

REPUBLIC OF THE PHILIPPINES



**MUNICIPALITY OF BURGOS,
LA UNION**

**CONCRETING OF ACCESS ROAD
TO BRGY. PLAZA, BILIS**

**Sixth Edition
July 2020**

Republic of the Philippines



Government Procurement Policy Board



Republic of the Philippines
Province of La Union
MUNICIPALITY OF BURGOS
OFFICE OF THE MUNICIPAL ENGINEER

PROGRAM OF WORK

PROJECT: Concreting of Access Road to Barangay Plaza @ Bilis
LOCATION: Bilis, Burgos, La Union

Project Category:	Local Access Roads
Source of Fund:	2022 20% Development Fund
Project Duration:	47 calendar days
Mode of Implementation:	Public Bidding
Appropriation:	700,000.00
Thickness of Pavement:	0.20 meters
Length of Pavement:	75.00 meters
Pavement Width:	4.00 meters
Stone Masonry Volume:	62.50 cu.m.
Date:	04-Jul-22
Starting Date:	upon approval

TECHNICAL PERSONNEL NEEDED:	No:
Project Engineer	1
Construction Foreman	1
Safety Practitioners	1
Mason	2
Laborers	10
First Aiders	1

EQUIPMENTS TO BE USED:	No:	
Mini Dump Trucks	2	
Vibratory Road Compactor, 1.5 tons	1	Power Tools
Concrete Mixers	1	Hand Tools
Concrete Vibrator	1	
Backhoe Crawler (0.75 - 1.0 cu.m)	1	

SCOPE OF WORKS:			
100 Clearing and Grubbing	311	Portland Cement Concrete Pavement	
102 Excavation	505	Stone Masonry	
105(1) Subgrade Preparation	SPL1	Other General Requirements	
201 Aggregate Base Course			

ESTIMATED COST OF PROPOSED WORK

Item No.	DESCRIPTION	% of Total	Quantity	Unit	Unit Direct Cost	Adjusted Unit Cost	Total Contract Cost
100	Clearing and Grubbing	4.82%	300.00	sq.m.	85.66	112.43	33,728.36
102	Excavation	4.28%	62.50	cu.m.	365.17	479.28	29,955.06
105(1)	Subgrade Preparation	1.27%	300.00	sq.m.	22.50	29.54	8,860.56
201	Aggregate Base Course	4.38%	300.00	sq.m.	77.84	102.16	30,648.06
311	Portland Cement Concrete Pavement	51.23%	300.00	sq.m.	909.82	1,194.13	358,240.31
505	Stone Masonry	33.15%	62.50	cu.m.	2,826.48	3,709.76	231,859.69
SPL1	Other General Requirements	0.86%	1.00	lot	5,744.00	6,031.20	6,031.20
		100.00%					699,323.23

BREAKDOWN OF ESTIMATED EXPENDITURES	% of TOTAL	AMOUNT	TOTAL AMOUNT
I. ESTIMATED COST:			
A. DIRECT COST:	76.35%		533,966.50
1. Materials:	50.62%	354,010.00	
1.1. Supply and Delivery			
1.2. Testing of Materials			
2. Labor (including fringe benefits)	14.40%	100,674.00	
3. Equipment Expenses	11.34%	79,282.50	
3.1. Rentals			
3.2. Fuel, Oil, Lubricants and etc.			
B. INDIRECT COST:	23.65%		165,356.73
1. Overhead, Contingency and Miscellaneous (OCM) (15% of Total Estimated Direct Cost)	11.33%	79,233.38	
2. Contractor's Profit (CP) (10% of Total Estimated Direct Cost)	7.55%	52,822.25	
3. Value Added Tax (VAT) (5% of Total Estimated Direct Cost and Indirect Cost)	4.76%	33,301.11	
SUB TOTAL I:		100.00%	699,323.23
II. GOVERNMENT EXPENDITURES:			
A. Engineering and Administrative Overhead: (up to 3% of Total Estimated Contract Cost)	0.00%		-
SUB TOTAL II:		0.00%	-
III. CONTINGENCIES AND PROJECT RESERVES:			
A. Physical Contingency: (up to 0.5% of Total Estimated Contract Cost)	0.00%		-
SUB TOTAL III:		0.00%	-
GRAND TOTAL (sub-total I+ sub- total II+ sub-total III):		100.00%	699,323.23
TOTAL ESTIMATED CONSTRUCTION COST:		say:	700,000.00

Prepared and Submitted by:


EDWARD N. GALLARDO
 Architect

Checked by:


FERDINAND S. RAMOS
 Municipal Engineer

Approved:


DELFIN C. COMEDIS JR.
 Municipal Mayor

Program of Work



Republic of the Philippines
Province of La Union

MUNICIPALITY OF BURGOS
OFFICE OF THE MUNICIPAL ENGINEER

APPROVED BUDGET FOR THE CONTRACT (ABC)

PROJECT: Concreting of Access Road to Barangay Plaza @ Bilis
LOCATION: Bilis, Burgos, La Union

Contract Reference Number: _____
Contract Duration: 47 days

Item No.	DESCRIPTION	Quantity	Unit	Estimated Direct Cost (EDC)	Mark-Ups in Percent		Total Mark-Up		VAT	Total Indirect Cost	Total Cost	Unit Cost
					OCM	CP	%	Value				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
100	Cleaning and Grubbing	300.00	sq.m.	25,697.80	15%	10%	25%	6,424.45	1,606.11	8,030.56	33,728.36	112.43
102	Excavation	62.50	cu.m.	22,822.90	15%	10%	25%	5,705.73	1,426.43	7,132.16	29,955.06	479.28
105(1)	Subgrade Preparation	300.00	sq.m.	6,750.90	15%	10%	25%	1,687.73	421.93	2,109.66	8,860.56	29.54
201	Aggregate Base Course	300.00	sq.m.	23,350.90	15%	10%	25%	5,837.73	1,459.43	7,297.16	30,648.06	102.16
311	Portland Cement Concrete Pavement	300.00	sq.m.	272,945.00	15%	10%	25%	68,236.25	17,059.06	85,295.31	358,240.31	1,194.13
505	Stone Masonry	62.50	cu.m.	176,655.00	15%	10%	25%	44,163.75	11,040.94	55,204.69	231,859.69	3,709.76
SPL1	Other General Requirements	1.00	lot	5,744.00					287.20	287.20	6,031.20	6,031.20
TOTAL:								Six Hundred Ninety Nine Thousand Three Hundred Twenty Three Pesos and 23/100 cents			699,323.23	

Prepared and Submitted by:

Ed. N. Gallardo
EDWARD N. GALLARDO
Architect

Checked by:

Ferdinand Ramos
Ferdinand Ramos
Municipal Engineer

Approved:

Delfin C. Comedis Jr.
DELFIN C. COMEDIS JR.
Municipal Mayor

OCM = Overhead, Contingencies and Miscellaneous

CP = Contractor's Profit

VAT = Value Added Tax

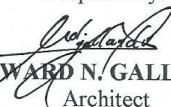
Note: This ABC is based on DPWH D.O. 197, series of 2016

Approved Budget for the Contract

GENERAL SPECIFICATIONS

CONCRETING OF ACCESS ROAD TO BARANGAY PLAZA at Bilis, Burgos, La Union

Prepared by:


EDWARD N. GALLARDO
Architect

Checked by:


FERDINAND G. RAMOS
Municipal Engineer

Approved by:


DELFIN C. COMEDIS JR.
Municipal Mayor

A. INTENT AND APPLICATION OF THE PROVISIONS OF THIS SECTION

1. This section is prepared in a concise manner, the intention of which is to save paper, time and effort in locating important contents within the Specifications.
2. Execution of this Section shall be coordinated and harmonized to each corresponding elaborated section of these same specifications.
3. In case discrepancies exist between this Section and its corresponding elaborated sections, notify the Procuring Entity immediately for clarification; their decision shall be final.
4. The Contractor shall bear the responsibility of checking all the numbers and units as indicated in the Bill of Quantities. It is understood that the Contractor shall supply and install the required units in accordance with the Plans and the Specifications.
5. In their bid proposal, the bidders may propose materials or equipment or makes other than those specified in the BOQ and/or Specifications, provided they are of equivalent specifications and functionalities.
6. During project implementation, the winning bidder/contractor may propose substitution of materials or equipment or makes other than those specified in the Contract documents shall be subject to the approval of the Procuring Entity for the following reasons only:
 - a. That the materials or equipment proposed for substitution is equal or superior to the materials or equipment specified in construction efficiency and utility provided that any and all costs relative thereof shall be shouldered by the Contractor.
 - b. Or that the materials or equipment specified cannot be delivered to the job site on time to complete the work of the other Contractors due to conditions beyond the control of the Contractor.
 - c. In case of a price difference, the Procuring Entity shall receive all benefits of the difference in cost involved in any substitution and the Contract shall be altered by Change Order to credit the Procuring Entity with any savings so obtained.
7. To receive consideration, request(s) for substitution shall be accompanied by documentary proof of equality or difference in price and delivery, if any, in the form of certified quotations and guaranteed date of delivery from suppliers of either the proposed substituted materials or equipment.

B. GENERAL CONDITIONS OF PLANS AND SPECIFICATIONS

1. The execution of this Specification, Plans and other related Contract Documents shall be subjected to the rules and regulations as provided in the General Conditions of the Contract. The Plans and specifications shall be interpreted by the Procuring Entity and or his/her representative. The Contractor is enjoined to confer with the Procuring Entity on items for clarification before submitting his bid. No excuses shall be entertained for misinterpretation of the Plans and specifications after the award of contract. All work as deemed required by the Procuring Entity shall be carried out properly by the Contractor.
2. The Contractor shall consult the Procuring Entity on portion of the work not mentioned in the Specification and not illustrated on the Plans. He shall not work without proper instruction or detailed plans approved by the Procuring Entity, otherwise he shall be responsible for acceptance of the work done without details. In such case, the Contractor shall make good the work at his own expense.
3. No alteration or addition shall be allowed without the consent and proper documentation approved by the Procuring Entity, even such change is ordered by the Procuring Entity. The Contractor shall bring the case to the Procuring Entity. Request for approval of such changes, alteration, deviation of work shall not be done without the consent of the Procuring Entity. Changes may be presented to the Procuring Entity in the form of shop drawings.
4. TWO (2) SET of clean Plans and specification shall always be kept at the jobsite to be available to the Procuring Entity or their representative upon his request during the construction.
5. The contractor shall conduct testing of materials according to the scope of works stipulated in the contract. In case of PCCP, the contractor shall submit compressive strength test, slump test, result on test analysis of materials used. In case of Stone masonry, submit test analysis of materials used such as cement, sand, boulders and gravels. In case of embankments and backfill works, the contractor shall submit result of field density test.

C. GENERAL REQUIREMENTS

1. The contractor shall be responsible for securing all bonds, insurances, taxes, etc.), Contractor's All Risk Insurance & Third Party Liability and Workman's Compensation Insurance (CARI), contractors tax, and other insurances required by the Local Government Unit (LGU) among others, including payment of assessed fees as may be required by the LGU, before the implementation of the project. All related documents shall be submitted to the Procuring Entity.

D. SCOPE OF WORK

1. The Contractor shall conduct thorough inspection of the existing job site conditions.
 - 1.1. The scope of work shall include all additions necessary in order to implement the whole set of approved Plans, Working Drawings and Specifications.
2. The Contractor shall secure and do all the legwork necessary for all pertinent permits needed for the Procuring Entity to occupy and use of the project site.
 - 2.1. Shop drawings of stake out plan and actual reference marks shall be verified and approved by the Procuring Entity prior to any permanent construction. He shall refer to the General Nature and Scope of Work and other Bid Documents for more extensive description of the work.
 - 2.2. The Contractor shall submit details and shop drawings, templates, and schedules required for the coordination of the work of the various trades. Drawings should include information on all working dimensions, arrangement and sectional views, connections and materials.
 - 2.3. Final Cleaning as Pre-requisite to Final Completion: Final cleaning of the work shall be employed by the Contractor prior to the Procuring Entity's final inspection for certification of final completion. Final Cleaning shall be applied on each surface or unit of work and shall be of condition expected for a first class structure cleaning and maintenance program.
 - 2.4. The Contractor shall be responsible for the safety and safe working practices of its respective employees, servants and agents and in compliance with the Construction Safety and Health Program (CSHP) submitted, make sure that the CSHP was approved by Department of Labor and Employment (DOLE) before the start of activity.
3. The Procuring Entity may at any time without invalidating the Contract make changes by altering, adding to or deducting from the work as covered by the drawings, specifications, and general scope in written instructions. Provisions under General Conditions of the contract cover such circumstances.

E. SITE WORK

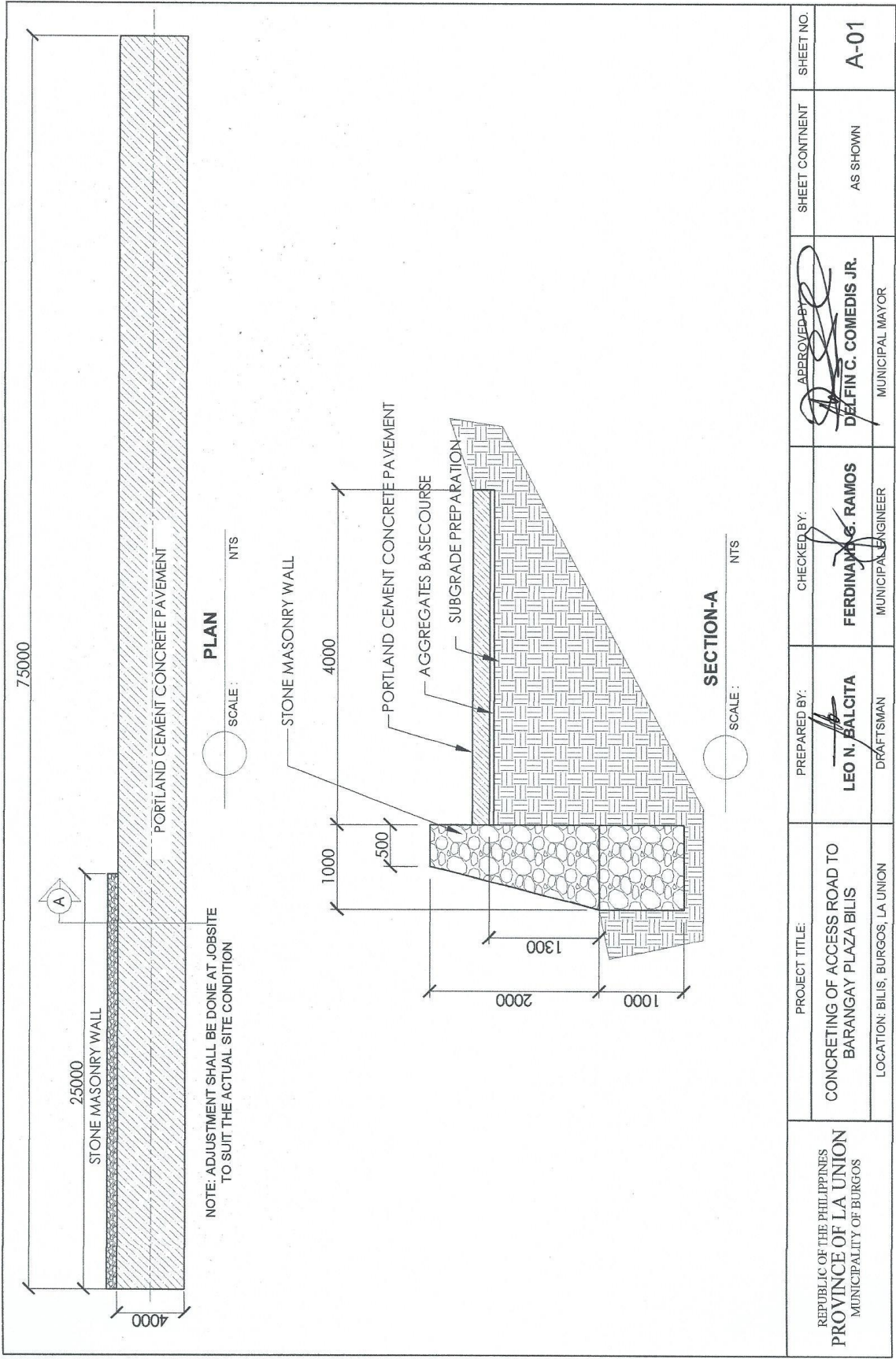
- A. VISIT AND ACCEPT SITE, AS IS. The following works shall be included:
 1. Site Clearing: Protection and/or removal of existing structures with the approval from the Procuring Entity.
 2. Removal of improvements above and below grade (if any) necessary to permit construction and other work as indicated. The Procuring Entity must be consulted prior to any demolition. Coordination with Planning Office & proper investigation is to be conducted to avoid damage on existing utilities. Rubbish shall be legally and properly disposed of. Other items for relocation / demolition will be discussed in the Pre-Bid Conference.
- B. SITE SAFETY REQUIREMENTS:
 1. The Contractor shall maintain a temporary board - up, security for the proper execution of site up-keeping. Such board-up shall be built where necessary for the proper execution of the work.
- C. TEMPORARY SITE FACILITIES
 1. Temporary Facilities: The contractor may provide an office for the following: Construction site office: complete Resident Architect's / Engineers office for business related to the supervision of the project.
 2. Other Temporary Provisions:
 - 2.1. The Contractor shall provide all temporary lighting, power, water supply and all necessary facilities sufficient enough for the simultaneous use of all possible fields of work to complete the project.
 - 2.2. The Contractor shall provide the necessary number of warehousemen to ensure security of construction site.
 - 2.3. The Contractor shall provide at necessary number of units of Fire extinguishers.
 - 2.4. The Contractor shall provide signboards for precautions for Public Safety and Project Billboard in compliance with COA circular and for transparency purposes.
 - 2.5. Other provisions as required by the National Building Code.
 - 2.6. All others required as discussed in the Pre-Bid Conference or as issued Supplemental Bid Bulletins.
- D. STORAGE AND FILING OF MATERIALS
 1. Delivery: The Contractor shall ensure that materials are properly turned over and delivered on site in good quality and condition. A time and delivery record shall be available.
 2. Storage: The Contractor shall designate and/or allot a space to sub-contractors for storage of their materials and for erection of their sheds and tool houses (if necessary). Materials shall be arranged properly and accordingly in terms of sizes, quality, quantity, category and time of use.
 3. Warehouse shall be maintained properly by a designated person of the Contractor.
 4. All cement, lime and other materials affected by moisture shall be stored on platforms and protected from weather. Materials shall be stored as to insure the preservation of their quality and fitness for their work. Stored materials shall be located so as to facilitate prompt inspection.
 5. Should it be necessary at any time to move materials, sheds or storage platforms, the Contractor shall do so at his own expense.
 6. Photographs: The Contractor shall provide record photographs taken as, when and where directed by the Procuring Entity at intervals of one week. The photographs shall be sufficient in number and location to

record the exact progress of the works. The Contractor shall provide three sets proof print of each photograph taken. The photographs retained by the Engineer one set of copy and will become the property of the Government and the Contractor shall supply approved albums to accommodate them.

7. The contractor shall maintain at all times at the project site the following and readily available upon request of Inspection teams:
 - a. Approved Plans and Working Drawings
 - b. General Specifications
 - c. Project Logbook
 - d. Works Schedule and S-Curve
 - e. Materials Logbook
 - f. Report on Concreting Works
 - g. Site inspection file
 - h. Pouring permits
 - i. Progress photographs

F. ITEM SPECIFICATIONS

All corresponding items stipulated in the Program of works shall be in conformity with the provision on the Blue Book set by the Department of Public Works and Highways, the Standard Specifications for Highways, Bridges and Airports, Volume II, 2013 Edition.



REPUBLIC OF THE PHILIPPINES PROVINCE OF LA UNION MUNICIPALITY OF BURGOS	PROJECT TITLE: CONCRETING OF ACCESS ROAD TO BARANGAY PLAZA BILIS	PREPARED BY: LEO N. BALCITA DRAFTSMAN	CHECKED BY: FERNANDO G. RAMOS MUNICIPAL ENGINEER	APPROVED BY: DELVIN C. COMEDIS JR. MUNICIPAL MAYOR	SHEET CONTNENT AS SHOWN	SHEET NO. A-01
	LOCATION: BILIS, BURGOS, LA UNION					