City State Polytechnic College	
	24. Department of Social Welfare and Development Field Office 9	68. Department of Education	
	25. Department of Budget and Management	69. Commission on Higher Education RO 9	
	26. Bureau of Internal Revenue	70. Zamboanga City High School West	
	27. Bureau of Fire Protection - ZC District	71. National Telecommunications Office	
	28. Department of Science and Technology	72. Commission on Population RO 9	
	29. Cooperative Development Authority	73. Department of Public Works & Highways	
	30. Register of Deeds	74. Department of Labor and Employment	
	31. Housing and Land Use Regulatory Board	75. Land Transportation Franchising and Regulatory Board (LTFRB) - RO 9	
	32. Travel Tax Field Office	76. Western Mindanao Command	
	33. Land Management Bureau	77. Edwin Andrews Air Base	
	34. Department of Agriculture	78. FOO DICT - MC1	
	35. Zamboanga City Water District	79. City Human Resource Management	
	36. Philippine Coconut Authority	80. Office of Civil Defense Region 9	
	37. Department of Tourism	81. National Irrigation Administration	
	38. Philippine Charity Sweepstakes Office	82. Professional Regulation Commission	
	39. Commission On Election	83. Civil Aviation Authority of the Philippines (CAAP)	
	40. Bureau of Soil	84. Bu. of Fisheries and Aquatic Resources (BFAR)	
	41. Philippine Cost Guard District Office	85. Philippine Institute of Volcanology and Seismology	
	42. Bureau of Quarantine	86. Bureau of Treasury	
	43. National Bureau of Investigation	87. PAGASA Radar Station	
	44. Civil Service Commission Field Office	88. PAGASA Synoptic Station	
	3.4. Deliverables		
	3.4.1. Survey, Engineering And Construction / Design		
	3.4.1.1. The Contractor is required to carry out the detailed site survey and engineering for Fiber Optic Cable Routes to justify the installation and construction designs		
	3.4.1.2. The Contractor shall submit a detailed work plan and installation/construction design drawings to DICT for approval within ten (10) calendar days after receipt of Contract and prior to installation. The Department will check and review the design drawings accompanied by justification/verification reports, and will give their decision whether the design drawings are acceptable or not, within one (1) week time from the date of DICT receipt of design drawings.		
	3.4.1.3. As part of each telecommunications work order/project, detail schematic drawings shall be prepared for each fiber optic span/cable route, showing the following information:		
	3.4.1.3.1. Fiber cable data:		
	3.4.1.3.1.1. Cable manufacturer;		
	3.4.1.3.1.2. Cable size (number of fibers);		
	3.4.1.3.1.3. Cable type;		
	3.4.1.3.1.4. Cable make-up;		
	3.4.1.3.1.5. Type of fiber;		

	3.4.1.3.1.6. Transmission characteristics (dB loss/km at given wavelength); and	
	3.4.1.3.1.7. Dispersion specification in ps/(nm . km).	
	3.4.1.3.2. Other information:	
	3.4.1.3.2.1. Trunk number/cable number;	
	3.4.1.3.2.2. Span length;	
	3.4.1.3.2.3. Manhole/handhole number and duct number;	
	3.4.1.3.2.4. Major intersections and key streets;	
	3.4.1.3.2.5. Fiber cable splice points with station location;	
	3.4.1.3.2.6. Splice-to-splice cable lengths;	
	3.4.1.3.2.7. Change in cable route; and	
	3.4.1.3.2.8. budget loss link calculation.	
	3.4.1.4. Preparation of Design Drawings	
	3.4.1.4.1. The Contractor shall, at his own expense, produce installation/construction designs/drawings in conformity with design principles, and are to be approved by DICT.	
	3.4.1.4.2. The Contractor shall produce the installation/construction designs/drawing on standard size paper.	
	3.4.1.4.3. The Contractor shall supply drawings in a Computer-aided design (CAD) format.	
	3.4.1.4.4. Geospatial data indicating the route plan including the splicing point, termination point, and ODF.	
	3.4.1.5. Kinds of Construction Plan/Design All Construction Plans/Designs shall be in accordance with DICT Specifications. Construction Plans/Designs are composed of:	
	3.4.1.5.1. Key Map for Optical Fiber Cable route Key map is to indicate the proposed optical fiber cable route between two nodes with latest route conditions as well as future plan along the route	
	3.4.1.5.2. Optical fiber cable arrangement and termination on ODF frames. This drawing shall cover terminations in the ICT room; location of ODF, assignment and arrangement of termination and detailed cable runs	
	3.4.1.5.3. Schematic diagram for fiber optics cores splicing assignment This drawing shall cover all necessary factors for interfacing with transmission systems as the line system design	
	3.4.1.5.4. Cable Entrance Facilities / Structural Cabling inside the agencies	
	Note: *For all the construction/engineering design in hard copy, the following must be included:* *- The proposed Contractors Fiber Network in Infra Map/Diagram as basis for implementation, duly signed by a licensed Professional Electronics and Communication Engineer (PECE).*	

	- Link Loss Budget Calculation from nodes to nodes: (Note: Link loss budget calculation from nodes to nodes should not be more than 6db at 1310nm) Formula in computing the budget loss calculation: cable loss + splice losses + connector losses = Budget loss calculation Wherein: cable loss = db/km x km splice loss = db/splice x number of splice	
	3.4.1.6. The contractor must conduct due diligence and shall restudy and amend/modify the design drawings not only dependent upon the comments of DICT but also taking into consideration the design concept, and shall resubmit the modified design drawings to DICT within one (1) week after receipt of DICT comments for their approval.	
	3.4.1.7. In case the Contractor's re-study of the design is incomplete, and DICT disapproval is repeated, then the Contractor shall be fully responsible for any delay in progress, cost of re-design etc. and DICT will keep the right to order the replacement of the Contractor's engineer/ management in charge of installation/construction design at the Contractor's own expense.	
	3.4.2. Bill of Quantities	
	3.4.2.1. The contractor must attach a detailed Bill of Quantities (BOQ) showing all the components required to complete the project. This may include, but not limited to:	
	3.4.2.1.1. Fiber Optic Cable (SMF., ITU –T Recommendation G.652d, NECA/FOA 301 Compliant), Closure, and Cabinet	
	3.4.2.1.2. Optical Distribution Frame (ODF)/Cabinet including patch cord/pig tails, optical fiber trays, db loss/amplification and other equipment, if necessary and accessories.	
	3.4.2.1.3. Poles, Pole Line hardware and accessories for aerial installation	
	3.4.2.1.4. Underground (micro-trenching / buried / conduit / directional boring) facilities and accessories.	
	3.4.2.1.5. Engineering, Right of Way, Permits	
	3.4.2.1.6. List of equipment	
	3.4.2.1.7. Contingency	
	3.4.3. Reports, Specifications, Practices And Procedures	
	3.4.3.1. The following Reports, Specifications, Practices and Procedures shall be prepared by the Contractor, called as the "Technical Documents" in this paragraph, to be approved by DICT. The Contractor must submit a progress report every Monday.	
	3.4.3.1.1. Survey report	
	3.4.3.1.2. Design reports	

	3.4.3.1.3. Material Specifications for Fiber Optic Cable, Aerial and Underground Systems.	
	3.4.3.1.4. Installation/Construction Practices, for Fiber Optic Cable, Aerial and Underground Systems.	
	3.4.3.1.5. Factory Inspection/Test procedures	
	3.4.3.1.6. Inspection and Acceptance Test Procedures, for Outside Plant System and Optical Fiber Cable Systems.	
	3.4.3.1.7. Others	
	3.4.3.2. The Contractor shall submit to DICT the specified numbers of original and of copies of all the technical documents such as: 3.4.3.2.1. Softcopy, in original editable format, of all as-built plans and drawings involved in the project;	
	3.4.3.2.2. Design standard and application details;	
	3.4.3.2.3. Survey and design reports;	
	3.4.3.2.4. Material Specifications;	
	3.4.3.2.5. Installation / Construction Practices in accordance with ITU-T Standard;	
	3.4.3.2.6. Factory Inspection / Test Procedures; and	
	3.4.3.2.7. Inspection and Acceptance Test Procedures.	
	3.4.3.2.8. Others	
	3.4.4. As-Built Drawings The following as-built drawing having the same sizes as the designs/drawings:	
	3.4.4.1. General Map to cover all of the serving area;	
	3.4.4.2. Key Map for Cable Route (each cable section);	
	3.4.4.3. Detailed fiber core assignments (each cable section/splicing point);	
	3.4.4.5. Junction Cable Location Map (each cable section);	
	3.4.4.6. Optical Fiber Cable Arrangement and Termination on the fiber distribution frame;	
	3.4.4.7. Schematic diagram for Fiber Optics Cores Assignment;	
	3.4.4.8. Structured Cabling Plan/Cable route plan from insertion/splicing point to inside Agency's equipment/ICT room.	
	3.4.4.9. Special Design Drawing, if any.	
	3.4.5. Fiber Optic Cable Specifications	
	3.4.5.1. General Scope This covers the minimum requirement of single mode optical fiber cables for the Government FOC Network as per **ITU-T Recommendation G.652D** standard. All the terms used in this specification of single-mode optical fiber cable shall be as defined in the latest ITU-T Recommendation G.652d. Characteristics not clearly defined in these specifications shall comply with the latest ITU-T G.652D recommendation.	
	3.4.5.2. Cable Construction: General considerations	

	The basic purpose is to keep transmission and mechanical strength properties stable in the course of the cable manufacturing process, cable installation work and operation. Optical fiber cables offered must be able to withstand all possible weather conditions in the Philippines when used in outside plant and installed aerial or underground. The optical fiber cables and accessories offered must be mechanically strong and chemically resistant to be suitable for use under extreme external conditions.	
	3.4.5.3. Design Consideration The maximum number of optical fibers in a loose tube shall be 12 fibers for cables 48-fiber and above. This requirement must be strictly complied. The loose tubes and interstices of cable core shall be filled with a suitable compound that could prevent long term penetration of water. Information on the material used for the filling compound shall be stated by the manufacturer.	
	3.4.5.3.1. Figure-8/Self-support Fiber optic cable	
	Figure 8 cable has a cable bonded to an insulated steel or all dielectric messenger for support. 3.4.5.3.1.1. Cable Sheath	
	3.4.5.3.1.1.1. Black HDPE, a compound of PE and carbon black shall be used for the cable sheath.	
	3.4.5.3.1.1.2. The moisture barrier shall consist of a longitudinally applied laminate of polymer coated aluminum foil.	
	3.4.5.3.1.1.3. A rip cord having a minimum breaking load of 150N shall be laid beneath the outer sheath to facilitate access to the fiber.	
	3.4.5.3.1.1.4. Cable sheath marking shall be as follows: ***Property of DICT Philippines;*** ***Manufacturer's Name and Fiber Count;*** ***Date of Manufacture;*** ***Length Marker; and*** ***Fiber type: SM***	
	3.4.5.3.1.1.5. The completed cable shall have sequentially numbered length markers at regular intervals of one meter (1.0m).	
	3.4.5.3.1.1.6. The cable sheath shall have 3.2mm thick green-striped marking continuously on the sheath.	
	3.4.5.3.1.2. Strength Member	
	3.4.5.3.1.2.1. One or more strength members shall be incorporated into a cable structure designed to carry the tensile load associated with installation.	
	3.4.5.3.1.2.2. The fiber reinforced plastic (FRP), serving mainly as the central strength member must be laminated with an MDPE-	

	Jacket to prevent disintegration/breakage of plastic materials used.	
	3.4.5.3.2. Underground fiber optic cable	
	3.4.5.3.2.1. Cable Sheath	
	3.4.5.3.2.1.1. Black HDPE, a compound of PE and carbon black shall be used for the cable sheath.	
	3.4.5.3.2.1.2. The moisture barrier shall consist of a longitudinally applied laminate of polymer coated aluminum foil.	
	3.4.5.3.2.1.3. A rip cord having a minimum breaking load of 150N shall be laid beneath the outer sheath to facilitate access to the fiber.	
	3.4.5.3.2.1.4. Cable sheath marking shall be as follows: ***Property of DICT Philippines;*** ***Manufacturer's Name and Fiber Count;*** ***Date of Manufacture;*** ***Length Marker; and*** ***Fiber type: SM***	
	3.4.5.3.2.1.5. The completed cable shall have sequentially numbered length markers at regular intervals of one meter (1.0m).	
	3.4.5.3.2.1.6. The cable sheath shall have 3.2mm thick green-striped marking continuously on the sheath.	
	3.4.5.3.2.2. Strength Member	
	3.4.5.3.2.2.1. One or more strength members shall be incorporated into a cable structure designed to carry the tensile load associated with installation.	
	3.4.5.3.2.2.2. The fiber reinforced plastic (FRP), serving mainly as the central strength member must be laminated with an MDPE-Jacket to prevent disintegration/breakage of plastic materials used.	
	3.4.5.3.3. Identification The color coding of the loose tubes and the individual fibers within each loose tube shall be as follows:	

Tube No./ Fiber No.	**Fiber Color**	**Tube Color**
1	Blue	Blue
2	Orange	Orange
3	Green	Green
4	Brown	Brown
5	Slate	Slate
6	White	White
7	Red	Red
8	Black	Black
9	Yellow	Yellow
10	Violet	Violet
11	Rose	Rose
12	Aqua blue	Aqua Blue

	3.4.5.3.4. Packing of Cables Cable protection shall include, as a minimum, a covering placed between the cable reel flanges and over the exposed layer of the cable. The covering shall be weather resistant and shall limit solar heating of the cable such that the cable surface temperature does not exceed 10°C above ambient temperatures under maximum solar radiation. The cable ends shall be accessible for testing, and securely fastened to the reel to prevent the cable from becoming loose in transit or during cable installation. End caps shall be securely installed to both cable ends to prevent escape of filling compound and entry of moisture during shipping, handling, and storage. The manufacturer shall state the sizes of cable drums used for the purpose of packing the offered single mode optical fiber cables. The minimum diameter of spool of the cable drums shall be at least 20 times the cable diameter. The spindle hole of each cable drum shall be greater than 100mm. Cable length per reel /drum must be continuous.	
	3.4.5.3.5. Cable Sizes The manufacturer shall state the outer diameter of the various sizes of the single mode fiber optic cables offered, subject to DICT's approval.	
	3.4.6. Pre-installation	
	3.4.6.1. The contractor is required to designate a qualified on-site engineer for proper supervision and coordination of the project. He must undergo interview with DICT FOC Team for verification.	
	3.4.6.2. The Contractor shall, in order to keep the design accurate and practical and at his own expense, perform the following:	
	3.4.6.2.1. When necessary, make test holes at key point of the route to avoid interference with underground facilities and/or hard – rocks as much as practically possible;	
	3.4.6.2.2. Obtain prior approval from municipalities and/or other relevant authorities/agencies, and third parties for the execution of the work.	
	3.4.6.2.3. The Contractor shall abide and comply with the terms and conditions specified in the permits obtained from said municipalities and/or other relevant authorities/agencies. All permits and fees/charges for the JPA lease, road/underground trench/duct monthly lease will	

	be eventually shouldered by the Project once the Final Acceptance Certificate is issued by DICT. All charges pertaining to permits and other fees for JPA lease and Right of Way for the duration of the contract shall be at the expense of the Contractor.	
	3.4.7. Maintenance Work Requirements	
	3.4.7.1. Reports and Documentation for Maintenance Work Maintenance work/activities shall start once the installation and construction of the government network is 100% accepted and operational. Contractor must submit the following:	
	3.4.7.1.1. Preventive maintenance Plan;	
	3.4.7.1.2. Monthly submission of maintenance report;	
	3.4.7.1.3. Incident Report, in case of problems encountered;	
	3.4.7.1.4. Repair and Test report after restoration activities.	
	3.4.7.2. Manpower Personnel must be properly trained to use such equipment and do the troubleshooting and restoration and must be available on a moment's notice. In order to effectively maintain the FOC Network, maintenance personnel, at the minimum, must include the following:	
	3.4.7.2.1. One (1) Project Engineer/Coordinator	
	3.4.7.2.2. One (1) FOC team that consists of seven (7) personnel • One (1) OSP Supervisor • Two (2) Lineman • Two (2) Splicers/Commissioning personnel • Two (2) Support personnel	
	3.4.7.3. Tools and Equipment As part of the activity, the following equipment, facilities, tools and materials must be available at all times. Contractor must have the following tools and equipment to do the preventive maintenance and restoration activities in the duration of the contract but not to be delivered to DICT.	

#	Description	Quantity	Unit
1	Arc Fusion Machine	1	Set
2	Optical Loss Test Set (Power Meter & Light Source)	1	Set
3	Optical Time Domain Reflectometer (OTDR)	1	Set
4	Fiber Extension Ladder 24 feet length	2	Sets
5	Lineman safety belts	2	Sets
6	Lineman Tool Kit	2	sets
7	Cable jack/trailer	1	Set

	8	Digging bar, shovel, clamshell digger,	2	Sets
	9	Carpentry Tools	2	Sets
	10	Wheel meter	2	pcs.
	11	Cable Cutter	2	pcs.
	12	Messenger wire cutter	2	pcs.
	13	Other necessary tools/equipment	1	Lot

3.4.7.4. Maintenance Supplies/Materials

Listed in the table are the common materials necessary for the maintenance of the network. (To be delivered by the winning bidder to DICT)

#	Description	Qty	Unit
1	144 core, FOC, SM, 1310, Air blown fiber or underground or buried, depends on the FOC supplied during installation 4km/drum	3	drums
2	48 core, FOC, SM, 1310. Self-support, depends on the FOC supplied during installation 4km/drum	3	drums
2	FOC Splice Closure-48 core	30	sets
3	Patch Cord, LC/LC	100	pcs.
4	Underground HDPE ducts/conduit/micro ducts, depends on the FOC supplied during installation	1	lot
5	Different size of pole clamps (10 each)	1	lot
6	Different types of suspension clamps (10 each)	1	lot
7	Messenger/Guy grip	100	pcs.
8	Other necessary materials	1	lot

Note: All the above mentioned materials shall be made available at the time of the Final Acceptance.

3.4.7.5. Maintenance vehicles

Contractor must have the following vehicles to mobilize necessary tools and materials that will be used in the maintenance of the network in the duration of the contract.

3.4.7.5.1. One (1) Splicing Van with Ladder rack/holder

3.4.7.5.2. One (1) Bucket/Boom Truck

3.4.7.5.3. One (1) Service Vehicle with Ladder rack/holder

3.4.7.6. Warehouse (DICT will provide a 300 square meter open space)

	Contractor is required to maintain the quantity of materials in their storage warehouse. Warehouseman must always update and maintain record of the list of components and materials, and prepare reports when stocks are being used. *In case of any loss or damages on the materials provided by DICT, the Contractor or the winning Maintenance Provider will be accountable and must immediately replace the said materials.*	
	3.4.7.7. Personnel Protective Equipment (PPE) and Safety Devices Contractor must also provide and ensure that all personnel are wearing proper PPE at all times and use safety device in their working area to avoid any accident.	
	3.4.7.8. Handling and Storage Procedures Contractor shall ensure that all FOC, equipment and materials necessary for the project are properly handled and secured. Contractor must submit Handling and Storage Procedures particularly of the Fiber Optic Cable. This also includes the shipment or transfer of FOC when necessary.	
	3.5. Duration of the Contract Upon issuance of Notice to Proceed, the duration of the contract is 180 days for installation of FOC and two (2) years for maintenance of the FOC network.	
	3.6. Warranty	
	3.6.1. The Contractor warrants that Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design, materials, except when the technical specifications required by DICT provides otherwise;	
	3.6.2. The Contractor further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship; From any act of omission of the Contractor that may develop under the normal use of the Supplied Goods in the conditions prevailing in the country of the final destination;	
	3.6.3. The warranty shall cover full replacement of defective items, free of charge, including labor, spare parts and materials.	
	3.7. Implementation or Work Schedule	
	3.7.1. The Contractor shall submit an integrated project implementation plan showing the following: 3.7.1.1. Detailed work plan, including milestones and critical tasks, in implementing the project within the allotted one hundred eighty (180) calendar days from date of receipt of Notice to Proceed (NTP);	
	3.7.1.2. Number of work teams at any given time;	
	3.7.1.3. Specific dates for work and quality inspection by the DICT team in the FOO clusters;	
	3.7.2. The Contractor shall submit integrated implementation updates every 1st day of the week (Monday) to DICT throughout the contractual installation/construction period from the effective date of the Contract until the completion of the	

	Project showing the following detailed milestone, and in accordance with the established schedule and priorities.	
	3.7.3. The implementation shall be accurate and include the following considerations: 3.7.3.1. To ensure that the work-force is well-distributed through the contractual period taking quality control and timely progress into consideration;	
	3.7.3.2. To allow sufficient time and manpower for self-inspections/tests prior to being witnessed by DICT for interim inspections/tests and provisional acceptance tests;	
	3.7.3.3. To allow reasonable time for witnessing by DOST/ICT Office of interim inspections/tests considering the work sequence such as cable laying work after DICT has accepted completed systems;	
	3.7.3.4. To ensure the sites are properly managed so as to ensure: 3.7.3.4.1. Coordination with NGAs, LGUs and other authorities/agencies concerned;	
	3.7.3.4.2. Obtaining site implementation permits and site-entry permits;	
	3.7.3.4.3. Adequacy of site security arrangements.	
	3.7.3.5. To keep sufficient time and manpower from transferring site know-how quality control, tools/formats, standard safety arrangement, first aid, etc., to the local staff and local foreman.	
	3.7.3.6. To make sure the quality/functions of domestic products fully conform to the specifications any time necessary to upgrade the same.	
	3.7.4. The Contractor shall be responsible for conforming to the integrated implementation schedules as strictly as possible after examination and approval by DICT.	
	3.7.5. If discrepancies/ambiguities are found or some deviation is necessary in the actual implementation progress, the Contractor shall report the same to DICT and shall take all corrective actions/measures at Contractor's own expense in accordance with the instructions given by DICT.	
	3.7.6. The initial synchronized and integrated implementation schedule specified for the project shall be submitted for DICT approval within five (5) days after the effective date of the Contract.	
	3.8. Change Management Procedure	
	3.8.1. In case an agency was found to be in a different location/site than the one specified in the TOR in the detailed site survey/engineering to be done by the winning Contractor, Contractor is required to connect said agency to the Fiber Infra Network provided that the location of the agency is not beyond 1000 meters from the network.	
	3.8.2. If an agency transferred to another location, contractor must identify another agency as a replacement to complete the total number of agencies required in the project.	
	3.8.3. Under any circumstances, the backbone cable must be installed underground. In cases where this is not possible, a written request and justification must be submitted to the DICT for	

	approval. A copy of the detailed cable route must also be submitted along with the request.	
4.	**Evaluation Process** Contractors must submit the following as part of the Technical Documents during bid submission	
	4.1. Written Statement of the contractor signed by their authorized representative that they have at least 10 years of direct experience on planning, engineering, supply and delivery, installation, testing and commissioning and experience in operations and maintenance of optical fiber transmission backbone projects/systems with major telecommunications carriers in the Philippines.	
	4.2. Contractor shall submit resume of key personnel to be assigned to the project. These key personnel are the; PECE, Project Manager; Project Engineer, Outside Plant Supervisor,	
	4.3. Must hold a PCAB License on Communications Facilities for a minimum of 5 consecutive years from the date of Bid Opening. (In case of renewal, the bidder must submit PCAB application and Official Receipt)	
5.	**Testing and Acceptance** The contractor is responsible in the performance of all civil and cable network pre-test requirement but not limited to:	
	5.1. Fiber Optic Cable (FOC) – attenuation and all its related testing, power meter test, and grounding test and all other test that may need to perform to complete the FOC test requirements.	
	5.1.1. On-reel acceptance tests shall be performed on the cable to confirm the manufacturer's tests before the installation operation begins. This will also be used to validate the fiber loss/km; at wavelength 1310nm loss shall be 0.4 db/km or less; at 1550nm shall be 0.3dB/km or less.	
	5.1.2. End-to-end acceptance tests *(typically conducted after completion of installation and splicing and before installing terminal equipment).*	
	5.1.3. End-to-end attenuation is the amount of optical power loss between cable system connector tips. This will include the fiber and splice /connector loss in the cable system after it has been installed.	
	5.1.4. Splice acceptance tests *(individual splice insertion losses)*	
	5.1.4.1. splice loss shall not be above **0.1 dB for fusion splices**; and	
	5.1.4.2. connectors shall have insertion losses of **0.5 dB or less**. *Note: All test equipment that will be utilized for this project shall have updated **calibration certificates** to ensure accuracy of results. Contractor is required to submit Calibration Certificates prior to testing.*	
	5.2. Link Loss Requirements During the design stage a link loss calculation shall be prepared and included with the project proposal and design packages. The link loss budget shall include:	
	5.2.1. Total fiber attenuation (loss), not more than 6db.	
	5.2.2. Splice loss (including pigtail splices, if pigtails are used).	
	5.2.3. Connector loss.	

	5.2.4. The calculated dB loss cannot exceed the operating range of the terminal equipment that will be installed. Measured end-to-end loss should measure less than the calculated loss. Fibers that measure a higher loss than the link loss budget will not be accepted.	
	5.3. Contractor Performance and Workmanship	
	5.3.1. DICT will issue provisional and final acceptance certificate to the Contractor certifying that the scope of work has been performed and accomplished in accordance with the approved plans and specification schedules, variation orders if any, and other related contract document.	
	5.3.2. The contractor likewise agrees to correct any defect accruing after the final acceptance of the site facility under the project within the guarantee period. Effective duration of which shall be one (1) year commencing from the date of final acceptance by DICT.	
6.	**Payment Terms / Progress Payment**	
	6.1. For the Supply, Delivery, Design, Installation, Splicing, Testing and Commissioning of Brand New Fiber Optic Cable Network in Zamboanga, payment will be made in Partial Payment as follows: 6.1.1. 20% payment – After the contractor installed 20% of the Total FOC km. (contractor must issue Bank Guarantee)	
	6.1.2. 40% payment- Afer the contractor installed another 40% of the Total FOC km. (contractor must issue Bank Guarantee)	
	6.1.3. 40% payment- After the final acceptance and completion of the project.	
	6.2. For Maintenance of the DICT Fiber Optic Cable Network in Zamboanga, payment will be every three (3) months upon submission of necessary documents as required by DICT. After the initial three years, the succeeding maintenance payments may be subject to an annual escalation of at most five (5%) percent of the total annual maintenance cost, which will be negotiable.	
7.	**Timelines for Implementation of the Project**	
	7.1. Delivery Schedule	

	ITEM	Delivery Date
1	Conduct of Site Survey	Within fifteen (15) calendar days after receipt of Notice to Proceed
2	Submission of Engineering Design	Within fifteen (15) calendar days after site survey
3	Construction, Installation, splicing and termination of Fiber Optic Cables (FOC)	Within one hundred twenty (120) calendar days after delivery of Engineering Design
4	Pre-test , pre-acceptance and commissioning of laid-out Fiber Optic Cable Network	Within fifteen (15) calendar days after completion of the construction and installation of the FOC Network

	5	Final Testing and Acceptance of FOC	Within fifteen (15) calendar days after Pre-testing and Pre-Acceptance.	
	6	Maintenance work	Within two (2) years after the final acceptance of the FOC network and ready for light-up.	

Name of Company	Signature Over Printed Name Of Authorized Representative	Date

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

Revised Annex VIII as of 10 July 2017

PLEASE USE THIS BID FORM. DO NOT RETYPE OR ALTER.

DEPARTMENT OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

DESIGN, SUPPLY, DELIVERY, INSTALLATION, SPLICING, TESTING, COMMISSIONING, OPERATION AND MAINTENANCE OF BRAND NEW FIBER OPTIC CABLE NETWORK IN ZAMBOANGA CITY
BAC4IGOV-2017-06-007

TECHNICAL BID FORM

INSTRUCTION TO THE SUPPLIER: Indicate **"COMPLY"** (per line number) under **Bidder's Statement of Compliance** if Bidder can meet the technical specifications and project requirements. DO NOT LEAVE ANY BLANK. A "YES" or "NO" ENTRY WILL NOT BE ACCEPTED. FAILURE TO CONFORM WILL RESULT IN A RATING OF "FAILED".

Line No.:	Project Requirements	Bidder's Statement of Compliance
1	**DICT's Section VII Technical Specifications** For the **DESIGN, SUPPLY, DELIVERY, INSTALLATION, SPLICING, TESTING, COMMISSIONING, OPERATION AND MAINTENANCE OF BRAND NEW FIBER OPTIC CABLE NETWORK IN ZAMBOANGA CITY**	

2

ITEM	BRAND / SPECIFICATIONS	MODEL
Fiber Optic Cable in compliance with ITU-T G.652.D		
Optical Distribution Frame		
Fiber Closure		
Subduct/Microduct (HDPE)		

BIDDER'S UNDERTAKING

I/We, the undersigned bidder, having examined the Bidding Documents including Bid Bulletins, as applicable hereby OFFER to (supply/deliver/perform) the above described items.

I/We undertake, if our bid is accepted, to deliver the items in accordance with the terms and conditions contained in the bid documents, including the posting of the required performance security **within ten (10) calendar days** from receipt of the Notice of Award.

Until a formal contract/order confirmation is prepared and signed, this Bid is binding on us.

Name of Company (in print)
Signature of Company Authorized Representative
Name and Designation (in print)
Date

Revised Annex VIII as of 10 July 2017

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DEPARTMENT OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

DESIGN, SUPPLY, DELIVERY, INSTALLATION, SPLICING, TESTING, COMMISSIONING, OPERATION AND MAINTENANCE OF BRAND NEW FIBER OPTIC CABLE NETWORK IN ZAMBOANGA CITY
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Line No.:	Other Requirements	Bidder's Statement of Compliance
3	Bidder has no overdue deliveries or unperformed services intended for the DICT	
4	Bidder did not participate as consultant in the preparation of the design or technical specifications of the GOODS as subject of the bid	
5	**Delivery Place and Distribution** Regional Government Center Zamboanga City as stated Sectional VII. Technical Specifications	
6	**Delivery Period** Within One Hundred Eighty (180) calendar days from receipt of Notice to Proceed	

BIDDER'S UNDERTAKING

I/We, the undersigned bidder, having examined the Bidding Documents including Bid Bulletins, as applicable hereby OFFER to (supply/deliver/perform) the above described items.

I/We undertake, if our bid is accepted, to deliver the items in accordance with the terms and conditions contained in the bid documents, including the posting of the required performance security **within ten (10) calendar days** from receipt of the Notice of Award.

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Line No.:	Project Requirements If Awarded the Contract		Bidder's Statement of Compliance
7	**Operations and Maintenance Manual**	To submit Operation and Maintenance Manual upon completion of the project (in CD and hard copy).	
8	**Replacement of Defective Items**	Replacement of defective items delivered within fifteen (15) calendar days from receipt of Notice of Defects from DICT. Service unit must be provided while awaiting replacement.	
9	**Warranty**	Warranty Certificate issued in favor of DICT.	

BIDDER'S UNDERTAKING

I/We, the undersigned bidder, having examined the Bidding Documents including Bid Bulletins, as applicable hereby OFFER to (supply/deliver/perform) the above described items.

I/We undertake, if our bid is accepted, to deliver the items in accordance with the terms and conditions contained in the bid documents, including the posting of the required performance security **within ten (10) calendar days** from receipt of the Notice of Award.

Until a formal contract/order confirmation is prepared and signed, this Bid is binding on us.

Name of Company (in print)
Signature of Company Authorized Representative
Name and Designation (in print)
Date

Revised Annex X as of 10 July 2017

PLEASE USE THIS BID FORM. DO NOT RETYPE OR ALTER.

DEPARTMENT OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

DETAILED FINANCIAL BREAKDOWN

(QUOTED PRICE MUST BE INCLUSIVE OF VAT AND DELIVERED DUTIES PAID)

DESIGN, SUPPLY, DELIVERY, INSTALLATION, SPLICING, TESTING, COMMISSIONING, OPERATION AND MAINTENANCE OF BRAND NEW FIBER OPTIC CABLE NETWORK IN ZAMBOANGA CITY

BAC4IGOV-2017-06-00

INSTRUCTION:
-The Sum of the Detailed Financial Breakdown must be equal to the Financial Bid per Annex VII.
-Do not leave any blanks. Indicate "0" if the item is being offered for free.

ITEM	Qty	Unit Cost	Total Cost per Item
144 core, FOC, SM, 1310, Air blown or underground or buried fiber (depending on what type of fiber to be installed) 4km/drum	3 drums		
48 core, FOC, SM, 1310. Self-support (depending on what type of fiber to be installed), 4km/drum	3 drums		
Patch Cord, LC/LC	100 pcs		
Underground HDPE ducts/conduit/microducts, depends on the FOC supplied during installation	1 lot		
Other necessary materials	1 lot		
FOC Maintenance for two (2) years (Contractor must have the necessary tools, equipment, vehicles and manpower to do the preventive maintenance and restoration activities in the duration of the contract.)			
Design, Supply, Delivery, Installation, Splicing, Testing, Commissioning of Brand New Fiber Optic Cable Network in Cotabato			
144 core Optical Fiber Cable			
48 core Optical Fiber Cable			
Route Survey			
Underground installation of 4-way HDPE by microtrenching method and/or buried/conduit/directional boring) of approximately 15 kms for the backbone cable routes			
Underground installation of 144 core for Backbone Network (microtrenching method and/or buried/conduit/directional			

boring) and appurtenances for the proposed project			
Aerial or Underground installation of 48 core for Distribution Network or Fiber to the Building (microtrenching method and/or buried/conduit/directional boring) and appurtenances for the proposed project			
Design, Supply, Delivery, Installation, Splicing, Testing, Commissioning of Brand New Fiber Optic Cable Network in Cotabato			
Installation of Optical Distribution Frame (ODF)/Cabinet including patch cord/pig tails, optical fiber trays			
Termination of 144 cores FOC on PoP(Point of Presence) and 48 cores FOC on the client agencies/stations			
As-build plans of all plans and drawings (network, route, termination, splicing, etc.) required by the project			
Splicing and termination of fiber optic cable;			
Testing and commissioning (provisional and final acceptance) of newly installed FOC; and			
Restoration of all affected facilities.			
Permits			
		TOTAL	

TOTAL BID PRICE (Amount in Words):

_____

_____

BIDDER'S UNDERTAKING

I/We, the undersigned bidder, having examined the bidding documents including Bid Bulletins, as applicable hereby OFFER to (supply/deliver/perform) the above described items.

I/We undertake, if our bid is accepted, to deliver the items in accordance with the terms and conditions contained in the bid documents, including the posting of the required performance security **within ten (10) calendar days** from receipt of the Notice of Award.

Until a formal contract/order confirmation is prepared and signed, this Bid is binding on us.

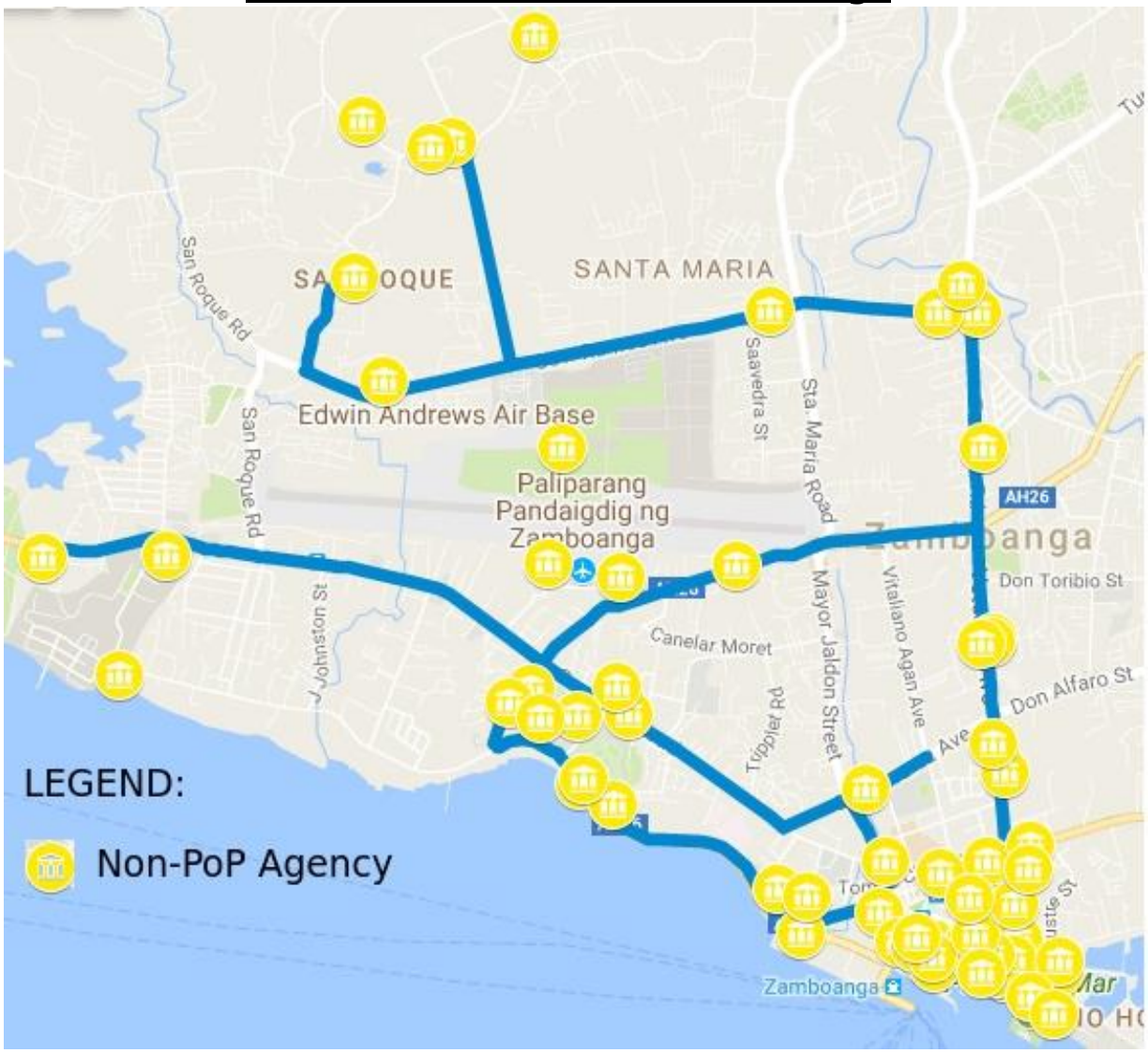
_____
Name of Company (in print)

_____
Signature of Company Authorized Representative

_____
Name and Designation (in print)

_____
Date

Amended Route Plan for Zamboanga



BAC4IGOV
REVISED CHECKLIST OF REQUIREMENTS FOR BIDDERS AS OF 10 JULY 2017

Name of Company : _____
Project Name : **DESIGN, SUPPLY, DELIVERY, INSTALLATION, SPLICING, TESTING, COMMISSIONING, OPERATION AND MAINTENANCE OF BRAND NEW FIBER OPTIC CABLE NETWORK IN ZAMBOANGA CITY**
Bid Reference No. : **BAC4IGOV-2017-06-009**
ABC : **₱34,000,000.00**

Ref. No.	Particulars	
ENVELOPE 1: ELIGIBILITY AND TECHNICAL DOCUMENTS		
ELIGIBILITY DOCUMENTS		
CLASS "A" DOCUMENTS		
12.1	**(a.1.) <u>ELIGIBILITY DOCUMENTS</u>**	
	i. PhilGEPS Certificate of Registration and Membership in accordance with Section 8.5.2 of the IRR, except for foreign bidders participating in the procurement by a Philippine Foreign Service Office or Post, which shall submit their eligibility documents under Section 23.1 of the IRR, provided, that the winning bidder shall register with the PhilGEPS in accordance with section 37.1.4 of the IRR.	
	ii. Statement of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid **(Annex I)**	
	iii. Statement of Completed Single Largest Contract from January 2012 up to the day before the deadline for the submission bids of similar in nature equivalent to at least fifty percent (50%) of the ABC. **Annex I-A**	
	1. Duly signed Net Financial Contracting Capacity Computation (NFCC)* per **Annex II,** in accordance with ITB Clause 5.5 or a committed Line of Credit from a universal or commercial bank *NFCC = [(Current Assets minus Current Liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid. **Notes:** a) **The values of the bidder's current assets and current liabilities shall be based on the data submitted to BIR through its Electronic Filing and Payment System.** b) **Value of all outstanding or uncompleted contracts refers those listed in Annex-I.** c) **The detailed computation using the required formula must be shown as provided above.** d) **The NFCC computation must at least be equal to the total ABC of the project.**	
CLASS "B" DOCUMENTS (FOR JOINT VENTURE)		
	i. For Joint Ventures, Bidder to submit either:	

<table>
<tr><td></td><td>1. Copy of the JOINT VENTURE AGREEMENT (JVA) in case the joint venture is already in existence, or
2. Copy of Protocol / Undertaking of Agreement to Enter into Joint Venture signed by all the potential join venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful. (Annex III)
<u>The JVA or the Protocol/Undertaking of Agreement to Enter into Joint Venture (Annex III) must include/specify the company/partner and the name of the office designated as authorized representative of the Joint Venture.</u>
For Joint Venture, the following documents must likewise be submitted by each partner:
• PhilGEPS Certificate of Registration and Membership in accordance with Section 8.5.2 of the IRR, except for foreign bidders participating in the procurement by a Philippine Foreign Service Office or Post, which shall submit their eligibility documents under Section 23.1 of the IRR, provided, that the winning bidder shall register with the PhilGEPS in accordance with section 37.1.4 of the IRR.</td><td></td></tr>
<tr><td></td><td>For item (ii) to (iv) of the required eligibility documents, submission by any of the Joint Venture partner constitutes compliance.</td><td></td></tr>
<tr><td colspan="3">TECHNICAL DOCUMENTS</td></tr>
<tr><td>12.1
(b)(i)</td><td>Bid security shall be issued in favor of the DEPARTMENT OF INFORMATION AND COMMUNICATIONS TECHNOLOGY (DICT) valid at least one hundred twenty (120) days after date of bid opening in any of the following forms:
a) BID SECURING DECLARATION per Annex IV; or
b) Cashier’s / Manager’s Check equivalent to at least 2% of ABC issued by a Universal or Commercial Bank.
c) Bank Draft / Guarantee or Irrevocable Letter of Credit issued by a Universal or Commercial Bank equivalent to at least 2% of the ABC: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank
d) Surety Bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to at least 5% of the ABC
<table>
<tr><td colspan="2">Description</td><td>DESIGN, SUPPLY, DELIVERY, INSTALLATION, SPLICING, TESTING, COMMISSIONING, OPERATION AND MAINTENANCE OF BRAND NEW FIBER OPTIC CABLE NETWORK IN ZAMBOANGA CITY</td></tr>
<tr><td colspan="2">Qty</td><td>1 lot</td></tr>
<tr><td colspan="2">Total ABC (PhP)
(VAT Inclusive)</td><td>34,000,000.00</td></tr>
<tr><td rowspan="4">BID SECURITY</td><td>Cashier’s / Manager’s Check equivalent to at least 2% of the ABC (PhP)</td><td>640,000.00</td></tr>
<tr><td>Bank Draft / Guarantee or Irrevocable Letter of Credit equivalent to at least 2 % of the ABC (PhP)</td><td></td></tr>
<tr><td>Surety Bond equivalent to at least 5% of the ABC (PhP)</td><td>1,600,000.00</td></tr>
<tr><td>Bid Securing Declaration</td><td>No required percentage</td></tr>
</table></td><td></td></tr>
<tr><td>12.1
(b)(ii)</td><td>Proof of Authority of the Bidder’s authorized representative/s:
a) FOR SOLE PROPRIETORSHIP (IF OWNER OPTS TO APPOINT A REPRESENTATIVE):</td><td></td></tr>
</table>

	Duly notarized Special Power of Attorney b) **FOR CORPORATIONS, COOPERATIVE OR THE MEMBERS OF THE JOINT VENTURE:** Duly notarized Secretary's Certificate evidencing the authority of the designated representative/s. c) **IN THE CASE OF UNINCORPORATED JOINT VENTURE:** Each member shall submit a separate Special Power of Attorney and/or Secretary's Certificate evidencing the authority of the designated representative/s.	
12.1 (b)(iii)	Omnibus Sworn Statements using the form prescribed. **(Annex V)**	
	a) Authority of the designated representative	
	b) Non-inclusion of blacklist or under suspension status	
	c) Authenticity of Submitted Documents	
	d) Authority to validate Submitted Documents	
	e) Disclosure of Relations	
	f) Compliance with existing labor laws and standards	
	g) Bidder's Responsibility	
	h) Did not pay any form of consideration	
	i) Company Official Contact Reference	
12.1 (b)(iv)	Company Profile **(Annex VI).** Company printed brochure may be included	
12.1 (b)(v)	Vicinity / Location of Bidder's principal place of business	
12.1 (b)(vi)	Certificate of Performance Evaluation **(Annex VII)** showing a rating at least Satisfactory issued by the Bidder's Single Largest Completed Contract Client stated in the submitted Annex I-A;	
12.1 (b)(vii)	Completed and signed **Revised Technical Bid Form as of 10 July 2017 (Annex VIII)**	
12.1 (b)(viii)	Brochure (original or internet download) / Technical Data Sheet or equivalent document	
12.1 (b)(ix)	Valid and Current Certificate of Distributorship / Dealership/ Resellership of the following product being offered, issued by the principal or manufacturer of the product (if Bidder is not the manufacturer). If not issued by manufacturer, must also submit certification / document linking bidder to the manufacturer	
12.1 (b)(x)	**Valid and current ISO 9001 Quality Management System Certificate issued to the manufacturer of the offered Fiber Optic Cable**	
12.1 (b)(xi)	Written Statement of the contractor signed by their authorized representative that they have at least 10 years of direct experience on planning, engineering, supply and delivery, installation, testing and commissioning and experience in operations and maintenance of optical fiber transmission backbone projects/systems with major telecommunications carriers in the Philippines;	
12.1 (b)(xii)	Contractor shall submit resume of key personnel to be assigned to the project. These key personnel are the; PECE, Project Manager; Project Engineer, Outside Plant Supervisor;	
12.1 (b)(xiii)	Must hold a PCAB License on Communications Facilities for a minimum of 5 consecutive years from the date of Bid Opening. (In case of renewal, the bidder must submit PCAB application and Official Receipt)	
12.1 (b) (xiv)	Compliance with the **Revised Schedule of Requirements as of 10 July 2017** as per Section VI	

<table>
<tr><td>12.1 (b)(xv)</td><td>Compliance with the <u>Revised Technical Specifications as of 10 July 2017</u> as per Section VII</td><td></td></tr>
<tr><td colspan="3">ENVELOPE 2: FINANCIAL DOCUMENTS</td></tr>
<tr><td>13.1 (a)</td><td>Completed and signed Financial Bid Form. Bidder must use, accomplish and submit Financial Bid Form hereto attached Annex IX.
<table>
<tr><th>Description</th><th>Qty</th><th>ABC ₱ (VAT Inclusive)
Total</th></tr>
<tr><td>DESIGN, SUPPLY, DELIVERY, INSTALLATION, SPLICING, TESTING, COMMISSIONING, OPERATION AND MAINTENANCE OF BRAND NEW FIBER OPTIC CABLE NETWORK IN ZAMBOANGA CITY</td><td>1 Lot</td><td>34,000,000.00</td></tr>
</table>
The ABC is inclusive of VAT. Any proposal with a financial component exceeding the ABC shall not be accepted. Further, the sum of bid for each item indicated in the Revised Detailed Financial Breakdown as of 10 July 2017 per Annex X must be equal to the signed and submitted Financial Bid Form per Annex IX.</td><td></td></tr>
<tr><td>13.1 (a)</td><td><u>Revised Detailed Financial Breakdown as of 10 July 2017 per Annex X</u></td><td></td></tr>
<tr><td>15.4(a) (i) & 15.4(b) (ii)</td><td>Completed “For Goods Offered from Abroad” and/or “For Goods Offered From Within the Philippine” Forms per Annex IX-A and Annex IX-B, whichever is applicable.</td><td></td></tr>
<tr><td>13.1 (b)</td><td>If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a Certification from the DTI, SEC or CDA to be enclosed pursuant to the Revised IRR of R.A. 9184.</td><td></td></tr>
<tr><td>NOTE:</td><td>In case of inconsistency between the Checklist of Requirements for Bidders and the provisions in the Instruction to Bidders/Bid Data Sheet, the Instruction to Bidders/Bid Data Sheet shall prevail</td><td></td></tr>
</table>