

BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE PROJECTS (BAC-I)


**BIDDING FOR THE CONSTRUCTION OF ROADS, UTILITIES AND PREPARATORY
WORKS AT MORONG DISCOVERY PARK**

BID BULLETIN NO. 6

This Bid Bulletin contains clarifications for various queries from prospective bidders, and other matters relating to the Project and shall form an integral part of the Bidding Documents.

I. Queries/Questions by the Prospective Bidders

Queries/Questions	Clarifications / Responses
<u>QUESTIONS VIA EMAIL</u>	
<p>Q1. In Bldg. No.29 which is 3-phase in secondary , the lightning arrester is only -01 unit in Electrical Plan E0-1?</p>	<p>There are three (3) lightning arresters for Bldg. 29.</p> <p>Please refer to the updated Electrical Drawing Sheet No. E0-1 provided in the link below:</p> <p>https://drive.google.com/file/d/15baNcgYsD8n_ByeMi2SCpW89NelO1QN6/view?usp=sharing</p>
<p>Q2. In technical Specification and Drawing it was not mentioned if Fire pumps are Multi stage or Single stage? Please confirm.</p>	<p>All fire pumps are Multi-stage.</p>
<p>Q3. For the disposal of materials, is there a specific site/location where we can dispose?</p>	<p>The winning bidder shall coordinate with the LGU for the location of the disposal of materials.</p>
<p>Q4. If a batching plant is necessary, is there a specific location or can we set up on site/outside? Are there any requirements/permits that we need to comply with?</p>	<p>A batching plant is not required for this project. However, if the contractor opts to set their own batching plant, the location shall be subject to the approval of BCDA and compliance with all the necessary permits needed to erect a batching plant.</p>
<p>Q5. There are existing structures/utilities in the area. If an existing structure/utility is damaged, is the Contractor liable for the repair? If in case the underground cables are disturbed, is the Contractor liable for</p>	<p>The contractor shall be responsible for the repair of all damages that it will cause to existing structures and utilities on site.</p>

the repair?	
Q6. What is the basis of the source of aggregates for the project?	The source of aggregates is determined based on proximity to the project site.
Q7. Kindly provide the exact name to be put in the Signages. 	The actual signage shall be divulged to the winning bidder during project implementation.
Q8. Request for plan/layout mentioned in A.1.1(3)a BOQ of General Requirements	Please refer to the plan for the CMS Office provided in the link below: https://drive.google.com/file/d/1In5Nt5ImPHYLuDjXoYOeo6m0Zh_AS3ah/view?usp=sharing
Q9. If it's possible to request the program of works ?	The program of works/project schedule of the other ongoing projects at Morong Discovery Park will be provided to the winning contractor upon award of the contract.
Q10. Are contractors allowed to use "Lahar" for item 104(2)a Embankment from Borrow, Common Soil (for roads).	No. Lahar is not allowed to be used for Item 104(2)a.
Q11. PCCP. During site inspection, we've noticed that the access provided to some sections of the project site will be PCCP road sections that are still to be completed by contractors working at Morong Discovery Park. May we know if we will be allowed to use the PCCP they constructed considering that it is highly likely that it will still be within their one-year warranty, and what would be the policy if the PCCP is damaged?	The winning bidder will be allowed to use the PCCP roads as their access during construction. The policy for damaged PCCP will be discussed during the kickoff meeting once the contract is awarded to the winning bidder.
Q12. May we request for the location of the disposal area for unsuitable and stripped materials under item 103 (7)?	Please see response in Q3 .

<p>Q13. May we clarify if there are any location designated as disposal area for construction waste?</p>	<p>Please see response in Q3.</p>
<p>Q14. Considering that there's military presence, is there any limitation on the time allowed to work in the area and entry and exit for deliveries?</p>	<p>There shall be no limitations on the time of entry and exit for deliveries and the time allowed to work in the area.</p>
<p>Q15. Waterline. Is there an existing waterline we could tap into to support the contractor's facilities?</p>	<p>Yes. The winning bidder shall coordinate with BCDA and Morong Water District for the tapping of waterline to support the contractor's facilities.</p>
<p>Q16. General Requirements. Please provide the drawings for General Requirements BOQ item A.1.1 (3) a.</p>	<p>Please see response in Q8.</p>
<p>Q17. General Requirements Technical Specifications item 1.1.1. Building no. 66 was included in item 1.1.1. Description of the Project in the General Requirements Technical Specifications, please provide plans for this building.</p>	<p>Building No. 66 refers to the Sewage Treatment Plant. Plans for the STP shall be prepared by the contractor or its specialty STP vendor/supplier based on the Performance Specifications. The STP Performance Specifications is provided in pp. 38-59 of the Plumbing and Sanitary Technical Specifications.</p>
<p>Q18. General. Please clarify if the contractor can build a batching plant within the vicinity of the project area, if it is possible, kindly provide the possible location of the batching plant area.</p>	<p>Please see response in Q4.</p>
<p>Q19. General. Since the site development contractors will be working simultaneously with the building contractors, may we request the project schedule of the building contractors specifically for roads</p>	<p>The project schedule of the building contractors shall be provided to the winning bidder upon award of the contract.</p>

construction.	
<p>Q20. General.</p> <p>If there is a project master schedule for the building and site development projects, may we request a copy of it?</p>	<p>The project schedule of the building contractors will be provided to the winning bidder upon award of the contract</p>
<p>Q21. General.</p> <p>May we request a copy of the geotechnical report for the project site area?</p>	<p>Please refer to the Geotechnical Investigation Report provided in the link below: https://drive.google.com/file/d/1p1eg1L-jMrzTuiTMsg5PdccFyzpNIY/view?usp=sharing</p>
<p>Q22. Plumbing BOQ 1201 (3).</p> <p>Please provide detailed drawing for the deep well pump as per Plumbing BOQ 1201 (3).</p>	<p>Please refer to Sanitary Drawing Sheet No. P29.3-1 for the Tentative Well Design & Schedule of Equipment.</p>
<p>Q23. Plumbing BOQ 1201 (3).</p> <p>Please provide capacity and power of submersible pump for deep well.</p>	<p>The proposed deep well has a capacity of 10 lps (158.52 gpm) and a power rating of 15 kW (20 hp).</p>
<p>Q24. General.</p> <p>Please confirm if the Application for Permanent Power Connection to the Electric Cooperative is not included in the Scope of Works of the Contractor.</p>	<p>The application for permanent power connection to the Electric Cooperative is included in the Scope of Works of the Contractor.</p>
<p>Q25. Site Development BOQ - Exterior Power Distribution System.</p> <p>Please confirm if the scope of works for the Item "OVERHEAD POWER DISTRIBUTION SYSTEM" is from First Private Pole going to the Distribution line inside the Site Boundaries only.</p>	<p>Yes. The overhead power distribution system is only from the First Private Pole going to the distribution line inside the project site.</p>
<p>Q26. General.</p> <p>Please provide a detailed Layout Plan for the Lighting System for the</p>	<p>Please refer to Electrical Drawing Sheet Nos. E8-2, E9-2, E10-2, E29.9-2, E30-</p>

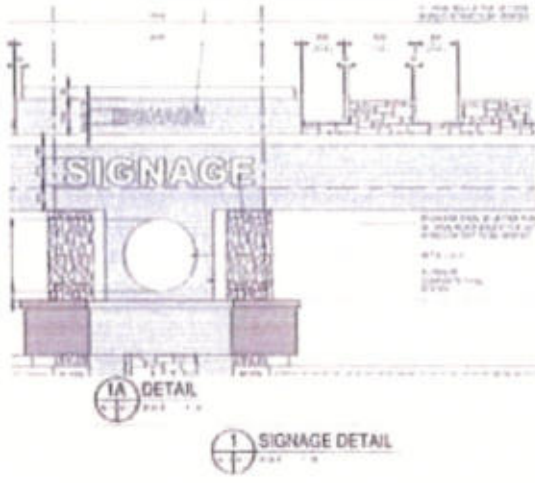
Buildings.	3, and E50-3.
Q27. General. Please provide sample photos for the different types of Lighting Fixtures.	Please refer to the lighting fixture schedule and electrical legend in the drawings.
Q28. Bill of Quantities On the BOQ provided, please confirm if the scope of works for the Fire Alarm system is Roughing ins only.	Yes, the scope of works for Fire Alarm System includes roughing-ins only.
Q29. Bill of Quantities On the BOQ provided, please confirm if the scope of works for the Network Cabling System is Roughing ins only.	Yes, scope of works for Network Cabling System includes roughing-ins only.
Q30. Bill of Quantities On the BOQ provided, please confirm if the scope of works for the CCTV System is Roughing ins only.	Yes, scope of works for CCTV system includes roughing-ins only.
Q31. Site Development BOQ Item no. 1109 "Grounding System". Please provide a detailed layout plan for the Grounding System.	Please refer to the Standard Footing Detail in Electrical Drawing Sheet No. E0-5 for details.
Q32. General Requirements Technical Specifications and Bill of Quantities. Should there be any discrepancy between item descriptions in the Bill of Quantities and from the descriptions declared in General Requirements Technical Specifications, which shall prevail?	Item description in the BOQ shall govern.
Q33. Electrical BOQ Item no. 1111(1)a1 "Concrete Power Pedestal (for entrance/exit guardhouse)". Please provide a detailed Layout Plan for estimation.	Please refer to Electrical Drawings Sheet Nos. E8-5 and E9-5 for the details of the concrete service pedestal.
Q34. Electrical BOQ item no. 1102(2)8.1 to 1102(2) 50.5 Please provide the Load Schedule for all the Switchgear and Panelboards	Please refer to Electrical Drawing Sheet No. E8-1, E9-1, E10-1, E29.2-1, E30-1a, E30-1b, E50-1a, and E50-1b for the Load Schedule for all the Switchgear and Panelboard.
Q35. Electrical BOQ item no. 1102(33)b "Remote/Start Stop Push Button in NEMA 3R Enclosure"	The winning bidder shall be responsible for providing the Schematic Diagram.

Please provide a Single Line Diagram	
<p>Q36. Electrical BOQ item no. 1102(34)b "Combination of ECB 20AT/100AF 1P 230V and Magnetic Motor Starter (MMS) in NEMA 3R Enclosure"</p> <p>Please provide a Single Line Diagram</p>	The winning bidder shall be responsible for providing the Schematic Diagram.
<p>Q37. Electrical BOQ item no. 1102(13) a.1 "Current Transformer Cabinet complete with 3-1600/5A in NEMA 3R Enclosure."</p> <p>Please confirm if the scope of work is cabinet only or included the Current Transformer.</p>	The contractor shall provide the complete set of Item No. 1102 (13)a.1.
<p>Q38. Electrical BOQ item no. 1102(13) a.1 "Current Transformer Cabinet complete with 3-2000/5A in NEMA 3R Enclosure."</p> <p>Please confirm if the scope of work is cabinet only or included the Current Transformer.</p>	The contractor shall provide the complete set of Item No. 1102(13) a.1.
<p>Q39. Bill of Quantities</p> <p>On the BOQ provided the quantity of Overhead Power Distribution Line System is not the same in the provided Drawing, which shall govern?</p>	Please follow the required quantities in the BOQ.
<p>Q40. Bill of Quantities</p> <p>On the BOQ provided the quantity of Road Lighting System are not the same in the provided Drawing, which shall govern?</p>	Please follow the required quantities in the BOQ.
<p>Q41. General.</p> <p>Please confirm that all the legwork requiring coordination, permanent power application in which Electric Cooperative will assess the Bill deposit, contracted capacity is by contractor. Payment for the Bill deposit or cash advance that Electric Cooperative may charge to customer is by Client.</p>	The legwork for the coordination for permanent power application will be the responsibility of the contractor but the payment for the bill deposit or cash advance will be paid by the end-user
Q42. Drawing E0-5	

<p>The provided Drawing "E0 Site Development E05" mentioned that the Road Lighting is 120W but the BOQ stated that 100W LED Luminaire and the Technical Specification mentioned that the Rated Power of Roadway Luminaires is 80W. Please clarify which shall govern.</p>	<p>Please use the wattage provided in the BOQ which is 100W.</p>
<p>Q43. General.</p> <p>We would like to request Lumen's requirements for the Roadway Lighting.</p>	<p>Please refer to Section 2.1.1 of the Electrical Technical Specifications.</p>
<p>Q44. General.</p> <p>Please confirm, if possible to propose a Roadway luminaire with solar integrated.</p>	<p>The contract shall submit its proposal for the roadway luminaire based on the provided specifications for road lightings in the Electrical Technical Specifications.</p>
<p>Q45. Disposal Area</p> <p>a. Base on the given Bill of Quantities the hauling out distance for unsuitable materials and stripped materials is within one (1) kilometer radius. Please confirm</p> <p>b. Kindly clarify if the stripped materials includes materials from clearing and grubbing with a hauling out distance of one (1) kilometer radius also.</p>	<p>a. Yes, the hauling out distance for unsuitable materials and stripped materials is within one (1) kilometer radius.</p> <p>b. Yes, the stripped materials include materials from clearing and grubbing within the one (1) kilometer radius.</p>
<p>Q46. Kindly provide us the soil investigation in the project area specially at the location of the following structures.</p> <ol style="list-style-type: none"> 1. Sewage Treatment Plant (STP - 1 Capacity = 560 cu.m.) 2. Sewage Treatment Plant (STP - 2 Capacity = 620 cu.m.) 3. Building 29.20 (Cistern Tank Capacity = 350 cu.m.) 	<p>A confirmatory soil investigation shall be carried out prior to the construction of the facilities.</p>
<p>Q47. Main Entrance/Exit (2 unit) and Alternate Entrance/Exit (2 unit)</p> <ol style="list-style-type: none"> 1. Kindly clarify the location of Main Entrance/Exit and Alternate Entrance/Exit. Base on the given 	<ol style="list-style-type: none"> 1. Please refer to the consolidated plan for Bldg. 8 and Bldg. 9 provided in the link below:

<p>plan, Building no. 8.2 (sheet no. A.8.2-0) and Building no. 9 (sheet A9-0) have the same location in the drawing.</p> <p>2. Kindly confirm also that both Main Entrance/Exit and Alternate Entrance/Exit have the following structures.</p> <ol style="list-style-type: none"> 1. Guardhouse - 1 unit 2. Guard Station - 1 unit 3. Toilet - 3 units 4. Steel Grill Fence 5. Walkway and Spiral Stairs 	<p>Bldg. 8 Plan: https://drive.google.com/file/d/1LOf_Ah7y-Ks1nrAOnuUfUTzogGQm77Yx/view?usp=sharing</p> <p>Bldg. 9 Plan: https://drive.google.com/file/d/1KDXpnB7XxbE8SNZdqsVwPh926KGMBFu/view?usp=sharing</p> <p>2. Yes, both Main Entrance/Exit and Alternate Entrance/Exit have the same structures.</p>
<p>Q48. Please provide detailed drawings (Architectural, Structural, Mechanical, Electrical, and Plumbing) of the 2 significant structures:</p> <ol style="list-style-type: none"> 1. Sewage Treatment Plant (STP-1 Capacity = 560 cu.m.), including civil works, electro-mechanical works, and other necessary items to complete the work. 2. Sewage Treatment Plant (STP-2 Capacity = 620 cu.m.), including civil works, electro-mechanical works, and other necessary items to complete the work. 	<p>The winning bidder will provide its own detailed drawings which should follow the requirements specified in Section 02750 of the Technical Specifications of Plumbing and Sanitary for the Performance Specification of the Sewer Treatment Plant.</p>
<p>Q49. Fire Protection Will you allow a non UL/FM approved Fire Pumps so long as it is brand new?</p>	<p>No. Fire Pumps shall always be UL/FM approved.</p>
<p>Q50. Manhole Frame and Cover. What is the size of the "blank white rectangle"?</p>	<p>The size of the "blank white rectangle" is at least 50 mm high and 350 mm long.</p>

<p>PLAN</p> <p>SECTION</p> <p>1D MANHOLE FRAME & COVER 1:1 SCALE</p>	
<p>Q51. Manhole Frame and Cover. Is there a required size for the letter "S"?</p> <p>PLAN</p> <p>SECTION</p> <p>1D MANHOLE FRAME & COVER 1:1 SCALE</p>	<p>The size for the letter "S" is at least 100 mm high.</p>
<p>Q52. Building Signage. What is the logo to be used? What is the preferred size of the letters in the logo, if any?</p>	<p>The logo design will be provided to the winning bidder during implementation.</p>

	
<p>Q53. Field Office for the CMS Staff. In the Bill of Quantities (BOQ), under PART A: Facilities for the Engineer, Operate and Maintain of Field Office for the CMS Staff (Floor Area: 270 sq.m.), to include Schedule A.1. Refer to the plan/layout, where can we find the complete Plan/Layout for the Field Office for the CMS STAFF?</p>	<p>Please see response in Q8.</p>
<p>Q54. Site Development Part B - B.1. Office, Shops, Store, and Workmens Accomodation for Contractor (includes provision of 4 units Container Van in Rental Basis, Temporary Building for Canteen, Workshop, Warehouse and Motorpool)</p> <ol style="list-style-type: none"> 1. What is meaning that "A 40 foot Container Van for the OSM Roadway solar lights and accessories shall be provided by the Contractor" in specification? Is that include in 4 units? 2. Is this item include in Contractor Temporary Building and Facilities? 	<ol style="list-style-type: none"> 1. Please follow the description for Item No. B.1 in the BOQ, which excludes the provision of a container van for the OSM Roadways solar lights and accessories. 2. No.
<p>Q55. Site Development Part B - B.2. Medical Rooms and First Aid Facilities - Two (2) Units 20 Footer Container Van in Rental Basis to be utilized as</p>	

<p>Clinic Room (first Van) and Covid Testing Facility (second Van). 1. How often for Test? Is this have minimum requirement?</p>	<p>The minimum testing requirements shall be in accordance with the prevailing guidelines and issuances from the Department of Labor and Employment and/or Department of Public Works and Highways.</p>
<p>Q56. Site Development Part B - B.3. Permits, Licenses and Clearances. Expenses incurred by the Contractor in the course of assisting the Owner/BCDA in securing the required construction permits, licenses and clearances. 1. What is this item include for? Which department need to corporate? How much will pay?</p>	<p>Permits and clearances necessary for the implementation of the project shall be applied and paid for by the winning bidder. Payment shall be made under Pay Item No. B.3.</p>
<p>Q57. Site Development Part B - B.4 (10). Miscellaneous Survey and Staking 1. What is this item include for? Shall we assist Client survey? Or Other own survey?</p>	<p>The contractor shall, at all times during the duration of the project, provide for use of BCDA/CMS staff all new survey equipment, instruments and apparatus, and provision of survey personnel. Please refer to Section 1.3.8.4 of the General Requirements Technical Specifications for the details of this pay item.</p>
<p>Q58. Site Development Part B - B.14. Environmental Management and Monitoring 1. What is this item include for?</p>	<p>Please refer to Section 1.4.3 (pp. 26-34) for the details of Item B.14.</p>
<p>Q59. Site Development Part C. 1. There is no item for demolish UN avenue asphalt road in BOQ.</p>	<p>The demolition of UN Avenue asphalt road is part of Item No. 100 (1) - clearing and grubbing works.</p>
<p>Q60. Site Development Part C - 102(5) Stripping of Soil. 1. What is this item include for? Slope stripping? Or others? How to quantify survey?</p>	<p>Item 102 (5) is for Stripping of Soil only. It will be quantified by multiplying the area to 100mm thickness.</p>
<p>Q61. Site Development Part C - 103(7) Miscellaneous Survey and Staking 1. What is this item include for? Shall we assist Client survey? Or Other own survey?</p>	<p>Part C - 103(7) pertains to the hauling out of unsuitable and stripped materials.</p>
<p>Q62. Site Development Part C - 104(1) al Embankment from Roadway Excavation, Common Soil. 1. How far will consider for borrow by</p>	<p>Within the area of the project.</p>

Roadway Excavation other than borrow haul?	
<p>Q63. Site Development Part C - 104(2) a Embankment from Borrow, Common Soil (for roads)</p> <p>1. Who will provide borrow pit? Is this need to pay additional fee?</p>	Burrow pit is part of the scope of the contractor under Item 104(2) - Embankment from Burrow, Common Soils.
<p>Q64. Site Development Part E.</p> <p>1. The drawing have Metal Guardrail (Flex Beam) along the road, but there is no item in BOQ.</p>	Metal guardrail is not part of the scope of the contractor.
<p>Q65. Exterior Electrical Works - 1102(10)b 3-100KVA, 13.2kV-400V, 1Ø, 60Hz Pole Mounted Transformer in BANK including mounting brackets and accessories.</p> <p>1. Please confirm whether the 100KVA transformer is single-phase or three-phase transformer, or the high-voltage side is single-phase and low-voltage side is three-phase, which is inconsistent with the drawing description.</p>	All 3 100KVA transformers are single phase, whether single bushing or double bushing.
<p>Q66. Exterior Electrical Works - 1102(10)d. 1-15KVA, 7.62kV-230V, 1Ø, 60Hz, Pole Mounted Transformer including mounting brackets and accessories.</p> <p>1. The quantity on the drawing is only 8.</p> <p>2. There are also 3 15KVA, 13.2kV-400V, 3 ø60Hz transformers on the drawing.</p>	<p>1. Please use the provided quantity in the Bill of Quantity.</p> <p>2. There is no requirement for 3-15KVA Pole Mounted Transformers.</p>
<p>Q67. Exterior Electrical Works. If concrete pole is not available in the nearest electrical cooperative, will you allow the use of steel or wood pole or the contractor can source it out from private suppliers as long as it passes the requirements?</p>	No. Only concrete pole shall be used.
<p>Q68. Exterior Electrical Works. Please specify the codes used for the poles.</p>	The specifications for the pole shall conform to the National Electrification Administration (NEA) Standard.
<p>Q69. Exterior Lighting System 1100(6)a. Polyvinyl Chloride Pipes (PVC/uPVC), 20mm dia. (for Grounding System)</p>	

<ol style="list-style-type: none"> 1. Only PVC casing is used for grounding, and there is no casing for cable. 2. Distribution Box lacking here. 3. According to the technical specification, the cable is written on 1101, 1101 (2) g2-g8 for low voltage aluminum cable, if the lighting cable uses 2-4awg + 1-4AWG section, the number is not enough. 	<ol style="list-style-type: none"> 1. Only 20mm diameter PVC will be used for the ground cable. Please refer to Section 1D in Electrical Drawing Sheet No. E0-5 Roadway Lighting Pole Details. 2. There is no distribution box since it is solar lighting. Please refer to Electrical Drawing Sheet No. E0-5. 3. The size of the wire (service drop) is appropriate and is based on the computed load requirement for each type of building.
<p>Q70. Structural Works - 1000(1) Soil Poisoning.</p> <ol style="list-style-type: none"> 1. There is no specific material specification and content in the technical specification. 	<p>Please refer to Architectural Specifications Item 100 Soil Treatment.</p>
<p>Q71. Electrical Works 1101(15) Single Convenience Outlet Receptacle (GT), 250V, 15A, 2P (For Emergency Light).</p> <ol style="list-style-type: none"> 1. The distribution box is missing, and the cassette of the switch is missing. 	<p>There is a corresponding utility box for every outlet. Please refer to Item No. 1100(8)a in the BOQ.</p>
<p>Q72. Electrical Works 1111(3)b. 2 - Polyvinyl Chloride Pipes (PVC/uPVC), 110mm dia.</p> <ol style="list-style-type: none"> 1. There should be steel bar, floor materials, etc. 	<p>Reinforced steel bars are not needed for non-vehicular PVC/uPVC pipes.</p>
<p>Q73. Electrical Works 1100(8)f. Pullbox, 200mm W x 200mm H x 200mm D. Roughing-ins only.</p> <ol style="list-style-type: none"> 1. The missing items are as follows, and the quality needs to be confirmed. 	<p>Scope of works includes roughing-ins only.</p>

Pay Item No.	Description
1208(2)	Addressable Photoelectric Smoke Detector
1208(3)	Addressable Rate of Rise Heat Detector
1208(4)	Horn with Strobe light
1208(5)	Fire Alarm Control Panel – 2 loops
1208(5) a	Fire Alarm Control Panel - 1
1208 (5) b	Fire Alarm Control Panel - 2
1208 (5) c	Fire Alarm Control Panel - 3
1208 (5) d	Fire Alarm Control Panel - 4
1208(6)	Manual Pull Station
1208(9) a	Booster Power Supply 1
1208 (12)	Zone Addressable Module
1208 (13)	Fire Alarm Annunciator Panel
1208 (14)	Testing and Commissioning

Q74. Electrical Works - Network Cabling System (Roughing-ins only).
1. The missing items are as follows, and the quality needs to be confirmed.

Scope of works for Network Cabling System includes roughing-ins only.

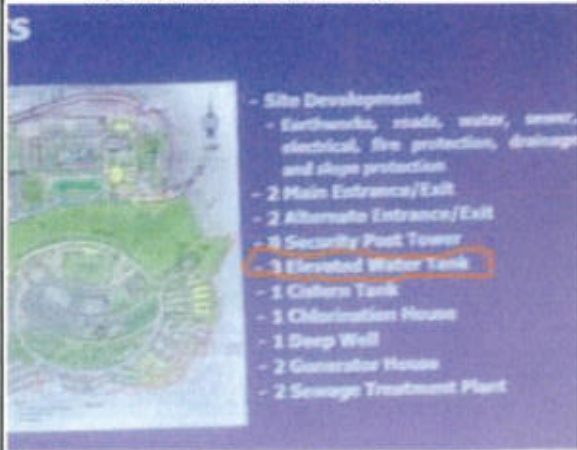
Pay Item No.	Description
1105 (2) a	IDF
1105 (7)	UTP CAT6 4 pairs, 0.57mm cable
1105 (8) a	Fiber Optic Cable (FOC), 6 core Fiber Multimode
1105 (14)	Single Work Station Outlet (Voice Line or Data Line)
1105 (15)	Double Work Station, wall mounted (Voice/Data Outlet)
1105 (17)	Double Work Station, Floor Mounted (Voice/Data outlet)
1105 (21) a	25 pairs, 24AWG UTP Multi Pair Cable, CAT 5e
1105 (22)	PABX (7 Direct, 65 Locals)
1105 (22) a	PABX (4 Direct, 21 Locals)
1105 (19)	Uninterruptible Power Supply, 1KVA, 100, 230V, 60Hz
1105 (23)	Testing and Commissioning

Q75. Electrical Works - 1100(8)b Octagonal Junction Box, 101mm x 101mm x 54mm, Ga. 16.
1. The missing items are as follows, and the quality needs to be confirmed.

1. The contractor shall only provide roughing-ins.

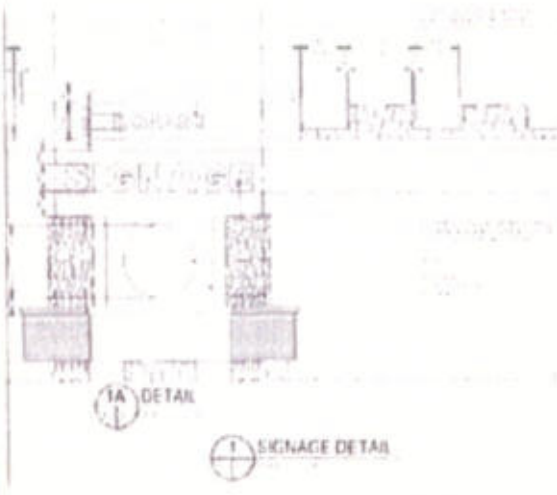
Pay Item No.	Description	Unit of Measurement
1106 (2) a	IP - Fixed Dome Type CCTV Camera, 2MP	Set/s
1106 (13) a	IP - Bullet (Pinhole) Type Camera, 2MP	Set/s
1106(3)	Centralized Power Supply with UPS	Set/s
1106(14)a	IP - PTZ Type CCTV Camera, 2MP mounted into the Tapered Hot-Dipped Galvanized Steel Pole x 6000 meter height with 1m Long Bracket	Set/s
1106(15)	24U Data Cabinet	Set/s
1106(16)	CCTV Equipment	Set/s
1106(17)	Testing and Commissioning	Lot

2. It should have an access control

<p>system.</p> <table border="1"> <thead> <tr> <th>Pay Item No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1108(6)</td> <td>ACS Panel with built-in Biometrics/Recording</td> </tr> <tr> <td>1108(7)</td> <td>Emergency Break Glass</td> </tr> <tr> <td>1108(8)</td> <td>Card Reader</td> </tr> <tr> <td>1108(9)</td> <td>Electromagnetic Lock with built-in magnetic door contact</td> </tr> <tr> <td>1108(10)</td> <td>RM4 Auxiliary Relay Module</td> </tr> <tr> <td>1108(11)</td> <td>Exit Push Button</td> </tr> <tr> <td>1108(12)</td> <td>Centralized Power Supply with 1kVA UPS</td> </tr> <tr> <td>1108(13)</td> <td>Testing and Commissioning</td> </tr> </tbody> </table> <p>3. The UPS system and batteries must be configured in addition to the battery pack and battery holder, there should also be a UPS main screen. The battery can be controlled by a 2V 1200AH valve for lead-acid batteries 2V 1200AH valve-controlled lead-acid battery Battery rack Battery monitor.</p> <table border="1"> <thead> <tr> <th>Pay Item No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>SPL 624.4(1)</td> <td>UPS, (indicate sizes and type)</td> </tr> <tr> <td>SPL 624.4(2)</td> <td>Testing & Commissioning</td> </tr> </tbody> </table>	Pay Item No.	Description	1108(6)	ACS Panel with built-in Biometrics/Recording	1108(7)	Emergency Break Glass	1108(8)	Card Reader	1108(9)	Electromagnetic Lock with built-in magnetic door contact	1108(10)	RM4 Auxiliary Relay Module	1108(11)	Exit Push Button	1108(12)	Centralized Power Supply with 1kVA UPS	1108(13)	Testing and Commissioning	Pay Item No.	Description	SPL 624.4(1)	UPS, (indicate sizes and type)	SPL 624.4(2)	Testing & Commissioning	<p>2. The contractor shall only provide roughing-ins.</p> <p>3. The contractor shall only provide roughing-ins.</p>
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<p>Q76. Drawing no. P-29-1, regarding Elevated Water Steel Tank. Kindly provide location for three elevated water steel tank, and why is it not included in the BOQ?</p>  <p>Kindly provide location of three Elevated Water Tank.</p>	<p>Please refer to Drawing Sheet No. WS-1 (Exterior Water Supply and Distribution System General Layout) for the location of the three (3) units elevated water tank.</p> <p>The elevated water tanks are included in BOQ under Structural Works - All Building/Structures.</p>																								
<p>Q77. Mechanical Works Item 1206 (1) C, Regarding 55 Gal. Fuel Dump Storage in BOQ, please clarify further.</p>	<p>The fuel dump storage shall be provided by the winning bidder.</p>																								

Q78. Drawing No. A10 - 3, Regarding - 8 Security Post Tower why is it not Included in BOQ Cost?	The pay items for the construction of Security Post Towers are already incorporated in BOQ - All Buildings/ Structures.
Q79. The location of the project is within BCDA Freeport Zone, It won't be subject to government tax. Please clarifies if the cost will be included or is it tax exempt?	The construction project, which is located in Morong Special Economic Zone, is not tax-exempt. As such, all bid proposals shall be inclusive of all applicable taxes and fees.
Q80. Who will provide Permit and Clearances for the Project?	Permits and clearances necessary for the implementation of the project shall be applied and paid for by the winning bidder. Payment shall be made under Pay Item No. B.3.
Q81. May we request for a colored copy of General Site Layout Plan for Construction of Roads Utilities and Preparatory Works (Drawing No. C - 1).	Please use the drawings provided in the bidding documents.
Q82. Who will provide landfill for debris and for the garbage in site?	Please see response in Q3 of this Bid Bulletin.
Q83. Clarify if the Roadway Power and Lighting system, is it under ground or overhead?	The distribution power system is overhead. The roadway lighting is Solar panel.
Q84. Anchor Bolts. Please provide a design or sample drawing for required anchor bolts.	Please refer to Section 1B in Sheet No. S10-2 of the Drawings provided in the Bidding Documents.
Q85. Please provide specifications of 1038 (2) in Architectural, Details/Specs/Design of Wiremesh Reinforcement and Foil on One Side (Rockwool Insulation).	Please refer to pages 149-150 of the Architectural Technical Specifications for the details of Item 1038 (2).
Q86. May we verify the location of access road for the project.	The project site is accessible via UN Avenue and Brgy. Sabang service road.
Q87. May we verify location of Barracks.	The contractor may set up its barracks within the project site, subject to the approval of BCDA.
Q88. For Verification what will we do if we encounter Hard rock.	Encountering Hard Rock while doing the earthworks shall be subject to the construction methodology of the winning bidder and subject to the approval of BCDA.

<p>Q89. 100,000 liters elevated water steel tank. - Tank Design By Others</p>	<p>Please see Structural Drawing Sheet No. S29-1 for the details of 100,000 L elevated water tank.</p>
<p>Q90. Panelboard, PPCH. Main: 80AT/100AF, 3P, 4W + G, 230V, 60Hz, MCCB, 25KAIC, Branches 1 - 50AT/100AF, 3P, MCCB, 1 - 20AT/100AF, 3P, MCCB, 1 - 40AT/100AF, 1P, MCCB, 4 - 20AT/100AF, 1P, MCCB, Other Components: 3 - Current Limiting Fuse (CLF), 3 - Indicator Lights (R). Complete with terminal lugs, ground bus, nameplate, etc.. Surface Mounted in NEMA 1. Enclosure (Located at Bldgt # 29.2)</p> <p>- Panel board of PPCH BOQ description vs load schedule not same which will govern? Reference drawing electrical - E29.9-1 sheet.</p>	<p>Please follow the description and load schedule in the BOQ.</p>
<p>Q91. Please provide detail for trench cover at Building no. 30 & no. 50. - Not included in BOQ.</p>	<p>Please refer to Detail 1C in Sheet Nos. P30-2 and P50-2 for Trench w/ Grating.</p>
<p>Q92. Please verify if we need to include guardrail at Site Development Plan? If yes, please provide the location need to consider. - Not included in BOQ, Site Devt. Sheet C-4, page 26</p>	<p>Guardrail is not part of the scope of the project.</p>
<p>Q93. Detail of Vehicle access Control Toll Barrier Gate (Entrance & Exit) for Guardhouse. - Not included in BOQ.</p>	<p>Vehicle Access Control Toll Barrier Gate is not part of the scope of the project.</p>
<p>Q94. Walk Thru Metal Detector at Guardhouse. - Not included in BOQ.</p>	<p>Walk Thru Metal Detector is not part of the scope of the project.</p>
<p>Q95. Plant Area with Concrete Curb @ Security Building. - provide details.</p>	<p>Please refer to Standard Miscellaneous Sheet No. C-21 for the details of Plant Area with Concrete Curb at Security Building.</p>
<p>Q96. Please verify if 20mm Steel tension rods for cross bracing at Security Tower are included already in BOQ.</p>	<p>The 20mm steel tension rods for cross bracing at Security Tower are included in the BOQ with Item No.1047 (4)b.</p>

<p>- Structural, S10-1</p>																														
<p>Q97. How many letters will be put as "SIGNAGE"?</p> 	<p>The design for the signage will be provided to the winning bidder during contract implementation.</p>																													
<p>Q98. In the BOQ, the capacity of STP are 560 cu.m. and 620 cu.m. but the Technical Specifications requires the following, which should be followed?</p> <p>Please provide STP-1 and STP-2 (Civil/Structural & Electro-Mechanical Works) design drawing and missing item of Sewage Treatment Plant.</p> <table border="1" data-bbox="295 1232 837 1478"> <thead> <tr> <th rowspan="2">Particular Construction Item</th> <th colspan="4">Domestic Sewage Flow Rate</th> </tr> <tr> <th colspan="2">1</th> <th colspan="2">2</th> </tr> <tr> <th>STP Number</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Average Daily Flow</td> <td>m³/day</td> <td>m³/hr</td> <td>m³/day</td> <td>m³/hr</td> </tr> <tr> <td>Phase I</td> <td>5600</td> <td>330</td> <td>620</td> <td>390</td> </tr> <tr> <td>Ultimate Development</td> <td>9000</td> <td>560</td> <td>1850</td> <td>110.0</td> </tr> </tbody> </table>	Particular Construction Item	Domestic Sewage Flow Rate				1		2		STP Number					Average Daily Flow	m ³ /day	m ³ /hr	m ³ /day	m ³ /hr	Phase I	5600	330	620	390	Ultimate Development	9000	560	1850	110.0	<p>The capacity of STP-1 and STP-2 required for the project is 560 cu.m. and 620 cu.m, respectively, consistent with the requirement for Phase 1 of the development.</p> <p>For the design drawings of the STP, please see response in Q48 of this Bid Bulletin.</p>
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<p>Q99. What is the recommended alternative for HDHPE SDR 26 to be used for exterior sewer system since it is not readily available in the market?</p>	<p>In case the HDHPE SDR 26 is not available in the market, an alternative material may be proposed by the winning bidder during project implementation, subject to the approval of BCDA.</p>																													
<p>Q100. Pay Item No. A.1.1. (3)a Provide, Operate and Maintain of Field Office for the CMS Staff (Floor Area: 270 sq.m.), to include Schedule A.1.</p> <p>Please clarify "Note" which states that "Payment for the above key personnel</p>	<p>Please see response in Q8.</p> <p>The key personnel are mandatory to be provided by the contractor. Costs of</p>																													

<p>(d to i and k) are incidental to items of the permanent works, hence, will not be measured and paid separately."</p> <table border="1"> <thead> <tr> <th>REF. NO.</th> <th>DESCRIPTION</th> <th>QTY</th> <th>UNIT</th> </tr> </thead> <tbody> <tr> <td colspan="4">I. Operation Maintenance Staff (Monthly)</td> </tr> <tr> <td>a</td> <td>Chief Engineer</td> <td>1</td> <td>mo</td> </tr> <tr> <td>b</td> <td>Utility</td> <td>2</td> <td>mo</td> </tr> <tr> <td>c</td> <td>Security Guard</td> <td>3</td> <td>mo</td> </tr> <tr> <td colspan="4">II. Key Personnel (on full time basis) Monthly</td> </tr> <tr> <td>d</td> <td>Project Manager (Licensed Civil Engineer)</td> <td>1</td> <td>mo</td> </tr> <tr> <td>e</td> <td>Assistant Project Manager (Licensed Civil Engineer)</td> <td>1</td> <td>mo</td> </tr> <tr> <td>f</td> <td>Quantity Surveyor (Licensed Civil Engineer or Architect)</td> <td>1</td> <td>mo</td> </tr> <tr> <td>g</td> <td>Field Engineer (Licensed Civil Engineer, Surveying Engineer, Mechanical Engineer and Electrical Engineer) (on 2 month)</td> <td>8</td> <td>mo</td> </tr> <tr> <td>h</td> <td>Executive Engineer (Licensed Executive Engineer)</td> <td>2</td> <td>mo</td> </tr> <tr> <td>i</td> <td>Materials Engineer (DIPWH Accredited Materials Engineer III)</td> <td>1</td> <td>mo</td> </tr> <tr> <td>j</td> <td>Safety Engineer (Officer accredited by the Bureau of Working Conditions (BWC) on with 20 hours Certificate of Training in Occupational Safety and Health)</td> <td>1</td> <td>mo</td> </tr> <tr> <td>k</td> <td>General Foreman</td> <td>1</td> <td>mo</td> </tr> </tbody> </table> <p>Note: Payment for the above key personnel for incidental work activities of the permanent works, hence, will not be measured and paid separately. However, Safety Engineer Officer is included under Pay Item No. B-53 Occupational Safety and Health Program of the Bill of Quantities General Requirements.</p>	REF. NO.	DESCRIPTION	QTY	UNIT	I. Operation Maintenance Staff (Monthly)				a	Chief Engineer	1	mo	b	Utility	2	mo	c	Security Guard	3	mo	II. Key Personnel (on full time basis) Monthly				d	Project Manager (Licensed Civil Engineer)	1	mo	e	Assistant Project Manager (Licensed Civil Engineer)	1	mo	f	Quantity Surveyor (Licensed Civil Engineer or Architect)	1	mo	g	Field Engineer (Licensed Civil Engineer, Surveying Engineer, Mechanical Engineer and Electrical Engineer) (on 2 month)	8	mo	h	Executive Engineer (Licensed Executive Engineer)	2	mo	i	Materials Engineer (DIPWH Accredited Materials Engineer III)	1	mo	j	Safety Engineer (Officer accredited by the Bureau of Working Conditions (BWC) on with 20 hours Certificate of Training in Occupational Safety and Health)	1	mo	k	General Foreman	1	mo	<p>these are included in the Contractor's Overhead, Contingency and mark-up.</p>
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<p>Q101. Pay Item No. A.1.2 (5) Operation and Maintenance of Two (2) Service Vehicles.</p> <p>Considering the high cost of diesel nowadays, is there a LIMIT to the consumption of fuel of the supplies Service Vehicles on a monthly basis?</p>	<p>The fuel provision shall be 20 liters per vehicle per day.</p>																																																								
<p>Q102. Pay Item No. A.1.4 (1) Progress Photographs and Videos.</p> <p>Please provide specification of Drone Aircraft Equipment to be provided.</p>	<p>Please refer to the specifications of the Drone Aircraft Equipment provided below:</p> <p>Camera Drone 2022 New Drone S135 8K. Professional Camera with Aerial Photography. Four Axis obstacle avoidance remote control. GPS multi-function return. Remote control camera. Brushless power. 8K HD dual camera (ESC camera). Surround shooting. Way-point flight. With OA 3-battery.</p>																																																								

<p>Q103. Pay Item No. A.1.5 (1) Provision of Radio Communication Equipment (Schedule F) - Rental Basis.</p> <p>What is the specification of Radio to be used?</p>	<p>Please refer to the specifications of the radio provided below:</p> <p>Walkie talkie. Aviation frequency-Long range. AM Channel reception. 6800 MAH. Fast charge. Type -C. Full band intercom. 144/220/350/400/520MH2. Full band adjustable. One key frequency fast matching. With LED glare flashlight. FM/ AM/ VHF/ DHF/, 65MH2-620MH2 (Full Frequency).</p>
<p>Q104. Please provide precise LENGTH as well // or kindly clarify if this requirement is just the standard expansion bolt with 12mm dia, otherwise kindly provide drawing / sketch:</p> <ol style="list-style-type: none"> 1. Metal Structure Accessories, Connection Bolts, $\varnothing 12\text{mm} \times 40 \text{ mm} \times$ <u> </u> MM thread Connection Bolts w/ Std <u> </u> Nuts & <u> </u> Washer, ASTM A325 2. Metal Structure Accessories, ASTM F1554 Anchor Bolts, $\varnothing 12\text{mm} \times 75\text{mm} \times$ <u> </u> MM thread w/ Std <u> </u> Nuts & <u> </u> Washer, 3. Metal Structure Accessories, ASTM F1554 (depth of embedment = 150mm) Anchor Bolts, $\varnothing 12\text{mm} \times 200\text{mm} \times$ <u> </u> MM thread w/ Std <u> </u> Nuts & <u> </u> Washer, 4. Metal Structure Accessories, ASTM F1554 (depth of embedment = 150mm) Anchor Bolts, $\varnothing 16\text{mm} \times 200\text{mm} \times$ <u> </u> MM thread w/ Std <u> </u> Nuts & <u> </u> Washer, 5. Metal Structure Accessories, ASTM F1554 (depth of embedment = 350mm) Anchor Bolts, $\varnothing 16\text{mm} \times 400\text{mm} \times$ <u> </u> MM thread w/ Std <u> </u> Nuts & <u> </u> Washer, 6. Metal Structure Accessories, ASTM F1554 (depth of embedment = 200mm) 	<p>The thread length will depend on the actual usage during construction.</p>

<p>Anchor Bolts, Ø20mm x 250mm x <u> </u> MM thread w/ Std <u> </u> Nuts & <u> </u> Washer,</p> <p>7. Metal Structure Accessories, ASTM F1554 (depth of embedment = 900mm) Anchor Bolts, Ø25mm x 1000mm x <u> </u> MM thread w/ Std <u> </u> Nuts & <u> </u> Washer,</p> <p>Metal Structure and Accessories, Stud Anchor Ø12mm X MML w/ Std Nuts & Washer</p>	
<p>Q105. Item 1111(1)b Concrete Primary Pole 45 ft. and Item 1111(1)d2 Concrete Secondary Pole 35 ft.</p> <p>Kindly provide us the detail drawing of concrete primary pole and concrete secondary pole which and not included in the given plan.</p>	<p>Please refer to Electrical Drawing Sheet Nos. E0-4a and E0-4b.</p>
<p>Q106. Main Entrance/Exit Gate and Alternate Entrance/Exit Gate.</p> <p>Based on the given description at Bill of Quantities the 100x75x4mm thk., 50x75x4mm thk and 50x50x4m thk. Tubular bar are all painted finish only. Please confirm.</p>	<p>Yes, the tubular bars are all painted finish only.</p>
<p>Q107. Item 405(1)f 'Structural Concrete, Class A (fc=24.10 MPa) @ 27 Days (RC Retaining Wall, includes Weep Holes, Gravel Filter, and Filter Cloth) = 2,715.55 cu.m.</p> <p>Kindly provide us the schedule/location of this item which are not included in the given plan.</p>	<p>Please refer to Civil Drawing Sheet No. C-22 for the details of the retaining wall.</p>
<p>Q108. Item 1039*1) Aluminum Cladding 4.0mm thk.</p> <p>Kindly confirm that the thickness of aluminum cladding is 4.0mm thk.</p>	<p>Yes, the thickness of Item 1039(1) - Aluminum Cladding is 4.00 mm.</p>
<p>Q109. BOQ.</p> <p>In BOQ Item no. 1201 (8) a of WATER SYSTEM / TRANSMISSION LINE the capacity of Elevated Water Tank is 4600 Liters, while in the detail Drawing</p>	<p>Item 1201 (8)a refers to the water storage tank for Bldg. 29.2. The capacity of the elevated water tank is 100,000 liters as indicated in Drawing Sheet No.</p>

No. P29-1 it was mentioned that the capacity is 100,000 liters. Which one will prevail?	P29-1.
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All other provisions in the Terms of Reference and statements in the Bidding Documents or previous Supplemental/Bid Bulletin/s that are inconsistent to this Bid Bulletin are deemed amended or modified.

Issued on 10 March 2023.

BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE (BAC-I)


ATTY. GISELA Z. KALALO
Chairperson

LINKS FOR THE ANNEXES:

Annex A - CMS Office Plan

https://drive.google.com/file/d/1In5Nt5lmPHYLuDjXoYOeo6m0Zh_AS3ah/view?usp=sharing

Annex B - Geotechnical Survey Report

https://drive.google.com/file/d/1p1eq1_L-jMrzTui_TMsg5PdccFyzpNIY/view?usp=sharing