



Department of Science and Technology  
Philippine Science High School  
Central Mindanao Campus  
Nangka, Balo-I, Lanao del Norte

## CONSTRUCTION OF STUDENT LEARNING RESOURCE CENTER

### BILL OF QUANTITIES - COST ESTIMATES

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
<b>1.0</b>	<b>MOBILIZATION</b>				
a	Labor	1	lot		
b	Equipment	1	lot		
c	Safety	1	lot		
				<b>Total 1.0</b>	
<b>2.0</b>	<b>LAYOUT</b>				
a	Assorted Items	1	lot		
b	Labor	1	lot		
				<b>Total 2.0</b>	
<b>3.0</b>	<b>FORMS AND SCAFFOLDING</b>				
a	Steel Forms & Scaffolding	1400	sqm		
b	Marine Plywood, 1/2" thk	486	sheet		
c	Coco lumber, assorted	25000	bd.ft.		
d	Assorted Items	1	lot		
e	Labor	1	lot		
				<b>Total 3.0</b>	
<b>4.0</b>	<b>EXCAVATION</b>				
a	Excavation	243	cum		
	Assorted Materials	1	lot		
b	Labor	1	lot		
c	Equipment	1	lot		
				<b>Total 4.0</b>	
<b>5.0</b>	<b>EMBANKMENT (EARTH SOIL)</b>				
a	Earth Soil	1530	cu.m.		
b	Labor	1	lot		
c	Equipment	1	lot		
				<b>Total 5.0</b>	
<b>6.0</b>	<b>GRAVEL BASE</b>				
a	Gravel, 1-1/2"	102	cu.m.		
b	Labor	1	lot		
				<b>Total 6.0</b>	
<b>7.0</b>	<b>CONCRETE WORKS</b>				
a	Concrete, 3,000psi	686	cum		
b	Labor	1	lot		

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
c	Equipment	1	lot		
				<b>Total 7.0</b>	
<b>8.0</b>	<b>REINFORCING STEEL BARS</b>				
a	Steel Def. Bars, Grade 33	98119	kg		
b	Tie Wire #16	180	kg		
c	Labor	1	lot		
d	Equipment	1	lot		
				<b>Total 8.0</b>	
<b>9.0</b>	<b>WATER PROOFING</b>				
a	Cementious Water Proofing	40	sq.m		
b	Labor	1	lot		
				<b>Total 9.0</b>	
<b>10.A</b>	<b>MASONRY - CHB FILING</b>				
a	CHB, 4"x 8" x 16"	34203	pcs		
b	Portland Cement	1642	bags		
c	Sand	136	cu.m.		
d	Labor	1	lot		
				<b>Total 10.A</b>	
<b>10.B</b>	<b>PLASTERING</b>				
a	Portland Cement	1579	bags		
b	Sand	132	cu.m.		
c	Labor	1	lot		
				<b>Total 10.B</b>	
<b>10.C</b>	<b>MASONRY REINFORCEMENT</b>				
a	Steel Def. Bars, 10mm dia	6690	kg		
b	Labor	1	lot		
				<b>Total 10.C</b>	
<b>11.0</b>	<b>DOORS</b>				
a	D1, 1.60m X 2.10m DOUBLE SWING GLASS DOOR	3	sets		
b	D2, 0.90m X 2.10m PANEL DOOR	9	sets		
c	D3, 0.80m X 2.10m PANEL DOOR	7	sets		
d	D3a, 1.80m X 0.60m PHENOLIC DOOR	8	sets		
e	D4, 0.80m X 2.10m SINGLE SWING GLASS DOOR	2	sets		
f	D5, 0.80m X 2.10m PANEL DOOR WITH PANIC HARDWARE	1	sets		
g	D6, 1.60m X 2.10m DOUBLE SWING PANEL DOOR WITH GLASS	2	sets		
h	D7, 1.60m X 2.10m DOUBLE SWING PANEL DOOR	1	sets		
i	Door Knob	19	pcs		
j	Door Hinges	57	pcs		
k	Labor	1	lot		
				<b>Total 11.0</b>	
<b>12.0</b>	<b>GLASS WINDOWS</b>				

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
a	W1; 7.0m X 5.95m FIXED FRAMELESS GLASS WINDOW W/ AWNING	1	sets		
b	W2; 3.0m X 5.95m FIXED FRAMELESS GLASS WINDOW W/ AWNING	1	sets		
c	W3; 7.8m X 1.20m JALOU PLUS WINDOW, 1/4 " THK CLEAR GLASS	5	sets		
d	W4; 1.2m X 0.60m JALOU PLUS WINDOW	1	sets		
e	W5; 0.60m X 2.40m JALOU PLUS WINDOW	1	sets		
f	W6; 0.60m X 4.20m JALOU PLUS WINDOW	4	sets		
g	W7; 0.60m X 2.40m AWNING WINDOW	1	sets		
h	W8; 1.20m X 3.0m JALOU PLUS WINDOW	1	sets		
i	W9; 1.20m X 3.60m JALOU PLUS WINDOW	3	sets		
j	W10; 1.20m X 0.60m AWNING WINDOW	5	sets		
k	W11; 1.0m X 0.60m AWNING WINDOW	2	sets		
l	W12; 4.0m X 0.60m AWNING WINDOW	6	sets		
m	W13; 0.60m X 3.0m AWNING WINDOW	2	sets		
n	W14; 0.60m X 3.0m AWNING WINDOW	2	sets		
o	W15; 0.60m X 1.8m AWNING WINDOW	2	sets		
p	W16; 1.0m X 1.5m FIXED GLASS	1	sets		
r	W17; 4.85 x 7 m Fixed with awning	1	sets		
q	Lattice 2 x 4 aluminum rectangular Tube	18	sqm		
s	Labor	1	lot		
				<b>Total 12.0</b>	
<b>13.0</b>	<b>RAILING</b>				
a	Stainless Steel, 2" dia x 20'	33	length		
b	Stainless Steel, 1-1/2" dia x 20'	69	length		
c	Stainless steel rods, 12mm	1	length		
d	Flat Bar, 6mm thk	16	length		
e	Welding Rod	25	kg		
f	Consumables	1	lot		
g	Labor	1	lot		
h	Equipment	1	lot		
				<b>Total 13.0</b>	
<b>14.0</b>	<b>TILE WORKS - C.R. (FF2 &amp; WALLS)</b>				
a	Granite Tiles, Semi polished, 0.30 x 0.30 m	488	pcs		
b	Granite Tiles, High polished, 0.30 x 0.30 m	1466	pcs		
c	Portland Cement	96	bags		

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
d	Sand	8	cu.m		
e	Tile Adhesive	48	bags		
f	Tile Grout	7	bags		
g	Labor	1	lot		
				<b>Total 14.0</b>	
<b>15.0</b>	<b>TILE WORKS LOBBY FF1</b>				
a	Granite Tiles, High Polish 0.60 x 0.60 m	350	pcs		
b	Portland Cement	80	bags		
c	Sand	12	cu.m		
d	Tile Adhesive	80	bags		
e	Tile Grout	9	bags		
f	Labor	1	lot		
				<b>Total 15.0</b>	
<b>16.0</b>	<b>TILE WORKS ROOMS FF3</b>				
a	Granite Tiles, Homogenous, 0.60 x 0.60 m	2092	pcs		
b	Portland Cement	452	bags		
c	Sand	38	cu.m		
d	Tile Adhesive	225	bags		
e	Tile Grout	8	bags		
f	Labor	1	lot		
				<b>Total 16.0</b>	
<b>17.0</b>	<b>TILE WORKS ROOMS FF4</b>				
a	Granite Tiles, Rustic 0.60 x 0.60 m	2092	pcs		
b	Portland Cement	452	bags		
c	Sand	38	cu.m		
d	Tile Adhesive	226	bags		
e	Tile Grout	8	bags		
f	Labor	1	lot		
				<b>Total 17.0</b>	
<b>18.0</b>	<b>PLAIN CEMENT FINISH FF5</b>				
a	Portland Cement	81	bags		
b	Sand	9	cu.m		
c	Labor	1	lot		
				<b>Total 18.0</b>	
<b>19.0</b>	<b>TILE WORKS , VINYL TILES FF6</b>				
a	0.45x0.45x3mm Vinyl tiles carpet design series, 0.45x.045x3mm	1185	pcs		
b	Power Bond	20	gal		
c	Power Strip	2	gal		
d	Power Seal	3	gal		
e	Power Shine	3	gal		
f	PVC nosing soft 2"x8"x2mm	120	gal		
g	No More Nails Adhesive	30	tubes		
h	Labor	1	lot		
				<b>Total 19.0</b>	
<b>20.0</b>	<b>CEILING WORKS , CF1</b>				

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
a	Hardiflex Board, 4.5mm thk	108	pcs		
b	Metal Furring	1800	lengths		
c	Hardie Screw	11000	pcs		
d	Blind Rivets	6	box		
e	Labor	1	lot		
				<b>Total 20.0</b>	
<b>21.0</b>	<b>CEILING WORKS , CF2</b>				
a	PVC laminated Gypsum board, 0.60 x 1.20m	62	pcs		
b	Tee Runner 1" main tee	98	lengths		
c	Tee Runner 3/4" cross tee 4ft	160	lengths		
d	Blind Revits	3	box		
e	Labor	1	lot		
				<b>Total 21.0</b>	
<b>22.0</b>	<b>CEILING WORKS , CF3</b>				
a	Acoustic Gypsum board, 0.60 x 1.20m	367	pcs		
b	Tee Runner 1" main tee	124	lengths		
c	Tee Runner 3/4" cross tee 4ft	460	lengths		
d	Blind Revits	6	box		
e	Labor	1	lot		
				<b>Total 22.0</b>	
<b>23.0</b>	<b>METAL WORKS - STEEL TRUSSES</b>				
a	Steel Bars, Def., 25mm dia	462	lengths		
b	Steel Bars, Def., 16mm dia	632	lengths		
c	Cee Purlins, 2" x 4" x 20' x 1.5mm thk	420	lengths		
d	Steel Bars, Plain, 12mm dia (sag rods)	120	lengths		
e	G.I. Tubing, 4" dia.	16	lengths		
f	Welding Rod	60	kg		
g	Labor	1	lot		
h	Equipment	1	lot		
				<b>Total 23.0</b>	
<b>24.0</b>	<b>ROOFING</b>				
a	Color Roof, Pre-painted, 0.40 mm thk	1166	l.m.		
b	Foil Insulation, Harvie	16	roll		
c	Tekscrew	18000	pcs		
d	Duct Tape	12	roll		
e	Labor	1	lot		
				<b>Total 24.0</b>	
<b>25.0</b>	<b>PENOLIC PARTITION</b>				
a	PENOLIC PARTITION , includes materials, hardwares, accessories and labor	38	sq.m		
				<b>Total 25.0</b>	

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
<b>26.0</b>	<b>PLUMBING WORKS</b>				
a	Water Closet	9	pcs		
b	Urinal	5	pcs		
c	Lavatory	9	pcs		
d	Sink	2	pcs		
e	Faucet	11	pcs		
f	Floor Drain	22	pcs		
g	PVC pipes & fittings, waste, vent	1	lot		
h	PPR pipes & fittings for water supply	1	lot		
i	Labor	1	lot		
				<b>Total 26.0</b>	
<b>27.0</b>	<b>ELECTRICAL WORKS</b>				
a	LED Tubes	18	pcs		
b	Down Light, 6"	115	pcs		
c	Convenience Outlet	43	pcs		
d	PB1 (1-100 Amp Circuit Breaker; 5-20 Amp Circuit Braker; 6-30 Apm Circuit Breaker)	1	lot		
e	PB2 (1-200 Amp Circuit Breaker; 8-20 Amp Circuit Braker; 11-30 Apm Circuit Breaker)	1	lot		
f	PB3 (1-100 Amp Circuit Breaker; 1-60 Amp Circuit Braker; 1-30 Apm Circuit Breaker)	1	lot		
g	MDP (1-400 Amp Circuit Breaker; 1-200 Amp Circuit Braker; 1-100 Apm Circuit Breaker)	1	lot		
h	Wires, Conduits, etc.	1	lot		
i	Labor	1	lot		
				<b>Total 27.0</b>	
<b>28.0</b>	<b>SIGNAL SYSTEM</b>				
	Passive Component				
a	Structured Cabling ports	58	unit		
	Active Component				
b	Data Cabinet 42 U	1	lot		
c	CCTV IP Camera	7	units		
d	Network Video Recorder 32 channel	1	units		
e	Storage Hardesk	1	units		
f	Power Over Eternet Switch	1	units		
g	Connector & Accessories	1	lot		
h	Grounding & Lighting Arester	1	lot		
i	Public Address System to include, Building PA System and Mini-theater Audio-Video, Lights System	1	lot		
j	Cinematic Projector system, 10000 lumes, including bracket, cables and other accessories	1	lot		
k	Labor	1	lot		
				<b>Total 28.0</b>	
<b>29.0</b>	<b>AVR CHAIRS</b>				

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
a	AVR Chair	204	sets		
b	Labor	1	lot		
				<b>Total 29.0</b>	
<b>30.0</b>	<b>FIRE PROTECTION</b>				
a	Fire Alarm System	1	lot		
b	Fire Alarm Control Panel	1	unit		
c	Smoke Detector Detector	33	unit		
d	Sprinkler Heads (icluding pipes, fittings, etc.)	110	unit		
e	Manual Station-Optimum Brand	2	unit		
f	Siren Horn Bell	2	unit		
g	Wire and Cables	1	lot		
h	Accessories (oxyacetylene gas,welding rods,teflon chemicals,gaskets,expansion shields,bolts & nuts)	1	lot		
i	Fire Pump 10hp	1	unit		
j	Jockey Pump 3hp	1	unit		
k	Labor	1	lot		
				<b>Total 30.0</b>	
<b>31.0</b>	<b>PAINTING</b>				
a	Assorted Paint Solvent Base	5809	sqm		
b	Labor	1	lot		
				<b>Total 31.0</b>	
<b>32.0</b>	<b>ALUMINUM CLADDING</b>				
a	Aluminum Cladding, 4mm thick	250	sqm		
b	Labor	1	lot		
				<b>Total 32.0</b>	
<b>33.0</b>	<b>TEMPORARY FACILITIES</b>				
a	Nails, Assorted	30	kg		
b	Plywood, Marine, 1/4" thk	60	sheet		
c	Galvalume, 0.35mm thk	480	l.m.		
d	Coco Lumber, Assorted	8000	bd.ft		
e	Water Closet (Buhos type)	1	set		
f	Labor	1	lot		
				<b>Total 33.0</b>	
<b>34.0</b>	<b>AIRCONDITIONING UNIT</b>				
a	Airconditioning Unit Floor Mounted, 3 TOR	7	sets		
b	Airconditioning Unit, 2HP	1	sets		
c	Airconditioning Unit, 1HP	1	sets		
d	Copper tubing	1	lot		
e	Labor	1	lot		
				<b>Total 34.0</b>	
<b>35.0</b>	<b>SITE CLEARING</b>				
a	Labor	1	lot		

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
				<b>Total 35.0</b>	
<b>36.0</b>	<b>CONCRETE FOR PARKING AND SIDEWALK</b>				
a	Concrete, 3000-psi	156	cum		
b	Labor	1	lot		
c	Equipment	1	lot		
				<b>Total 36.0</b>	
<b>37.0</b>	<b>BASE COURSE</b>				
a	Gravel, 1" dia	78	cum		
b	Anapog Soil	78	cum		
c	Labor	1	lot		
d	Equipment	1	lot		
				<b>Total 37.0</b>	
<b>38.0</b>	<b>LANDSCAPING</b>				
a	Bermuda Grass	800	sqm		
b	African Talisay Tree	12	pcs		
c	Palm Tree	24	pcs		
d	Labor	1	lot		
				<b>Total 38.0</b>	
<b>SUMMARY</b>					
					<b>Total Amount (Php)</b>
1.0	MOBILIZATION				
2.0	LAYOUT				
3.0	FORMS & SCAFFOLDING				
4.0	EXCAVATION				
5.0	EMBANKMENT (EARTH SOIL)				
6.0	GRAVEL BASE				
7.0	CONCRETE WORKS				
8.0	REINFORCING STEEL BARS				
9.0	WATER PROOFING				
10.A	MASONRY-CHB FILING				
10.B	PLASTERING				
10.C	MASONRY REINFORCEMENT				
11.0	DOORS				
12.0	GLASS WINDOWS				
13.0	RAILING				
14.0	TILE WORKS-C.R. (FF3 & WALLS)				
15.0	TILE WORKS LOBBY FF1				
16.0	TILE WORKS LOBBY FF3				
17.0	TILE WORKS LOBBY FF4				
18.0	PLAIN CEMENT FINISH FF5				
19.0	TILE WORKS FF6 VINYL TILES				
20.0	CEILING WORKS CF1				
21.0	CEILING WORKS CF2				
22.0	CEILING WORKS CF3				
23.0	METAL STRUCTURES-STEEL TRUSSES				
24.0	ROOFING				



ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
25.0	PENOLIC PARTITION @ C.R.				
26.0	PLUMBING WORKS				
27.0	ELECTRICAL WORKS				
28.0	SIGNAL SYSTEM				
29.0	AVR CHAIR				
30.0	FIRE PROTECTION				
31.0	PAINTING				
32.0	ALUMINUM CLADDING				
33.0	TEMPORARY FACILITIES				
34.0	AIRCONDITIONING UNITS				
35.0	SITE CLEARING				
36.0	CONCRETE OFR PARKING & SIDEWALK				
37.0	BASE COURSE				
38.0	LANDSCAPING				
				<b>Grand Total</b>	

\_\_\_\_\_  
CONTRACTOR

\_\_\_\_\_  
Authorized Signatory  
Over Printed Name

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Date