

BID BULLETIN NO. 01

**FOR THE PROCUREMENT AND IMPLEMENTATION OF THE MAINTENANCE
AND REPAIR OF MAJOR ROADS AND SECONDARY ROADS**

Project Identification No.: (Infra-07-2020)

The John Hay Management Corporation (JHMC) provides the following reiterations, clarifications and/or supplemental information to the Bidding Documents for the above mentioned project, as discussed during the Pre-bid Conference conducted last 28 October 2020:

Reference	Original	Revised
ITB Clause 5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: a) Application of Bituminous Concrete Surface Wearing Course (50mm thick, hot laid); b) Painting of centerlines, edge lines and other pavement markings; c) Installation of road safety devices at critical sections; d) Portland Cement Concrete Pavement (PCCP); e) Grouted Riprap; and, f) Guard Rails	The contracts similar to the Project refer to contracts which have the same major categories of work: Application of Bituminous Concrete Surface Wearing Course (50mm thick, hot laid).
Invitation to Bid, Item 5	Payment of applicable fee for the Bidding Documents	Interested bidders may personally pay for Bidding Documents at the Finance Department, Cottage 625, JHMC Office Complex, Camp John Hay, Baguio City. They may also pay via electronic fund transfer or direct bank deposit using the following deposit details: Payee Name: <i>John Hay Management Corporation</i> Depository Bank: <i>Development Bank of the Philippines, Session Road, Baguio City Branch</i> Account Number: <i>0510-004308-031</i>
Invitation to Bid, Item 12	Contact Number of the BAC Secretariat is (074) 424-4824	Correction of posted telephone number is (074) 424-5824
Section VIII	Guidelines in the preparation of the Detailed Unit Price Analysis (DUPA)	Please refer to Annex "A"
	DUPA Summary Form	Please refer to Annex "B"
	Bill of Quantities (BOQ)	Please refer to Annex "C"

Republic of the Philippines
Office of the President

JHMC

JOHN HAY MANAGEMENT CORPORATION
a member of The **BCDA** Group



Certificate Numbers:
SCP000466Q
SCUK004591E

For your information. Thank You.

(sgd.) JANE THERESA G. TABALINGCOS
BAC Chairperson

ANNEX "A"

GUIDELINES IN PREPARING THE DETAILED UNIT PRICE ANALYSIS (DUPA)

1. All items of work to be used in preparing the DUPA shall be consistent with the design, plans and specifications prepared by JHMC.
2. For uniformity in the preparation of the Financial Proposal, the DUPA shall be an integral part of the Bidding Documents.
3. All bids shall be composed of the Direct Cost and Indirect Cost.
 - 3.1. **DIRECT COST.**
 - 3.1.1. **MATERIAL COST.** Cost of materials to be used in doing the work item called for, which shall include, among others, the following:
 - 3.1.1.1. Cost at source, including processing, crushing, stockpiling, loading, royalties, local taxes, construction and/or maintenance of haul roads, etc.
 - 3.1.1.2. Expenses for hauling to project site.
 - 3.1.1.3. Handling expenses.
 - 3.1.1.4. Storage expenses.
 - 3.1.1.5. Allowance for waste and/or losses.
 - 3.1.2. **LABOR COST.**
 - 3.1.2.1. Salaries and wages, as authorized by the Department of Labor and Employment.
 - 3.1.2.2. Fringe benefits, such as vacation and sick leaves, benefits under the Workmen's Compensation Act, SSS contributions, allowances, 13th month pay, bonuses, etc.
 - 3.1.3. **EQUIPMENT EXPENSES.**
 - 3.1.3.1. Rental rates of equipment shall be based on the prevailing "Association of Carriers and Equipment Lessors, (ACEL) Inc." approved for use by the DPWH-CAR. Rental rates of equipment not indicated in the ACEL booklet shall be taken from the rental rates used by the proponent. The make, model and capacity of the equipment should be indicated in the detailed unit cost analysis.
 - 3.1.3.2. Mobilization and demobilization shall be treated as a separate pay item. It shall be computed based on the equipment requirements of the project stipulated in the bidder's proposal.
 - 3.2. **INDIRECT COST.**
 - 3.2.1. **Overhead.**
 - 3.2.1.1. Cost to cover power and water consumption and office supplies.
 - 3.2.1.2. Premium on Contractor's All Risk Insurance (CARI).
 - 3.2.2. **Contingencies.** These includes expenses for coordination meetings, ground breaking, inauguration ceremonies and other unforeseen events.
 - 3.2.3. **Miscellaneous Expenses.** Expenses for laboratory tests for quality control.
 - 3.2.4. **Contractor's Profit.**

Notes:

1. All sub-items under the General Requirements shall not be subjected to OCM mark-up.
2. The following items under the General Requirements shall not be subjected to Contractor's profit mark-up:
 - a) Mobilization and Demobilization; and
 - b) Permits and clearances



Project Name: Procurement And Implementation Of The Maintenance And Repair
Of Major Roads And Secondary Roads
Location: JHSEZ, Camp John Hay Baguio City

DETAILED UNIT PRICE ANALYSIS

Item **A.1.1** : Offices and Laboratory for the Engineer Qty = 1.00 Us.

1. MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
				P
				P
				P
				P
				P
				P
				P
				P
				P
				P
<i>Sub - Total</i>				P
2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
				P
				P
				P
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
				P
				P
				P
				P
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
	OCM		P	
	Contractor's Profit		P	
	VAT	12%	P	
TOTAL ITEM COST				P
<i>Unit Cost</i>				P



JOHN HAY MANAGEMENT CORPORATION
a member of The **BCDA** Group



Certificate Numbers:
SCP000466Q
SCUK004591E

ANNEX "B"

Project Name:	Procurement And Implementation Of The Maintenance And Repair Of Major Roads And Secondary Roads
Location:	JHSEZ, Camp John Hay, Baguio City

DUPA Summary

Item No.	Item Description	Unit	Quantity	Direct Cost			Indirect Cost			Item Cost	Unit Cost	Percent	
				Labor	Equipment	Materials	Total	Overhead	Contingencies				Miscellaneous
1	#REF!												
2	General Requirements												
3	XXXXX												
4	XXXXX												
5	XXXXX												
6	XXXXX												
7	XXXXX												
8	XXXXX												
9	XXXXX												
10	XXXXX												
11	XXXXX												
12	XXXXX												
				Total Direct Cost:								Amount	Percent
				a. Labor									
				b. Equipment									
				c. Materials									
				Total Indirect Cost:									
				a. Overhead									
				b. Contingencies									
				c. Miscellaneous									
				d. Contractor's Profit									
				e. Withholding Taxes									
				Total Bid Amount:									

ANNEX “C”

Project Title : **PROCUREMENT AND IMPLEMENTATION OF THE MAINTENANCE
AND REPAIR OF MAJOR ROADS AND SECONDARY ROADS**

Location : **CAMP JOHN HAY BAGUIO CITY**

Subject : **DETAILED ESTIMATES**

Item A.1.1 : Offices and Laboratory for the Engineer Qty = 1.00 l.s.

1. MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
0.23	cu.m.	Gravel Bedding		P	
54.00	bd.f.t	Coco Lumber		P	
15.00	pc	Ordinary Plywood, 1/4"x4'x8'		P	
5.00	l.s.	Assorted CWN		P	
9.60	sq.m.	Pre-painted Roofing sheet, Ga. 26x2.44m		P	
6.00	sq.m.	Pre-painted Flashing, Ga. 24 (0.7 x 2.44m)		P	
		Miscellaneous		P	
<i>Sub - Total</i>				P	

2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman			P
2	Skilled			P
6	Unskilled			P
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Service/Cargo Truck (5 tons)			P
1	Water Truck			P
	Minor Tools (10% of Labor)			P
				P
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
	OCM		P	
	Contractor's Profit		P	
	VAT	12%	P	
TOTAL ITEM COST				P
Unit Cost				P

Item **B.4(10)** : Miscellaneous Survey ang Staking

Qty
= 1.00

l.s.

1. MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
<i>Sub - Total</i>				P -
2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Geodetic Engineer			P
1	Assistant Geodetic Engineer			P
1	Sr. Survey CAD/GIS Operator			P
1	Instrument Man			P
2	Rodmen			P
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Total Station with complete accessories			P
				P
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
OCM			P	
Contractor's Profit			P	
VAT			12% P	

TOTAL ITEM COST	P
<i>Unit Cost</i>	P

Item **B.5** : **Project Billboard/Signboard**

Qty
= 2.00

Each

1. MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
2.00	pc.	1/4" Marine Plywood		P	
40.00	bd.f.t	Assorted Lumber		P	
32.00	sq.ft.	Tarpaulin (DPWH Standard)		P	
1.00	l.s.	Assorted CWN		P	
64.00	bd.f.t	COA Billboard		P	
<i>Sub - Total</i>				P	
2. LABOR					
<i>Qty</i>		<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1		Foreman			P
1		Skilled			P
1		Unskilled			P
<i>Sub - Total</i>				P	
3. EQUIPMENT RENTAL					
<i>Qty</i>		<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1		Minor tools (10% of Labor)			P

				P
			<i>Sub - Total</i>	P
		A. DIRECT COST		P
		B. INDIRECT COST		P
		OCM	P	
		Contractor's Profit	P	
		VAT	12% P	
		TOTAL ITEM COST		P
		<i>Unit Cost</i>		<i>P</i>

Item **B.7(1)** : Occupational Safety and Health Program Qty = **5.90** Month

1. MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
1,928.39	man-day	Safety Gloves		P	
1,928.39	man-day	Safety Shoes		P	
1,928.39	man-day	Safety Helmet		P	
2,426.71	man-day	Safety Vest		P	
			<i>Sub - Total</i>	P	
2. LABOR					
<i>Qty</i>		<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1		Part Time Safety Practitioner			P
1		First Aider			P

				<i>Sub - Total</i>	P
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>	
				-	
				P	
				<i>Sub - Total</i>	P -
				A. DIRECT COST	P
				B. INDIRECT COST	P
		OCM	P	-	
		Contractor's Profit	P		
		VAT	12%	P	
				TOTAL ITEM COST	P
				Unit Cost	P

Item **B.8(1)** : Road Works Safety and Traffic Management

Qty
= 5.90

Month

1. MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
2.00	each	Speed Restriction (R4-1)		
2.00	each	Roadwork Ahead (T1-1)		
2.00	each	End Speed Restriction (R4-2)		
2.00	each	Workmen Ahead (T1-5)		
2.00	each	Road Machinery (T1-3)		
2.00	each	Prepare to Stop (T1-18)		
1.00	each	Temporary Hazard Marker (Chevron, T5-5)		
39.00	each	Traffic Cones		
<i>Sub - Total</i>				P
2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Traffic Controller (Flagmen)			
1	Unskilled Worker			
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				

<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Stake Truck (5T)			
12	Barricade Flasher Light (3 Volts, Battery Operated, Amber Color)			
				P
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
	OCM		P	
	Contractor's Profit		P	
	VAT	12%	P	
TOTAL ITEM COST				P
<i>Unit Cost</i>				<i>P</i>

Item **B.9** : Mobilization/Demobilization Qty = **1.00** l.s.

1. MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
<i>Sub - Total</i>				P
2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>

					<i>Sub - Total</i>	P	
3. EQUIPMENT RENTAL							
<i>Qty</i>	<i>Description</i>		<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>		
1	Cargo Truck (2-5 mt)						
						P	
					<i>Sub - Total</i>	P	
					A. DIRECT COST		P
					B. INDIRECT COST		P
				OCM	P		
				Contractor's Profit		P	
				VAT	12%	P	
					TOTAL ITEM COST		P
					<i>Unit Cost</i>		<i>P</i>

Item **B.12** : Removal and Relocation of Utilities Qty = **1.00** l.s.

1. MATERIALS						
<i>Qty</i>	<i>Unit</i>	<i>Description</i>		<i>Unit Cost</i>	<i>Amount</i>	
4.00	posts	BENECO Poles				
		(Approximate cost from BENECO)				
					<i>Sub - Total</i>	P
2. LABOR						

<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
				P
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
OCM				
Contractor's Profit				
VAT			12%	P
TOTAL ITEM COST				P
<i>Unit Cost</i>				P

Item **B.14** : Environmental Management and Monitoring Qty = **5.90** Month _____

1. MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
		Miscellaneous		
<i>Sub - Total</i>				P
2. LABOR				

<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
				P
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
	OCM		P	
	Contractor's Profit		P	
	VAT	12%	P	
TOTAL ITEM COST				P
Unit Cost				P

Item **101(1)** : Removal of Actual Structures/Obstruction (Grouted Riprap) Qty = **373.35** cu.m.

1. MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
				-

<i>Sub - Total</i>					P	-
2. LABOR						
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>		
1	Foreman					
1	Skilled					
2	Unskilled					
<i>Sub - Total</i>					P	7,119.04
3. EQUIPMENT RENTAL						
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>		
1	Dumptruck					
1	Backhoe (0.8 cu.m.)					
1	Minor tools (10% of Labor)					
<i>Sub - Total</i>					P	
A. DIRECT COST					P	
B. INDIRECT COST					P	
OCM			P			
Contractor's Profit			P			
VAT			12%	P		
TOTAL ITEM COST					P	
<i>Unit Cost</i>					P	

Item 101(3)b6 : Removal of Actual Structures/Obstruction (PCCP, Unreinforced) Qty = 81.60 sq.m.

1. MATERIALS

<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
<i>Sub - Total</i>				P
2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman			
2	Unskilled			
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Dumptruck			
1	Payloader (1.5 cu.m.)			
1	Backhoe w/ pavement Breaker			
	Minor tools (10% of Labor)			
				P
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
OCM			P	
Contractor's Profit			P	
VAT		12%	P	
TOTAL ITEM COST				P
<i>Unit Cost</i>				<i>P</i>

Item 101(3)d : Removal of Actual Structures/Obstruction (0.1m thick, Sidewalk)

Qty = 799.40

sq.m.

1. MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
<i>Sub - Total</i>				P
2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman			
1	Skilled			
2	Unskilled			
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Dumptruck			
1	Generator Set			
1	Jackhammer			
1	Minor tools (10% of Labor)			
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
			OCM	P
			Contractor's Profit	P
			VAT	12% P

TOTAL ITEM COST	P
Unit Cost	P

Item 101(4)b : Removal of Actual Structures/Obstruction (Curb and Gutter) Qty = 3,353.00 l.m.

1. MATERIALS						
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>		
<i>Sub - Total</i>				P		
2. LABOR						
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>	
1	Foreman					
1	Skilled					
2	Unskilled					
<i>Sub - Total</i>				P		
3. EQUIPMENT RENTAL						
<i>Qty</i>	<i>Description</i>		<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>	
1	Dumptruck					
1	Generator Set					
1	Jackhanner					
1	Minor tools (10% of Labor)					
						P
<i>Sub - Total</i>				P		
A. DIRECT COST				P		

B. INDIRECT COST			P
OCM		P	
Contractor's Profit		P	
VAT	12%	P	
TOTAL ITEM COST			P
Unit Cost			P

Item 102(2) : Surplus Common Excavation Qty = **1,033.00** cu.m.

1. MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
<i>Sub - Total</i>				P	
2. LABOR					
<i>Qty</i>		<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1		Foreman			
3		Unskilled			
<i>Sub - Total</i>					P
3. EQUIPMENT RENTAL					
<i>Qty</i>		<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
2		Dumptruck			
1		Backhoe (0.8 cu.m.)			
1		Minor tools (10% of Labor)			
					P

	<i>Sub - Total</i>	P
	A. DIRECT COST	P
	B. INDIRECT COST	P
	OCM P	
	Contractor's Profit P	
	VAT 12% P	
	TOTAL ITEM COST	P
	Unit Cost	P

Item **104(2)** : **Embankment** Qty = **403.08** *cu.m.*

1. MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
		(From excavated materials)		-	
<i>Sub - Total</i>				P	-
2. LABOR					
<i>Qty</i>		<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1		Foreman			
1		Skilled			
2		Unskilled			
<i>Sub - Total</i>				P	
3. EQUIPMENT RENTAL					

<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Plate Compactor			
1	Minor tools (10% of Labor)			
				P
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
	OCM		P	
	Contractor's Profit		P	
	VAT	12%	P	
TOTAL ITEM COST				P
<i>Unit Cost</i>				<i>P</i>

Item 201(1) : Aggregate Base Course Qty = 186.70 cu.m.

1. MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
214.71	cu.m.	Aggregate Base Course			
		(w/ 15% Shrinkage Factor)			
<i>Sub - Total</i>				P	
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman				P

2	Unskilled				P
<i>Sub - Total</i>					P
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>	
1	Motorized Road Grader			P	
1	Vibratory Roller (10 m.t.)			P	
1	Water Truck (1000 gal)			P	
				P	
<i>Sub - Total</i>					P
A. DIRECT COST					P
B. INDIRECT COST					P
OCM			P		
Contractor's Profit			P		
VAT			12% P		
TOTAL ITEM COST					P
<i>Unit Cost</i>					<i>P</i>

Item 302(2) : Bituminous Tack Coat (Emulsified Asphalt: CSB-3) Qty = 27,316.00 sq.m.

1 MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
20.28	m.t.	Emulsified Asphalt SS-1			
		(w/ 5% wastage)			
<i>Sub - Total</i>					P

2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman			
3	Unskilled			
	<i>Night Shift</i>			
1	Foreman			
3	Unskilled			
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Asphalt Distributor, 10ft. Wide (5 tons)			
1	Power Boom			
	Minor tools (10% of Labor)			P
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
	OCM		P	
	Contractor's Profit		P	
	VAT	12%	P	
TOTAL ITEM COST				P
<i>Unit Cost</i>				P

Item 310(1)c : Bituminous Concrete Surface Wearing Course, Hot-Laid, 50 mm Qty = 27,316.00 sq.m.

1. MATERIALS

<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
3,335.26	m.t.	Bituminous Concrete Surface Wearing Course,			
		Hot-Laid, 50 mm			
		(w/ 5% wastage)			
		<i>For Correction</i>			
74.27	m.t.	Bituminous Concrete Surface Wearing Course,			
		Hot-Laid, 50 mm			
		(w/ 5% wastage)			
<i>Sub - Total</i>				P	
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman				
4	Skilled				
8	Unskilled				
	<i>Night Shift</i>				
1	Foreman				
4	Skilled				
8	Unskilled				
	<i>For Correction</i>				
1	Foreman				
1	Skilled				
2	Unskilled				
	<i>Night Shift</i>				
1	Foreman				

1	Skilled				
2	Unskilled				
<i>Sub - Total</i>					P
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>	
1	Tandem Steel Roller (10.1 m.t.)				
1	Pneumatic Tire Roller (10 m.t.)				
1	Asphalt Paver/Mixer				
1	Water Truck w/ pump (16000L)				
	Minor Tools (10% of Labor)				
<i>Sub - Total</i>					P
A. DIRECT COST					P
B. INDIRECT COST					P
OCM			P		
Contractor's Profit			P		
VAT		12%	P		
TOTAL ITEM COST					P
<i>Unit Cost</i>					<i>P</i>

Item 311(1)e2 : Portland Cement Concrete Pavement (Unreinforced, 0.28mm thick, 7 day) Qty = 3,653.00 sq.m.

1 MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
1,826.50	kg	Reinforcing Steel Bar			
1,059.37	lt.	Curing Compound			

1,022.84	cu.m.	Ready-mixed concrete 3500psi @7days			
621.01	lit.	Asphalt Sealant			
1,095.90	l.m.	Steel Forms (Rental)			
0.55	pc.	Concrete Saw (diamond blade 14")			
28.49	lit.	Grease/Tar			
<i>Sub - Total</i>					P
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman				
4	Skilled				
10	Unskilled				
<i>Sub - Total</i>					P
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>		<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Batching Plant (30 cu.m.)				
1	Concrete Paver, GP-2000 Slipform				
4	Transit Mixer (5 cu.m.)				
1	Payloader (1.50 cu.m.), LX80-2C				
1	Water Truck (1000 gal.)				
1	Concrete Saw, Blade Ø 14" (7.5 Hp)				
1	Concrete Vibrator				
1	Bar Cutter, Single Phase				
	Minor Tools (10% of Labor)				P

			<i>Sub - Total</i>	P
			A. DIRECT COST	P
			B. INDIRECT COST	P
			OCM	P
			Contractor's Profit	P
			VAT	12% P
			TOTAL ITEM COST	P
			<i>Unit Cost</i>	P

Item **401(1)** : Metal Railing Qty = **385.00** l.m.

1 MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
6,583.50	kg	Tubular, 2"x3"			
987.00	kg	Welding Rod			
16.46	set	Oxy/Acetyene			
198.00	gal	Red Led Primer			
297.00	gal	Quick Dry Enamel			
		Miscellaneous			
			<i>Sub - Total</i>	P	
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>

1	Foreman			
1	Welder			
4	Unskilled			
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Speed cutter			
1	Cutting Outfit			
1	Welding Machine			
	Minor Tools (10% of Labor)			
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
	OCM		P	
	Contractor's Profit		P	
	VAT	12%	P	
TOTAL ITEM COST				P
Unit Cost				P

Item 404(1)a : Reinforcing Steel (Grade 40) Qty = 14,019.98 kg

1 MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
280.00	kg	GI Tie Wire Ga.16		

14,721.00	kg	RSB (w/ 5% wastage)			
<i>Sub - Total</i>					P
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman				
2	Welder				
8	Unskilled				
<i>Sub - Total</i>					P
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>		<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Service/Cargo Truck (5 tons)				
1	Bar Cutter				
1	Bar Bender				
	Minor Tools (10% of Labor)				
<i>Sub - Total</i>					P
A. DIRECT COST					P
B. INDIRECT COST					P
				P	
				P	
				12%	P
TOTAL ITEM COST					P
Unit Cost					P

Item 405(1)a3 : Structural Concrete (Class A, 20.68Mpa, 30 days) Qty cu.m.

= 177.64

1 MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
3,109.00	bd.ft.	Good Lumber		
142.00	pcs.	1/2" Marine Plywood		
89.00	kg.	Assorted CWN		
1,688.00	bag	Cement		
89.00	cu.m.	Sand		
178.00	cu.m.	Gravel		
<i>Sub - Total</i>				P
2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
	<i>Installation & Removal of Forms</i>			
4	Skilled			
8	Unskilled			
	<i>Pouring of Concrete</i>			
1	Foreman			
4	Skilled			
8	Unskilled			
<i>Sub - Total</i>				P

3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	One Bagger Mixer			
1	Concrete Vibrator			
1	Water Truck/ Pump (1000 gal)			
	Minor Tools (10% of Labor)			
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
	OCM		P	
	Contractor's Profit		P	
	VAT	12%	P	
TOTAL ITEM COST				P
Unit Cost				P

Item **500(1)** : Pipe Culverts (610mmØ RCPC, Class II) Qty = **422.00** l.m.

1 MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
456.00	bag	Cement		
25.00	cu.m.	Sand		
422.00	pc	RC Pipe, Class II, 610mmØ		

<i>Sub - Total</i>					P
2. LABOR					
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>	
1	Foreman				
2	Skilled				
4	Unskilled				
<i>Sub - Total</i>					P
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>	
1	Backhoe (0.8 cu.m.)				
1	Plate Compactor (5hp)				
1	Water Truck/ Pump (1000 gal)				
	Minor Tools (10% of Labor)				
<i>Sub - Total</i>					P
A. DIRECT COST					P
B. INDIRECT COST					P
OCM			P		
Contractor's Profit			P		
VAT			12%	P	
TOTAL ITEM COST					P
Unit Cost					P

Item **502(1)a1** : Manholes (610mmØ, Concrete) Qty = **20.00** Each

1 MATERIALS

<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
220.50	bd.ft.	Lumber, Good - 4 uses			
5.04	pc.	Marine Plywood (1/2" x 4' x 8")			
1.39	kg.	Assorted CWN (1kg/100bd.ft. of lumber)			
29.93	bag	Cement			
1.58	cu.m.	Sand			
3.15	cu.m.	Crushed Gravel, (Grading A)			
52.37	kgs.	# 16 G.I. Tie Wire (2% of RSB)			
2,618.28	kgs.	Reinforcing Steel Bar, Grade 40			
		(w/ 5% wastage)			
890.60	kgs.	12 mm dia. RSB			
1,603.00	kgs.	16 mm dia. RSB			
<i>Sub - Total</i>				P	
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
	<i>Fabrication and Installation of RSB</i>				
1	Foreman				
2	Skilled				
8	Unskilled				
	<i>Fabrication and Installation/Removal of Forms</i>				

4	Skilled			
8	Unskilled			
	<i>Pouring of Concrete</i>			
1	Foreman			
4	Skilled			
8	Unskilled			
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	One Bagger Mixer			
1	Concrete Vibrator			
1	Water Truck/ Pump (1000 gal)			
1	Bar Cutter, Single Phase			
1	Bar Bender			
1	Cargo Truck (5 Ton)			
	Minor Tools (10% of Labor)			
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
	OCM		P	
	Contractor's Profit		P	
	VAT	12%	P	
TOTAL ITEM COST				P
Unit Cost				P

Item 502(2)a1 : Inlet, type (610mmØ)

Qty = 20.00

Each

1 MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
		Dimensions: 1m x 0.50m x 0.20m			
3,140.00	kg.	M.S Plate (12mm x 100mm)			
1.00	kg.	Welding Rod			
1.00	set	Oxyl/Acetylene			
1.00	gal.	Red Lead Primer			
1.00	gal.	Paint Thinner			
				<i>Sub - Total</i>	P
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
	<i>Fabrication and Installation of RSB</i>				
1	Foreman				
2	Skilled				
8	Unskilled				
				<i>Sub - Total</i>	P
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>		<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Welding Machine				
1	Generator Set				
1	Cutting Outfit				

1	Cargo Truck (5 Ton)			
	Minor Tools (10% of Labor)			
<i>Sub - Total</i>				<i>P</i>
A. DIRECT COST				<i>P</i>
B. INDIRECT COST				<i>P</i>
	OCM		<i>P</i>	
	Contractor's Profit		<i>P</i>	
	VAT	12%	<i>P</i>	
<i>TOTAL ITEM COST</i>				<i>P</i>
<i>Unit Cost</i>				<i>P</i>

Item 502(4)a1 : Concrete Cover (610mmØ) Qty = 26.00 Each

1 MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
		Dimensions: 1m x 0.50m x 0.20m			
24.70	bag	Cement			
1.30	cu.m.	Sand			
2.60	cu.m.	Crushed Gravel (Grading A)			
801.58	kg.	Reinforcing Steel Bar			
16.03	kg.	#16 GI Tie Wire			
27.82	pc.	5mm x 50mm x 50mm Angle Bar			

3.12	kg.	Welding Rod			
9.93	pc.	1/2" Ordinary Plywood - 2 uses			
52.00	set	16mm dia. U-bolt & Knot			
0.88	gal.	Red Lead			
0.22	gal.	Paint Thinner			
<i>Sub - Total</i>				P	
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
	<i>Fabrication and Installation of RSB</i>				
1	Foreman				P
2	Skilled				P
4	Unskilled				P
<i>Sub - Total</i>				P	
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>		<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	One-bagger Mixer				
1	Water Truck/Pump (1000 gal)				
1	Bar Cutter (Single Phase)				
1	Welding Machine				
1	Concrete Vibrator				
	Minor Tools (10% of Labor)				
<i>Sub - Total</i>				P	

A. DIRECT COST	P
B. INDIRECT COST	P
OCM	P
Contractor's Profit	P
VAT	12% P
TOTAL ITEM COST	P
<i>Unit Cost</i>	<i>P</i>

Item 503(2) : Drainage Steel Grating with Frame Qty = 544.43 kg

1 MATERIALS					
Qty	Unit	Description	Unit Cost	Amount	
544.43	kg	Angle Bar, 50mm x50mm x6mm			
54.00	kg	Welding Rod			
1.36	set	Oxy/Acetyene			
16.33	gal	Red Led Primer			
		Miscellaneous			
<i>Sub - Total</i>				P	
2. LABOR					
Qty	Description	Rate	No. of Hrs	Amount	
1	Foreman				
2	Welder				
4	Unskilled				

					<i>Sub - Total</i>	P
3. EQUIPMENT RENTAL						
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>		
1	Speed cutter					
1	Cutting Outfit					
1	Welding Machine					
	Minor Tools (10% of Labor)					
					<i>Sub - Total</i>	P
					A. DIRECT COST	
					P	
					B. INDIRECT COST	
					P	
OCM			P			
Contractor's Profit			P			
VAT			12%	P		
					TOTAL ITEM COST	
					P	
					Unit Cost	
					P	

Item 505(2) : Grouted Riprap Qty = 1,364.02 cu.m.

1 MATERIALS						
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>		
409.00	pcs.	Weep holes(50mmØ PVC)				
20.00	sq.m.	Filter Cloth				
1,432.00	cu.m.	Boulders (15-25kg) (w/5% shrinkage factor)				

4,092.00	bag	Cement			
341.00	cu.m.	Sand			
20.00	cu.m.	Gravel			
<i>Sub - Total</i>					P
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman				
2	Skilled				
8	Unskilled				
<i>Sub - Total</i>					P
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>		<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	One Bagger Mixer				
1	Water Truck/ Pump (1000 gal)				
	Minor Tools (10% of Labor)				
<i>Sub - Total</i>					P
A. DIRECT COST					P
B. INDIRECT COST					P
	OCM			P	
	Contractor's Profit			P	
	VAT		12%	P	
TOTAL ITEM COST					P
Unit Cost					P

Item 508(1)

: Hand-Laid Rock Embankment

Qty
= 123.90

cu.m.

1 MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
130.00	cu.m.	Boulders (15-25kg) (w/5% shrinkage factor)		
<i>Sub - Total</i>				P
2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman			
2	Skilled			
8	Unskilled			
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Dumptruck			
	Minor Tools (10% of Labor)			
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
			OCM	P
			Contractor's Profit	P

VAT	12%	P
TOTAL ITEM COST		P
Unit Cost		P

Item **600(4)** : **Curb and Gutter (Cast-in Place)** Qty = **4,287.00** l.m.

1 MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
1,659.00	bag	Cement		
150.00	cu.m.	Sand		
300.00	cu.m.	Gravel		
257.00	pc.	Marine Pywood, 1/2" thick, 4 uses		
1,639.00	bd.ft.	Form Lumber, 4 uses		
47.00	kg.	Assorted CWN		
<i>Sub - Total</i>				P
2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman			
4	Skilled			
8	Unskilled			
<i>Sub - Total</i>				P

3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	One Bagger Mixer			
1	Water Truck/Pump			
1	Concrete Vibrator			
	Minor Tools (10% of Labor)			
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
	OCM		P	
	Contractor's Profit		P	
	VAT	12%	P	
TOTAL ITEM COST				P
Unit Cost				P

Item **601(1)** : **Sidewalk** Qty = **2,630.00** sq.m.

1 MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
2,498.00	bag	Cement		
144.00	cu.m.	Sand		
263.00	cu.m.	Gravel		
762.00	lit.	Curing Compound		

315.00	lit.	Asphalt Sealant			
1,209.00	l.m.	Forms			
<i>Sub - Total</i>					P
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman				
4	Skilled				
12	Unskilled				
<i>Sub - Total</i>					P
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>		<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	One Bagger Mixer				
1	Water Truck/Pump				
1	Concrete Vibrator				
2	Concrete Saw, Blade Ø 14" (7.5 HP)				
	Minor Tools (5% of Labor)				
<i>Sub - Total</i>					P
A. DIRECT COST					P
B. INDIRECT COST					P
OCM				P	
Contractor's Profit				P	
VAT				12%	P
TOTAL ITEM COST					P
Unit Cost					P

Item 603(6)a : Guardrail (Metal Guardrail, W-Beam, Including Post)

Qty
= 1,133.80

l.m.

1 MATERIALS					
Qty	Unit	Description	Unit Cost	Amount	
374.00	bag	Cement			
20.00	cu.m.	Sand			
40.00	cu.m.	Gravel			
1,133.80	l.m.	Metal Beam Guardrail			
379.00	l.m.	GI Pipe, sch.40, 6"			
283.00	pc.	Marine Plywood, 1/2"x4'x8', 4 uses			
9,070.40	bd.ft.	Lumber, 4 uses			
4,535.20	kg.	Reinforcing Steel Bar, Grade 40			
90.00	kg.	Tie Wire (2% of RSB)			
90.70	kg.	Assorted CWN			
566.00	pc.	Bolt, Nut & Washer 5/8"Ø x 9"			
2,267.00	pc.	Bolt, Nut & Washer 5/8"Ø x 1"			
				<i>Sub - Total</i>	P
2. LABOR					

<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman			
2	Skilled			
4	Unskilled			
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	One Bagger Mixer			
1	Water Truck/Pump			
1	Concrete Vibrator			
2	Cargo Truck (10 T)			
	Minor Tools (5% of Labor)			
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
OCM			P	
Contractor's Profit			P	
VAT			12% P	
TOTAL ITEM COST				P
Unit Cost				P

Item 605(1) : Road Sign (Warning Signs) Qty = 1.00 ls.

1 MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>

9.00	bag	Cement		
1.00	cu.m.	Sand		
1.00	cu.m.	Gravel		
18.00	bd.ft.	Form Lumber, Good - 4 uses		
1.00	kg.	Assorted CWN		
133.00	kg.	10mm Ø RSB		
2.00	kg.	GI Tie wire, Ga. 16		
66.00	m.	3"Ø GI Pipe (3 m per sign post)		
22.00	pc.	3"Ø End Cap		
26.40	m.	Flat Bar 2"x1/8"		
2.00	pc.	Warning Signs, 3mm Thk. Aluminum Sheet, W2-5A, 450mm		
2.00	pc.	Warning Signs, 3mm Thk. Aluminum Sheet, W2-6, 450mm		
18.00	pc.	Warning Signs, 3mm Thk. Aluminum Sheet, W6-1B, 600mm x 600mm		
66.00	set	GI Bolts w/ nuts & washer, 10mm x1 1/2"		
7.00	gal	Red Lead Primer		
7.00	gal	Paint (International Orange)		
			<i>Sub - Total</i>	P

2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman			
1	Skilled			
2	Unskilled			
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Cargo Truck (5 T)			
	Minor Tools (10% of Labor)			
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
	OCM		P	
	Contractor's Profit		P	
	VAT	12%	P	
TOTAL ITEM COST				P
Unit Cost				P

Item **605(2)** : Road Sign (Regulatory Signs) Qty = **1.00** l.s.

1 MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
20.00	bag	Cement		

2.00	cu.m.	Sand		
3.00	cu.m.	Gravel		
38.00	bd.ft.	Form Lumber, Good - 4 uses		
2.00	kg.	Assorted CWN		
290.00	kg.	10mm Ø RSB		
5.00	kg.	GI Tie wire, Ga. 16		
144.00	m.	3"Ø GI Pipe (3 m per sign post)		
48.00	pc.	3"Ø End Cap		
57.60	m.	Flat Bar 2"x1/8"		
2.00	pc.	Regulatory Signs, 3mm Thk. Aluminum Sheet, R1-1A,450mm x450mm		
4.00	pc.	Regulatory Signs, 3mm Thk. Aluminum Sheet, R3-16A, 600mm		
8.00	pc.	Regulatory Signs, 3mm Thk. Aluminum Sheet, R4-1A, 450mm		
8.00	pc.	Regulatory Signs, 3mm Thk. Aluminum Sheet, R5-1S, 450mm		
2.00	pc.	Regulatory Signs, 3mm Thk. Aluminum Sheet, R5-6, 450x750mm		
6.00	pc.	Regulatory Signs, 3mm Thk. Aluminum Sheet, R6-7, 450mm x 675mm		
18.00	pc.	Regulatory Signs, 3mm Thk. Aluminum Sheet, R6-8A, 450mm		
192.00	set	GI Bolts w/ nuts & washer, 10mm x1 1/2"		

17.00	gal	Red Lead Primer			
17.00	gal	Paint (International Orange)			
<i>Sub - Total</i>					P
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman				
1	Skilled				
2	Unskilled				
<i>Sub - Total</i>					P
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>		<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Cargo Truck (5 T)				
	Minor Tools (10% of Labor)				
<i>Sub - Total</i>					P
A. DIRECT COST					P
B. INDIRECT COST					P
OCM				P	
Contractor's Profit				P	
VAT				12% P	
TOTAL ITEM COST					P
<i>Unit Cost</i>					<i>P</i>

Item 605(3) : Road Sign (Guide or Informative Signs)

Qty
= 1.00

l.s.

1 MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
6.00	bag	Cement			
1.00	cu.m.	Sand			
1.00	cu.m.	Gravel			
38.00	bd.ft.	Form Lumber, Good - 4 uses			
1.00	kg.	Assorted CWN			
97.00	kg.	10mm Ø RSB			
1.00	kg.	GI Tie wire, Ga. 16			
96.00	m.	3"Ø GI Pipe (3 m per sign post)			
32.00	pc.	3"Ø End Cap			
32.00	m.	Flat Bar 2"x1/8"			
28.80	sq.m.	Guide or Informative Signs, 3mm Thk. Aluminum Sheet			
64.00	set	GI Bolts w/ nuts & washer, 10mm x1 1/2"			
17.00	gal	Red Lead Primer			
17.00	gal	Paint (International Orange)			
				<i>Sub - Total</i>	P

2. LABOR				
<i>Qty</i>	<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman			P
1	Skilled			P
2	Unskilled			P
<i>Sub - Total</i>				P
3. EQUIPMENT RENTAL				
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Cargo Truck (5 T)			P
	Minor Tools (10% of Labor)			P
<i>Sub - Total</i>				P
A. DIRECT COST				P
B. INDIRECT COST				P
OCM			P	
Contractor's Profit			P	
VAT		12%	P	
TOTAL ITEM COST				P
<i>Unit Cost</i>				P

Item **605(6)** : Road Sign (Hazard Markers) Qty = **1.00** ls.

1 MATERIALS				
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>
8.00	bag	Cement		
1.00	cu.m.	Sand		

1.00	cu.m.	Gravel			
38.00	bd.ft.	Form Lumber, Good - 4 uses			
1.00	kg.	Assorted CWN			
121.00	kg.	10mm Ø RSB			
16.00	kg.	12mm Ø RSB			
2.00	kg.	GI Tie wire, Ga. 16			
60.00	m.	3"Ø GI Pipe (3 m per sign post)			
20.00	pc.	3"Ø End Cap			
71.20	m.	Flat Bar 2"x1/8"			
40.00	pc.	Chevron Sign, 2 sign face each , HM 1A, 3mm thick Aluminum Sheet			
80.00	set	GI Bolts w/ nuts & washer, 10mm x1 1/2"			
17.00	gal	Red Lead Primer			
17.00	gal	Paint (International Orange)			
<i>Sub - Total</i>				P	
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman				P
1	Skilled				P
2	Unskilled				P

					<i>Sub - Total</i>	P
3. EQUIPMENT RENTAL						
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>		
1	Cargo Truck (5 T)					
	Minor Tools (10% of Labor)					
					<i>Sub - Total</i>	P
					A. DIRECT COST	
					P	
					B. INDIRECT COST	
					P	
			OCM	P		
			Contractor's Profit	P		
			VAT	12% P		
					TOTAL ITEM COST	
					P	
					Unit Cost	
					P	

Item 612(1) : Reflectorized Thermoplastic Pavement Markings White Qty = **1,184.00** sq.m.

1 MATERIALS						
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>		
384.00	bag	Thermoplastic Paint (White)				
40.00	bag	Glass Beads				
143.00	liter	Primer White				
1.00	cyl.	LPG (50 kg)				

3.00	cyl.	LPG (12 kg)			
148.00	kg.	Calsumine			
		Miscellaneous (5% of Materials)			
<i>Sub - Total</i>					P
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Foreman				
2	Skilled				
6	Unskilled				
<i>Sub - Total</i>					P
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>		<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Cargo Truck/Delivery Truck (5T)				
1	Applicator Machine				
1	Kneading Machine				
	Minor Tools (10% of Labor)				
<i>Sub - Total</i>					P
A. DIRECT COST					P
B. INDIRECT COST					P
OCM				P	
Contractor's Profit				P	
VAT				12% P	
TOTAL ITEM COST					P
Unit Cost					P

Item 612(2)

: Reflectorized Thermoplastic Pavement Markings Yellow

Qty
= 636.00

sq.m.

1 MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
206.00	bag	Thermoplastic Paint (Yellow)			
21.00	bag	Glass Beads			
77.00	liter	Primer Yellow			
1.00	cyl.	LPG (50 kg)			
2.00	cyl.	LPG (12 kg)			
80.00	kg.	Calsumine			
		Miscellaneous (5% of Materials)			
<i>Sub - Total</i>					P
2. LABOR					
<i>Qty</i>		<i>Description</i>	<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1		Foreman			
2		Skilled			
6		Unskilled			
<i>Sub - Total</i>					P
3. EQUIPMENT RENTAL					
<i>Qty</i>		<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>

1	Cargo Truck/Delivery Truck (5T)					
1	Applicator Machine					
1	Kneading Machine					
	Minor Tools (10% of Labor)					
				<i>Sub - Total</i>	P	
				A. DIRECT COST		P
				B. INDIRECT COST		P
				OCM	P	
				Contractor's Profit	P	
				VAT	12%	P
				TOTAL ITEM COST		P
				Unit Cost		P

Item 807(1) : Site Development Qty = 1.00 l.s.

1. MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
1.00	l.s.	Soft Scape			
				<i>Sub - Total</i>	P
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
	Minor Tools (10% of Materials)				P

				<i>Sub - Total</i>	P
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>	<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>	
	Minor Tools (10% of Materials)			P	
				P	
				<i>Sub - Total</i>	P
A. DIRECT COST					P
B. INDIRECT COST					P
	OCM		P		
	Contractor's Profit		P		
	VAT	12%	P		
TOTAL ITEM COST					P
Unit Cost					P

Item **807(9)** : **Paver Blocks** Qty = **2,301.04** *sq.m.*

1 MATERIALS					
<i>Qty</i>	<i>Unit</i>	<i>Description</i>	<i>Unit Cost</i>	<i>Amount</i>	
2,301.04	sq.m.	Paver Blocks 4"x8"x50mm			
11.00	pcs.	1/2" Marine Plywood			
7.00	kg.	Assorted CWN			
131.00	bag	Cement			

122.00	cu.m.	Sand			
14.00	cu.m.	Gravel			
<i>Sub - Total</i>				P	
2. LABOR					
<i>Qty</i>	<i>Description</i>		<i>Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
	<i>Installation of Paver block</i>				
1	Foreman				
2	Skilled				
4	Unskilled				
	<i>Pouring of Concrete (Guide)</i>				
1	Foreman				
4	Skilled				
8	Unskilled				
<i>Sub - Total</i>				P	
3. EQUIPMENT RENTAL					
<i>Qty</i>	<i>Description</i>		<i>Operated Rate</i>	<i>No. of Hrs</i>	<i>Amount</i>
1	Plate Compactor				
	Minor Tools (10% of Labor)				
<i>Sub - Total</i>				P	
A. DIRECT COST				P	
B. INDIRECT COST				P	
OCM			P		
Contractor's Profit			P		

VAT	12%	P	
<i>TOTAL ITEM COST</i>			<i>P</i>
<i>Unit Cost</i>			<i>P</i>

GRAND TOTAL COST	P
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