

Special Bids and Awards Committee (SBAC)

**DESIGN, BUILD AND ESTABLISHMENT OF THE NATIONAL FIBER BACKBONE - PHASE 1  
(NFBP1)**

**ERRATA NOTICE**

Please be advised that the items in the Detailed Cost Estimates (DCE) should be the same as all items in the Bill of Quantities/Materials (BOQ). Hence, the Detailed Cost Estimates Forms for Fiber Optic Build Network (FOC) and Optical Transport Network (OTN) that the bidders should use should be the updated Detailed Cost Estimates Forms for FOC and OTN attached in this Notice. Also attached in this Notice is the Checklist and Tabbing Requirements of Bidding Documents for the project for the proper guidance of the bidders.

This is being issued to correct the DCE Forms for FOC and OTN attached in the Bid Bulletin No. 2 issued on 08 March 2021.

Issued on 11 March 2021.

**Special Bids and Awards Committee (SBAC) for National Fiber Backbone - Phase 1**

  
**AILEEN ANUNCIACION R. ZOSA**  
Chairperson, SBAC for NFB-Phase 1

*Erratum Notice for NFB – Phase 1 project  
March 2021 / Version 1*

**DETAILED COST ESTIMATES**  
National Fiber Backbone - Phase 1

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) (5) X (8)	(10) 12% ((5)+(9))	(11) (9)+(10)	(12) (5)+(11)	(13) (12)/(3)
<b>FIBER OPTIC BUILD NETWORK</b>												
1	<b>48c Segment 1: NGCP Bauang- SFLU ICLS, 6.13km</b>											
	1. FOC, 4.19km/drum	2	drums									
	2. Manhole, with MH/HH accessories	7	lots									
	3. Optical Joint Enclosure, with kits and accessories	1	set									
	4. Optical Distribution Frame, with kits and accessories	2	sets									
	5. Cable Entrance Facility	2	lots									
2	<b>48c Segment 2: DICT Roces - NGCP Araneta, 3.0km</b>											
	1. FOC, 4.19km/drum	1	drums									
	2. Manhole, with MH/HH accessories	4	lots									
	3. Optical Joint Enclosure, with kits and accessories	0										
	4. Optical Distribution Frame, with kits and accessories	2	sets									
	5. Cable Entrance Facility	2	lots									
3	<b>48c Segment 3: NGCP Subic - DICT NGDC3, 6.58km</b>											
	1. FOC, 4.19km/drum	2	drums									
	2. Manhole, with MH/HH accessories	8	lots									
	3. Optical Joint Enclosure, with kits and accessories	1	set									
	4. Optical Distribution Frame, with kits and accessories	2	sets									
	5. Cable Entrance Facility	2	lots									
4	<b>48c Segment 4: NGCP La Trinidad - DICT Baguio PoP, 4.8km</b>											
	1. FOC, 4.19km/drum	2	drums									
	2. Manhole, with MH/HH accessories	6	lots									
	3. Optical Joint Enclosure, with kits and accessories	1	set									
	4. Optical Distribution Frame, with kits and accessories	2	sets									
	5. Cable Entrance Facility	2	lots									
5	<b>48c Segment 5: DICT Baguio PoP - BCDA Camp John Hay, 5.23km</b>											
	1. FOC, 4.19km/drum	2	drums									
	2. Manhole, with MH/HH accessories	7	lots									
	3. Optical Joint Enclosure, with kits and accessories	1	set									
	4. Optical Distribution Frame, with kits and accessories	2	sets									
	5. Cable Entrance Facility	2	lots									
<b>48c Segment 6: DICT SFLU ICLS - BCDA PPMC, 2.8km</b>												

## National Fiber Backbone - Phase 1

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) (5) X (8)	(10) 12% ((5)+(9))	(11) (9)+(10)	(12) (5)+(11)	(13) (12)/(3)
6	1. FOC, 4.19km/drum	1	drum									
	2. Manhole, with MH/HH accessories	4	lots									
	3. Optical Joint Enclosure, with kits and accessories	0										
	4. Optical Distribution Frame, with kits and accessories	2	sets									
	5. Cable Entrance Facility	2	lots									
<b>48c Segment 7: NGCP Concepcion - BCDA NGAC, 15.1km</b>												
7	1. FOC, 4.19km/drum	4	drums									
	2. Manhole, with MH/HH accessories	16	lots									
	3. Optical Joint Enclosure, with kits and accessories	3	set									
	4. Optical Distribution Frame, with kits and accessories	2	sets									
	5. Cable Entrance Facility	2	lots									
<b>48c Segment 8: NGCP Clark - BCDA Clark FPZ, 9.8km</b>												
8	1. FOC, 4.19km/drum	3	drums									
	2. Manhole, with MH/HH accessories	11	lots									
	3. Optical Joint Enclosure, with kits and accessories	2	set									
	4. Optical Distribution Frame, with kits and accessories	2	sets									
	5. Cable Entrance Facility	2	lots									
<b>48c FOC stub, 11 sites</b>												
9	1. FOC, 4.19km/drum	1	drums									
	2. Manhole, with MH/HH accessories	11	lots									
	3. Optical Joint Enclosure, with kits and accessories	11	set									
	4. Optical Distribution Frame, with kits and accessories	11	sets									
	5. Cable Entrance Facility	11	lots									
<b>144c miniFOC: DICT SFLU ICLS - DICT Baler, 250km</b>												
10	1. FOC, 4.19km/drum	63	drums									
	2. Optical Joint Enclosure, with kits and accessories	62	sets									
	3. Optical Distribution Frame, with kits and accessories	3	sets									
11	7-way HDPE Microducts, 1km incl of kits and accessories	57	drums									
12	TELECOM Poles, 10m, with pole hardwares	12	sets									
13	Spares, section 1.2	1	lot									

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### National Fiber Backbone - Phase 1

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
								(5) X (8)	12% ((5)+(9))	(9)+(10)	(5)+(11)	(12)/(3)
14	Other kits and accessories, hardwares, ancillaries but not limited to earthing/grounding materials, bridge/culvert brackets/hanger kits, GI & PVC 4" Pipes, cable organizers, cable trays/ladders, conduit/microduct plugs, etc., necessary for the establishment and operation of the Fiber Optic Cable Build project.	1 lot	lot									
<b>TOTAL COST</b>												

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**DETAILED COST ESTIMATES**  
National Fiber Backbone - Phase 1

ITEM NO. (1)	DESCRIPTION (2)	QUANTITY (3)	UNIT (4)	ESTIMATED DIRECT COST (5)	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT (10) 12% ((5)+(9))	TOTAL INDIRECT COST (11) (9)+(10)	TOTAL COST (12) (5)+(11)	UNIT COST (13) (12)/(3)
					OCM (6)	PROFIT (7)	% (8)	VALUE (9) (5) X (8)				
<b>OPTICAL TRANSPORT NETWORK</b>												
1	DWDM/ ROADM Broadband System											
	a. DWDM/ ROADM	24	sets									
	b. In-Line Amplifier (ILA)	1	set									
3	<b>NMS</b>											
	1. Base Software	1	lot									
	2. License											
3. Server												
3	<b>Power and Backup Power System</b>											
	a. Rectifier	2	sites									
	b. Battery	2	sites									
	c. Genset	2	sets									
	d. Fuel Tank	1	set									
	e. Air Conditioning Unit	2	sets									
4	<b>Spares</b>	1	lot									
5	Other hardware peripherals, ancillaries, accessories but not limited to pluggable modules, SFPs, patch cords, distribution panels, circuit breakers, grounding busbars/rods/cable, cable trays, etc. for the operation of the Optical Transport Network	1	lot									
<b>TOTAL COST</b>												

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BASES CONVERSION AND DEVELOPMENT AUTHORITY

**Design and Build of the  
National Fiber Backbone Project Phase I**

**CHECKLIST AND TABBING REQUIREMENTS OF BIDDING DOCUMENTS**

<b>CHECKLIST AND TABBING REQUIREMENTS OF BIDDING DOCUMENTS</b>		
<b>&gt; ORIGINAL ENVELOPE</b>		
	Eligibility and Technical Component (Original)	
	Financial Component (Original)	
<b>&gt; COPY NO.1 ENVELOPE</b>		
	Eligibility and Technical Component (Copy No. 1)	
	Financial Component (Copy No. 1)	
<b>FIRST ENVELOPE - ELIGIBILITY &amp; TECHNICAL COMPONENT</b>		
<b>NO.</b>	<b>DESCRIPTION</b>	<b>TAB</b>
1	Authority of Signatory (with Secretary's Certificate if Corporation)	"A"
2	Authority of Signatory for JV/Consortium, if applicable	"B"
3	PhilGEPS Platinum Certificate of Registration (3 Pages)	"C"
	If PhilGEPS Certificate is not present, submit: -Class "A" Documents: -SEC/DTI/CDA Registration -Mayor's/Business Permit -Tax Clearance -AFS	
4	Statement of all ongoing government & private contracts (Non-Disclosure may be grounds for disqualification) a) Notice of Award / Notice to Proceed b) Contract	"D"
5	Statement of Single Largest Completed Contract (SLCC) - Similar project completed in 2011-2020 - Similar project cost at least 50% of ABC - at least 100km of laid Fiber Optic Cable (aggregate?) - with components of HDD, Fiber blowing in a Microduct - and a Manufacturer's authorization as an accredited reseller of the proposed equipment to be supplied a) Certificate of Acceptance or Completion b) Contract c) OPTIONAL: Contract Value Adjusted to Current Prices issued by the PSA	"E"
6	Special PCAB License in case of JV / Consortium (PCAB license of AAA Large B, PCAB License must be in General Engineering, General Building, Electrical Works, or Communication Facilities)	"F"
7	Valid JV/Consortium Agreement	"G"
8	NFCC computations	"H"
9	Valid Bid Security (any of the following) Bid Securing Declaration Cash/ cashier's/ manager's check issued by universal or commercial bank Surety bond	"I"
10	Organizational Chart for the contract to be bid	"J"
11	List of key personnel (List of contractor's personnel nominated/to be assigned to the project with their complete qualification and experience data. Personnel must meet the required minimum qualifications and years of experience set in the BDS) (CV and Lic for PM, STE) plus BOSH/COSH for Safety Officer The licenses and certifications/accreditations of the nominated personnel must be valid during the submission of bids. If expired, the bidder must submit proof of renewal. a) Project Manager - 1 b) Senior Telecommunications Engineers - 5 c) Safety Officer/s - 1 d) OPTIONAL: List of Additional Personnel proposed by the Bidder	"K"
12	Certificate of Availability of Personnel	"L"
13	List of required equipment (Owned, Under Purchase Agreement and/or Under Lease Agreement) a) Cable Plough / Trenching Machine - minimum of 4 units b) Horizontal Directional Drill (HD) Machine - minimum of 4 units	"M"

	c) Crane/Boom Truck - minimum of 5 units	
	d) Fiber Blowing Machine and Air Compressor - minimum of 4 units	
	e) Arc Fusion Machine - minimum of 4 units	
	f) Optical Spectrum Analyzer - minimum of 2 units	
	g) Bit Error Rate Test Analyzer - minimum of 4 units	
	h) Optical Time-Domain Reflectometer - minimum of 2 units	
	i) Optical Power Meter / Optical Light Source - minimum of 4 units	
	j) Service Vehicles (FOC Build Component) - minimum of 4 units	
	k) Service Vehicles (Transponder) - minimum of 4 units	
	l) Service Vehicles (Optical Transport Component) - minimum of 3 units	
	m) OPTIONAL: List Additional Equipment proposed by the Bidder	
14	<b>For Equipment Owned</b>	"N"
	a) Certificate of Availability of Equipment	
	b) Proof of Ownership (Deed of Sale, ORCR, etc. must indicate the Equipment's Capacity and	
15	<b>For Equipment under Purchase Agreement</b>	"O"
	a) Certificate of Availability of Equipment signed by Equipment Vendor	
	b) Purchase Agreement	
16	<b>For Equipment under Lease Agreement</b>	"P"
	a) Certificate of Availability of Equipment signed by Lessor	
	b) Lease Agreement	
	c) Proof of Ownership to the Lessor (Deed of Sale, ORCR, etc.)	
17	Omnibus Sworn Statement	"Q"
	ALL PAGES MUST BE SIGNED or INITIALED by Bidder's Authorized Signatory	
18	Summary of Technical Specifications	"R"
	<b>Document Submission for the Components of the NFBP1:</b>	
19	<b>Fiber Optic Cable Build (Component 1)</b>	"S"
	Design, Supply, Build, Delivery, Installation, Testing, Commissioning, Acceptance of 7-way HDPE micro ducts, manholes, handholes, telecommunication poles, air-blown mini fiber optic cable, optical joint enclosures, optical distribution frames, and their corresponding accessories.	
	a) Preliminary Conceptual Design Plans in accordance with the degree of details specified by the Procuring Entity;	
	b) Design and construction methods;	
	c) Value engineering analysis of design and construction method	
	d) Manufacturer's Authorization that the Bidder is an accredited reseller of the proposed FOC to be supplied	
	e) Manufacturer's Authorization that the Bidder is an accredited reseller of the proposed HDPE Ducts to be supplied	
20	<b>Transponder Component (Component 2)</b>	"T"
	Design, Supply, Build, Delivery, Installation, Commissioning, Integration, Testing, Acceptance of Transponder/Muxponder Equipment System, Power System, Network Management System (NMS), and Data Communications Network (DCN) (herein referred to as "Transponder")	
	a) Preliminary Conceptual Design Plans in accordance with the degree of details specified by the Procuring Entity;	
	b) Design and construction methods;	
	c) Value engineering analysis of design and construction method	
	d) Manufacturer's Authorization that the Bidder is an accredited reseller of the proposed Transponder to be supplied.	
	e) Any document such as but not limited to: Brochure, Manuals, and/or Website, from the Manufacturer that the spare parts for the equipment to be supplied will be available for at least ten (10)	
	f) Any document from the Manufacturer that the equipment to be supplied should not reach its End of Life in the next 5 years	
21	<b>Optical Transport Network (Component 3)</b>	"U"
	Design, supply, delivery and installation, testing, commissioning and integration of twenty-five (25) Dense Wavelength Division Multiplexing (DWDM)/Reconfigurable Optical Add-Drop Multiplexer (ROADM) and amplifier equipment with three (3) fiber-bypass site connections, Network Management System (NMS), support facilities, materials and services needed at identified NGCP and DICT sites	

	a) Preliminary Conceptual Design Plans in accordance with the degree of details specified by the Procuring Entity;	
	b) Design and construction methods;	
	c) Value engineering analysis of design and construction method	
	d) Manufacturer's Authorization that the Bidder is an accredited reseller of the proposed Optical Transport Network System to be supplied	
	e) Manufacturer's Authorization that the Bidder is an accredited reseller of the proposed Generator Set to be supplied	
	f) Value engineering analysis of design and construction method Any document such as but not limited to: Brochure, Manuals, and/or Website, from the Manufacturer that the spare parts for the equipment to be supplied will be available for at least ten (10) years.	
	g) Value engineering analysis of design and construction method Any document such as but not limited to: Brochure, Manuals, and/or Website, from the Manufacturer that the equipment to be supplied should not reach its End of Life in the next 5 years	
22	<b>100Gbps IP Transit (Component 4)</b> Supply, Delivery, Testing, Integration, and Acceptance of 100 Gbps IP Transit from Los Angeles, California, USA Internet Service Providers (herein referred to as "100Gbps IP Transit")	"V"
	a) Certificate that the Bidder can provide the required IP Transit	
	i. Preliminary Conceptual Design Plans in accordance with the degree of details specified by the procuring entity;	(if applicable)
	ii. Design and construction methods;	
	iii. Value engineering analysis of design and construction method	
23	Presentation of Bidder of their Technology that they are Proposing for the NFBP1 Criteria: 1. Component 1 2. Component 2 3. Component 3 4. Component 4	
<b>SECOND ENVELOPE: FINANCIAL COMPONENT</b>		
<b>ABC = PhP 1,250,000,000.00</b>		
24	Financial Bid (Bid Amount in Words and in Numerals. Discount and Performance Security must not be left blank)	
25	Bid Prices in the Bill of Quantities	
	BOQ: Component 1	
	BOQ: Component 2	
	BOQ: Component 3	
	BOQ: Component 4	
	BOQ: Supplemental	
26	Daywork Rates for materials, labor and equipment	
27	Cash Flow and Payment Schedule	
	All pages must be signed or initialed by the Bidder's Authorized Signatory	
28	Detailed Cost Estimates - Design	
	Detailed Cost Estimates - FOC Build (Component 1)	
	Detailed Cost Estimates - Transponders (Component 2)	
	Detailed Cost Estimates - OTN (Component 3)	
	Detailed Cost Estimates - IP Transit (Component 4)	
	Detailed Cost Estimates - Supplemental	

Note: Check for issuance of Advisories or Bid Bulletins at <https://www.bcda.gov.ph/bids/>

Each and every page of the Bid Form, including the Bill of Quantities, shall be signed by the duly authorized representative/s of the Bidder. Failure to do so shall be a ground for the rejection of the Bid.