

PROJECT : IMPROVEMENT OF ROAD ALONG NIA CANAL AND SCREEN HOUSE CITY AREA
SUBJECT : BILL OF QUANTITIES
LOCATION : PHILRICE-CES, BRGY. MALIGAYA, SCIENCE CITY OF MUÑOZ, NUEVA ECIJA

LOT I - IMPROVEMENT OF ROAD ALONG NIA CANAL

FEATURES AND SCOPE OF WORKS

SITE WORKS

Site clearing works
Excavation works for flood control canal and RC pipe laying
Backfill, gravel bedding and compaction works
Cutting and uprooting of affected trees

CONCRETE WORKS

Concrete works for base, stiffener column and lintel beam of open canal
Use Type-1 cement for all concrete works

REINFORCING STEEL BARS

12mm dia. DRSB Grade 40 as main bars of all reinforced concrete including CHB laying rebars
10mm dia. DRSB Grade 33 for ties of stiffener column

FORMWORKS

9mm phenolic board and 2" x 2" form lumber for all formworks

MASONRY WORKS

6" CHB laying for for open canal
Stone boulders for masonry slope protection
18" diameter RC pipe
2-Side plastering works

ROAD IMPROVEMENT

Cut and fill of existing road along NIA canal as part of road base preparation
Topping of rounded gravel and compaction using roller compactor

OTHERS

>Professional Fees / Permits / Testing Fees /PPE'S/ Signage
>Technical Personnel
>Supply of indigenous species of seedlings as required for replacement of trees to be cut

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	MATERIAL COST	LABOR + EQUIPMENT COST	ESTIMATED DIRECT COST	OCM	PROFIT	VAT	TOTAL INDIRECT COST	TOTAL	UNIT COST
I.	SITE WORKS											
	A. Cutting and Clearing of Trees	1.00	lot									
	B. Excavation Works	1.00	lot									
	C. Backfill, Gravel Bedding & Compaction	1.00	lot									
	> River Mixed											
	> Ordinary Gravel - G1											
	Total - I		Php									
II.	CONCRETE WORKS											
	> Portland Cement, 40kgs/bag	12.00	cu.m									
	> Washed Sand (S-1)											
	> Crushed Gravel (3/4)											
	Total - II		Php									
III.	REINFORCING STEEL BARS											
	> 12 mm dia DRSB x 6.0m, Grade 40	1,205.67	kgs									
	> 10 mm dia DRSB x 6.0m, Grade 33											
	> #16 G.I. Tie Wire											
	Total - III		Php									

IV.	FORMWORKS											
	> Phenolic Board 9mm thk (4ft x 8ft)	1.00	lot									
	> Form Lumber 2" x 2"											
	> Consumables (CWN, Tie Wire, etc.)											
	Total - IV		Php									
V.	MASONRY WORKS											
	A. CHB Laying and Plastering Works	100.00	sq.m.									
	> 6" thk CHB											
	> Portland Cement, 40kgs/bag											
	> Washed Sand											
	> Consumables (Tie Wire, Cutting Disk, etc.)											
	B. Stone Masonry and RC Pipe Laying	1.00	lot									
	> 4" - 5" Dia. Stone Boulders											
	> 18" Diameter RC Pipe											
	> Portland Cement, 40kgs/bag											
	> Sand											
	> Consumables (Tansi, PVC for Weep Holes, etc.)											
	Total - V		Php									
VI.	ROAD IMPROVEMENT											
	> Mixed G1-G2 Rounded Gravel with Binder	211.80	l.m.									
	Total - IV		Php									
VII.	OTHERS											
	> Professional Fees / Permits / Testing Fees	1.00	lot									
	> /PPE'S/ Signage											
	> Indigenous Species Seedlings	550.00	pcs									
	Total - XIII		Php									
TOTAL COST - FLOOD CONTROL AND SLOPE PROTECTION												
-												
LOT II - IMPROVEMENT OF ROAD ALONG SCREEN HOUSE CITY AREA												
FEATURES AND SCOPE OF WORKS												
BASE COURSE PREPARATION												
Additional base course materials to level the road												
Compaction works using roller compactor												
CONCRETE WORKS												
Use ready mix concrete for the road concreting												
Provide dowels for all termination of concrete works												
Provide even scratch at road, grooves and cuttings												
Construction of box culvert type canal crossing to the concrete road												
OTHERS												
Provide FDT testing prior to concreting and other necessary testing for road concreting												
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	MATERIAL COST	LABOR + EQUIPMENT COST	ESTIMATED DIRECT COST	OCM	PROFIT	VAT	TOTAL INDIRECT COST	TOTAL	UNIT COST
I.	BASE COURSE PREPARATION											
	> Selected Earthfill Materials (Mixed Sand, Gravit and Soil)	430.00	sq.m.									
	> 3/4 Gravel Mixed of Round and Crushed											
	Total - I		Php									

II.	CONCRETE WORKS											
	> Ready Mix Concrete (3000 - 3500 psi)	64.50	cu.m									
	> Formworks (6" C-Purlins)											
	> 16mm Dia. Round Bar (Dowel Bars)											
	> Construction of 0.60m width x 0.60m depth x 5.0 linear meter box culvert type canal											
	> Consumables (Asphalt Sealant, Curing Compound, 14" Disk Concrete Cutter, etc.)											
Total - II			Php									
III.	OTHERS											
	> Professional Fees / Permits / Testing Fees /PPE'S/ Signage	1.00	lot									
	> Technical Personnel											
	> Temporary Facilities/ Perimeter Fence											
Total - XI			Php									
TOTAL COST - ROAD DEVELOPMENT												-

TOTAL SUMMARY OF COST												
				MATERIAL COST	LABOR + EQUIPMENT COST	ESTIMATED DIRECT COST	OCM	PROFIT	VAT (5%)	TOTAL INDIRECT COST	TOTAL	UNIT COST
Direct Cost												
	Material Cost +	PhP		-								
	Labor Cost + Equipment Rental Cost	PhP			-							
	Total Direct Cost	PhP				-						
Indirect Cost												
	OCM	12%	PhP				-					
	PROFIT	8%	PhP					-				
	TAX	5%	PhP						-			
	Total Indirect Cost		PhP							-		
GRAND TOTAL ESTIMATED PROJECT COST				PhP -								