

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. 109+920.00–STA. 118+350.00)
CONTRACT PACKAGE NO. II
PROVINCE OF NUEVA ECIJA**

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one hundred twenty (120) calendar days after the date for opening of Bids or any time thereafter before this Bid is withdrawn, the Undersigned will, within thirty (30) calendar days of such receipt, enter into and execute a Contract Agreement and furnish a Performance Security from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:

APPENDIX 1

GENERAL REQUIREMENTS**CLAUSES**

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	900 ¹⁰⁸⁰ 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)

APPENDIX 3

**LIST OF MINIMUM ESSENTIAL
PLANT/EQUIPMENT REQUIREMENTS**

UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN PHILIPPINE HIGHWAY PROJECT
CABANATUAN BYPASS (STA. 109+920.00–STA. 118+350.00)
CONTRACT PACKAGE NO. II

Description	Capacity	Required No. <Owned or Leased>
Major Equipment		
Concrete Batch Plant	60 m3/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 m3	4
Dump Truck	9 – 14 m3	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 m3	8
Backhoe, Crawler Type	0.60 – 1.50 m3	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

Department Order No. 80
Series of 1990
Annex 2

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 rod 1 Trowel, triangular or rectangular blade 90mmØ x 180 mm 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. 109 + 920.00 - STA. 118 + 350.00)
CONTRACT PACKAGE NO. II

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	SUB-TOTAL (PART A TO H)		
PART J	MOBILIZATION and DEMOBILIZATION		
PART K	PROVISIONAL SUM		
2	SUB-TOTAL (PART J & K)		
	GRAND TOTAL (1 + 2)		

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. II

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. II

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. II

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. II

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.	51.00		
100(3)	Individual Removal of Trees, Small (150mm to 900mm diameter) (Pesos _____ and _____ Centavos each)	each	152.00		
100(4)	Individual Removal of Trees, Large (Over 900mm diameter) (Pesos _____ and _____ Centavos each)	each	19.00		
101(1)a	Removal of Existing 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.	2,616.00		
102(1)	Unsuitable Excavation (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	276,500.00		
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: _____

Only authorized to sign for and in behalf of: _____

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

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.	884.00		
103(2)a	Bridge Excavation, Common, Above O.W.L. (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	1,450.00		
103(2)c	Bridge Excavation, Common Below O.W.L. (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	484.00		
103(3)a	Gravel Foundation Fill (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	108.00		
103(6)	Pipe Culverts and Drain Excavation (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	14,406.00		
103(7)	Granular Backfill for Pipe Culvert (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	7,197.00		
104(1)	Embankment (From Roadway Excavation) (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	1,852.00		
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. II

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.	913,920.00		
104(3)b	Embankment (from Borrow Excavation for Bridges) (Selected Granular Materials) (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	3,458.00		
105(1)	Subgrade Preparation (Common Materials) (Pesos _____ and _____ Centavos per square meter)	sq.m.	5,811.00		
Sub-total for this Page					
TOTAL FOR PART C					

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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.	45,482.00		
201(1)	Aggregate Base Course (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	11,851.00		
Sub-total for this Page					
TOTAL FOR PART D					

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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.	14,841.00		
311(1)b	PCC Pavement (Plain, 250mm Thick) (Pesos _____ and _____ Centavos per square meter)	sq.m.	74,159.00		
311(1)c	PCC Pavement (Plain, 230mm Thick) (Pesos _____ and _____ Centavos per square meter)	sq.m.	22,685.00		
311(2)	PCC Pavement (Reinforced, 300mm Thick) (Pesos _____ and _____ Centavos per square meter)	sq.m.	1,148.00		
Sub-total for this Page					
TOTAL FOR PART E					

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BILL OF QUANTITIES

PART F
BRIDGE CONSTRUCTION

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (Pesos)	AMOUNT (Pesos)
400(4)a	Precast Concrete Piles, Furnished (400mm x 400mm) (Pesos _____ and _____ Centavos per linear meter)	I.m.	664.00		
400(4)b	Precast Concrete Piles, Furnished (450mm x 450mm) (Pesos _____ and _____ Centavos per linear meter)	I.m.	3,467.00		
400(13)a	Precast Concrete Piles, Driven (400mm x 400mm) (Pesos _____ and _____ Centavos per linear meter)	I.m.	578.00		
400(13)b	Precast Concrete Piles, Driven (450mm x 450mm) (Pesos _____ and _____ Centavos per linear meter)	I.m.	3,022.00		
400(15)a	Test Piles, Furnished and Driven (400mm x 400mm) (Pesos _____ and _____ Centavos per linear meter)	I.m.	47.00		
400(15)b	Test Piles, Furnished and Driven (450mm x 450mm) (Pesos _____ and _____ Centavos per linear meter)	I.m.	163.00		
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)
400(19)a	Piles Shoes (400mm x 400mm) (Pesos _____ and _____ Centavos each)	each	72.00		
400(19)b	Piles Shoes (450mm x 450mm) (Pesos _____ and _____ Centavos each)	each	367.00		
401(1)a	Concrete Railing, Type A (Pesos _____ and _____ Centavos per linear meter)	l.m.	477.00		
404(1)	Reinforcing Steel, Grade 40 (Pesos _____ and _____ Centavos per kilogram)	kg	201,777.00		
404(2)	Reinforcing Steel, Grade 60 (Pesos _____ and _____ Centavos per kilogram)	kg	256,789.00		
405(1)a	Structural Concrete, Class "A" (fc' = 21 Mpa) (For heavily reinforced structures) (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	1,049.00		
405(1)b	Structural Concrete, Class "A" (fc' = 21 Mpa) (For small and medium bridge substructures) (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	2,227.00		
Sub-total for this Page					

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PART F
BRIDGE CONSTRUCTION

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (Pesos)	AMOUNT (Pesos)
405(1)c	Structural Concrete, Class "A1" ($f_c' = 21$ Mpa) (For small & medium bridge RCDG superstructures) (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	192.00		
405(1)d	Structural Concrete, Class "A1" ($f_c' = 21$ Mpa) (For small & medium bridge PCDG superstructures) (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	672.00		
405(2)	Structural Concrete, Class "B" ($f_c' = 17$ Mpa) (For plain & lightly reinforced structures) (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	2,660.00		
405(3)	Structural Concrete, Class "C" ($f_c' = 21$ Mpa) (for thinly reinforced members) (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	141.00		
405(6)	Lean Concrete ($f_c' = 17$ Mpa) (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	351.00		
406(1)a	Prestressed Structural Concrete Member (AASHTO Girder Type IV, L = 20.00m) (Pesos _____ and _____ Centavos each)	each	15.00		
Sub-total for this Page					

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PART F
BRIDGE CONSTRUCTION

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (Pesos)	AMOUNT (Pesos)
406(1)c	Prestressed Structural Concrete Member (AASHTO Girder Type IV, L = 24.00m) (Pesos _____ and _____ Centavos each)	each	10.00		
406(1)f	Prestressed Structural Concrete Member (AASHTO Girder Type IV-B, L = 31.00m) (Pesos _____ and _____ Centavos each)	each	10.00		
406(1)j	Prestressed Structural Concrete Member (AASHTO Girder Type VI, L = 35.00m) (Pesos _____ and _____ Centavos each)	each	6.00		
407(1)c	Elastomeric Bearing Pad (600mm x 350mm x 50mm, Duro 60) (Pesos _____ and _____ Centavos each)	each	80.00		
407(1)g	Elastomeric Bearing Pad (550mm x 300mm x 50mm, Duro 60) (Pesos _____ and _____ Centavos each)	each	6.00		
407(2)a	Expansion Joint, +40mm Movement (Pesos _____ and _____ Centavos per linear meter)	l.m.	140.00		
Sub-total for this Page					

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CONTRACT PACKAGE NO. II

BILL OF QUANTITIES

PART F
BRIDGE CONSTRUCTION

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (Pesos)	AMOUNT (Pesos)
407(2)g	Expansion Joint for 30mm bridge sidewalk (Pesos _____ and _____ Centavos per linear meter)	I.m.	25.00		
407(4)	150mm ø G. I. Drain Pipe (Pesos _____ and _____ Centavos per linear meter)	I.m.	24.00		
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)b4	Reinforced Concrete Pipe Culvert (610 mm dia), Class II (Pesos _____ and _____ Centavos per linear meter)	l.m	674.00		
500(1)c6	Reinforced Concrete Pipe Culvert (910 mm dia.), Class IV (Pesos _____ and _____ Centavos per linear meter)	l.m	2,077.00		
500(1)c7	Reinforced Concrete Pipe Culvert (1070 mm dia.), Class IV (Pesos _____ and _____ Centavos per linear meter)	l.m	511.00		
500(1)c8	Reinforced Concrete Pipe Culvert (1220 mm dia.), Class IV (Pesos _____ and _____ Centavos per linear meter)	l.m	386.00		
502(2)b14	Special Junction Box Manhole for RCPC (1-910mmø x 1-610mm ø) (Pesos _____ and _____ Centavos each)	each	67.00		
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(2)b15	Special Junction Box Manhole for RCPC (1-1070mmø x 1-610mm ø) (Pesos _____ and _____ Centavos each)	each	18.00		
502(2)b16	Special Junction Box Manhole for RCPC (1-1220mmø x 1-610mm ø) (Pesos _____ and _____ Centavos each)	each	12.00		
502(2)b17	Special Junction Box Manhole for RCPC (1-1520mmø x 1-610mm ø) (Pesos _____ and _____ Centavos each)	each	4.00		
502(2)b36	Special Junction Box Manhole for RCPC (2-1220mmø x 1-610mm ø) (Pesos _____ and _____ Centavos each)	each	4.00		
502(4)a1	U-Shaped Concrete Lined Ditch (500mm x 500mm) (Pesos _____ and _____ Centavos per linear meter)	l.m.	5,395.00		
Sub-total for this Page					

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CONTRACT PACKAGE NO. II

BILL OF QUANTITIES

PART G

DRAINAGE & SLOPE PROTECTION STRUCTURES

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (Pesos)	AMOUNT (Pesos)
502(6)b	V-Shaped Concrete Lined Ditch (H=500mm; 1:1.00) (Pesos _____ _____ and _____ Centavos per linear meter)	I.m.	6,159.00		
502(7)a	Trapezoidal Concrete Lined Ditch (450mm x 500mm) (Pesos _____ _____ and _____ Centavos per linear meter)	I.m.	2,715.00		
504(5)	Grouted Riprap, Class "A" (Pesos _____ _____ and _____ Centavos per cubic meter)	cu.m.	2,682.00		
505(1)	Stone Masonry (Pesos _____ _____ and _____ Centavos per cubic meter)	cu.m.	321.00		
506(1)	Hand Laid Rock Embankment (Loose Boulder Apron) (Pesos _____ _____ and _____ Centavos per cubic meter)	cu.m.	582.00		
507(2)b	Steel Sheet Piles, Furnished and Driven (400mm x 85mm x 8mm) (Pesos _____ _____ and _____ Centavos per linear meter)	I.m.	765.00		
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)
509(1)	Gabions (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	352.00		
510(1)	Rubble Concrete Slope Protection (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	609.00		
Sub-total for this Page					
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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)	I.m	3,040.00		
602(1)	Right-of-Way Concrete Monuments (Pesos _____ and _____ Centavos each)	each	657.00		
602(2)	Maintenance Marker Post (For Drainage Structure) (Pesos _____ and _____ Centavos each)	each	146.00		
602(3)	Kilometer Posts (Pesos _____ and _____ Centavos each)	each	10.00		
603(3)a	Metal Guardrail (Metal Beam), Type A (Pesos _____ and _____ Centavos per linear meter)	I.m.	7,065.00		
605(1)a	Warning Signs, (Triangular 900 mm) (Pesos _____ and _____ Centavos each)	each	22.00		
605(2)b	Regulatory Signs, (Octagonal, 600mm) (Pesos _____ and _____ Centavos each)	each	6.00		
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	29.00		
605(2)d	Regulatory Signs (Rectangular, 450mm x 750mm) (Pesos _____ and _____ Centavos each)	each	17.00		
605(3)c	Informatory Sign, Type B, Double Post (Pesos _____ and _____ Centavos each)	each	2.00		
605(3)d	Informatory Sign, Type C, Double Post (Pesos _____ and _____ Centavos each)	each	13.00		
607(2)b	Reflectorized Pavement Studs (2- Face Reflective) (Pesos _____ and _____ Centavos each)	each	135.00		
607(3)	Chatter Bars (1- Face Reflective) (Pesos _____ and _____ Centavos each)	each	494.00		
608(1)	Furnishing and Placing Top Soil (Pesos _____ and _____ Centavos per cubic meter)	cu.m.	53,829.00		
Sub-total for this Page					

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PART H
MISCELLANEOUS STRUCTURES

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (Pesos)	AMOUNT (Pesos)
610	Sodding (Pesos _____ and _____ Centavos per square meter)	sq.m.	277,030.00		
611(1)c	Trees (Furnishing and Transplanting) (Pesos _____ and _____ Centavos each)	each	773.00		
612(1)a	Reflectorized Thermoplastic Pavement Markings (White) (Pesos _____ and _____ Centavos per square meter)	sq.m.	4,055.00		
612(1)b	Reflectorized Thermoplastic Pavement Markings (Yellow) (Pesos _____ and _____ Centavos per square meter)	sq.m.	277.00		
SPL 620(1)a	Traffic Signal Pole, Type A (H = 6.7m) (Pesos _____ and _____ Centavos each)	each	10.00		
SPL 620(1)b	Traffic Signal Pole, Type B (H = 6.0m) (Pesos _____ and _____ Centavos each)	each	8.00		
SPL 620(1)c	Traffic Signal Pole, Type B (ø114.3 x 4.2m) (Pesos _____ and _____ Centavos each)	each	13.00		
Sub-total for this Page					

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PART H
MISCELLANEOUS STRUCTURES

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (Pesos)	AMOUNT (Pesos)
SPL 620(1)d	Traffic Signal Pole, Type C (ø 114.3 x 3.4m) (Pesos _____ and _____ Centavos each)	each	15.00		
SPL 620(1)e	Traffic Signal Pole, Type D (ø114.3 x 3.m) (Pesos _____ and _____ Centavos each)	each	4.00		
SPL 620(2)a	Traffic Signal Lamps, Type A (6 Vehicle Lamps) (Pesos _____ and _____ Centavos each)	each	26.00		
SPL 620(2)b	Traffic Signal Lamps, Type B (3 Vehicle Lamps) (Pesos _____ and _____ Centavos each)	each	27.00		
SPL 620(2)c	Traffic Signal Lamps, Type C (2 Pedestrian Lamps) (Pesos _____ and _____ Centavos each)	each	22.00		
SPL 620(4)a	Street Lighting Poles (Single Lamp) (Pesos _____ and _____ Centavos each)	each	9.00		
SPL 620(4)b	Street Lighting Poles (Dual Lamp) (Pesos _____ and _____ Centavos each)	each	57.00		
Sub-total for this Page					

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PART H
MISCELLANEOUS STRUCTURES

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

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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					

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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)	Prov'l 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)	Prov'l Sum	1.00		
SPL 900(3)	Provisional Sum No. 3 (For Geotechnical Investigation) (Pesos _____ and _____ Centavos per provisional sum)	Prov'l Sum	1.00		
SPL 900(4)	Provisional Sum No. 4 (For Repair and Maintenance of existing Access Road) (Pesos _____ and _____ Centavos per provisional sum)	Prov'l Sum	1.00		
SPL 900(5)	Provisional Sum No. 5 (For Environmental Compliance Requirements) (Pesos _____ and _____ Centavos per provisional sum)	Prov'l Sum	1.00		
SPL 900(6)	Provisional Sum No. 6 (For Health and Safety Requirements) (Pesos _____ and _____ Centavos per provisional sum)	Prov'l Sum	1.00		
SPL 900(7)	Provisional Sum No. 7 (For Daywork) (Pesos _____ and _____ Centavos per provisional sum)	Prov'l Sum	1.00		
Sub-total for this Page					

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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)	Prov'l Sum	1.00		
SPL 900(9)	Provisional Sum No. 9 (For Contingencies) (Pesos _____ and _____ Centavos per provisional sum)	Prov'l Sum	1.00		
Sub-total for this Page					
TOTAL FOR BILL PART K					

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

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.	138.16		
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 Hardware	kg.			
	3. Coko 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 (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 (Harvi-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' Aluminum 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. (thinners, 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	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			
	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			
X.	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			
	h. PVC Pipe, 50mm dia. x 10 ft.	pcs			
	i. Clean Out	pcs			
	j. FCO:FD	pcs			
	Plumbing Fixtures				
	a. Slope Sink	ea			
	b. Lavatory	ea			
	c. Water Closet	ea			
	d. Urinal	ea			
	e. Faucet	ea			
	f. Hose Bibbs	ea			
XI.	Toilet Accessories				
	a. Toilet Mirror	set			
	b. Toilet Paper Dispenser	set			
	c. Shower Head	set			
	d. Grab Bar	ea			
	e. Soap Holder	ea			
XII.	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			
XIII.	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 (Covered Parking & Fences & Gate)				
COMPONENT NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (PESOS)	AMOUNT (PESOS)
I.	Covered Parking a. Granular Bed Materials b. Portland Cement c. Fine Aggregates d. Coarse Aggregates e. Reinforcing Steel Bars f. Tie Wire # 16 g. Lumber, Apilong or Equal h. Plywood, 1/4" i. Coco Lumber j. Post Strap k. G. Roofings x 15 ft. l. Nails and Hardware m. Misc (1% of the above)	cu.m. bag cu.m. cu.m. kgs kgs bd.ft. pcs bd.ft. pcs pcs kgs lot			
II.	Fences and Gate: a. Portland Cement b. Fine Aggregates c. Coarse Aggregates d. G.I. Pipe, 75mm d.a. X 20 ft. e. G.I. Pipe, 50mm d.a. X 20 ft. f. Diagonal Brace, 12mm d.a. g. Turn Buckle, 12mm d.a. h. Wooden Post (4' x 4') i. Barb Wire j. Chain Link Fence (6' x 12m/roll) k. Misc. (welding Rods, Primers, etc.)	bag cu.m. cu.m. kgs kgs bd.ft. pcs bd.ft. pcs pcs kgs			
III.	Curing Tank a. Portland Cement b. Fine Aggregates c. Coarse Aggregates d. CHB, 150 mm Thk (6") e. Reinforcing Steel f. Sahara Cement g. 50mm d.a. G. I Drain Pipe h. 50mm d.a. Screw Plug	bag cu.m. cu.m. pcs kgs kgs l.m. ea.			
IV.	Septic Tank a. Portland Cement b. Fine Aggregates c. Coarse Aggregates d. CHB, 150 mm Thk (6") e. Reinforcing Steel f. 100mm PVC Pipe g. 100mm PVC Double Tee h. 100mm PVC Clean Out Plug i. Coco Lumber j. Plywood, 1/4" k. Nails & Hardware (1% of the above)	bag cu.m. cu.m. pcs kgs pcs pcs pcs bd.ft. pcs lot			
Sub-Total for this Page					
TOTAL FOR ITEM NO. A(1)a					

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)
	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. magiclip 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, withy 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)
	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 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)
	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 A - ANNEX TO THE BILL OF QUANTITIES

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 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)
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 Extinguishers, 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, bo'os, 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 OF LUMP SUM PAY ITEMS

1 of 6

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	1/2' - 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 C - ANNEX TO THE BILL OF QUANTITIES

SCHEDULE OF LUMP SUM PAY ITEMS

2 of 6

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 Afterberg 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., Chaus	unit			
Sub-Total for this Page					

SCHEDULE OF LUMP SUM PAY ITEMS

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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 1-1/4" x 1/8"	each			
6	Mixing Trowel, 2.5' x 4.5' blade	each			
7	Spatula, 4" blade	each			
8	Spatula, 8" 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 1-1/4" 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 C - ANNEX TO THE BILL OF QUANTITIES

SCHEDULE OF LUMP SUM PAY ITEMS

4 of 6

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 OF LUMP SUM PAY ITEMS

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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	Grmore 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	gals			
13	Rubber Mallet, 15 cm d/a.	each			
Sub-Total for this Page					

SCHEDULE C - ANNEX TO THE BILL OF QUANTITIES

SCHEDULE OF LUMP SUM PAY ITEMS

6 of 6

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	lot			
	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 and 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	Hour	
	Motorized Grader,		
902(12)	150Hp	Hour	
902(13)	Asphalt Distributor, 3000 gal.	Hour	
902(14)	Asphalt Paver / Finisher, 10 ft. wide	Hour	
	Motorized Grader,		
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. 109+920.00 – STA. 118+350.00)
CONTRACT PACKAGE No. II
(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. 109+920.00 – Sta. 118+350.00), Contract Package No. II

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. _____

WHEREAS, _____ (hereinafter called "the Bidder")
[Name of Bidder]
has submitted his Bid dated _____ for the construction of
[Date]
_____ hereinafter called "the Bid.")
(Name of the Contract)

KNOW ALL MEN by these presents that WE _____ of
[Name of Bank]
_____ having our registered office at
[Name of Country]
_____ (hereinafter called "the Bank") are
[Address]

bound unto the **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH)**
(hereinafter called "the **Employer**") in the sum of **PESOS**
_____, (P _____)
[Amount in Words]

for which payment well and truly to be made to the Employer, the Bank binds himself, his successors and assign by these presents.

SEALED with the common seal of the said Bank this _____ day of _____, 200__.

1. If the Bidder withdraws his Bid during the period of bid validity specified in the Form of Bid; or
2. If the Bidder does not accept the correction of arithmetical errors of his bid price in accordance with the Instructions to Bidders; or
3. If the Bidder having been notified of the acceptance of his Bid by the Employer during the period of bid validity:
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
 - (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders.

WE undertake to pay the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the

occurrence of one or both of the two (2) conditions, specifying the occurred condition or conditions.

THIS GUARANTEE will remain in force up to and including the one hundred twenty (120) days after the deadline for submission of bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect to this Guarantee should reach the Bank not later than the date above.

Dated this _____ day of _____, 200__

[Signature of Bank Representative]

[Seal of the Bank]

IN THE PRESENCE OF:

[Witness Name and Signature]

[Witness Name and Signature]

[Address]

[Address]

SF 3

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]

SF 3A

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 _____ (P _____), 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 :

SF 3C

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)

SF 4

ADVANCE PAYMENT SECURITY (BANK GUARANTEE)

TO : DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
Bonifacio Drive, Port Area
Manila

Re : Contract Package No. II
Upgrading Inter-Urban Highway System
Along the Pan-Philippine Highway Project
Cabanatuan Bypass (Sta. 109+920.00 – Sta. 118+350.00)

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 : _____

SF 5

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.

SF 7

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, Cabantuan Bypass, Sta
109+920.00 – Sta. 118+350.00), Contract Package No. II, 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]