



BILL OF MATERIALS

PROJECT TITLE: PROPOSED CENTER FOR RESEARCH ON AQUATIC RESOURCES IN BRACKISH SYSTEMS

OPTION 2B - G.I. ROOFING (USABLE)

APPROVED BUDGET BY DA-BAR					
ITEM NO.	ITEM DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
I	MOBILIZATION / DEMOBILIZATION				
	service vehicle	2.00	days		
4	Laborers / Helpers	2.00	days		
II	EXCAVATION WORKS	120.03	cu.m		
	Handtools	1.00	ls		
1	Foreman	14.00	days		
1	Skilled workers	14.00	days		
2	Laborers / Helpers	14.00	days		
III	BACKFILLING WORKS	101.74	cu.m		
	water truck	0.50	day		
	Handtools	1.00	ls		
1	Foreman	4.00	days		
1	Skilled workers	4.00	days		
2	Laborers / Helpers	4.00	days		
IV	IMPORTED FILLING MATERIALS	57.31	cu.m		
	water truck	0.50	day		
	Handtools	1.00	ls		
1	Foreman	1.00	days		
1	Skilled workers	1.00	days		
4	Laborers / Helpers	1.00	days		
	Filling Materials	57.31	cu.m		
V	GRAVELFILL, 0.05m thk.	12.60	cu.m		
VI	CONCRETE WORKS	82.63	cu.m		
	one bagger concrete mixer	12.00	day		
	Handtools	1.00	ls		
	concrete vibrator	14.00	day		
1	Foreman	25.00	days		
2	Skilled workers	25.00	days		
8	Laborers / Helpers	25.00	days		
	cement	743.67	bags		
	sand	42.00	cu.m.		
	gravel	83.00	cu.m.		
VII	STRUCTURAL STEEL	8,614.56	kgs		
	bar cutter	18.00	days		
	bar bender	18.00	days		
	Handtools	1.00	ls		
1	Foreman	20.00	days		
2	Skilled workers	20.00	days		
2	Laborers / Helpers	20.00	days		
	rebars (grade 40)	8,614.56	kg		
	tie wire	30.00	kg		
VIII	FORMWORKS AND SCAFFOLDINGS				
	Handtools	1.00	ls		
	1/2" thk ord plywood	40.00	pcs		
	formlumber	1,200.00	bf		
	asstd cw nails	20.00	kls		
	3" conc nails	8.00	kls		
	tie wire	30.00	kls		
1	Foreman	21.00	days		
2	Skilled workers	21.00	days		
4	Laborers / Helpers	21.00	days		

IX	MASONRY WORKS	596.31	sq.m		
	one bagger conc mixer	30.00	days		
	Handtools	1.00	ls		
	5" chb	8,000.00	pcs		
	cement	670.00	bags		
	sand	70.00	kls		
	rebars	2,300.00	kls		
	tie wire	80.00	kls		
1	Foreman	30.00	days		
2	Skilled workers	30.00	days		
4	Laborers / Helpers	30.00	days		
X	DOORS AND DOOR JAMBS				
	D1: 0.90 x 2.10 Panel dr w/ 2" x " dr. jam	11.00	sets		
	D2: 0.90 x 2.10 Stl Wire Mesh dr	2.00	sets		
	D3: 0.60 x 2.10 PVC dr	5.00	sets		
	door lockset	16.00	pcs		
	3 1/2" x 3 1/2" lp hinges	17.00	pairs		
	cw nails	4.00	kls		
	Handtools	1.00	ls		
1	Foreman	8.00	days		
1	Skilled workers	8.00	days		
1	Laborers / Helpers	8.00	days		
XI	WINDOWS				
	W1: 1.20 x 2.00 al sliding window	5.00	sets		
	W2: 1.60 x 1.00 al awning window	3.00	sets		
	W3: 0.50 x 0.50 al awning window	2.00	sets		
	Handtools	1.00	ls		
1	Foreman	6.00	days		
1	Skilled workers	6.00	days		
1	Laborers / Helpers	6.00	days		
XII	ROOFING & TINSMITHRY				
	0.40 pre-painted gi. Roofing	280.00	l.m.		
	0.40 pre-painted ridge roll	23.00	pcs		
	0.40 pre-painted gutter	33.00	pcs		
	2" x 2" angle bar	4,121.50	kgs		
	c-purlins / sagrods	2,216.40	kgs		
	welding rod	6.00	boxes		
	misc, paint, others	1.00	ls		
	Handtools	1.00	ls		
1	Foreman	7.00	days		
2	Skilled workers	7.00	days		
3	Laborers / Helpers	7.00	days		
(MATERIALS and LABOR COST) SUB-TOTAL					0.00
PROFIT(10%) =					0.00
O.C.M (6%) =					0.00
VAT (12%) =					0.00
TOTAL AMOUNT					0.00
FOR SUPPLEMENTAL BUDGET					
ITEM NO.	ITEM DESCRIPTION	QTY.	UNIT	UNIT COST	TOTAL COST
I	PLUMBING FIXTURES				
	water closet	3.00	sets		
	lavatory	4.00	sets		
	urinals	2.00	sets		
	4" x 4" s/s flr drain	17.00	pcs		
	ord water faucet	17.00	pcs		
	Handtools	1.00	ls		
1	Foreman	6.00	days		
2	Skilled workers	6.00	days		
2	Laborers / Helpers	6.00	days		
II	WATERLINES, DRAINAGE/SEWER LINES				
	3/4" Φ PPR	20.00	pcs		
	ppr fittings	105.00	pcs		

	3" Φ pvc pipe (incl. downspout)	40.00	pcs		
	4" Φ pvc pipe	20.00	pcs		
	3" Φ pvc pipe fittings (incl. downspout e	82.00	pcs		
	4" Φ pvc pipe	25.00	pcs		
	pvc solvent cement	10.00	lit		
	vulcaseal	15.00	lit		
	teflon tape	20.00	rolls		
	Handtools	1.00	ls		
1	Foreman	8.00	days		
2	Skilled workers	8.00	days		
2	Laborers / Helpers	8.00	days		
III	ELECTRICAL FIXTURES				
	14 Branches Panel Board	1.00	set		
	100 AT circuit breaker	1.00	pcs		
	15AT, 20AT, 30AT circuit breaker	12.00	pcs		
	2-18w louver type lights	28.00	sets		
	4" dia downlights	19.00	pcs		
	1 gang switch	11.00	sets		
	2 gang switch	4.00	sets		
	wp double conv outlet	20.00	sets		
	a/c outlet	1.00	set		
	Handtools	1.00	ls		
1	Foreman	7.00	days		
2	Skilled workers	7.00	days		
2	Laborers / Helpers	7.00	days		
IV	ELECTRICAL ROUGHING-INS				
	1/2" dia orange pipe	20.00	pcs		
	3/4" dia orange pipe	15.00	pcs		
	1/2" dia flex hose	2.00	rolls		
	1/2" dia flex hose	1.00	rolls		
	#2 thhw wire stranded	0.50	roll		
	#8 thhw wire stranded	1.00	roll		
	#10 thhw wire stranded	2.00	rolls		
	#12 thhw wire stranded	1.00	rolls		
	#14 thhw wire stranded	3.00	rolls		
	misc, utility box, junction box, elec tape,	1.00	ls		
	Handtools	1.00	ls		
1	Foreman	12.00	days		
2	Skilled workers	12.00	days		
2	Laborers / Helpers	12.00	days		
V	CEILING WORKS	320.00	sq.m		
	4.5 mm ficem	112.00	sq.m.		
	wall angle	320.00	m		
	metal furring	280.00	m		
	c-channel	400.00	m		
	w-clip	850.00	pcs		
	misc, b. rivets, others	1.00	ls		
	Handtools	1.00	ls		
1	Foreman	21.00	days		
2	Skilled workers	21.00	days		
4	Laborers / Helpers	21.00	days		
VI	TILE WORKS	63.36	sq.m		
	0.40 x 0.40 t & b flr tiles	396.00	pcs		
	cement	13.00	bags		
	tile adhesive	5.00	bags		
	sand	1.00	cu..m		
	tile grout	2.00	bags		
	Handtools	1.00	ls		
1	Foreman	7.00	days		
2	Skilled workers	7.00	days		
4	Laborers / Helpers	7.00	days		
VII	SEPTIC VAULT / CATCH BASINS				
	5" chb	250.00	pcs		
	cement	28.00	bags		
	gravel	1.50	cu.m.		
	sand	2.00	cu.m.		
	rebars	140.00	kgs		

	formworks	1.00	ls		
	misc, clean-out	1.00	ls		
	Handtools	1.00	ls		
1	Foreman	3.00	days		
1	Skilled workers	3.00	days		
2	Laborers / Helpers	3.00	days		
VIII	STEEL MATTING WALL				
	steel matting	10.00	pcs		
	1 1/2" x 1 1/2" angle bar	12.00	pcs		
	welding rod	30.00	kls		
	misc	1.00	ls		
	Handtools	1.00	ls		
1	Foreman	4.00	days		
1	Skilled workers	4.00	days		
2	Laborers / Helpers	4.00	days		
IX	COUNTER TOP				
	cement	28.00	bags		
	gravel	2.10	cu.m.		
	sand	2.50	cu.m.		
	rebars	101.00	kgs		
	formworks	1.00	ls		
	counter top tiles (0.30 x 0.30)	160.00	pcs		
	counter wall tiles (0.20 x 0.30)	60.00	pcs		
	misc	1.00	ls		
	Handtools	1.00	ls		
1	Foreman	3.00	days		
1	Skilled workers	3.00	days		
2	Laborers / Helpers	3.00	days		
X	TEMPORARY FACILITIES FOR THE ENGINEERS				
	1/2" thk ord plywood	7.00	pcs		
	cocolumber	80.00	bf		
	ord G.I. sheet	24.00	lf		
	flush door	1.00	sets		
	wooden window	1.00	sets		
	asstd cw nails	1.00	kls		
	conc nails	0.50	kl		
	tie wire	4.00	kls		
	misc, hinges, lockset, other	1.00	ls		
	Handtools	1.00	ls		
1	Foreman	3.00	days		
1	Skilled workers	3.00	days		
2	Laborers / Helpers	3.00	days		
XI	OCCUPATIONAL SAFETY AND HEALTH				
	Safety Shoes	1.00	ls		
	Safety Helmet	1.00	ls		
	safety Gloves	1.00	ls		
	First Aid Kit	1.00	ls		
1	First Aider	30.00	days		
(MATERIALS and LABOR COST) SUB-TOTAL					0.00
PROFIT(10%) =					0.00
O.C.M (6%) =					0.00
VAT (12%) =					0.00
TOTAL AMOUNT					0.00
TOTAL PROJECT COST:					0.00

PREPARED BY:

NOTED BY:

AR. ROBERT O. AGUILAR, uap

Dr. Edmundo C. Tungol

Vice President, Admin and Finance

APPROVED BY:

Dr. Gregorio J. Rodis

University President