## **DETAIL OF PROJECT COSTS**

PLEASE COMPLETE THE TABLE BELOW FOR THE DIFFERENT CATEGORIES OF EQUIPMENT THAT WILL BE REQUIRED FOR COMPLETING THE PROJECT. EACH CATEGORY SHOULD BE BROKEN DOWN TO THE APPROPRIATE LEVEL FOR IDENTIFYING UNIT COST

SERVICE AREA or COMMON NETWORK FACILITES:		Eligibility (Yes/No)	U	nit Cost	No. of Units	Total Cost	Support of Reasonableness	
NETWORK & ACCES	S EQUIPMENT					\$7,344,207.80		
	LTE CORE	Yes	9	1,257,500.00	1	\$1,257,500.00	Last-Mile	
Switching						\$0.00		
<u> </u>						\$0.00		
						\$0.00		
Routing						\$0.00		
touting								
					48 (38 NEW	\$0.00		
	MICROWAVE RADIOS.				LINKS AND 10			
	ANTENNAS, CABLES,				LINKS TO			
Fransport	ACCESORIES	Yes	\$	45 737 20	UPGRADE	\$2,195,385.60	Middle-Mile	
Tanaport	MW NETWORK	103	Ψ	-13,131.20	OI GIVIDE	Ψ2,175,565.00	Princip Princip	
	MANAGEMENT SYSTEM	Yes	\$	47,500.00	1	\$47,500.00	Middle-Mile	
	THE WASHINGTON	( <del></del>	*	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	\$0.00		
	LTE BTS-ENODEB	Yes	s	56,350.00	40	\$2,254,000.00		
	Power Cabinet w/ battery	Yes	\$	4,800.00	40	\$192,000.00		
Access	ANTENNAS (KATHREIN 84-	res	Þ	4,800.00	40	\$192,000.00	Last-wille	
	212280)	Yes	\$	956.25	120	\$114,750.00	Last Mila	
	HELIAX CABLE (AVA7)	Yes	\$	10.50	23,331.60	\$244.981.80		
	` '		3	10.50		, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,		
	Tower Hardware	Yes			40	\$0.00	Last-Mile	
Other	Switch/BTS Installation and	3.7		020 000 40		#1 020 000 10	T	
	integration	Yes	\$ 1	,038,090.40	1	\$1,038,090.40		
DUTOIDE DI ANT						0		
DUTSIDE PLANT	Ten C /I . n /					\$26,276,841.39		
	Fiber Construction / Installation /	Yes	\$	31,561.42	530 Miles	\$16,727,552.60	Middle-Mile (Construction Estimates)	
	Testing Fiber Lateral Construction to	res			330 Miles	\$10,727,332.00	Middle-Mile (Construction Estimates)	
Cables	sites / Installation / Testing	Yes	\$	15,022.28	20 Miles	\$300,445.60		
	sites / Histanation / Testing	165			20 Miles	\$0.00		
						\$0.00		
	Fiber Backbone to Chapter House					\$0.00	Middle-Mile (Manufacture Estimates)	
	Pidei Backboile to Chapter House	Yes	\$1.00	/FT	83,741	\$83,741.00		
Conduits	Fiber Backbone to Tower	Yes	\$1.00		11,194	. ,	Middle-Mile (Manufacture Estimates)	
	Fiber to Substation	Yes	\$1.00		4,620		Middle-Mile (Manufacture Estimates)	
	1 loci to Substation	1 08	\$1.00	/ 1 · 1	4,020	. ,	` '	
D4-			-			\$0.00		
Ducts						\$0.00		
						\$0.00		
	NTUA Electric Poles	Yes	\$	287.53	6,956	\$2,000,058.68	Middle Mile (Using Existing Poles)	
Poles						\$0.00		
						\$0.00		
						ψ0.00		
	Power Connection to Tower Sites	Yes	\$	22,000.00	32	\$704,000.00	Middle-Mile	
	120 ft Lite site	Yes	\$	61,858,44	3		Middle-Mile	

<b> _</b>	180 ft SST	Yes	\$ 146,413.14	25	\$3,660,328.50	Middle-Mile
Towers	45 ft Pole	Yes	\$ 39,162.18	2	\$78,324.36	Middle-Mile
	65 ft Lite Site	Yes	\$ 34,266.67	1	\$34,266.67	Middle-Mile
	60 ft SST	Yes	\$ 75,654.21	1	\$75,654.21	Middle-Mile
	20 ft extension	Yes	\$ 13,350.74	1	\$13,350.74	Middle-Mile
	Regeneration Equipment	Yes	\$ 1,454,600.00	1	\$1,454,600.00	Middle-Mile (Hitachi )
	DACS	Yes	\$ 32,822.73	5	\$164,113.65	Middle-Mile (Sycamore)
Repeaters	Routers	Yes	\$ 275.00	50	\$13,750.00	Middle-Mile (Hitachi )
	Switches	Yes	\$ 4,936.76	35	\$172,786.46	Middle- Mile (Cisco / Ciena)
	Electronics Installation	Yes	\$ 252,480.00	1	\$252,480.00	Middle Mile (Config/Install)
	Electrical	Yes	\$ 3,500.00	40	\$140,000.00	Last-Mile
Other	Tower Work	Yes	\$ 5,000.00	40	\$200,000.00	Last-Mile
					\$0.00	

SERVICE AREA or COMMON NETWORK FACILITES:		Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
BUILDINGS					\$2,104,000.00	
	Data Center	Yes	\$ 700,000.00	1	\$700,000.00	Middle-Mile
New Construction					\$0.00	
					\$0.00	
	12'X10' site shelters	Yes	\$ 30,000.00	36	\$1,080,000.00	Middle-Mile
Pre-Fab Huts					\$0.00	
					\$0.00	
					\$0.00	
Improvements &					\$0.00	
Renovation					\$0.00	
	Utilities	Yes	\$ 5,000.00	36	\$180,000.00	Middle-Mile
Other	Back up Generators	Yes	\$ 4,000.00	36	\$144,000.00	i
			,		\$0.00	
CUSTOMER PREMISE E	QUIPMENT				\$1,883,000.00	
	Interior LTE modem	Yes	\$165.00	1,500	\$247,500.00	
Modems	Exterior LTE modem	Yes	\$225.00	1,500	\$337,500.00	1
	Exterior ETE modem	105	<b>\$225.00</b>	1,500	\$0.00	
					\$0.00	
Set Top Boxes					\$0.00	
					\$0.00	
					\$0.00	
Inside Writing					\$0.00	
g					\$0.00	
	Dongle LTE device for laptop				\$0.00	
	access	Yes	\$ 94.00	4,500	\$423,000.00	Last-Mile
Other	PC Netbooks	Yes	\$ 350.00	2,500	\$875,000.00	Last-Mile
				, i	\$0.00	
BILLING SUPPORT AND	<b>OPERATIONS SUPPORT SYSTE</b>	MS			\$250,000.00	
	Billing and customer support				,,	
Billing Support	software		\$ 250,000.00	1	\$250,000.00	Last-Mile
Systems					\$0.00	
					\$0.00	
Customer Core					\$0.00	
Customer Care Systems					\$0.00	
Systems					\$0.00	
					\$0.00	
Other Support					\$0.00	
					\$0.00	

SERVICE AREA or COMMON NETWORK FACILITES:		Eligibility (Yes/No)		Unit Cost	No. of Units	Total Cost	Support of Reasonableness
OPERATING EQUIPMENT						\$1,072,000.00	
	Cable / Crew Trucks	Yes	\$	56,000.00	2	\$112,000.00	Middle-Mile
	Bucket Trucks	Yes	\$	175,000.00	4	\$700,000.00	Middle-Mile
Vehicles	Splicing Trailors	Yes	\$	20,000.00	3	\$60,000.00	Middle-Mile
	Wire Pulling Trailors	Yes	\$	50,000.00	4	\$200,000.00	Middle-Mile
				Í		\$0.00	
						\$0.00	
Office Equipment /						\$0.00	
Furniture						\$0.00	
						\$0.00	
Other						\$0.00	
						\$0.00	
PROFESSIONAL SERVICES	\$					\$6,036,788.34	
. NOI LOUIGIAL BLICVIOLS	MW ENGINEERING	Yes	\$	5,677.08	48		Middle-Mile
Engineering	ROW Preperation	Yes	\$	650,000.00	1		Middle-Mile
Design	Fiber Optics Engineering	Yes	\$	1,663.45	550 Miles		Middle-Mile
	Site Drawings	Yes	\$	2,500.00	32		Middle-Mile
	Filing Fees	Yes	\$	300.00	32		Middle-Mile
Project	Civil Work	Yes	\$	2,500.00	32		Middle-Mile
Management	CIVII WOIK	168	φ	2,300.00	32	\$60,000.00	iviiddie-iviiie
	Fiber Optics Project Management	Yes	\$	3,652.87	550 Miles	\$1,925,870.50	Middle-Mile
	Site Acq. And Env. Permit	Yes	\$	5,000.00	32		Middle-Mile
Consulting	Fiber Optics Engineering	Yes	\$	671,760.66	1		Middle-Mile
			_	,		\$0.00	
	MW Interference Studies,					ψ0.00	
	Coordination and MW FIXED						
	PTP Licensing	Yes	\$	2,864.58	48	\$137,499.84	Middle-Mile
	Fiber Construction Crew Tools	Yes	\$	75,000.00	2	\$150,000.00	Middle-Mile
Other	Survey Equipment	Yes	\$	10,000.00	1	\$10,000.00	Middle-Mile
	Fiber Optic Test Equip.	Yes	\$	68,000.00	1	\$68,000.00	Middle-Mile
	Installation, Integration	Yes	\$	17,263.75	48	\$828,660.00	Middle-Mile
	Wireless Test Equipment	Yes	\$	78,000.00	1	\$78,000.00	Last-Mile
TESTING						\$0	
Network						0	
Elements						0	
IT System						0	
Elements						0	
						0	
User Devices						0	
	<u> </u>					0	
Test Generators						0	
Lab						0	
Furnishings			-			0	
Servers /						0	
Computers							
Computers						0	

	SERVICE AREA or COMMON NETWORK FACILITES:		Unit Cost		No. of Units	Total Cost	Support of Reasonableness
OTHER UPFRONT COSTS	OTHER UPFRONT COSTS					\$935,764.70	
	Network Operating Center and						
Site	Data Center	Yes	\$	210,000.00	1	\$ 210,000.00	Middle-Mile
Preparation	Tower Sites	Yes	\$	16,235.29	33	\$535,764.70	Middle-Mile
						0	
	Application Prep cost			\$100,000.00	1	\$100,000.00	Middle-Mile
Other	Shipping	Yes	\$	90,000.00	1	\$90,000.00	Last-Mile
						0	
					PROJECT TOTAL:	\$45,902,602.23	

### APPLICANT'S NAME

## **BUDGET INFORMATION - Construction Programs**

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case, you will be notified.

COST CLASSIFICATION	a. Total Cost	b. Matching Funds (Cash)	c. Matching Funds (In-Kind)	d. Federal Funding Request (Columns a-b-c)	
Administrative and legal expenses	\$100,000	\$0	\$0	\$100,000	
2 . Land, structures, rights-of-way, appraisals, etc.	\$890,000	\$250,000	\$0	\$640,000	
Relocation expenses and payments	\$0	\$0	\$0	\$0	
Architectural and engineering fees	\$1,996,658	\$800,000	\$0	\$1,196,658	
Other architectural and engineering fees	\$9,600	\$0	\$0	\$9,600	
6. Project inspection fees	\$0	\$0	\$0	\$0	
7. Site work	\$3,529,823	\$0	\$0	\$3,529,823	
Demolition and removal	\$0	\$0	\$0	\$0	
9. Construction	\$36,736,021	\$12,171,577	\$0	\$24,564,444	
10. Equipment	\$2,253,000	\$490,958	\$0	\$1,762,042	
11. Miscellaneous	\$387,500	\$0	\$0	\$387,500	
12. SUBTOTAL (add #1 through #11)	\$45,902,602	\$13,712,535	\$0	\$32,190,067	
13. Contingencies	\$0	\$0	\$0	\$0	
14. SUBTOTAL (add #12 and #13)	\$45,902,602	\$13,712,535	\$0	\$32,190,067	
15. Project (program) income	\$0	\$0	\$0	\$0	
16. TOTAL PROJECT COSTS (subtract #15 from #14)	45,902,602	13,712,535	0	32,190,067	
	FEDERAL FUNDING	9			
17. Federal assistance requested, calculated as follows: (Consult Federal agency for Federal percentage share.) Enter the resulting Federal share.	\$13,712,535				

# **General Budget Overview**

Budget	Loan Request	Federal Funding Request	Matching Funds (Cash)	Matching Funds (In-Kind)	Equity	Debt	Bond	Other	TOTAL
Network & Access Equipment (switching,									
routing, transport, access)		\$5,144,208	\$2,200,000						\$7,344,208
Outside Plant (cables, conduits, ducts,									
poles, towers, repeaters, etc.)		\$17,776,841	\$8,500,000						\$26,276,841
Buildings and Land – (new construction,									
improvements, renovations, lease)		\$1,504,000	\$600,000						\$2,104,000
Customer Premise Equipment (modems, set-									
top boxes, inside wiring, etc.)		\$1,661,423	\$221,577						\$1,883,000
Billing and Operational Support Systems (IT									
systems, software, etc.)		\$250,000	\$0						\$250,000
Operating Equipment (vehicles, office									
equipment, other)		\$497,834	\$490,958						\$988,792
Engineering/Professional Services									
(engineering design, project management,									
consulting, etc.)		\$4,419,996	\$1,700,000						\$6,119,996
Testing (network elements, IT system									
elements, user devices, test generators, lab									
furnishings, servers/computers, etc.)									\$0
Site Preparation		\$745,765						·	\$745,765
Other		\$190,000							\$190,000
TOTAL BROADBAND SYSTEM:	\$0	\$32,190,067	\$13,712,535	\$0	\$0	\$0	\$0	\$0	\$45,902,602



## **Budget Narrative**

**Applicant Name: Mr. Monroe M Keedo** 

**EasyGrants Number: 2023** 

Organization Type (from Question 1D on BTOP application): Indian

**Tribe** 

**Proposed Period of Performance: 2.75 years** 

Total Project Costs: \$ 45,902,602

**Total Federal Grant Request: \$ 32,190,067** 

Total Matching Funds (Cash): \$ 13,712,535

Total Matching Funds (In-Kind): \$ 0

Total Matching Funds (Cash + In-Kind): \$ 13,712,535

Total Matching Funds (Cash + In-Kind) as Percentage of Total Project

**Costs:** % 30

## 1. Administrative and legal expenses

- List breakout of position(s), time commitment(s) such as hours or level-of-effort, and salary information/rates with a detailed explanation, and additional information as needed.
- Provide description, calculation, and basis of evaluation for Cash Matching Funds.
- Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

**Administrative and Legal Expenses:** The total Administrative and Legal costs are \$100,000: \$100,000 from federal sources and \$0 as Matching Funds from NTUA.

This is for the grant Application and Preparation cost identified on the Detailed Project Costs Tab, "Other Upfront Costs" section.



## 2. Land, structure, rights-of-way, appraisals, etc.

- Provide description of estimated costs, proposed activites, and additional information as needed.
- Provide description, calculation, and basis of evaluation for Cash Matching Funds.
- Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

**Land, structure, rights-of-way, apprasials, etc.:** The total Land, structures, rights-of-way, appraisals, etc. costs are \$890,000: \$640,000 from federal sources and \$250,000 as Matching Funds (cash) from NTUA.

These costs are needed to address the right-of-way process for constructing the 550 miles of fiber optic cable through the Navajo Nation property and for the site drawings and environmental permits needed for the construction of 33 tower sites. They are identified in the Professional Services section of the Detailed Project Costs Tab, under the Engineering Design and Consulting categories.

## 3. Relocation expenses and payment

- Provide explanation for the relocation, description of the person involved in the relocation, method used to calculate costs, and additional information as needed.
- Provide description, calculation, and basis of evaluation for Cash Matching Funds.
- Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

None

## 4. Architectural and engineering fees

- Provide description of estimated fees, explanation of proposed services, and additional information as needed.
- Provide description, calculation, and basis of evaluation for Cash Matching Funds.
- Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

**Engineering:** The total engineering costs are \$1,996,657.84: \$1,196,658.84 from federal sources and \$800,000 as Matching Funds (cash) from NTUA.

Engineering costs include the fiber optics backbone engineering, microwave engineering, microwave (MW) interference studies, and coordination and MW fixed point-to-point licensing. It also includes vendor selection, contact award support, and support with project implementation and commissioning.

## 5. Other architectural and engineering fees

- Provide description of estimated fees, explanation of proposed services, and additional information as needed.
- Provide description, calculation, and basis of evaluation for Cash Matching Funds.
- Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

**Other Engineering:** The total other-engineering costs are \$9,600: \$9,600 from federal sources and \$0 as Matching Funds (cash) from NTUA.

Other-engineering costs consist of \$9,600 for filing fees related to the construction and notification of the structures (only for the new structures which are 32 at projected \$300 per structure).

## 6. Project inspection fees

- Provide description of estimated fees, explanation of proposed services, and additional information as needed.
- Provide description, calculation, and basis of evaluation for Cash Matching Funds.
- Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

None



## 7. Site work

- Provide description of estimated fees, explanation of proposed services, and additional information as needed.
- Provide description, calculation, and basis of evaluation for Cash Matching Funds.
- Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

**Site Work:** The site work costs are \$3,529,823.38: \$3,529,823.38 from federal sources and \$0 as Matching Funds (cash) from NTUA.

Site work costs include civil work and supplying utilities for the network operating center (NOC), the tower sites, and the telecom huts. It also includes any needed pole-replacements and pole make-ready prior to starting the 550 miles of fiber construction.

## 8. Demolition and removal

- Provide description of estimated fees, explanation of proposed services, and additional information as needed.
- Provide description, calculation, and basis of evaluation for Cash Matching Funds.
- Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

None

#### 9. Construction

- Provide description of estimated fees, explanation of proposed services, state whether the work is being completed by the applicant or an outside contractor, and additional information as needed.
- Provide description, calculation, and basis of evaluation for Cash Matching Funds.
- Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

**Construction:** The construction costs are \$36,736,021.01: \$24,564,444.35 from federal sources and \$12,171,576.66 as Matching Funds (cash) from NTUA.

Construction costs include:

- Fiber optic construction for 550 miles.
- Fiber optic transport and switch equipment procurement and installation.
- Tower procurement and construction for 33 towers.
- Tower microwave (MW) switching and transport equipment procurement and installation.
- Tower access equipment procurement and installation.
- Project Management for the above construction, procurement and installation.

**Construction Project Management:** The following narrative provides a breakout of the \$1,925,871 Project Management (PM) component listed in the last bullet item above.

**Personnel:** Personnel costs include the following roles:

- o Project Manager
- o Construction Engineer
- o Accountant
- o Office Assistant

The estimated PM time and rate per hour and fringe benefits are shown below.

	Person	Quantity /				
Project Management Positions	Yrs	Year	Unit Cost	Units	Total	Total by Section
Project Manager (PM)	3	2000	\$ 51.00	Hours	\$ 306,000	
Construction Engineer (CE)	7.02	2000	\$ 37.00	Hours	\$ 519,480	
Accountant (Local)	3.00	2000	\$ 35.00	Hours	\$ 210,000	
Clerical Support (Local)	3.00	2000	\$ 20.00	Hours	\$ 120,000	
Total Direct Labor	16.02					\$ 1,155,480

*Fringe Benefits:* Fringe benefits are estimated to be 25% of the total personnel costs.

Fringe Benefits	25%		\$ 288,870	
Fringe Benefits Total				\$ 288,870

NTUA plans to use contracted personnel and experienced NTUA Staff dedicated to this project through completion. NTUA staff will be charged to the project on an hourly basis and will use Federal Funding and NTUA Matching (cash) for reimbursement.

The total personnel and fringe benefit costs are \$1,444,350: \$1,227,698 from federal sources and \$216,652 as Matching Funds (Cash) contribution from NTUA.

*Travel:* Travel costs are comprised of meals, airfare, car rental, and hotel accommodation, as well as temporary housing and mileage for PM personnel living on site during the construction phase of the project. Other miscellaneous travel costs are also be included in this category, as needed. Mileage costs and per-diem food costs are based on the estimated federal rate over the three year period of the construction; airfare costs are based on an average of \$516 per round-trip flight; hotel costs are based on \$123 per night; and rental car and associated fuel costs are based on an average of \$90 per day. Housing costs for Project Management personnel living onsite away from their permanent residence during the course of the project include, housing, utilities, and any other housing related costs, but do not include any meal allowance unless personnel are away from both their temporary housing and their permanent housing on PM related business.

The total travel costs are projected to be \$451,631: \$128,908 from federal sources and \$322,723 from the NTUA.

Supplies: None

**Office Mobilization:** Office Mobilization includes mobilizing office space near the NTUA complex and paying ongoing office expenses. The total office mobilization costs are projected to be \$29,890: \$0 from federal sources and \$29,890 from the NTUA.

## Project Management Costs Summary and Funding distribution:

Project Management Costs	Total by Section	Federal Funding	Cash Match
Total Direct Labor and Fringe Benefits	\$1,444,350.00	1,227,698.00	\$216,652.00
Travel Expenses	\$451,631.00	\$128,908.00	\$322,723.00
Supplies	\$0	\$0	\$0
Office Mobilization	\$29,890.00	\$0	\$29,890.00
Total	\$1,925,871.00	\$1,356,606.00	\$569,265.00

## 10. Equipment

- Provide list of equipment with description, number of units, unit cost, state whether it is being purchased or leased, and additional information as needed.
- Provide description, calculation, and basis of evaluation for Cash Matching Funds.



# - Provide description, calculation, and basis of evaluation for In-Kind Matching Funds.

**Equipment:** The equipment costs are \$2,253,000: \$1,678,833.66 from federal sources and \$574,166.34 as Matching Funds (cash) from NTUA.

Infra Budget Package file:				
"Detailed of Project Costs" Tab				Extended
Cost Category	Description	Unit Cost	Quantity	Cost
	Cable / Crew Trucks	\$ 56,000.00	2	\$112,000.00
Operating Equipment - Vehicles	Bucket Trucks	\$175,000.00	4	\$700,000.00
	Splicing Trailors	\$ 20,000.00	3	\$60,000.00
	Wire Pulling Trailors	\$ 50,000.00	4	\$200,000.00
	Fiber Construction Crew Tools	\$ 75,000.00	2	\$150,000.00
Professional Services - Other	Survey Equipment	\$ 10,000.00	1	\$10,000.00
Trolessional Services - Other	Fiber Optic Test Equip.	\$ 68,000.00	1	\$68,000.00
	Wireless Test Equipment	\$ 78,000.00	1	\$78,000.00
Customer Premise Equipment -				
Other	PC Netbooks	\$ 350.00	2,500	\$875,000.00
Total				\$2,253,000.00

Equipment costs consist of operating equipment for fiber optic construction and customer premise equipment for the broadband system. The major operating equipment includes the cable /crew trucks, bucket trucks, splicing trailers, and wire-pulling trailers needed for fiber optic construction. Fiber construction crew tools, test equipment, and additional survey / GIS equipment are also included. See above table for quantities and cost breakouts.

The customer premise equipment includes 2,500 PC-Netbooks. Netbooks, known as mini notebooks or ultra-portables, are small, light and inexpensive laptop computers suited for general computing and accessing web-based applications; Netbooks will be provided as customer premises equipment (CPE) as they will have integrated modems to access the LTE network for a segment of market that cannot afford complete PC solutions. The Netbooks will not be resold to customers but rather allocated to low-income qualified households under current Lifeline rules currently utilized by USAC for subsidized voice services.

#### 11. Miscellaneous

- Provide additional information as needed.
- Provide description, calculation, and basis of evaluation of Cash Matching Funds.



- Provide description, calculation, and basis of evaluation of In-Kind Matching Funds.

**Miscellaneous:** The total miscellaneous costs are \$387,500: \$387,500 from federal sources and \$0 as Matching Funds (cash) from NTUA.

Miscellaneous costs consist of \$90,000 for LTE equipment shipping, \$250,000 for customer billing and support software, and \$47,500 for MW network management system software.

Customer billing software is intended to support residential and enterprise broadband customers; installed and managed from the data center and NOC to be located within Ft Defiance. OSS billing system will deliver an integrated order management, integrated provisioning, billing and accounting, CRM, customer and agent portals.

#### Addendum

- If indirect costs (i.e., indirect, overhead, general and administrative, facilities and administration, etc.) and/or fringe benefits are included in the budget, please provide a copy of your existing Negotiated Indirect Cost Recovery Agreement (NICRA), if available. If the NICRA is applied accordingly in the budget, there is no need to justify the costs. If a NICRA is not available or is not consistent with the rates/calculations in the budget, please provide an explanation of how the amounts were calculated. Please clearly list the manner in which indirect costs are calculated in the budget.