

SECTION D – FORM OF BID,
BILL OF QUANTITIES,
APPENDICES TO THE BID,
AND DAYWORK SCHEDULE.

SECTION D

BID FORMS AND APPENDICES TO BID

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FORM OF BID

To : THE HONORABLE SECRETARY
Department of Public Works and Highways
Bonifacio Drive, Port Area
Manila, Philippines

From : _____
(Name of Bidder)

(Address of Bidder)

For : UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-
PHILIPPINE HIGHWAY PROJECT
CABANATUAN BYPASS (STA. 121+600.00–STA. 134+731.828)
CONTRACT PACKAGE NO. IV
PROVINCE OF NUEVA ECIIJA

1. Having examined the Bidding documents for the execution of the above-named Works, visited the Site and familiarized ourselves with the conditions and requirements affecting the cost of works, we the undersigned, offer to execute and complete such Works and remedy any defects therein in conformity with the Contract Documents for the _____ sum of _____ **PESOS ONLY** (P _____) or such other as may be ascertained in accordance with the Contract Documents.
2. If this Bid together with the Appendices hereof is accepted and written notice thereof is received by the Undersigned by mail, telegraph, fax or by hand, within one hundred twenty (120) calendar days after the date for opening of Bids or any time thereafter before this Bid is withdrawn, the Undersigned will, within thirty (30) calendar days of such receipt, enter into and execute a Contract Agreement and furnish a Performance Security from _____ in the sum of **PESOS** _____ (P _____) or in the event this guarantee is deemed insufficient and unacceptable to you, the Undersigned shall provide another good and sufficient surety acceptable to you from a bank to be jointly and severally acceptable bound with the Undersigned for due performance of the Contract under terms of a security to be approved by you.
3. The Undersigned undertake(s) to commence the Works on the date specified in the Notice to Proceed, and to complete and deliver the whole Works comprised in the Contract within _____ (____) **calendar days** calculated from the date of receipt of the Notification of Award and in accordance with the Contract Execution Schedule provided in the Special Conditions of Contract.
4. The Undersigned agree(s) to abide by this Bid for a period of **One Hundred Twenty (120) calendar days** from the date fixed for receiving the same and it shall remain binding to the Undersigned and maybe accepted at anytime before the expiration of that period.
5. Unless and until a formal agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us.

- 6. The Undersigned understands that you are not bound to accept the lowest or any Bid you may receive.
- 7. Receipt of the following Addenda to the Bid Documents for the project is acknowledged:

| | |
|--------------------|-------------|
| Addendum No. _____ | Dated _____ |
| Addendum No. _____ | Dated _____ |
| Addendum No. _____ | Dated _____ |
| Addendum No. _____ | Dated _____ |

Dated this _____ day of _____, 200_____

Signature : _____

Printed Name : _____

In the Capacity of : _____

Duly Authorized to Sign for and in Behalf of :

(In Block Capitals)

Bidder is : Single Proprietorship ()
 Partnership ()
 Corporation ()
 Joint Venture ()
 (Check one as the case may be)

Business Address of Bidder (If **Single Proprietorship**) :

If Bidder is a *Partnership or Joint Venture*, fill in the following blank:

Name and Business Address of Partners:

If the Bidder is a *Corporation*, fill in the following blanks:

Organized under the Laws of: _____
(Country)

Name and Home Address of the President

Name and Home Address of the Treasurer:

GENERAL REQUIREMENTS

| | | <u>CLAUSES</u> |
|---|--|-----------------------|
| Amount of Bid Security | 1% or 1 ½ of Bid Price depending on the Form of Security | A - 5.8.2 |
| Signing of Contract | 30 Calendar Days from Receipt of Notice of Award | A - 9.3.1 |
| Issuance of Notice To Proceed | 15 Calendar Days upon Signing of Contract | A - 9.6.1 |
| Amount of Performance Security | 5% up to 10% of Contract Cost Depending on the Form of Security Posted by Contractor | A - 9.4.1 |
| Minimum Amount Of Third Party Insurance | P 500,000 per occurrence, with number of occurrence unlimited | B - 18.3 |
| Time for Completion | 960 Calendar Days | B - 8.2 |
| Effectivity of Contract | As specified in the Notice to Proceed | B - 8.1 |
| Amount of Liquidated Damages | $VUUP \times [(1+OCC)^n - 1] \times K$ | B - 8.7 |
| Limit of Liquidated Damages | Not to exceed fifteen percent (15%) of the Contract Cost | B - 8.7 |
| Defects Liability Period | 365 Calendar Days | B - 11.1 |
| Minimum Amount of Interim Certificates | P7,000,000.00 | B - 14.4 |
| Retention Money | 10% of Progress Payment | B - 14.9 |
| Advance Payment | 15% of Contract Price (to be made into Two (2) equal installments) | B - 14.2 |
| Re-Payment of Advance Payment | After Certification of Twenty Percent (20%) of the Contract less Provisional Sum | B - 14.2 |

APPENDIX 1

CLAUSES

| | | |
|---|--|-------------------|
| Monthly Amortization of Advance Payment | Twenty Percent of the amount of Monthly Interim Payment Certificates | B - 14.2 |
| Time of Payment (interim certificate) | Twenty eight (28) days after delivery of Interim Certificate to the Employer | B -14.4 & B -14.7 |
| | Fifty six (56) days after Final Certificate Has been delivered to the Employer | |
| Final Statement | 90 Calendar Days | B -14.13 |

Legend **A – VOLUME I (Proposal Book)**
 B - VOLUME II (Conditions of Contract)

Dated this _____ day of _____, 200__

Signature : _____

Printed Name : _____

In the Capacity of : _____

Duly Authorized to Sign for and in Behalf of :

(In Block Capitals)

APPENDIX 2 TO THE BID

FOREIGN CURRENCY REQUIREMENTS

The total (i.e. maximum) requirements of foreign currencies for expenses incurred outside the Philippines will be in accordance with cost breakdown for the various main items of work as shown in "Summary of Costs" in the Schedule of Bid, subject to such adjustments as may be agreed upon with the Employer. These sums shall include salaries and wages of all staff employed by the Contractor on this Contract.

A. SCHEDULE OF FOREIGN CURRENCIES REQUIRED

| AMOUNT IN FOREIGN CURRENCY | % OF TOTAL BID AMOUNT |
|-----------------------------------|------------------------------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

B. EXCHANGE RATE

For purpose of Bid preparation, the exchange rate to be adopted shall be the selling rates for similar transactions prevailing on the date twenty eight (28) prior to the date of Bid opening, as published by the Bangko Sentral ng Pilipinas. The contractor shall indicate below the exchange rate used in the preparation of his Bid.

Philippine Peso 1.00 = _____

NOTE: The corresponding percentage covering the amount in foreign currency shall be adjusted proportionately to the fluctuation of the average exchange rate used in the bid preparation and the exchange rate to be used in the payment to the Contractor.

C. ESTIMATED REQUIREMENTS OF FOREIGN CURRENCY

| Schedule | Amount in Foreign Currency | Equivalent in Pesos Amount in Peso |
|-----------------------|-----------------------------------|---|
| 1 st Year | _____ | _____ |
| 2 nd Year | _____ | _____ |
| Balance on Completion | _____ | _____ |

Dated this _____ day of _____, 200_____

Signature : _____

Printed Name : _____

In the Capacity of : _____

Duly Authorized to Sign bids for and on Behalf of : _____

(In Block Capitals)

LIST OF MINIMUM ESSENTIAL PLANT/EQUIPMENT REQUIREMENTS

UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN PHILIPPINE HIGHWAY PROJECT
CABANATUAN BYPASS (STA. 121+600.00–STA. 134+731.828)
CONTRACT PACKAGE NO. IV

| Description | Capacity | Required No. <Owned or Leased> |
|---|----------------------------|-----------------------------------|
| Major Equipment | | |
| Concrete Batch Plant | 60 m ³ /hr | 1 |
| Rock Crushing Plant | 60 – 100 Tons/hr | 1 |
| Washing and Screening Plant | 100 Tons/hr | 1 |
| Asphalt Mixing Plant | 60 Tons/hr | 1 |
| Bored Pile Equipment (Comp. set) | 0.80–1.20mdia. | 1 |
| Bulldozer, Crawler w/ Ripper | D6 – D7 | 3 |
| Bulldozer, Crawler Type | D8 | 3 |
| Motor Grader | 125 – 160 H.P. | 4 |
| Wheel Loader | 1.34 – 2.7 m ³ | 4 |
| Dump Truck | 9 – 14 m ³ | 20 |
| Steel Drum Roller | 16 – 20 Tons | 3 |
| Vibratory Roller | 10 – 12 Tons | 3 |
| Pneumatic Roller | 24 tons | 2 |
| Concrete Pump, Truck or Trailer Mounted, w/ Booms Pipe & Acces. | | 1 |
| Water Truck w/ Sprinkler | 3,000 gals. | 2 |
| Asphalt Distributor | 3,000 USG | 1 |
| Asphalt Paver/Finisher | 10 Ft. Wide | 1 |
| Concrete Paver/Finisher (Slip Form) | 10 Ft. Wide | 1 |
| Crawler Mounted Crane | 30 Tons | 2 |
| Crawler Mounted Crane | 61 – 70 tons | 2 |
| Truck Mounted Crane | 50 Tons | 2 |
| Transit Mixer | 5.0 – 7.50 m ³ | 8 |
| Backhoe, Crawler Type | 0.60 – 1.50 m ³ | 6 |
| Low Bed Trailer w/ Tractor | 60 – 70 Tons | 2 |
| Prestressing Jack | 60 tons | 1 |
| Flat Jack | 2 tons | 1 |
| Calibration Machine | | 1 |
| Pile Hammer | 7500 kg/m | 1 |

dated this _____ day of _____, 200__

Signature : _____

Printed Name : _____

In the Capacity of _____

Duly Authorized to Sign for and in Behalf of : _____
(In Block Capitals)

30 April 1990

**DEPARTMENT ORDER
NO. 80
SERIES OF 1990**

**SUBJECT : INCLUSION OF THE MINIMUM MATERIALS TESTING
EQUIPMENT IN THE PREQUALIFICATION OF
CONTRACTORS**

In consonance with PD 1594 and its Implementing Rules and Regulations as amended 13 April 1988, relative to the prequalification of contractors, and supplementary to Department Order No 36, series of 1987, regarding minimum equipment requirements, henceforth, the evaluation of the Contractor's technical capability and financial capacity by the Prequalification, Bids and Awards Committee shall include the minimum materials testing equipment to effectively ensure the incorporation of the right quality of materials in the project.

This minimum materials testing equipment shall be on a "per contractor" basis, and not on a "per project" basis, i.e., the equipment may be used to service several on-going projects of the contractors.

Annexes 1, 2 and 3 present the list of the minimum materials testing equipment for small, medium and large contractors, respectively as categorized under Department Order No. 41, series of 1987, which will form part of the evaluation of the contractor's capability.

As such, the list of major materials testing equipment in running condition owned by contractor, supported with proofs of ownership, shall be added under Item 2 (Equipment) of the Technical Aspects, as indicated in the prescribed format for the Contractor's Confidential Prequalification Statement (Phase II).

This order shall take effect immediately.

**FIORIELLO R. ESTUAR (Sgd.)
Secretary**

Attachment : As stated

**MINIMUM MATERIALS TESTING EQUIPMENT
FOR LARGE CONTRACTORS**

| ITEM NO. | QTY. | UNIT | DESCRIPTION |
|----------|------|------|--|
| 1 | 1 | pc. | Sieve, Std., 200mmØ, opening 75 mm (3") |
| 2 | 1 | pc. | --ditto-- 63 mm (2½") |
| 3 | 1 | pc. | --ditto-- 50 mm (2") |
| 4 | 1 | pc. | --ditto-- 37.5 mm (1½") |
| 5 | 1 | pc. | --ditto-- 25.0 mm (1") |
| 6 | 1 | pc. | --ditto-- 19.0 mm (¾") |
| 7 | 1 | pc. | --ditto-- 12.5 mm (½") |
| 8 | 1 | pc. | --ditto-- 9.5 mm (⅜") |
| 9 | 1 | pc. | --ditto-- 4.75 mm (No. 4) |
| 10 | 1 | pc. | --ditto-- 2.36 mm (No. 8) |
| 11 | 1 | pc. | --ditto-- 2.00 mm (No. 10) |
| 12 | 1 | pc. | --ditto-- 1.18 mm (No. 16) |
| 13 | 1 | pc. | --ditto-- 0.60 mm (No. 30) |
| 14 | 1 | pc. | --ditto-- 0.425 mm (No. 50) |
| 15 | 1 | pc. | --ditto-- 0.300 mm (No. 50) |
| 16 | 1 | pc. | --ditto-- 0.150 mm (No. 100) |
| 17 | 1 | pc. | --ditto-- 0.075 mm (No. 200) |
| 18 | 1 | pc. | Pan, Brass, 200 mm. Ø x 50 mm. deep |
| 19 | 1 | pc. | Cover, Brass, Sieve |
| 20 | 1 | pc. | Brush, Fine, Sieve |
| 21 | 1 | pc. | Brush, Wire, Sieve |
| 22 | 1 | pc. | Balance, Heavy Duty Solution 20 kg, cap 1 g Sensitivity |
| 23 | 1 | pc. | Mortar, Soil, Porcelain, 125 mm. Ø |
| 24 | 1 | pc. | Pestle, Soil, Rubber Tip |
| 25 | 1 | Set | Liquid Limit Test Set, consisting of: 1 Liquid Limit Device 1 Mixing Dish 1 Spatula, Flexible 1 Graduated Cylinder, glass 100 ml. 12 Moisture Content Can, 60 ml. Tin |
| 26 | 1 | pc. | Plate, Plastic Limit |
| 27 | 1 | unit | Balance, Triple Beam, 311g. cap., 0.01g. Sensitivity |
| 28 | 1 | unit | Balance, Triple Beam, 2610g. cap., 0.01g. Sensitivity |
| 29 | 1 | pc. | Hammer, Modified Compaction |
| 30 | 1 | pc. | Mold, Compaction, 101.6 mmØ x 116.4 height |
| 31 | 12 | pc. | Moisture Content Can, 225 ml., tin |

**MINIMUM MATERIALS TESTING EQUIPMENT
FOR LARGE CONTRACTORS**

| ITEM NO. | QTY. | UNIT | DESCRIPTION |
|----------|------|------|--|
| 32 | 1 | | Concrete Moisture, 0.014 cu.m. cap. (1/2 cu.ft.) |
| 33 | 1 | | Straight Edge, Steel 300 mm long |
| 34 | 1 | | CBR Apparatus complete with accessories (Mechanical) |
| 35 | 1 | | Volumetric Flask 500 ml. Cap with stopper |
| 36 | 1 | | Sand Absorption Cone and Tamper |
| 37 | 1 | set | Specific Gravity Test Set or Coarse Aggregate, consisting of: 1 Semi-automatic Precision Balance 5 kg cap., 0.1g Sensitivity 1 Wire Basket |
| 38 | 1 | unit | Los Angeles Abrasion Machine Complete with Abrasive Steel and #12 Sieve |
| 39 | 1 | set | Field Density Test, consisting of: 1 Sand Density Cone 1 Jug, Glass or Plastic, 4-L capacity 1 Density Plate 1 Straight Edge 1 Spoon 1 25 mm. Chisel, steel 1 4L Field Can 1 Mallet, Rubber 1 Scoop, Sand |
| 40 | 1 | set | Auger, Post Hole, with 2 m. extension |
| 41 | 1 | pc. | Cylinder, glass, double graduated, 500 ml. Cap. |
| 42 | 3 | pcs. | Bowl, mixing, 250 mm. Ø x 90 mm. high |
| 43 | 3 | pcs. | Pan, square, G.I. 600 mm x 600 mm x 75 mm |
| 44 | 1 | pc. | Spade or Shovel |
| 45 | 1 | pc. | Pickaxe |
| 46 | 1 | pc. | Crowbar |
| 47 | 1 | unit | Oven, field, with temperature control |
| 48 | 1 | unit | Portable Concrete Mixer |
| 49 | 1 | set | Slump Test Set, consisting of: 1 Slump cone, complete with base tamping road 1 Trowel, triangular or rectangular blade 90mmØ x 180 m 1 Scale |
| 50 | 12 | pcs. | Mold, Steel, Cylinder, 150 mm x 300 mm |
| 51 | 12 | pcs. | Mold, Steel Beam, 150 mm x 150 mm x 450 mm |

**MINIMUM MATERIALS TESTING EQUIPMENT
FOR LARGE CONTRACTORS**

| ITEM NO. | QUANTITY | UNIT | DESCRIPTION |
|----------|----------|-------|--|
| 52 | 1 | pcs | Compression Machine, portable |
| 53 | | unit | Concrete Beam Tester, Flexural Machine |
| 54 | | set | Vertical Capping Set, consisting of: 1 Capping Compound Warmer Pot, 4L cap. 1 Capping Ladle 1 Carton Capping Compound |
| 55 | 1 | unit | Concrete Core Drilling Machine complete with accessories |
| 56 | 1 | pc. | Thermometer, Metal, dial type 0-250C |
| 57 | 1 | unit | Extractor, Centrifuge or Reflux, 1500 g. cap. |
| 58 | 8 | liter | Carbon Tetrachloride |
| 59 | 1 | unit | Marshall Stability Apparatus complete with accessories |

NOTE : Please show proof of ownership

Dated this _____ day of _____, 200__

Signature : _____

Printed Name : _____

In the Capacity of : _____

Duly Authorized to Sign for and in Behalf of :

(In Block Capitals)

BILL OF QUANTITIES – PREAMBLE

1. The Bill of Quantities shall be read in conjunction with the Instruction to Bidders, the General Conditions of Contract, Part I and II, the Standard Specifications, the Special Provisions and the Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices tendered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
3. The rates and prices tendered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all constructional plant, labor, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract.
4. The rates and prices shall be quoted entirely in Philippine Currency (Philippine Peso), while the foreign currency requirements, included in said rates and prices, shall be indicated in the Appendix to bid, see Instructions to Bidders, Clause 5.5.1.
5. Without affecting the generality of the foregoing provisions, the rates and prices entered by the Contractor in the Bill of Quantities shall include the cost and expenses of the following:
 - a) The provision, storage, transportation, use and maintenance of all materials, plant, equipment, machinery and tools.
 - b) Any fee or financial arrangement to be provided to the landowners regarding the use of land and access with respect to any source of materials, use of plant and stockpile.
 - c) The provision of all staff and labor and maintenance of their accommodation, transportation, etc. and the supply of all immigration permits and other requirements.
 - d) Setting out, measuring, inspection and supervision.
 - e) The provision, transportation, use and maintenance of all consumable stores, fuel, water, drainage, electricity and telephone.
 - f) Sampling, testing and trials, including trial lengths of pavement and checking information given by the Engineer.
 - g) Damage caused to the works under construction, plant, materials and consumable stores by weather conditions.
 - h) Repairs to the works during the Period of Maintenance.
 - i) Overheads on costs and profits.

6. A rate or price shall be inserted against each pay item in the Bill of Quantities, whether quantities are stated or not. Pay items against which no rate or price has been entered shall be deemed to be covered by other rates or prices in the Bill of Quantities.
7. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the Priced Bill of Quantities, and where no Items are provided the cost shall be deemed to be attributed among the rates and prices entered for the related Items of Work.
8. The quantities of the various pay items in the Bill of Quantities are approximate only and in no case shall such quantities be considered to limit or extend the amount of work and materials to be supplied by the Contractor under the Contract.
9. The quantity of each and every pay item in the Bill of Quantities executed in accordance with the Contract shall be measured net in the units of the pay items relating to such quantity. Work in excess of that specified or shown on Drawings or ordered by the Engineer will not be paid for.
10. Unless otherwise stated elsewhere in the Contract, payment for all lump sums entered in the Bill of Quantities excluding Provisional Sums will be made by installments in the proportion which the value of the measured works executed at the date of certifying for payment bears to the total value of the measured works set out in the Bill of Quantities.
11. The brief description of the pay items given in the Bill of Quantities is purely for the purpose of identification and in no way modifies or supersedes the detailed description given in the Standard Specifications and/or Special Provisions.
12. Provisional sums included and so designated in the Bill of Quantities, if any, shall be expended in whole or in part at the discretion of the Engineer.
13. Errors will be corrected by the Engineer for any arithmetical errors pursuant to Sub-Clause 8.2.2 of the Instructions to Bidders
14. Rock is defined as all materials which, in the opinion of the Engineer, require blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for its removal, and which cannot be extracted by ripping with a tractor of at least 110 kW with a single rear mounted heavy duty ripper.

Dated this _____ day of _____, 200__

Signature : _____

Printed Name : _____

In the Capacity of : _____

Duly Authorized to Sign for and in Behalf of :

(In Block Capitals)

BILL OF QUANTITIES

SUMMARY OF BILL OF QUANTITIES

UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT

CABANATUAN BYPASS
(STA. 121 + 600.00 - STA. 134 + 731.828)
CONTRACT PACKAGE NO. IV

| PART ITEM | DESCRIPTION | AMOUNT | PERCENT WEIGHT |
|-----------|--|--------|----------------|
| PART A | FACILITIES FOR THE ENGINEER | | |
| PART C | EARTHWORKS | | |
| PART D | SUBBASE AND BASE COURSE | | |
| PART E | SURFACE COURSE | | |
| PART F | BRIDGE CONSTRUCTION | | |
| PART G | DRAINAGE AND SLOPE PROTECTION STRUCTURES | | |
| PART H | MISCELLANEOUS STRUCTURES | | |
| 1 | <i>SUB-TOTAL (PART A TO H)</i> | | |
| PART J | MOBILIZATION and DEMOBILIZATION | | |
| PART K | PROVISIONAL SUM | | |
| 2 | <i>SUB-TOTAL (PART J & K)</i> | | |
| | <i>GRAND TOTAL (1 + 2)</i> | | |

Note: Bidder must fill up this Summary of the Bill of Quantities

Dated this _____ day of _____ 20____

Signature: _____

Printed Name: _____

In the capacity of: _____

Duly authorized to sign for and in behalf of: _____

UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT
CABANATUAN BYPASS
CONTRACT PACKAGE NO. IV

BILL OF QUANTITIES

PART A
FACILITIES FOR THE ENGINEER

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|---|----------|----------|--------------------|----------------|
| A(1)a | Facilities for the Engineer (Provision of Combined Field Office, Laboratory Bldg. and Engr's. Quarter (Pesos _____ and _____ Centavos per Lump Sum) | Lump Sum | 1.00 | | |
| A(1)b | Facilities for the Engineer (Maintenance of Field Office, Lab Bldg. & Engr's Qtr. (Pesos _____ and _____ Centavos per month) | Mo. | 36.00 | | |
| A(1)c | Facilities for the Engineer (Provision of Furnitures and Fixtures for the Field Office, Laboratory Bldg. and Engr's Quarter) (Pesos _____ and _____ Centavos per lump sum) | Lump Sum | 1.00 | | |
| A(1)d | Facilities for the Engineer (Provision of Equipment and Appliances for the Field Office, Laboratory Bldg. and Engr's.) Quarter) (Pesos _____ and _____ Centavos per lump sum) | Lump Sum | 1.00 | | |
| A(1)e | Facilities for the Engineer (Provision of Office Supplies and Consumable Stores (Pesos _____ and _____ Centavos per month) | Mo. | 36.00 | | |
| Sub-total for this Page | | | | | |

Note: Bidder must fill up this section of the Bill of Quantities

Dated this _____ day of _____ 20__

Signature: _____

Printed Name: _____

In the capacity of: _____

Duly authorized to sign for and in behalf of: _____

UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT
CABANATUAN BYPASS
CONTRACT PACKAGE NO. IV

BILL OF QUANTITIES

PART A
FACILITIES FOR THE ENGINEER

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|----------|----------|--------------------|----------------|
| A(1)f | Facilities for the Engineer (Provide/Operate / Maintain Communication Equipments for the Engineer) (Pesos _____ _____ and _____ Centavos per month) | Mo | 36.00 | | |
| A(2)a | Facilities for the Engineer (Rental of one (1) service vehicle - car (sedan) (Operation and Maintenance included) (Pesos _____ _____ and _____ Centavos per vehicle month) | veh-mo | 36.00 | | |
| A(2)b | Facilities for the Engineer (Rental of two (2) service vehicles - wagon (Operation and Maintenance included) (Pesos _____ _____ and _____ Centavos per vehicle month) | veh-mo | 72.00 | | |
| A(2)c | Facilities for the Engineer (Rental of three (3) service vehicles-pick - ups, (Operation and Maintenance included) (Pesos _____ _____ and _____ Centavos per vehicle month) | veh-mo | 108.00 | | |
| A(3)a | Facilities for the Engineer (Provision of Testing Equipments, Apparatus and Publications) (Pesos _____ _____ and _____ Centavos per lump sum) | lump sum | 1.00 | | |
| Sub-total for this Page | | | | | |

Note: Bidder must fill up this section of the Bill of Quantities

Dated this _____ day of _____ 20____

Signature: _____

Printed Name: _____

In the capacity of: _____

Duly authorized to sign for and in behalf of: _____

UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT
 CABANATUAN BYPASS
 CONTRACT PACKAGE NO. IV

BILL OF QUANTITIES

PART A
 FACILITIES FOR THE ENGINEER

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|---|------|----------|--------------------|----------------|
| A(4) | Facilities for the Engineer (Progress Photographs) (Pesos _____ _____ and _____ Centavos each) | each | 1,500.00 | | |
| Sub-total for this Page | | | | | |
| TOTAL FOR PART A | | | | | |

Note: Bidder must fill up this section of the Bill of Quantities

Dated this _____ day of _____ 20____

Signature: _____

Printed Name: _____

In the capacity of: _____

Duly authorized to sign for and in behalf of: _____

UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT
CABANATUAN BYPASS
CONTRACT PACKAGE NO. IV

BILL OF QUANTITIES

PART C
EARTHWORKS

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|-------|------------|--------------------|----------------|
| 100(1) | Clearing and Grubbing (Pesos _____ _____ and _____ Centavos per hectare) | ha. | 45.00 | | |
| 100(3) | Individual Removal of Trees, Small (150mm to 900mm diameter) (Pesos _____ _____ and _____ Centavos each) | each | 219.00 | | |
| 100(4) | Individual Removal of Trees, Large (Over 900mm diameter) (Pesos _____ _____ and _____ Centavos each) | each | 27.00 | | |
| 101(2) | Removal of Structures and Obstruction (Pesos _____ _____ and _____ Centavos per lump sum) | l.s. | 1.00 | | |
| 101(3)a | Removal of Existing PCC Pavement (Pesos _____ _____ and _____ Centavos per square meter) | sq.m. | 5,608.00 | | |
| 102(1) | Unsuitable Excavation (Pesos _____ _____ and _____ Centavos per cubic meter) | cu.m. | 119,261.00 | | |
| Sub-total for this Page | | | | | |

Note: Bidder must fill up this section of the Bill of Quantities

Dated this _____ day of _____ 20____

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In the capacity of: _____

Duly authorized to sign for and in behalf of: _____

UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT
 CABANATUAN BYPASS
 CONTRACT PACKAGE NO. IV

BILL OF QUANTITIES

PART C
 EARTHWORKS

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|---|-------|-----------|--------------------|----------------|
| 103(1) | Structure Excavation (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 6,840.00 | | |
| 103(2)a | Bridge Excavation, Common, Above O.W.L. (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 2,856.00 | | |
| 103(2)c | Bridge Excavation, Common Below O.W.L. (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 3,134.00 | | |
| 103(3)a | Gravel Foundation Fill (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 319.00 | | |
| 103(6) | Pipe Culverts and Drain Excavation (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 10,408.00 | | |
| 103(7) | Granular Backfill for Pipe Culvert (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 5,538.00 | | |
| 104(1) | Embankment (From Roadway Excavation) (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 1,952.00 | | |
| Sub-total for this Page | | | | | |

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 CABANATUAN BYPASS
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BILL OF QUANTITIES

PART C
 EARTHWORKS

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|---|-------|------------|--------------------|----------------|
| 104(3)a | Embankment (From Borrow Excavation) (Pesos _____ _____ and _____ Centavos per cubic meter) | cu.m. | 722,610.00 | | |
| 104(3)b | Embankment (from Borrow Excavation for Bridges) (Selected Granular Materials) (Pesos _____ _____ and _____ Centavos per cubic meter) | cu.m. | 1,847.00 | | |
| 105(1) | Subgrade Preparation (Common Materials) (Pesos _____ _____ and _____ Centavos per square meter) | sq.m. | 8,838.00 | | |
| Sub-total for this Page | | | | | |
| TOTAL FOR PART C | | | | | |

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 CABANATUAN BYPASS
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BILL OF QUANTITIES

PART D
 SUBBASE AND BASE COURSE

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|-------|-----------|--------------------|----------------|
| 200(1) | Aggregate Subbase Course (Pesos _____ _____ and _____ Centavos per cubic meter) | cu.m. | 50,253.00 | | |
| 201(1) | Aggregate Base Course (Pesos _____ _____ and _____ Centavos per cubic meter) | cu.m. | 17,826.00 | | |
| Sub-total for this Page | | | | | |
| TOTAL FOR PART D | | | | | |

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BILL OF QUANTITIES

PART E
SURFACE COURSE

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|-------|------------|--------------------|----------------|
| 300(1) | Gravel Surface Course (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 11,694.00 | | |
| 310(2) | Asphalt Mixture Wearing Course (t = 50mm, including Tack Coat) (Pesos _____ and _____ Centavos per square meter) | sq.m. | 2,970.00 | | |
| 311(1)b | PCC Pavement (Plain, 250mm Thick) (Pesos _____ and _____ Centavos per square meter) | sq.m. | 107,595.00 | | |
| 311(1)c | PCC Pavement (Plain, 230mm Thick) (Pesos _____ and _____ Centavos per square meter) | sq.m. | 5,450.00 | | |
| 311(2) | PCC Pavement (Reinforced, 300mm Thick) (Pesos _____ and _____ Centavos per square meter) | sq.m. | 766.00 | | |
| Sub-total for this Page | | | | | |
| TOTAL FOR PART E | | | | | |

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CONTRACT PACKAGE NO. IV

BILL OF QUANTITIES

PART F
BRIDGE CONSTRUCTION

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|------|----------|--------------------|----------------|
| 400(3)a | Steel H Piles, Furnished (BH - Steel Piles, 450mm x 260mm) (Pesos _____ and _____ Centavos per linear meter) | I.m. | 772.00 | | |
| 400(4)b | Precast Concrete Piles, Furnished (450mm x 450mm) (Pesos _____ and _____ Centavos per linear meter) | I.m. | 1,362.00 | | |
| 400(10) | Steel H Piles, Driven (BH - Steel, 450mm x 260mm) (Pesos _____ and _____ Centavos per linear meter) | I.m. | 772.00 | | |
| 400(13)b | Precast Concre Piles, Driven (450mm x 450mm) (Pesos _____ and _____ Centavos per linear meter) | I.m. | 1,254.00 | | |
| 400(15)b | Test Piles, Furnished and Driven (450mm x 450mm) (Pesos _____ and _____ Centavos per linear meter) | I.m. | 73.00 | | |
| 400(15)c | Test Piles, (Steel BH Piles), Driven (450mm x 260mm) (Pesos _____ and _____ Centavos per linear meter) | I.m. | 73.00 | | |
| Sub-total for this Page | | | | | |

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UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT
CABANATUAN BYPASS
CONTRACT PACKAGE NO. IV

BILL OF QUANTITIES

PART F
BRIDGE CONSTRUCTION

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|---|------|----------|-----------------------|-------------------|
| 400(16)a | Concrete Piles Cast in Drilled Holes, 1000mm ϕ (Pesos _____ _____ and _____ Centavos per linear meter) | l.m. | 448.00 | | |
| 400(16)c | Concrete Piles Cast In Drilled Holes, 1500mm ϕ (Pesos _____ _____ and _____ Centavos per linear meter) | l.m. | 1,155.00 | | |
| 400(19)b | Pile Shoes (450mm x 450mm) (Pesos _____ _____ and _____ Centavos each) | each | 90.00 | | |
| 400(21) | Static Pile Load Test (for 1500mm Bored Piles) (Pesos _____ _____ and _____ Centavos each) | each | 2.00 | | |
| SPL 400(23)a | High Strain Dynamic Test for ϕ 1000mm Bored Piles (Pesos _____ _____ and _____ Centavos each) | each | 1.00 | | |
| SPL 400(24) | Pile Integrity Test for Bored Piles of various ϕ (Pesos _____ _____ and _____ Centavos each) | each | 22.00 | | |
| 401(1) | Concrete Railing, Type A (Pesos _____ _____ and _____ Centavos per linear meter) | l.m. | 314.00 | | |
| Sub-total for this Page | | | | | |

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PART F
 BRIDGE CONSTRUCTION

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|-------|------------|--------------------|----------------|
| 401(2)a | Steel Railing, Type A (Pesos _____ and _____ Centavos per linear meter) | m. | 720.00 | | |
| SPL 401(3)c | Bridge Name Plate, 1000mm x 600mm (Pesos _____ and _____ Centavos each) | each | 2.00 | | |
| 404(1) | Reinforcing Steel, Grade 40 (Pesos _____ and _____ Centavos per kilogram) | kg | 521,486.00 | | |
| 404(2) | Reinforcing Steel, Grade 60 (Pesos _____ and _____ Centavos per kilogram) | kg | 780,265.00 | | |
| 405(1)a | Structural Concrete, Class "A" (fc' = 21 Mpa, For Heavily Reinforced Structure) (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 2,994.00 | | |
| 405(1)b | Structural Concrete, Class "A" (fc' = 21 MPa) (For small & medium bridges Substructure) (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 1,069.00 | | |
| Sub-total for this Page | | | | | |

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BILL OF QUANTITIES

PART F
 BRIDGE CONSTRUCTION

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|---|-------|----------|--------------------|----------------|
| 405(1)d | Structural Concrete, Class "A1" (fc' = 21MPa) (For small & medium bridges PCDG Superstructure) (Pesos _____ _____ and _____ Centavos per cubic meter) | cu.m. | 520.00 | | |
| 405(1)e | Structural Concrete, Class "AA1" (fc' = 28 Mpa) (For long bridge substructure) (Pesos _____ _____ and _____ Centavos per cubic meter) | cu.m. | 2,161.00 | | |
| 405(1)f | Structural Concrete, Class "AA2" (fc' = 28 Mpa) (For long bridge superstructure) (Pesos _____ _____ and _____ Centavos per cubic meter) | cu.m. | 980.00 | | |
| 405(2) | Structural Concrete, Class "B" (fc' = 17 Mpa) (For plain & lightly reinforced structure) (Pesos _____ _____ and _____ Centavos per cubic meter) | cu.m. | 2,300.00 | | |
| 405(3) | Structural Concrete, Class "C" (fc' = 21MPa for Thinly Reinforced Member) (Pesos _____ _____ and _____ Centavos per cubic meter) | cu.m. | 411.00 | | |
| 405(6) | Lean Concrete (Pesos _____ _____ and _____ Centavos per cubic meter) | cu.m. | 321.00 | | |
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PART F
BRIDGE CONSTRUCTION

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|------|----------|--------------------|----------------|
| 406(1)a | Prestressed Structural Concrete Member (AASHTO Girder Type IV, L=20.0m) (Pesos _____ and _____ Centavos each) | each | 5.00 | | |
| 406(1)d | Prestressed Structural Concrete Member (AASHTO Girder Type IV, L=25.0m) (Pesos _____ and _____ Centavos each) | each | 20.00 | | |
| 406(1)j | Prestressed Structural Concrete Member (AASHTO Girder Type VI, L=35.00m) (Pesos _____ and _____ Centavos each) | each | 5.00 | | |
| 406(1)k | Prestressed Structural Concrete Member (AASHTO Girder Type VI, L=39.40m) (Pesos _____ and _____ Centavos each) | each | 12.00 | | |
| 406(1)m | Prestressed Structural Concrete Member (AASHTO Girder Type VI, L=39.55m) (Pesos _____ and _____ Centavos each) | each | 24.00 | | |
| 407(1)c | Elastomeric Bearing Pad (600mm x 350mm x 50mm, Duro 60) (Pesos _____ and _____ Centavos each) | each | 60.00 | | |
| Sub-total for this Page | | | | | |

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PART F
 BRIDGE CONSTRUCTION

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|------|----------|--------------------|----------------|
| 407(1)e | Elastomeric Bearing Pad (600mm x 400mm x 50mm, Duro 60) (Pesos _____ _____ and _____ Centavos each) | each | 72.00 | | |
| 407(2)a | Expansion Joint (for +40mm Movement) (Pesos _____ _____ and _____ Centavos per linear meter) | l.m. | 60.00 | | |
| 407(2)b | Expansion Joint (for +50mm Movement) (Pesos _____ _____ and _____ Centavos per linear meter) | l.m. | 51.00 | | |
| 407(2)g | Expansion Joint for 30mm bridge sidewalk (Pesos _____ _____ and _____ Centavos per linear meter) | l.m. | 11.00 | | |
| 407(3)a | Restraining Bar ø32mm x 1495mm (Pesos _____ _____ and _____ Centavos each) | each | 12.00 | | |
| 407(3)b | Restraining Bar ø32mm x 1900mm (Pesos _____ _____ and _____ Centavos each) | each | 12.00 | | |
| 407(4) | G. I. Drain Pipe, 150mm ø (Pesos _____ _____ and _____ Centavos per linear meter) | l.m. | 171.00 | | |
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PART F
 BRIDGE CONSTRUCTION

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|-------|----------|--------------------|----------------|
| SPL 407(5)c | Pier Protection Concrete Blocks (For Talavera Bridge) (Pesos _____ _____ and _____ Centavos per square meter) | sq.m. | 896.00 | | |
| SPL 420(4)c | Temporary Craneway (For Talavera Bridge) (Pesos _____ _____ and _____ Centavos per linear meter) | l.m. | 80.00 | | |
| SPL 420(5)c | Temporary Access Road (Causeway) (For Talavera Bridge Construction) (Pesos _____ _____ and _____ Centavos per linear meter) | l.m. | 300.00 | | |
| SPL 420(6)d | Temporary Cofferdam for Pier Construction (For Talavera Bridge) (Pesos _____ _____ and _____ Centavos each) | each | 3.00 | | |
| Sub-total for this Page | | | | | |
| TOTAL FOR PART F | | | | | |

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BILL OF QUANTITIES

PART G
 DRAINAGE & SLOPE PROTECTION STRUCTURES

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|------|----------|--------------------|----------------|
| 500(1)c6 | Reinforced Concrete Pipe Culvert (910 mm dia.), Class IV (Pesos _____ and _____ Centavos per linear meter) | I.m | 1,925.00 | | |
| 500(1)c7 | Reinforced Concrete Pipe Culvert (1070 mm dia.), Class IV (Pesos _____ and _____ Centavos per linear meter) | I.m | 168.00 | | |
| 500(1)c8 | Reinforced Concrete Pipe Culvert (1220 mm dia.), Class IV (Pesos _____ and _____ Centavos per linear meter) | I.m | 467.00 | | |
| 500(1)c9 | Reinforced Concrete Pipe Culvert (1520 mm dia.), Class IV (Pesos _____ and _____ Centavos per linear meter) | I.m | 104.00 | | |
| 502(4)a1 | U-Shaped Concrete Lined Ditch (500mm x 500mm) (Pesos _____ and _____ Centavos per linear meter) | I.m. | 997.00 | | |
| Sub-total for this Page | | | | | |

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PART G
DRAINAGE & SLOPE PROTECTION STRUCTURES

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|--------------------------------|---|-------|----------|--------------------|----------------|
| 502(6)a | V-Shaped Concrete Lined Ditch (H=500mm; 1:1.00) (Pesos _____ and _____ Centavos per linear meter) | l.m. | 170.00 | | |
| 502(7)a | Trapezoidal Concrete Lined Ditch (450mm x 500mm) (Pesos _____ and _____ Centavos per linear meter) | l.m. | 3,527.00 | | |
| 502(7)b | Trapezoidal Concrete Lined Ditch (1000mm x 500mm) (Pesos _____ and _____ Centavos per linear meter) | l.m. | 564.00 | | |
| 504(5) | Grouted Riprap, Class A (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 532.00 | | |
| 505(1) | Stone Masonry (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 465.00 | | |
| 506(1) | Hand Laid Rock Embankment (Loose Boulder Apron) (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 138.00 | | |
| Sub-total for this Page | | | | | |

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BILL OF QUANTITIES

PART G
 DRAINAGE & SLOPE PROTECTION STRUCTURES

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|---|-------|----------|--------------------|----------------|
| 507(2)b | Steel Sheet Pile, Furnished and Driven 400mm x 85mm x 8mm (Pesos _____ and _____ Centavos per linear meter) | l.m. | 5723.00 | | |
| 507(b2) | Steel Sheet Piles, Furnished and Driven (400mm x 85mm) (Pesos _____ and _____ Centavos per linear meter) | l.m. | 5,040.00 | | |
| 509(1) | Gabions (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 1,566.00 | | |
| 510(1) | Rubble Concrete Slope Protection (Pesos _____ and _____ Centavos per cubic meter) | cu.m. | 196.00 | | |
| Sub-total for this Page | | | | | |
| TOTAL FOR PART G | | | | | |

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BILL OF QUANTITIES

PART H
MISCELLANEOUS STRUCTURES

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|---|------|----------|--------------------|----------------|
| 600(3)a | Combination Concrete Curb and Gutter, Type A (Pesos _____ and _____ Centavos per linear meter) | l.m | 3,406.00 | | |
| 602(1) | Right - Of - Way Concrete Monuments (Pesos _____ and _____ Centavos each) | each | 787.00 | | |
| 602(2) | Maintenance Marker Post (For Drainage Structure) (Pesos _____ and _____ Centavos each) | each | 144.00 | | |
| 602(3) | Kilometer Posts (Pesos _____ and _____ Centavos each) | each | 13.00 | | |
| 603(3)a | Metal Guardrail (Metal Beam), Type A (Pesos _____ and _____ Centavos per linear meter) | l.m. | 3,986.00 | | |
| 605(1)a | Warning Signs, (Triangular 900 mm) (Pesos _____ and _____ Centavos each) | each | 33.00 | | |
| 605(2)b | Regulatory Signs, (Octagonal, 600mm) (Pesos _____ and _____ Centavos each) | each | 10.00 | | |
| Sub-total for this Page | | | | | |

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PART H
 MISCELLANEOUS STRUCTURES

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|------|----------|--------------------|----------------|
| 605(2)c | Regulatory Signs, (Circular, 600mm) (Pesos _____ _____ and _____ Centavos each) | each | 22.00 | | |
| 605(2)d | Regulatory Signs, (Rectangular, 450mm x 750mm) (Pesos _____ _____ and _____ Centavos each) | each | 22.00 | | |
| 605(3)c | Informatory Sign, Type B, Double Post (Pesos _____ _____ and _____ Centavos each) | each | 5.00 | | |
| 605(3)d | Informatory Sign, Type C, Double Post (Pesos _____ _____ and _____ Centavos each) | each | 3.00 | | |
| 607(2)a | Reflectorized Pavement Studs (1- Face Reflective) (Pesos _____ _____ and _____ Centavos each) Centavos each) | each | 10.00 | | |
| 607(2)b | Reflectorized Pavement Studs (2- Face Reflective) (Pesos _____ _____ and _____ Centavos each) | each | 150.00 | | |
| 607(3) | Chatter Bar (1- Face Reflective) (Pesos _____ _____ and _____ Centavos each) | each | 618.00 | | |
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PART H
 MISCELLANEOUS STRUCTURES

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|---|-------|------------|--------------------|----------------|
| 608(1) | Furnishing and Placing Top Soil (Pesos _____ and _____ Centavos per cubic meter) Centavos each) | cu.m. | 40,571.00 | | |
| 610 | Sodding (Pesos _____ and _____ Centavos per square meter) | sq.m. | 209,771.00 | | |
| 611(1)c | Trees (Furnishing and Transplanting) (Pesos _____ and _____ Centavos each) | each | 1,186.00 | | |
| 612(1)a | Reflectorized Thermoplastic Pavement Markings (White) (Pesos _____ and _____ Centavos per square meter) | sq.m. | 5,393.00 | | |
| 612(1)b | Reflectorized Thermoplastic Pavement Markings (Yellow) (Pesos _____ and _____ Centavos per square meter) | sq.m. | 270.00 | | |
| SPL 620(1)b | Traffic Signal Pole, Type A, (H = 6.0m) (Pesos _____ and _____ Centavos each) | each | 5.00 | | |
| SPL 620(1)c | Traffic Signal Pole, Type B, (ø 114.3 x 4.20m) (Pesos _____ and _____ Centavos each) | each | 12.00 | | |
| Sub-total for this Page | | | | | |

Note: Bidder must fill up this section of the Bill of Quantities

Dated this _____ day of _____ 20____

Signature: _____

Printed Name: _____

In the capacity of: _____

Duly authorized to sign for and in behalf of: _____

UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT
 CABANATUAN BYPASS
 CONTRACT PACKAGE NO. IV

BILL OF QUANTITIES

PART H
 MISCELLANEOUS STRUCTURES

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|---|------|----------|--------------------|----------------|
| SPL 620(1)d | Traffic Signal Pole, Type C, (ø 114.3m x 3.4m) (Pesos _____ _____ and _____ Centavos each) | each | 11.00 | | |
| SPL 620(1)e | Traffic Signal Pole, Type D, (ø 114.3m x 3.0m) (Pesos _____ _____ and _____ Centavos each) | each | 7.00 | | |
| SPL 620(2)a | Traffic Signal Lamps, Type A, (6 vehicle lamps) (Pesos _____ _____ and _____ Centavos each) | each | 4.00 | | |
| SPL 620(1)b | Traffic Signal Lamps, Type B, (3 vehicle lamps) (Pesos _____ _____ and _____ Centavos each) | each | 34.00 | | |
| SPL 620(1)c | Traffic Signal Lamps, Type C, (2 pedestrian lamps) (Pesos _____ _____ and _____ Centavos each) | each | 16.00 | | |
| SPL 620(4)a | Street Lighting Poles (Single Lamp) (Pesos _____ _____ and _____ Centavos each) | each | 6.00 | | |
| SPL 620(4)b | Street Lighting Poles (Dual Lamp) (Pesos _____ _____ and _____ Centavos each) | each | 60.00 | | |
| Sub-total for this Page | | | | | |

Note: Bidder must fill up this section of the Bill of Quantities

Dated this _____ day of _____ 20__

Signature: _____

Printed Name: _____

In the capacity of: _____

Duly authorized to sign for and in behalf of: _____

UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT
CABANATUAN BYPASS
CONTRACT PACKAGE NO. IV

BILL OF QUANTITIES

PART H
MISCELLANEOUS STRUCTURES

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|------|----------|--------------------|----------------|
| SPL 620(4) | Bridge Lighting Poles (Single Lamp) (Pesos _____ and _____ Centavos each) | each | 12.00 | | |
| SPL 620(4) | Street Lighting Service Pole (W/ Panel) (Pesos _____ and _____ Centavos each) | each | 4.00 | | |
| Sub-total for this Page | | | | | |
| TOTAL FOR PART H | | | | | |

Note: Bidder must fill up this section of the Bill of Quantities

Dated this _____ day of _____ 20____

Signature: _____

Printed Name: _____

In the capacity of: _____

Duty authorized to sign for and in behalf of: _____

UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT
 CABANATUAN BYPASS
 CONTRACT PACKAGE NO. IV

BILL OF QUANTITIES

PART J
 MOBILIZATION AND DEMOBILIZATION

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|---|----------|----------|--------------------|----------------|
| SPL 800 | Mobilization and Demobilization (Pesos _____ _____ and _____ Centavos per lump sum) | Lump sum | 1.00 | | |
| Sub-total for this Page | | | | | |
| TOTAL FOR PART J | | | | | |

Note: Bidder must fill up this section of the Bill of Quantities

Dated this _____ day of _____ 20_____

Signature: _____

Printed Name: _____

In the capacity of: _____

Duly authorized to sign for and in behalf of: _____

UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT
CABANATUAN BYPASS
CONTRACT PACKAGE NO. IV

BILL OF QUANTITIES

PART K
PROVISIONAL SUM

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|--|-----------|----------|--------------------|----------------|
| SPL 900(1) | Provisional Sum No. 1 (For Traffic Management during Construction) (Pesos _____ and _____ Centavos per provisional sum) | Prov1 Sum | 1.00 | | |
| SPL 900(2) | Provisional Sum No. 2 (For Relocation of Existing Public Utilities, (Electric Lines/ Post, Communications Lines, Manholes, Water Mains/Pipes affected by the Project) (Pesos _____ and _____ Centavos per provisional sum) | Prov1 Sum | 1.00 | | |
| SPL 900(3) | Provisional Sum No. 3 (For Geotechnical Investigation) (Pesos _____ and _____ Centavos per provisional sum) | Prov1 Sum | 1.00 | | |
| SPL 900(4) | Provisional Sum No. 4 (For Repair and Maintenance of existing Access Road) (Pesos _____ and _____ Centavos per provisional sum) | Prov1 Sum | 1.00 | | |
| SPL 900(5) | Provisional Sum No. 5 (For Environmental Compliance Requirements) (Pesos _____ and _____ Centavos per provisional sum) | Prov1 Sum | 1.00 | | |
| SPL 900(6) | Provisional Sum No. 6 (For Health and Safety Requirements) (Pesos _____ and _____ Centavos per provisional sum) | Prov1 Sum | 1.00 | | |
| SPL 900(7) | Provisional Sum No. 7 (For Daywork) (Pesos _____ and _____ Centavos per provisional sum) | Prov1 Sum | 1.00 | | |
| Sub-total for this Page | | | | | |

Note: Bidder must fill up this section of the Bill of Quantities

Dated this _____ day of _____ 20__

Signature: _____

Printed Name: _____

In the capacity of: _____

Duty authorized to sign for and in behalf of: _____

UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT
 CABANATUAN BYPASS
 CONTRACT PACKAGE NO. IV

BILL OF QUANTITIES

PART K
 PROVISIONAL SUM

| PAY ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (Pesos) | AMOUNT (Pesos) |
|-------------------------|---|-----------|----------|--------------------|----------------|
| SPL 900(8) | Provisional Sum No. 8 (For Overseas Development Assistance (ODA) Recognition Plate) (Pesos _____) and _____ Centavos per provisional sum) | Prov1 Sum | 1.00 | | |
| SPL 900(9) | Provisional Sum No. 9 (For Contingencies) (Pesos _____) and _____ Centavos per provisional sum) | Prov1 Sum | 1.00 | | |
| Sub-total for this Page | | | | | |
| TOTAL FOR BILL PART K | | | | | |

Note: Bidder must fill up this section of the Bill of Quantities

Dated this _____ day of _____ 20____

Signature: _____

Printed Name: _____

In the capacity of: _____

duly authorized to sign for and in behalf of: _____

ANNEX NO. 1 - SCHEDULE/BREAKDOWN OF
LUMP SUM PAY ITEMS

SCHEDULE __ - ANNEX I TO THE BILL OF QUANTITIES

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(1)c | DESCRIPTION: | | | | |
|-------------------------------|--|------|----------|-----------------------|-------------------|
| | FACILITIES FOR THE ENGINEER (Furnitures and Fixtures for Field Office/Laboratory Building and Engineer's Quarters) | | | | |
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| 1. | Office Desk, 70 x 150 cm, with 3 drawers on each side of center drawer, with lock and keys and 1/4 in. thick glasstop | each | | | |
| 2. | Swivel Chair with padded seat and back and arm rest, to match office desk | each | | | |
| 3. | Visitor's Chair with padded seat and back rest | each | | | |
| 4. | Book Shelf, 40 x 70 x 245 cm. With 3 shelves with lock and keys | each | | | |
| 5. | Steel Cabinet, 4 drawers, fire resistant with lock and keys | each | | | |
| 6. | Magic Clip Whiteboard, 2 ft. x 3 ft., with 12 in. mag'clip with aluminum stand and ball casters | each | | | |
| 7. | Office Desk, 70 x 140 cm, with 3 drawers on each side of center drawer with lock and keys | each | | | |
| 8. | Drafting Table, with padded seat stool and 2 T-Squares | each | | | |
| 9. | Clerical Table, 60 x 100 cm, with top and right side drawer with lock and keys | each | | | |
| 10. | Typist Chair, upright, with padded seat and back seat | each | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE ___ - ANNEX I TO THE BILL OF QUANTITIES

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(1)c | DESCRIPTION: | | | | |
|-------------------------------|--|------|----------|-----------------------|-------------------|
| | FACILITIES FOR THE ENGINEER (Furnitures and Fixtures for Field Office/Laboratory Building and Engineer's Quarters) | | | | |
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| 11. | Typewriter Table, 40 x 90 cm, with side shelves | each | | | |
| 12. | Conference Table, 120 x 200 cm. | each | | | |
| 13. | Standard Size Chair | each | | | |
| 14. | Wash Basin | each | | | |
| 15. | Supplies Cabinet | each | | | |
| | <u>STORAGE AREA</u> | | | | |
| 16. | Closet, 60 x 180 x 200 cm high with 40 cm shelves | each | | | |
| | <u>ALL AREAS</u> | | | | |
| 17. | Waste Basket, Plastic | each | | | |
| Sub-Total for this Page | | | | | |
| TOTAL FOR ITEM NO. A(1)C | | | | | |

SCHEDULE A: ANNEX TO THE BILL OF QUANTITIES

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(1)a | DESCRIPTION | | | | |
|----------------------------|--|-------|----------|--------------------|----------------|
| | FACILITIES FOR THE ENGINEER (Combined Field Office and Laboratory Building) | | | | |
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| I. | Earthworks | | | | |
| | a. Excavation | | | | |
| | 1. Structural Excavation | cu.m. | 181.28 | | |
| | 2. Structural Backfill | cu.m. | 128.51 | | |
| | 3. Bedding Materials | cu.m. | 59.98 | | |
| | 4. Soil Poisoning | sq.m. | 1,800.00 | | |
| | b. Filling Materials | | | | |
| | c. Bedding Materials | | | | |
| | 1. 0.10 m thick | cu.m | | | |
| II. | Concrete Works | | | | |
| | a. 3,000 psi or 20.70 Mpa - Class A | cu.m. | 16.93 | | |
| | 1. P. Cement | bag | | | |
| | 2. Sand | cu.m. | | | |
| | 3. Gravel | cu.m. | | | |
| | b. 2,500 psi or 17 Mpa - Class B | cu.m. | 54.00 | | |
| | 1. P. Cement | bag | | | |
| | 2. Sand | cu.m. | | | |
| | 3. Gravel | cu.m. | | | |
| | c. Rebars | | | | |
| | 1. Rebars | kg. | 2,584.00 | | |
| | d. Formworks | sq.m. | 133.16 | | |
| III. | Masonry | | | | |
| | a. CHB, 150mm (6") | pcs. | 1,566.00 | | |
| | b. CHB, 100 mm (4") | pcs. | 606.00 | | |
| | c. P. Cement | bags | | | |
| | d. Fine Aggregates | cu.m. | | | |
| | e. Coarse Aggregates | cu.m. | | | |
| | f. Rebars | kg. | 50.60 | | |
| | g. Tie Wire # 16 | kg. | 16.87 | | |
| IV. | Scaffolding/Formworks | | | | |
| | 1. Lumber, Apitong | bd.ft | | | |
| | 2. Nails and Hardwares | kg. | | | |
| | 3. Coco Lumber | bd.ft | | | |
| | 4. Plywood 1/4 | pcs | | | |
| V. | Roof Truss, Frame & Purling | | | | |
| | Thermal Protection | | | | |
| | a. Pre-painted GA 26 Corrugated Roofing, with Aluminum Foil Insulation (Havi-Foil 427) | pcs | | | |
| | b. Pre-painted Wall Panel, w/ Insulation | pcs | | | |
| | c. Ridge Roll, 24" x 8' | pcs | | | |
| | d. Pre-painted Metal Facia, 24" x 8', Ga. 26 | pcs | | | |
| | e. Rivets, Straps and Washers | lot | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE A: ANNEX TO THE BILL OF QUANTITIES

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(1)a | DESCRIPTION FACILITIES FOR THE ENGINEER (Combined Field Office and Laboratory Building) | | | | |
|-------------------------------|---|--------|----------|-----------------------|-------------------|
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| | Ceiling and Wall Panelling | | | | |
| | a. Gypsum Board Ceiling | pcs | | | |
| | b. 6.0 mm MDF Wall Panelling | pcs | | | |
| | c. 1' x 1' x 12' Aluminim T-Runner | pcs | | | |
| | d. 2' x 2' Hailer (External Only) | bd.ft. | | | |
| | e. Misc. (Wire hangers, Screws, Nails) | kg. | | | |
| | Finishes: | | | | |
| | a. Vinyl Tiles, 300 x 300 x 3 mm | pcs. | | | |
| | b. Adhesive | gal. | | | |
| | c. Tiles, Unglazed white (100 x 200mm) | pcs. | | | |
| | d. Tiles, Glazed (200 x 200mm) | pcs. | | | |
| | e. Portland Cement | bags | | | |
| | f. White Cement | bags | | | |
| | g. Concrete Paint | gal. | | | |
| | m. Misc. (thinners, Brush, etc) | lot | | | |
| | Structural Steel Members: | | | | |
| | Turn Buckle & Bolts w/ Nuts and Washers | lot | | | |
| | Doors and Windows | | | | |
| | Doors | | | | |
| | a. Steel Door D-1 , Insulated, Pre-Painted, 2.10 x 0.90 | ea | | | |
| | b. Wooden Door D-2, 2.10 x 0.80, Hollow Core | ea | | | |
| | c. Toilet Door D-3, 2.10 x 0.60 | ea | | | |
| | Windows | | | | |
| | d. Metal Jalousie Windows, W-1, 2.10 x 1.5 (Blade-GA. 20) | ea | | | |
| | e. Metal Jalousie Windows, W-2, 3.9 x 1.5, (Blade - Ga. 20_ | ea | | | |
| | f. Metal Jalousie Windows, W-3, 0.90 x 1.40 (Blade - Ga. 20) | ea | | | |
| | g. Metal Jalousie Windows, W-1, 0.25 x 0.82 | ea | | | |
| | h. Window Jamb, GA. 18 x 25 x 100mm | ea | | | |
| | Plumbing Works: | | | | |
| | a. G.I. Pipes, 19mm dia. x 10 ft. | pcs | | | |
| | b. G.I. Pipes, 13mm dia. x 10 ft. | pcs | | | |
| | c. Gate Valve | ea | | | |
| | d. Control Valve | ea | | | |
| | e. Water Meter | ea | | | |
| | f. PVC Pipe, 150mm dia. x 10 ft. | pcs | | | |
| | g. PVC Pipe, 100mm dia. x 10 ft. | pcs | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE A: ANNEX TO THE BILL OF QUANTITIES

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(1)a | DESCRIPTION FACILITIES FOR THE ENGINEER (Combined Field Office and Laboratory Building) | | | | |
|-------------------------------|---|--------|----------|-----------------------|-------------------|
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| | h. PVC Pipe, 50mm dia. x 10 ft. | pcs | | | |
| | i. Clean Out | pcs | | | |
| | j. FCO:FD | pcs | | | |
| | k. Shower Drain | ea | | | |
| | Plumbing Fixtures | | | | |
| | a. Slope Sink | ea | | | |
| | b. Lavatory | ea | | | |
| | c. Water Closet | ea | | | |
| | d. Urinal | ea | | | |
| | e. Faucet | ea | | | |
| | f. Hose Bibbs | ea | | | |
| | Toilet Accessories | | | | |
| | a. Toilet Mirror | set | | | |
| | b. Toilet Paper Dispenser | set | | | |
| | c. Shower Head | set | | | |
| | d. Grab Bar | ea | | | |
| | e. Soap Holder | ea | | | |
| | Cabinets & Kitchen Counters | | | | |
| | a. 18mm MDF Board | pcs | | | |
| | b. 6mm MDF Board | pcs | | | |
| | c. Lumber, Apitong or Equal | bd.ft. | | | |
| | d. Lock Set | pcs | | | |
| | e. Handle | pcs | | | |
| | f. 25mm dia. Pipe Hanger x 10 ft. | pcs | | | |
| | g. Nails and hardware | lot | | | |
| | Electrical Works | | | | |
| | | lot | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE A: ANNEX TO THE BILL OF QUANTITIES

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(1)a | DESCRIPTION | | | | |
|-------------------------------|--|--------|----------|-----------------------|-------------------|
| | FACILITIES FOR THE ENGINEER (Engineer's Quarter Building) | | | | |
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| I. | Earthworks | | | | |
| | a. Granular Bed Course | | | | |
| II. | Concrete Works | | | | |
| | 1. P. Cement | bag | | | |
| | 2. Sand | cu.m. | | | |
| | 3. Gravel | cu.m. | | | |
| | 4. Reinforcing Steel Bars | | | | |
| | 5. Tie Wire # 16 | bag | | | |
| III. | Masonry | | | | |
| | a. CHB, 150mm (6") | pcs. | | | |
| | b. CHB, 100 mm (4") | pcs. | | | |
| | c. P. Cement | bags | | | |
| | d. Fine Aggregates | cu.m. | | | |
| | e. Coarse Aggregates | cu.m. | | | |
| | f. Rebars | kg. | | | |
| | g. Tie Wire # 16 | kg. | | | |
| IV. | Scaffolding/Formworks | | | | |
| | 1. Lumber, Apitong | bd.ft | | | |
| | 2. Nails and Hardware | kg. | | | |
| | 3. Coco Lumber | bd.ft | | | |
| | 4. Plywood 1/4 | pcs | | | |
| V. | Thermal Protection | | | | |
| | a. Pre-painted GA. 26 Corrugated Roofing W/ Aluminum Foil Insulation (Hani-427) | pcs | | | |
| | b. Pre-painted Wall Panel w/ Insulation | pcs | | | |
| | c. Ridge Roll, 24" x 8" | pcs | | | |
| | d. Pre-painted Metal Facia, 24" x 8", Ga. 26 | pcs | | | |
| | e. Rivets, Straps and Washers | lot | | | |
| VI. | Ceiling and Wall Panelling | | | | |
| | a. Gypsum Board Ceiling | pcs | | | |
| | b. 6.0 mm MDF Wall Panelling | pcs | | | |
| | c. 1" x 1" x 12' Alumim T-Runner | pcs | | | |
| | d. 2" x 2" Nailer (External Only) | bd.ft. | | | |
| | e. Misc. (Wire hangers, Screws, Nails) | kg. | | | |
| VII. | Finishes: | | | | |
| | a. Vinyl Tiles, 300 x 300 x 3 mm | pcs. | | | |
| | b. Adhesive | gal. | | | |
| | c. Tiles, Unglazed white (100 x 200mm) | pcs. | | | |
| | d. Tiles, Glazed (200 x 200mm) | pcs. | | | |
| | e. Portland Cement | bags | | | |
| | f. White Cement | bags | | | |
| | g. Concrete Paint | gal. | | | |
| | m. Misc. (tinnners, Brush, etc) | lot | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(1)a | DESCRIPTION FACILITIES FOR THE ENGINEER (Engineer's Quarter Building) | | | | |
|----------------------------|--|--|----------|--------------------|----------------|
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| VIII. | Structural Steel Members: Turn Buckle & Bolts w/ Nuts and Washers | lot | | | |
| IX. | Doors and Windows a. Pre-painted Steel Door D-1, Insulated, 2.10 x 0.90 b. Wooden Door D-2, 2.10 x 0.80, Hollow Core c. Toilet Door D-3, 2.10 x 0.60 d. Metal Jalousie Windows, W-1, 2.10 x 1.5 (Blade - GA. 20) e. Metal Jalousie Windows, W-2, 3.9 x 1.5 (Blade - Ga. 20) f. Metal Jalousie Windows, W-3, 0.90 x 1.40 (Blade Ga. - 20) g. Metal Jalousie Windows, W-1, 0.25 x 0.82 h. Window Jamb, GA. 18 x 25 x 100mm | ea ea ea ea ea ea ea | | | |
| X. | Plumbing Works a. G.I. Pipes, 19mm dia. x 10 ft. b. G.I. Pipes, 13mm dia. x 10 ft. c. Gate Valve d. Control Valve e. Water Meter f. PVC Pipe, 150mm dia. x 10 ft. g. PVC Pipe, 100mm dia. x 10 ft. h. PVC Pipe, 50mm dia. x 10 ft. i. Clean Out j. FCOFD Plumbing Fixtures a. Slope Sink b. Lavatory c. Water Closet d. Urinal e. Faucet f. Hose Bibbs | pcs pcs ea ea ea pcs pcs pcs pcs pcs pcs ea ea ea ea ea ea | | | |
| XI. | Toilet Accessories a. Toilet Mirror b. Toilet Paper Dispenser c. Shower Head d. Grab Bar e. Soap Holder | set set set ea ea | | | |
| XII. | Cabinets & Kitchen Counters a. 18mm MDF Board b. 6mm MDF Board c. Lumber, Apitong or Equal d. Lock Set e. Handle f. 25mm dia. Pipe Hanger x 10 ft. g. Nails and hardware | pcs pcs bd.ft. pcs pcs pcs lot | | | |
| XIII. | Electrical Works | lot | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(1)d | DESCRIPTION: FACILITIES FOR THE ENGINEER (Furnitures and Fixtures for the Combined Office, Laboratory and Living Quarters for the Engineer) | | | | |
|-------------------------------|---|-------------|------|----------|-----------------------|
| | COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) |
| | A. COMBINED FIELD OFFICE/LABORATORY | | | | |
| 1. | Executive Table, KD Tanguile dark brown non-glass varnish, 75cm x 150 cm, 3 drawers on one side and center drawer provided with locks and keys and 1/4" thick glass | each | | | |
| 2. | Office Table, KD Tanguile, dark brown non-gloss varnish, 60cm x 120cm, 3 drawers on one side and center drawer provided with locks and keys | each | | | |
| 3. | Executive chairs on rollers, padded with back and arm rest to match executive table. | each | | | |
| 4. | Swivel chair on rollers, padded with back and arm rest to match Office desk. | each | | | |
| 5. | Office Desks, 75cm x 150cm with 3 drawers on each side of the center drawer with locks and keys. | each | | | |
| 6. | Drafting table, KD Tanguile, dark brown non-gloss varnish 80cm x 150cm with drafting stool with padded seat of synthetic upholstery | each | | | |
| 7. | Complete set of drafting instrument, K & E of model or equivalent. | | | | |
| 8. | Typist table, KD tanguile, 60cm x 100cm with top and right side drawer, with locks and keys | | | | |
| 9. | Conference table, KD Tanguile, dark brown, non-gloss varnish, 140cm x 240cm x 32 cm deep with shelves. | | | | |
| 10. | Steel filing cabinet for horizontal plans, 5 drawers | | | | |
| 11. | Steel filing Cabinet, 4 drawers with locks and keys, fire resistant | | | | |
| 12. | Venetian blinds for all windows | | | | |
| 13. | Table for Computer Printer | | | | |
| | B. ENGINEER'S LIVING QUARTER | | | | |
| 14. | Single Bed, 187cm x 90cm, with 10cm thick foam rubber mattress | | | | |
| 15. | Double deck bed with 10cm thick foam rubber mattress | | | | |
| 16. | Chairs upright with padded seat and backrest | | | | |
| 17. | Dining table for eight (8) persons, KD tanguile dark brown, non-gloss varnish, 6mm thick glass top. | | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(1)d | DESCRIPTION: FACILITIES FOR THE ENGINEER (Furnitures and Fixtures for the Combined Office/Laboratory and Living Quarters for the Engineer) | | | | | |
|-------------------------------|---|--|------|----------|-----------------------|-------------------|
| | COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| 18 | | Chairs with backrest KD tanguile, dark brown with non-gloss varnish | | | | |
| 19 | | Long sofa with padded arm and backrest synthetic leather upholstery | | | | |
| 20 | | Sofa lounge chairs, with padded arm and backrest, synthetic leather upholstery | | | | |
| 21 | | Cupboard, KD Tanguile, 122 cm wide by 32cm deep with 5 shelves and panel doors with locks and keys, painted. | | | | |
| 22 | | Venetian blinds for all windows | | | | |
| Sub-Total for this Page | | | | | | |
| TOTAL FOR ITEM NO. A(1)d | | | | | | |

SCHEDULE B - ANNEX TO THE BILL OF QUANTITIES

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(1)e | DESCRIPTION: FACILITIES FOR THE ENGINEER (Equipment and Appliances for Field Office/Laboratory Building and Engineer's Quarters) | | | | |
|--|--|------|----------|-----------------------|-------------------|
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| A. COMBINED FIELD OFFICE/LABORATORY | | | | | |
| 1. | IBM Typewriter set III with standard carriage, or equivalent | each | | | |
| 2. | Electronic Calculator, Casio FX-4200, or equivalent | each | | | |
| 3. | Photo copier, Sharp SF-2414, 14 CPM or equivalent | each | | | |
| 4. | Electric Stand Fan, 16" blade diameter | each | | | |
| 5. | Air Conditioner, Window Type, with timer complete with standard accessories, 2.5hp which will operate on 220 V cycle, single phase current with timer | each | | | |
| 6. | Plain paper plain telefax machine | each | | | |
| 7. | Computer System with the ff specifications: ASUS P3BF/P3B-133 Intel Pentium IV, 800MHz (Slot 1) 128 MB DIMM RAM, 20GB Quantum/Maxtor Hard disk, 1.44 MB Floppy disk drive (TEAC), 52X Creative CD ROM drive with (Infra Red), 32 MB Video Card (AGP) CMI 8738 PCI Sound Card (32 bit) or with AM/FM Sound card, NTC 102-104 keyboard, PS/2, 3 button mouse, 17" Color Monitor (Viewsonic), UPS with AVR (A.P.C.), dust cover, mid tower casing with 300watts power supply, Altec Lansing Speaker with surround and sub (latest model), 2 USB Ports, ASUS 56 kbps in V.90 Modem Riser Card, ASUS PCI L101 Ethernet LAN card, 10BASE-T LAN twist Pair straight cable 10m length with connectors. | each | | | |
| 8. | Regular licensed Installer CD's MS Windows 2000 Microsoft Office 2000 including Power Point, Symantec Norton System works 2002 and Anti-Virus software | | | | |
| 9. | External ASUS CD-RW Drive 8x Record/ 4x Rewrite/ 32x Read including CD Recording Software with ASUS PCI - DA2200 SCSI RAID Card or equivalent ASUS Internal drive | | | | |
| 10. | LAN Hub Port for 10BASE-T Cable with 4 ports min. | | | | |
| 11. | HP Scanner for A3 size including Scan Software with SCSI or USB Connector (Latest Model) | | | | |
| 12. | HP Printer, Desk Jet 1120C or higher (Latest Model) | | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(1)e | DESCRIPTION: FACILITIES FOR THE ENGINEER (Equipment and Appliances for Field Office/Laboratory Building and Engineer's Quarters) | | | | |
|-------------------------------|--|------|----------|-----------------------|-------------------|
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| 13 | HP Printer, Laser Jet 6L or higher (Latest Model) | | | | |
| 14 | Standrad Computer Table | | | | |
| 15 | Magnetic whiteboard, 4' x 8' on roller stand, usable both sides | | | | |
| 16 | Autofocus 35mm SLR Compact Camera with at least 35-70mm Zoom lens or equivalent | | | | |
| 17 | Fire Extinguisers, 10 lbs | | | | |
| 18 | Wall Clock | | | | |
| 19 | Electric Air Pot, 3.5 liter capacity | | | | |
| 20 | Manual Punching/Binding Machine IB Master, 24 pins made in Switzerland. | | | | |
| | B. LIVING QUARTERS | | | | |
| 1 | Air condition unit, window type with timer complete with standard acces., 1.0 hp, 220V cycle, single phase current | | | | |
| 2 | Refrigerator, 10 cu. Ft | | | | |
| 3 | Gas stove with two (2) burner complete with hose, LPG tank and regulator | | | | |
| 4 | Electric Stand Fan, 16" diametet blade | | | | |
| 5 | Fire Extinguisher, 10 lbs | | | | |
| 6 | Wall Clock | | | | |
| 7 | Electric Air Pot, 3.5 liter capacity | | | | |
| 8 | Set of kitchenwares dor at least 12 persons consisting of the following: spoons, forks, knives, cups and saucers, serving plates, placemats, ash tray, rice plates, pitchers, bolos, casseroles, frying pan, canisters | | | | |
| 9 | Water Purifier/Filter System | | | | |
| 10 | Petromax or approved equal for emergency use. | | | | |
| Sub-Total for this Page | | | | | |
| TOTAL FOR ITEM NO. A(1)e | | | | | |

SCHEDULE C - ANNEX TO THE BILL OF QUANTITIES

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(3)a | DESCRIPTION: FACILITIES FOR THE ENGINEER Laboratory Testing Equipment/Apparatus and Publication | | | | |
|----------------------------|---|------|----------|--------------------|----------------|
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| | SCHEDULE C : Laboratory Testing Equipment/Apparatus | | | | |
| | I. Soil Testing Equipment | | | | |
| | 1.1 Gradation Analysis | | | | |
| 1 | 3" - 8" dia. Brass Sieve | each | | | |
| 2 | 2 1/2" - 8" dia. Brass Sieve | each | | | |
| 3 | 2" - 8" dia. Brass Sieve | each | | | |
| 4 | 1 1/2" - 8" dia. Brass Sieve | each | | | |
| 5 | 1" - 8" dia. Brass Sieve | each | | | |
| 6 | 3/4" - 8" dia. Brass Sieve | each | | | |
| 7 | 5/8" - 8" dia. Brass Sieve | each | | | |
| 8 | 3/8" - 8" dia. Brass Sieve | each | | | |
| 9 | #4 - 8" dia. Brass Sieve | each | | | |
| 10 | #8 - 8" dia. Brass Sieve | each | | | |
| 11 | #10 - 8" dia. Brass Sieve | each | | | |
| 12 | #16 - 8" dia. Brass Sieve | each | | | |
| 13 | #20 - 8" dia. Brass Sieve | each | | | |
| 14 | #30 - 8" dia. Brass Sieve | each | | | |
| 15 | #40 - 8" dia. Brass Sieve | each | | | |
| 16 | #50 - 8" dia. Brass Sieve | each | | | |
| 17 | #100 - 8" dia. Brass Sieve | each | | | |
| 18 | #200 - 8" dia. Brass Sieve | each | | | |
| 19 | #200 - 8" dia. Brass Sieve wet washing sieve | each | | | |
| 20 | Brass Pan 8" dia. X 2" deep | each | | | |
| 21 | Wire Sieve Brass | each | | | |
| 22 | Brass Cover with ring | each | | | |
| 23 | Galvanized Steel Pan, 18" x 18" x 3" with handle | each | | | |
| 24 | Galvanized Steel Pan, 24" x 24" x 3" with handle | each | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(3)a | DESCRIPTION: FACILITIES FOR THE ENGINEER Laboratory Testing Equipment/Apparatus and Publication | | | | |
|----------------------------|---|-------|----------|--------------------|----------------|
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| | SCHEDULE C: Laboratory Testing Equipment/Apparatus | | | | |
| 25 | Vol. Flasks, 500 ml | each | | | |
| 26 | Mechanical Operated Sieve Shaker | each | | | |
| 27 | Wire Basket (2.36 mm mesh) | each | | | |
| 28 | Triple Beam Balance, 2610 gms., 0.10 gms. Sensitivity or equivalent | each | | | |
| 29 | Sample Splitter 2-1/2 chute width | each | | | |
| 30 | Sample Splitter 1-1/2 chute width | each | | | |
| 31 | Sampling bags (jute), 25 kgs. Cap. | each | | | |
| 32 | Hard Bristle Brush | each | | | |
| 33 | Paint Brush, 2.5 cm. | each | | | |
| 34 | Paint Brush, 5.0 cm. | each | | | |
| 35 | Sample Splitter 1" chute width | each | | | |
| | 1.2 Atterberg Limits | | | | |
| 1 | Liquid Limit Test Set with counter consisting of the ff. a. Plastic Limit Set with Spatula b. Graduated Cylinder, 100ml. c. Evaporating Dish, 250 ml., 115 mm x 45 mm d. Spatula | set | | | |
| 2 | Plastic Limit Test Set, kit consisting of the ff. a. Plastic Limit Plate b. Graduated Cylinder, 25ml. c. Evaporating Dish, 120 ml., 90 mm x 37 mm d. Doz. Aluminum moisture can 3 oz w/ cover e. Plastic dispensing bottle, 250 ml. f. Set Triple Beam Balance, 311 gms cap w/ sensitivity of 0.01 gram | set | | | |
| 3 | Wash Bottle, 1000 ml. Cap | piece | | | |
| 4 | Dial - o - gram balance, 310 gms cap x 0.01 gram sen., Ohaus | unit | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(3)a | DESCRIPTION: FACILITIES FOR THE ENGINEER Laboratory Testing Equipment/Apparatus and Publication | | | | |
|----------------------------|---|-------|----------|--------------------|----------------|
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| | SCHEDULE C : Laboratory Testing Equipment/Apparatus | | | | |
| | 1.3 Moisture Density Relation | | | | |
| 1 | Compaction Mold, 4" dia. With collar and base plate | unit | | | |
| 2 | Compaction Mold, 6" dia. With extension collar | unit | | | |
| 3 | Compaction Rammer, 5.5 lbs. | each | | | |
| 4 | Compaction Rammer, 10 lbs. | each | | | |
| 5 | Steel Straight Edge, 12 in x 1-1/2" x 1/8" | each | | | |
| 6 | Mixing Trowel, 2.5' x 4.5' blade | each | | | |
| 7 | Spatula, 4" blade | each | | | |
| 8 | Spatula, 6" blade | each | | | |
| 9 | Trimming knife | each | | | |
| 10 | Heavy Duty Solution Balance, 20 kg. Cap., 1 gr. | unit | | | |
| 11 | Mixing Pan, 24" x 24" x 3" with blade | each | | | |
| 12 | Moisture Can, 500 cc with cover | dozen | | | |
| 13 | Laboratory California Bearing Ratio (Items included/set) | set | | | |
| | a. Mechanical Loading Press, 45 KN cap. With metric dial | unit | | | |
| | b. California Bearing Ratio Mold, 6" dia. X 7" w/ collar & base | each | | | |
| | c. Slotted Surcharge, 25 lbs. | each | | | |
| | d. Circular Surcharge, 25 lbs. | each | | | |
| | e. Straight Edge 12" x 1-1/2" x 1/8" | each | | | |
| | f. Spacer Disk | each | | | |
| | g. California Bearing Ratio Swell Plate | each | | | |
| | h. Dial Indicator Reading 25 mm range for penetration | each | | | |
| | i. Tripod Attachment | each | | | |
| | j. Holder of Penetration Dial | each | | | |
| | k. 4.5T capacity proving ring | each | | | |
| | l. Filter Screen, box of 100, 6" dia. | box | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(3)a | DESCRIPTION: FACILITIES FOR THE ENGINEER Laboratory Testing Equipment/Apparatus and Publication | | | | |
|----------------------------|---|--------|----------|--------------------|----------------|
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| | SCHEDULE C : Laboratory Testing Equipment/Apparatus | | | | |
| | 1.4 Field Density | | | | |
| 1 | Sand Cone and Jug | set | | | |
| 2 | Replacement Jug Plastic | each | | | |
| 3 | Density Plate | pieces | | | |
| 4 | Sample metal can w/ cover (1 gal. Cap.) | pieces | | | |
| 5 | Sampling Spoon | each | | | |
| 6 | Plastic Bags, 8' x 14' x 0.0035 | each | | | |
| 7 | Steel Chisel, 1" width | each | | | |
| 8 | Ball Hammer | each | | | |
| 9 | Sand Scoop | each | | | |
| 10 | Field Scale, 15 kg., 4.5 gm. Sensitivity | set | | | |
| 11 | Straight Edge, 12' | pieces | | | |
| 12 | Ottawa Sand | bag | | | |
| | 1.5 Organic Impurities | | | | |
| 1 | Graduated Bottle, 12 oz. | pieces | | | |
| 2 | Sodium Hydroxide Solution | bottle | | | |
| 3 | Color Standard chart for organic impurities | piece | | | |
| | II. Aggregate and Concrete Testing Equipment | | | | |
| 1 | Portable Compression Testing Machine 100 tons, dual gauge | unit | | | |
| 2 | Cylinder Mold, 6' x 12' | pieces | | | |
| 3 | Slump Cone and Base w/ graduated Tamping Rod | set | | | |
| 4 | Beam Molds, 6' x 6' x 30" | pieces | | | |
| 5 | Pressure meter, 1/4 cu. Ft. | each | | | |
| 6 | Cement Trowel, rectangular blade | each | | | |
| 7 | Cement Trowel, triangular blade | each | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE C - ANNEX TO THE BILL OF QUANTITIES

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(3)a | DESCRIPTION: FACILITIES FOR THE ENGINEER Laboratory Testing Equipment/Apparatus and Publication | | | | |
|----------------------------|---|--------|----------|--------------------|----------------|
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| | SCHEDULE C: Laboratory Testing Equipment/Apparatus | | | | |
| 8 | Yield bucket, 1 cu. Ft. | each | | | |
| 9 | Yield bucket, 1/2 cu. Ft. | each | | | |
| 10 | Capping Set | set | | | |
| 11 | Capping Compound | lot | | | |
| 12 | Coring machine | unit | | | |
| 13 | Core bits, 4' d/a. | unit | | | |
| 14 | Core bits, 6' d/a. | unit | | | |
| 15 | Vicat apparatus | each | | | |
| 16 | Gilmore needles | each | | | |
| 17 | Cylinder capper, 6' x 12' | each | | | |
| 18 | Cylinder carrier, 6' x 12' | each | | | |
| 19 | Capping ladle, 8 oz. | each | | | |
| | III. Miscellaneous Equipments and Items | | | | |
| 1 | Laboratory Oven, Double Wall, 220V/60 cycle AC | unit | | | |
| 2 | Speedy Moisture Tester w/ Reagents | each | | | |
| 3 | Vernier Caliper | each | | | |
| 4 | Glass Plate 15 cm x 15 cm | each | | | |
| 5 | Sand Equivalent Test | set | | | |
| 6 | Gas Range, 2 burners | each | | | |
| 7 | Calcium Carbide Reagent | box | | | |
| 8 | Sand Equivalent Stock Solution | bottle | | | |
| 9 | Los Angeles Abrasion Machine | unit | | | |
| 10 | Sodium Hydroxide Solution for Organic Impurities | bottle | | | |
| 11 | Sodium Sulphate Solution for Soundness | bottle | | | |
| 12 | Distilled Water | gal's | | | |
| 13 | Rubber Mallet, 15 cm d/a. | each | | | |
| Sub-Total for this Page | | | | | |

SCHEDULE OF LUMP SUM PAY ITEMS

| LUMP SUM ITEM NO. A(3)a | DESCRIPTION: FACILITIES FOR THE ENGINEER Laboratory Testing Equipment/Apparatus and Publication | | | | |
|--|---|------|----------|-----------------------|-------------------|
| COMPONENT NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE (PESOS) | AMOUNT (PESOS) |
| SCHEDULE C: Laboratory Testing Equipment/Apparatus | | | | | |
| 14 | Mixing Dish | each | | | |
| 15 | Graduated Cylinder, 1000 ml. | each | | | |
| 16 | Graduated Cylinder, 500 ml. | each | | | |
| 17 | Graduated Cylinder, 100 ml. | each | | | |
| 18 | Graduated Cylinder, 50 ml. | each | | | |
| 19 | Graduated Cylinder, 25 ml. | each | | | |
| 20 | Shovel, square shape | each | | | |
| 21 | Shovel, round shape | each | | | |
| 22 | Plastic bag | kg | | | |
| IV. Publications | | | | | |
| 1 | Part I AASHTO Specifications, Latest Edition | copy | | | |
| 2 | Part II AASHTO Tests, Latest Edition | copy | | | |
| Sub-Total for this Page | | | | | |
| TOTAL FOR ITEM NO. A(3)a | | | | | |

ANNEX NO. 2 - DAYWORK SCHEDULE

DAYWORK SCHEDULE

1. GENERAL

- 1) Daywork schedule shall be subject to the provisions of Clause 13.6 of the Conditions of Contract.
- 2) The Contractor will be paid for Daywork carried out during the course of the Contract at the rates set down by him in this Schedule, all items of which are provisional. All profits and overheads must be included in the rates which shall also include all other costs of whichever nature necessary for and incidental to the performance of extra work, such as royalties payment to the third parties for land or the use of land for damage due to property, transportation, tools, laboratory equipment and personnel testing.
- 3) Unless specified otherwise, payments for Daywork at rates set down in this Schedule shall be subject to price escalation adjustment in accordance with the provisions in the Conditions of Contract.

2. LABOR RATES

- 1) Daywork Rates quoted for labor shall be the amounts payable, and shall include allowances for complying with the Labor Law, for use and waste of hand tools and for all ordinary non-mechanical plant including staging, scaffoldings, etc., where not erected and all special inducement for working in the Philippines.
- 2) Unless expressly authorized in writing by the Engineer, special rates for overtime will not be admissible for payment.

| PAY ITEM | DESCRIPTION | UNIT | UNIT PRICE (Peso) |
|------------------------------|--------------------------|-------------|------------------------------|
| 900 | LABOR | | |
| 900(1) | Foreman | hour | |
| 900(2) | Assistant Foreman | hour | |
| 900(3) | Heavy Equipment Operator | hour | |
| 900(4) | Light Equipment Operator | hour | |
| 900(5) | Driver | hour | |
| 900(6) | Skilled Laborer | hour | |
| 900(8) | Unskilled Laborer | hour | |
| Sub Total For (Labor) | | | |

3. MATERIAL RATES

Material used on daywork shall be as stated in the Specifications. The rates shall include for delivery to the immediate working area and for unloading. All rates shall include the adequate storing and protection of materials as necessary and additional handling costs and taxes.

| PAY ITEM | DESCRIPTION | UNIT | UNIT PRICE (Peso) |
|----------------------------------|---------------------------------------|---------|----------------------|
| 901 | MATERIALS | | |
| 901(1) | Portland Cement | bag | |
| 901(2) | Reinforcing Steel, Grade 40 | kg. | |
| 901(3) | Reinforcing Steel, Standard Grade | kg. | |
| 901(4) | Round Timber | pc. | |
| 901(5) | Lumber, Yakal | bd. ft. | |
| 901(6) | Paint, reflective | gal. | |
| 901(7) | Lumber, Apitong or Tanguile | bd. ft. | |
| 901(8) | Paint, non-reflective | gal. | |
| 901(9) | Ordinary Plywood, 1/2" thk. x 4' x 8' | pc. | |
| 901(10) | Ordinary Plywood, 1/4" thk. x 4' x 8' | pc. | |
| 901(11) | Ordinary Lawanit, 1/4" x 4' x 8' | pc. | |
| 901(12) | Common wire Nails | kg. | |
| 901(13) | Concrete Nails | kg. | |
| 901(14) | G.I. Wire #16 | kg. | |
| 901(15) | Fine Aggregates (Sand) | cu. m. | |
| 901(16) | Coarse Aggregates (gravel) | cu. m. | |
| 901(17) | Aggregates Subbase Course | cu. m. | |
| 901(18) | Boulder / Rockfill | cu. m. | |
| 901(19) | Bunker Fuel | ltr. | |
| 901(20) | Diesel Fuel | ltr. | |
| 901(21) | Special Gasoline | ltr. | |
| 901(22) | Lubricating Oil | ltr. | |
| 901(23) | Regular Paint | gal. | |
| 901(24) | RCPC, 610 mm dia. Class IV | l.m. | |
| 901(25) | RCPC, 760 mm dia. Class IV | l.m. | |
| 901(26) | RCPC, 910 mm dia. Class IV | l.m. | |
| 901(27) | RCPC, 1070 mm dia. Class IV | l.m. | |
| 901(28) | RCPC, 1220 mm dia. Class IV | l.m. | |
| 901(29) | RCPC, 1520 mm dia. Class IV | l.m. | |
| 901(30) | Concrete Hollows Blocks, 4" thick | pc. | |
| 901(31) | Concrete Hollows Blocks, 6" thick | pc. | |
| 901(32) | Asphalt Penetration Grade 60 – 70 | m. t. | |
| 901(33) | Asphalt Penetration Grade 85 – 100 | m. t. | |
| 901(34) | Cut Back Asphalt MC – 70 | m. t. | |
| 901(35) | Emulsified Asphalt SS – 1 | m. t. | |
| Sub Total For (Materials) | | | |

4. PLANT AND EQUIPMENT RATES

- 1) The rates for plant and equipment shall include the wages of drivers, attendants and operators, maintenance in proper working order at all, times, attendance in starting up and shutting down, all fuel and power, oils, greases ad cleaning materials, replacement and/or sharpening of tools and provision of tools, charges for depreciation insurance, taxes and the like and all other ancillary items including consumable stores.
- 2) In addition to the above, rates for craft shall include for crews, mooring and anchoring where applicable.
- 3) Only the actual hours worked will be paid for.

| PAY ITEM | DESCRIPTION | UNIT | UNIT PRICE (Peso) |
|--|--|------|----------------------|
| 902 | PLANT AND EQUIPMENT | | |
| 902(1) | Washing and Screening Plant | Hour | |
| 902(2) | Bulldozer, 180 Hp | Hour | |
| 902(3) | Bulldozer, 140 Hp | Hour | |
| 902(4) | Wheel Loader, 1.53 cu. m. | Hour | |
| 902(5) | Excavator Backhoe, 1 1/2 cubic yard | Hour | |
| 902(6) | Wheel Loader, 1.14 cu. m. | Hour | |
| 902(7) | Steel Roller, 8 – 12 tons | Hour | |
| 902(8) | Hydraulic Backhoe, 0.80 cu. m. | Hour | |
| 902(9) | Pneumatic Roller, 4 -11 tons | Hour | |
| 902(10) | Hydraulic Backhoe, 0.40 cu. m. | Hour | |
| 902(11) | Asphalt Kettle Motorized Grader, | Hour | |
| 902(12) | 150Hp | Hour | |
| 902(13) | Asphalt Distributor, 3000 gal. | Hour | |
| 902(14) | Asphalt Paver / Finisher, 10 ft. wide Motorized Grader, | Hour | |
| 902(15) | 125Hp | Hour | |
| 902(16) | Hydraulic Crane, 21-25T | Hour | |
| 902(17) | Hydraulic Crane, 11-15T | Hour | |
| 902(18) | Dump Truck, 6.88 - 8.41 cu. m. | Hour | |
| 902(19) | Stake Truck, 11 - 12 T | Hour | |
| 902(20) | Water Tank Truck (500 - 1000 gals) | Hour | |
| 902(21) | Concrete Mixer, 1Bagger | Hour | |
| 902(22) | Concrete Mixer, 2Bagger | Hour | |
| 902(23) | Concrete Vibrator | Hour | |
| 902(24) | Vibratory Plate Compactor, 12 Hp | Hour | |
| 902(25) | Water Pump, 3 1/2" - 4" | Hour | |
| 902(26) | Bar Cutter and Bending Machine | Hour | |
| 902(27) | Pile Hammer with Golf Lead | Hour | |
| 902(28) | Drop Hammer with Pile Cap Lead | Hour | |
| Sub Total For (Plant and Equipment) | | | |

- 4) Should any discrepancy be found between unit price from the Bill of Quantities and rates from the Daywork Schedule, the latter shall be subject to discussion with the Contractor, and if deemed necessary, corrected.

SECTION E - DRAFT CONTRACT AGREEMENT
AND SAMPLE FORMS

SECTION E

DRAFT CONTRACT AGREEMENT AND SAMPLE FORMS

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(DRAFT)
CONTRACT AGREEMENT
for the
UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN-PHILIPPINE HIGHWAY PROJECT
CABANATUAN BYPASS (STA. 121+600.00 – STA. 134+731.828)
CONTRACT PACKAGE No. IV
(JBIC Loan Agreement No. _____)

KNOW ALL MEN BY THESE PRESENTS:

This **CONTRACT** made and entered this _____ day of _____, 200_ between the **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH)**, with office address at Bonifacio Drive, Port Area, Manila, represented by _____ (hereinafter called the "**OWNER**") as the **PARTY OF THE FIRST PART**

- And -

_____ with office address at _____, represented by _____ (hereinafter referred to as the "**CONTRACTOR**") as the **PARTY OF THE SECOND PART.**

WHEREAS, the Owner is desirous that certain works should be constructed under the Japan Bank for International Cooperation (JBIC), L/A No. _____, Upgrading Inter-Urban Highway System along the Pan – Philippine Highway Project, Cabanatuan Bypass (Sta. 121+600.00 – Sta. 134+731.731), Contract Package No. IV

WHEREAS, the Owner has accepted the Bid of the Contractor for the execution and completion of such Works and the remedying of any defects therein for the amount of PESOS _____ (P _____)

WHEREAS, the works comprised in the Contract shall be completed within _____ calendar days in accordance with the provisions of the Bid Documents.

WHEREAS, the **CONTRACTOR** signified its conformity with award through its letter dated _____.

Now this AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be interpreted and construed as part of this agreement, viz:
 - a. Advertisement or Evidence of Publication for the Bidded Project
 - b. Approved Prequalification Statement
 - c. Drawings/Plans (Volume IV – Bid Documents)

- d. Technical Specifications and/or Special Provisions (Volume III - Bid Documents)
 - e. General Conditions (Conditions of Contract, Volume II – Bid Documents)
 - f. Proposal Book (Volume I – Bid Documents)
 - g. Supplemental Notices
 - h. Letter of Acceptance of the Contractor
 - i. Contractor's License and Certificate of Renewal
 - j. Authority of Contractor's Representative/Signatory to the Contract
 - k. PERT/CPM or Equivalent Schedule of Work
 - l. Project Cash Flow and Payment Schedule on Quarterly Basis
 - m. Duly Approved Program of Work and Cost Estimates
 - n. Approved Budget for the Contract of Work Items and Cost Components
 - o. Bid and Abstract of Bids
 - p. Certificate of Availability of Funds
 - q. Performance Security
 - r. Resolution of BAC Recommending Award
 - s. Approval of the Award by the Secretary's Office
 - t. Concurrence of the Lending Institutions
 - u. Other Pertinent Documents as may be Reasonably Required by the Owner
3. In consideration of the payments to be made by the OWNER to the CONTRACTOR as hereinafter mentioned, the CONTRACTOR hereby covenants with the OWNER to construct and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The OWNER hereby covenants to pay the CONTRACTOR, in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The guidelines for the computation and payment of price escalation on infrastructure contracts as promulgated by existing laws, decrees, rules and regulations will be applied to this Contract.
6. The CONTRACTOR shall comply with, and strictly observe all laws regarding workmen's compensation for injuries, minimum wages, hours of labor, and other labor laws.
7. The Contractor warrants that he has not given nor promised to give any money or gift to any employees of the Owner to secure this Contract.
8. Pursuant to PD 1594 and its Implementing Rules and Regulations as amended and the General Terms and Conditions of the Loan Agreement (_____), this contract shall be subject to the concurrence of the JAPAN BANK FOR INTERNATIONAL COOPERATION (JBIC)
9. This **AGREEMENT** becomes valid and binding upon approval by the Secretary of Public Works and Highways (DPWH) in accordance with the existing laws, decrees, rules and regulations of the Government of the Republic of the Philippines and the Japan Bank for International Cooperation (JBIC).

IN WITNESS WHEREOF, the PARTIES hereto have caused this Agreement to be executed the day and year first before written.

REPUBLIC OF THE PHILIPPINES _____

DEPARTMENT OF PUBLIC
WORKS AND HIGHWAYS
(First Party)

CONTRACTOR
(Second Party)

By:

By:

(Party of the First Part)

(Party of the Second Part)

SIGNED IN THE PRESENCE OF:

(Witness)

(Witness)

Witness)

(Witness

APPROVED:

SIMEON A. DATUMANONG
Secretary

REPUBLIC OF THE PHILIPPINES)
) S.S.

ACKNOWLEDGMENT

BEFORE ME, Notary Public for and in the City of Manila, personally appeared MANUEL M. BONOAN, CESO III, with Community Tax Certificate No. _____ issued on _____ at _____ in his official capacity as Undersecretary of the Department of Public Works and Highways, representing the REPUBLIC OF THE PHILIPPINES and _____ with Community Tax Certificate No. _____ issued on _____ at _____ respectively, representing _____ known to me and to me known to be the same persons who executed the foregoing CONTRACT AGREEMENT and they acknowledged to me that the same is their true act and deed for and in behalf of the PARTIES they represent.

This instrument consists of _____ pages, including this page on which the ACKNOWLEDGMENT is written duly signed by the contracting parties and their witnesses at the bottom of page _____ of the instrument and on the left margin of the other pages.

IN WITNESS WHEREOF, I have hereunto affixed my signature and seal this _____ of _____ at Manila, Philippines.

NOTARY PUBLIC

Until _____
TAN _____
PTR No. _____

Doc. No. _____
Page No. _____
Book No. _____
Series No. _____

PERFORMANCE SECURITY (BANK GUARANTEE)

THIS AGREEMENT is made on the _____ day of _____, 200__
between _____ [name of bank] of
_____ [address of bank] (hereinafter called "the
Guarantor") of the one part and _____ [name of
Employer] (hereinafter called "the Employer") on the other part.

WHEREAS

- 1) this agreement is supplemental to a Contract (hereinafter called "the Contract") made between _____ [name of Contractor] of _____ [address of Contractor] (hereinafter called "the Contractor") on the one part and the Employer on the other part whereby the Contractor agreed and undertook to execute the Works of _____ [name of Contract and brief description of the Works] for the sum of PESOS _____ (P _____) being the Contract Price; and
- 2) the Guarantor has agreed to guarantee the due performance of the Contract in the manner hereafter appearing.

NOW, THEREFORE, the Guarantor hereby agrees with the Employer as follows:

- a) If the Contractor shall in any respect fail to execute the Contract or commit any breach of his obligations thereunder then the Guarantor will indemnify and pay the Employer the aggregate sum of Pesos _____ [amount of Guarantee], _____, P _____ [amount in words and figures], such sum being payable in the types and amounts of currencies in which the Contract Price is payable, provided that the Employer has notified the Guarantor to that effect and has made a claim against the Guarantor before the issue of the Defects Liability Certificate.
- b) The Guarantor shall not be discharged or released from his guarantee by an arrangement between the Contractor and the Employer, with or without the consent of the Guarantor, or by any alteration in the obligations undertaken by the Contractor, or by any forbearance on the part of the Contractor, whether as to payment, time, performance, or otherwise, and any notice to the Guarantor of any such arrangement, alteration, or forbearance is hereby expressly waived.

This Guarantee shall be valid until the date twenty eight (28) days from the date of issue of the Taking-Over Certificate.

Given under our hand on the date first mentioned above.

SIGNED:

By:

By:

[Guarantor]

[Employer]

IN THE PRESENCE OF

[Witness]

[Witness]

Republic of the Philippines
GOVERNMENT SERVICE INSURANCE SYSTEM

GENERAL INSURANCE FUND
GSIS Makati Building, Legaspi St.
Legaspi Village, Makati, Metro Manila

G(2) GIF Bond No. _____

BIDDER'S BOND

KNOW ALL MEN BY THESE PRESENTS :

That we, _____,
represented by its _____, as PRINCIPAL, and the
GOVERNMENT SERVICE INSURANCE SYSTEM, as Administrator of the General
Insurance Fund, a corporation duly organized and existing under and by virtue of the Laws
of the Philippines, with principal office in the City of Manila, Philippines, as SURETY, are
held and firmly bound unto the OBLIGEE, _____
in the sum of PESOS _____ (P _____),
Philippine Currency, for the payment of which sum, well and truly to be made, we bind
ourselves, jointly and severally, by these presents.

WHEREAS, the above bounden PRINCIPAL will submit a BID for the

_____ on _____, 200... at _____ a.m./p.m.

WHEREAS, the conditions of the aforementioned OBLIGEE require the BIDDER a
bond for the said bid.

WHEREAS, the PRINCIPAL agrees to comply with all the terms and conditions of
the said bid with the aforementioned OBLIGEE;

NOW THEREFORE, the conditions of this obligation are such that if the above
bounden PRINCIPAL shall, in case he/it becomes the successful bidder in the said bid
mentioned above, accept a contract with said OBLIGEE under the terms and conditions of
said bid, then this obligation shall be null and void; otherwise it shall remain in full force and
effect.

WITNESS OUR HANDS AND SEALS this _____ day of _____,
20 _____ at _____, Philippines.

GOVERNMENT SERVICE INSURANCE SYSTEM
General Insurance Fund

Principal
By : _____

By : _____

SIGNED IN THE PRESENCE OF :

SF 3B

Republic of the Philippines
GOVERNMENT SERVICE INSURANCE SYSTEM

GENERAL INSURANCE FUND
GSIS Makati Building, Legaspi St.
Legaspi Village, Makati, Metro Manila

G() GIF Bond _____

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS :

That we, represented by its
....., as Principal and the
GOVERNMENT SERVICE INSURANCE SYSTEM as Administrator of the General
Insurance Fund, a corporation duly organized and existing under and by virtue of the laws
of the Philippines, with head office at Manila, its SURETY, are held and firmly bound unto
the in the sum of PESOS
.....), Philippine Currency for the payment of which sum well and truly to be made,
we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly
and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION are as follows:

WHEREAS, the above _____ PRINCIPAL on the day of,
20.....into a contract with represented by
..... to fully and faithfully.

WHEREAS, said contract requires the said PRINCIPAL to give a sufficient bond in
the above stated sum to _____ the full and faithful performance on its part of said
contract _____.

NOW, THEREFORE, if the PRINCIPAL shall perform well and truly and fulfill all the
undertakings, covenants, terms, conditions and agreements of said contract, then this
obligation shall be null and void; otherwise, it shall remain full force and effect.

The liability of the SURETY under this bond, will expire on,
20..... and said bond will be cancelled ten (10) days after the expiration. SURETY is
notified in writing of any existing obligation thereunder

IN WITNESS WHEREOF, we have set our hands and signed our names on the
..... day of, 20..., at, Philippines.

GOVERNMENT SERVICE INSURANCE
SYSTEM
General Insurance Fund

By : *Principal*

By :
.....

NOT VALID WITH
ERASURES

SIGNED IN THE PRESENCE OF :

.....
.....

FORM OF PERFORMANCE SECURITY (BOND)

By this Bond _____ as Principal (hereinafter called "the Contractor") and _____ (hereinafter called "the Surety"), are held and firmly bound unto _____ (hereinafter called the "Employer") in the amount of _____ for the payment of which sum well and truly to be made, the Contractor and the Surety bind themselves, their heirs, severally, firmly by these presents.

WHEREAS, the Contractor has entered into a written Contract with the Employer dated the _____ day of _____ 20____ for plans, specifications and amendments thereto, which to the extent herein provided for, are by reference made part hereof and are hereinafter referred to as the Contract.

NOW THEREFORE, the Condition of this Obligation is such that, if the Contractor shall promptly and faithfully perform the said Contract (including any amendments thereto) then this obligation shall be null and void; otherwise it shall remain in full force and effect. Whenever the Contractor shall be, and declared by the Employer to be, in default under the Contract, the Employer having performed the Employer's obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

- 1. complete the Contract in accordance with its terms and conditions; or
2. pay the Employer the amount required by Employer to complete the Contract in accordance with its terms and conditions up to a total not exceeding the amount of this Bond.
3. the right to institute action on the Penal Bond Pursuant to Act. No. 3688 of any individual, firm, partnership, corporation and association supplying the Contractor with Labor and Material for the prosecution of the work is hereby acknowledged and confirmed.

The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

Any suit under this Bond must be instituted before the expiration of thirty (30) days from the date of the issuing of the Certificate of Final Acceptance.

No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Employer named herein of the heirs, executors, administrators, successors and assigns of the Employer.

SF 3C

In testimony whereof, the Contractor has hereunto set his hand and affixed his seal, and the Surety has caused these presents to be sealed with his corporate seal duly attested by the signature of his legal representative, this _____ day of _____, 20____.

SIGNED, SEALED AND DELIVERED:

By the Surety _____ By the Contractor _____

in the presence of _____ in the presence of _____
(Witness) (Witness)

ADVANCE PAYMENT SECURITY
(BANK GUARANTEE)

TO : DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
Bonifacio Drive, Port Area
Manila
Re : Contract Package No. IV
Upgrading Inter-Urban Highway System
Along the Pan-Philippine Highway Project
Cabanatuan Bypass (Sta. 121+600.00 – Sta. 134+731.828)

Gentlemen:

In accordance with the provisions of the Conditions of Contract, Sub-Clause 14.20 ("Advance Payment") of the above-mentioned Contract, _____ [name and Address of Contractor] (hereinafter called "the Contractor") shall deposit with the **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH)** (hereinafter called "the Employer") a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount _____ [amount of Guarantee in words].

We, the _____ [Bank or financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to **DPWH** on its first demand without whatsoever right of objection on our part and without its first claim to the Contractor, in the amount not exceeding _____ [amount of Guarantee in words].

We further agree that no change or addition to or other modification of the terms on the Contract or of the Works to be performed thereunder or of any of the Contract documents which may be made between the **Department of Public Works and Highways (DPWH)** and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment under the contract until the DPWH receives full repayment of the same amount from the Contractor.

Yours truly,

(Signature and Seal of the Bank)

Name of Bank/Financial Institution : _____
Address : _____
Date : _____

DETAILED UNIT PRICE ANALYSIS

| | | | | |
|--|--------------|----------------|-----------|--------------------|
| PAY ITEM: | | UNIT/QUANTITY: | | |
| DESCRIPTION: | | | | |
| A) NAME AND SPECIFICATION OF EQUIPMENT | NO. OF UNITS | NO. OF HOURS | UNIT COST | TOTAL COST (Pesos) |
| | | | | |
| TOTAL EQUIPMENT COST | | | | |
| B) DESIGNATION OF PERSONNEL | NO. OF UNITS | NO. OF HOURS | UNIT COST | TOTAL COST (Pesos) |
| | | | | |
| TOTAL LABOR COST | | | | |
| OUTPUT: QTY/HR. | | | | |
| C) DESCRIPTION OF MATERIALS | UNIT | QTY. | UNIT COST | TOTAL COST (Pesos) |
| TOTAL MATERIALS COST | | | | |
| D) TOTAL ESTIMATED DIRECT COST | | | | |
| E) VALUE ADDED TAX (10% Labor + Equipment) | | | | |
| F) OVERHEAD CONTINGENCIES & MISC. (_____% TDC) | | | | |
| G) PROFIT (_____% TDC) | | | | |
| H) TOTAL COST | | | | |
| I) UNIT COST | | | | |

OUTLINE

**NARRATIVE DESCRIPTION
OF
CONSTRUCTION PROCEDURE/METHODS**

1.0 INTRODUCTION

Refer to Bidding, etc.

2.0 BRIEF DESCRIPTION OF PROJECT

State general Features of the Project. Use Table as necessary

3.0 CONSTRUCTION PROCEDURES/METHODS

3.1 METHODOLOGY OR GENERAL APPROACH

State general approach in terms of use of Equipment Intensive or Labor Intensive Methods, any Special Methods, any methods or procedures to insure compensation on time and quantity of construction affecting the project, etc.

3.2 PROGRAM OF WORK

Refer to CPM, Progress Bar Schedule and Development Schedules submitted.

3.3 FINANCIAL PROGRAM

Refer to Cash Flow Schedules, provisions for workers, capital schedule of receipts, etc.

NOTE TO BIDDER: This is a recommended outline for presenting the above document.

CERTIFICATE OF PRE-BID ATTENDANCE

TO WHOM IT MAY CONCERN:

This is to certify that _____
representative of _____, attended
the Pre-Bid Conference for _____
held on _____, 200__.

This certification is issued upon the request of the Contractor for compliance to the bidding requirements of the Project.

Certified by:

[Consultant's Representative]

[Project Director, DPWH]

CERTIFICATE OF SITE VISIT

TO WHOM IT MAY CONCERN:

This is to certify that _____ representative of _____, has conducted site inspection/visited the proposed construction site of Upgrading Inter-Urban Highway System Along the Pan-Philippine Highway Project, Cabanatuan Bypass, Sta 121+600.00 – Sta. 134+731.828), Contract Package No. IV, Province of Nueva Ecija.

This certification is issued this _____ day of _____, 200__, on the request of the Contractor for Compliance to the bidding requirements of the Project.

Certified by:

[Consultant's Representative]

[Project Director, DPWH]

**STATEMENT OF ON-GOING PROJECTS
OR COMMITTED PROJECTS**

The Contractor shall list all projects that are being currently undertaken or they are in the process of negotiating, in accordance with Clause 5.6.12.

| NAME OF PROJECT | DATE STARTED/STATUS IN PERCENTAGE/ COMPLETED | DESCRIPTION OF PROJECT/LENGTH/COST/ PERTINENT DETAILS |
|-----------------|--|---|
| | | |