



Annex "D": Scope of Works

SCOPE OF WORKS FOR THE NEGOTIATED PROCUREMENT FOR CONSTRUCTION OF FOUR STOREY ACADEMIC BUILDING- PHASE II-BULANAO CAMPUS:

ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
103(1)a	STRUCTURE EXCAVATION	407.83	cu. m.	-covers item @ grid A'-B and 1-5 at ground floor specified in the plan includes excavation of Matt Footing
804(1)a	EMBANKMENT (Selected Fill Materials above Grade)	1,149.77	cu. m.	-covers item @ grid A'-K and 1-5 at ground floor specified in the plan includes backfilling of excavated materials includes backfilling of sand @ 15m to the left from the face of column @ grid A and 5m each in front and rear side of the building from the face of column @ grid 1 and grid 5 respectively .
804 (4)	GRAVEL FILL FOR FOUNDATION	14.56	cu.m.	-covers item @ grid A'-B and 1-5 @ground floor specified in the plan includes gravel fill for Matt Footing
1000(1)	TERMITE CONTROL WORK (Soil Poisoning)	511.32	sq. m.	-covers item @ grid A'-L and 1-5 at ground floor specified in the plan -specs are as follows: 1. Soil poisoning solution (preferably Lentrex)
900(1)a1	STRUCTURE CONCRETE Class "A"	749.09	cu. m.	-all concrete shall be class A = $f_c' \geq 21$ Mpa
	a. Column Footings			-covers item @ grid A'-B and 1-5 at ground floor
	b. Columns (from footing to 2nd floor)			-covers item @ grid A'-B and 1-5 (height = 8.25m)
	c. Columns (from 2nd floor to 4th floor)			-covers item @ grid A'-X and 1-5 (height = 6.4m)
	e. Wall Footing			-covers item @ grid A'-C and 1-5 at ground floor
	f. Tie Beams			-covers item @ grid A'-C and 1-5 at ground floor
	g. Slab on Fill			-covers item @ grid A'-L and 1-5 at ground floor
	h. Second floor Slab			-covers item @ grid A'-J at 2nd floor
	h. Third floor Slab			-covers item @ grid A'-X
	i. Stair 1 and landing			-covers item @ grid J-K and L-M
	j. Stair 2			-covers item @ grid A-B'
	k. Stair 3			-covers item @ grid A'-B and J-K
	l. Ramp			-covers item @ grid I-J
	m. LBW-1			-covers item @ grid B' (4-5)
	n. Shear Wall			-covers shear @ grid B (1-3)
	o. counter slab			-covers item @ male CR @ ground floor and both male and female @ second floor
	p. canopy			-covers item @ grid 1 (A-K) and grid A (2-3) @ ground floor -covers item @ grid 1 (A-W) and grid A & W (2-3) @ Second floor
	q. lintel beam			-covers item @ grid 1 (A-K) and grid A (2-3) @ ground floor -covers item @ grid 1 (A-W) and grid A & W (2-3) @ Second floor
	r. Forms and Scaffoldings			- it is suggested that the staging and scaffoldings should be lumbers. -specs are as follows: *cement (preferably Portland) *sand *gravel 1" *1/2" thk. plywood



ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
				*form lumbers
				*lumber scaffolds
				*common wire nails (assorted)
	s. Septic tank			specified in plan
902(1)	REINFORCING STEEL BARS	138,141.07	kgs.	-all reinforcing bars shall be grade 60 fy \geq 414 Mpa and grade 40 fy \geq 275
1046(2)	CHB NON LOAD BEARING	1,623.45	sq.m.	-covers item @ grid A'-K and 1-5 from ground floor - covers item @ grid A'-X at second floor level specified in the plan -covers item @ grid A'-C below tie beam (perimeter wall only) -perimeter walls should be 6" thick CHB -stairs and ramps should be 6" thick CHB -interior walls and other CHB walls are 4" thick -specs are as follows: *6" thk. CHB *4" thk. CHB *sand *cement *10mm dia RSB grade 40 *no. 16 GI tie wire
1027	CEMENT PLASTER FINISH	1,879.92	sq.m.	-covers item @ grid A'-K and 1-5 specified in the plan (ground floor exterior and interior) -covers item @ grid A'-X and 1-5 specified in the plan (Second floor exterior and interior) -includes partition walls, beams, columns, stairs and slabs
1018(1)	TILING WORKS (Glazed Tiles and Trims)	158.49	sq.m.	-covers item @ grid A-W @ ground and second floor specified in the plan (CR walls) -specs are as follows: 600x600mm glazed Granite Tiles cement (preferably Portland) Tile grout sand
1018(2)	TILING WORKS (Unglazed Tiles)	1,190.83	sq.m.	-covers item @ grid A-W @ ground and second floor specified in the plan (classroom floors, Office floors and CR floors) -specs are as follows: 600x600mm Granite Floor Tiles 600x600mm Unglazed Granite Floor Tiles cement (preferably Portland) Tile grout sand
1010(2)	WOOD DOORS	113.78	sq. m.	-covers item @ grid A'-X and 1-5 specified in the plan -specs are as follows: D1-2150x1000mm Narra Panel Door w/



ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
				Woodstain Finish w/ 2"x6" Narra Wood
				Jamb w/ Woodstain Finished.
				D3-2150x900mm Narra Panel Door w/
				Woodstain Finish w/ 2"x6" Narra Wood
				Jamb w/ Woodstain Finished.
				D3a-2150x900mm Narra Panel Door w/
				Woodstain Finish w/ 2"x6" Narra Wood
				D4-2150x1000mm Flush Door w/
				Woodstain Finish & 2"x6" Narra Wood
				Jamb w/ Woodstain Finished.
				D5-2150x1000mm Flush Door w/
				Woodstain Finish & 2"x6" Narra Wood
				Jamb w/ Woodstain Finished.
				D7-1850x700mm Flush Door w/
				Woodstain Finish & 2"x6" Narra Wood
				Jamb w/ Woodstain Finished.
				Cylindrical Doorlockset
				loose pin hinges x 100
				CW nails x 100
1005(6)	STEEL WINDOW	1.00	l.s.	-covers item @ grid A-X and 1-5 specified in the plan
				-specs are as follows:
				W1-3000X1500mm Primer and Enamel Prepainted Steel Casement
				Window w/ 6mm Thick Clear Glass (Butterfly)
				W2-2400X600mm Primer and Enamel Prepainted Steel Casement
				Window w/ 6mm Thick Clear Glass (Butterfly)
				W2b-1200X600mm Primer and Enamel Prepainted Steel Casement
				Window w/ 6mm Thick Clear Glass (Butterfly)
				W4-1200X800mm Primer and Enamel Prepainted Steel Casement
				Window w/ 6mm Thick Clear Glass (Butterfly)
				W5-1000X800mm Primer and Enamel Prepainted Steel Casement
				Window w/ 6mm Thick Clear Glass (Butterfly)
				W6-3000X500mm Primer and Enamel Prepainted Steel Casement
				Window w/ 6mm Thick Clear Glass (Butterfly)
				W7-600X500mm Primer and Enamel Prepainted Steel Casement
				Window w/ 6mm Thick Clear Glass (Butterfly)
				W8-600X400mm Primer and Enamel Prepainted Steel Casement
				Window w/ 6mm Thick Clear Glass (Butterfly)
1008(2)	ALUMINUM GLASS WINDOW	1.00	l.s.	-covers item @ grid A-X and 1-5 specified in the plan
				-specs are as follows:
				W2a-2000X1500mm 6mm Analok Glass on
				Aluminum Frame w/ grills
				W3-1500X1200mm 6mm Analok Glass on
				Aluminum Frame w/ grills
				W10-3184X1250mm Tubular Casement Window w/ grills



ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
1001(8)	SEWER LINE WORKS	1.00	l.s.	-covers item @ grid A'-K and 1-5 specified in the plan @ ground floor
				-covers item @ grid A'-X and 1-5 specified in the plan @ second floor
				-specs are as follows:
				Ø100mm x 3.0m uPVC Pipe
				Ø75mm x 3.0m uPVC Pipe
				Ø50mm x 3.0m uPVC Pipe
				Ø100mm x Ø110mm Single Branch uPVC WYE
				Ø100mm x Ø50mm Single Branch uPVC WYE
				Ø50mm x Ø50mm Single Branch uPVC WYE
				Ø100mm uPVC Cleanout w/ Plug
				Ø50mm uPVC Cleanout w/ Plug
				Ø100 mm uPVC 1/8 Bend Elbow
				Ø50 mm uPVC 1/8 Bend Elbow
				Ø100mm x Ø 50mm uPVC TEE
				Ø100mm uPVC P-Trap w/ Plug
				Ø50mm uPVC P-Trap w/ Plug
				Solvent Cement (400cc/can)
				moldex PVC pipe S-1000 x 100mm dia. X 3m
				sanitary tee 87.50 deg. X 100mm dia.
				clean out 100mm dia
1002(28)	COLD WATER LINES	1.00	l.s.	-covers item @ grid A'-K and 1-5 specified in the plan @ ground floor
				-covers item @ grid A'-X and 1-5 specified in the plan @ second floor
				-specs are as follows:
				*GI Pipe 1" dia. X 3m
				* GI Pipe 1/2" dia. X 3m
				* GI Pipe Coupling Reducer 1" X 1/2" dia.
				* GI Pipe Elbow 1" dia.
				* GI Pipe Elbow 1/2" dia.
				* GI Pipe TEE 1/2" dia.
				* GI Pipe Female Adapter 1/2" dia.
				* GI Pipe Male Adapter 1/2" dia.
				* GI Pipe 1/2" dia Gate valve
				* GI Pipe 1" dia Gate valve
				*Solvent Cement 1/4 lits
				*Teflon Tape B/S
1002(8)	PLUMBING AND SANITARY FIXTURES	1.00	l.s.	-covers item @ grid A'-K and 1-5 specified in the plan @ ground floor
				-covers item @ grid A'-X and 1-5 specified in the plan @ second floor
				-specs are as follows:
				HCG Close-Coupled Water Closet & Acc's
				HCG Lavatory (Wall Hung)incl Faucet & Acc's.
				HCG Lavatory (countertop)incl Faucet & Acc's
				HCG Urinal & Acc's
				100x100mm Stainless Floor Drain



ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
				Hygienic Faucet
				SS Hose bibb faucet
				SS Grab 30mm dia.
				HCG Stainless Kitchen Sink incl Faucet & Acc's
				HCG Tissue Holder w/ Acc's
1201(9)a	STAINLESS OVERHEAD WATER TANK	4.00	sets	-specs are as follows: Elevated Water Tank, Potable, 2000 Liters Cap., Stainless Steel Gate valve 25mm dia.
1100	CONDUIT, BOXES AND FITTINGS	1.00	l.s.	-covers item @ grid A'-K and 1-5 specified in the plan @ ground floor -covers item @ grid A'-X and 1-5 specified in the plan @ second floor -specs are as follows:
	a. For Lighting	1,578.00	ln. m	1. PVC conduit, 15mm 2. PVC adapter with lacknut, 15mm 3. Elbow, 15mm 4. Utility Box (50 x 100 Moldflex) 5. Junction Box (Octagonal)
	b. For Power	693.00	ln. m	1. PVC conduit, 20mm 2. PVC adapter with lacknut, 20mm 3. Elbow, 20mm 4. Utility Box (50 x 100 Moldflex)
	c. For Appliance	660.00	ln. m	1. PVC conduit, 25mm 2. PVC adapter with lacknut, 25mm 3. PVC elbow, 25mm 4. PVC conduit, 20mm 5. PVC adapter with lacknut, 20mm 6. PVC elbow, 20mm 7. Utility Box (2 x 4" Moldflex) 8. Junction Box (Octagonal)
	d. For Protection	21.00	ln. m	1. RSC conduit, 40mm dia 2. Terminal Lugs for 250mm ² wire, Crimp Type with bolt & nut 3. Terminal Lugs for 100mm ² wire, Crimp Type with bolt & nut 4. Terminal Lugs for 30mm ² wire, Crimp Type with bolt & nut 5. Terminal Lugs for 14mm ² wire, Crimp Type with bolt & nut 6. Terminal Lugs for 8.0mm ² wire, Crimp Type with bolt & nut 7. Terminal Lugs for 5.5mm ² wire, Crimp Type with bolt & nut 8. Terminal Lugs for 3.5mm ² wire, Crimp Type with bolt & nut 9. Terminal Lugs for 2.0mm ² wire, Crimp Type with bolt & nut 10. Secondary rack, 4 wire assembly
	e. For Service entrance and metering	12.00	ln. m	1. 100mm dia RSC conduit 2. 100mm dia locknut and adapter 3. Service Entrance Cap (90mm Dia.) 4. Pin Insulator



ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
1103	Lighting Fixtures	1.00	l.s.	-covers item @ grid A'-K and 1-5 specified in the plan @ ground floor
	(144 sets)			-covers item @ grid A'-X and 1-5 specified in the plan @ second floor
				-specs are as follows:
				1. Flourescent fixture surface type w/ aluminum reflector 2x40w
				2. Heavy duty Twin head emergency lamp
				3. Outdoor wall lamp(warm white)
				4. 150mm dia recessed pinlight with 230VLED PL-18, including accessories - Daylight
				5. Electrical Tape B/S
1101	WIRES AND WIRING DEVICES	1.00	l.s.	-covers item @ grid A'-K and 1-5 specified in the plan @ ground floor
				-covers item @ grid A'-X and 1-5 specified in the plan @ second floor
				-specs are as follows:
	a. For Lighting	5,527.00	m	1. 2.0 mm2 THHN Stranded Wire (ISO Certified)
	b. For Power	3,358.47	m	1. 3.5mm2 THHN Stranded Wire (ISO Certified)
				2. 2.0 mm2 THHN Stranded Wire (ISO Certified)
	c. For Appliance	2,314.00	m	1. 5.5 mm2 THHN Stranded Wire (ISO Certified)
				2. 3.5mm2 THHN Stranded Wire (ISO Certified)
				3. 2.0 mm2 THHN Stranded Wire (ISO Certified)
	d. For Main Protection	120.00	m	1. 250mm sq THHN wire
				2. 100mm sq THHN wire
	e. For Sub Protection	80.00	m	1. 30mm2 THHN Stranded Wire (ISO Certified)
				2. 8.0mm2 THHN Stranded Wire (ISO Certified)
	f. Grounding	140.00	m	1. 125mm sq bare copper conductor
				2. Copper-Clad Ground Rod, 19mm dia., 3 m length
				3. Thermo-Weld Mold Tee - Connection of 125 mm2 wire and 19 mmø ground rod (Conductor - Ground rod)
				4. Thermo-Weld Powder, Weld Metal of 150 grams in (TEE Connection)
				5. Flint gun
1102	POWER CENTER, SWITCHGEAR AND PANELBOARDS	1.00	l.s.	-covers item @ grid A'-K and 1-5 specified in the plan @ ground floor
	(34 sets)			-covers item @ grid A'-X and 1-5 specified in the plan @ 2 nd floor
				-specs are as follows:
				1. Manual Transfer Switch (MTS), with 400AT(gen side), 400AT(utility side), 3P, 240V
				Main Distribution Panel, 6 branches, 3P CB
				400AT/500AF 3P, Industrial MCCB bolt-on type, 230V
				90AT/100AF 3P, Industrial MCCB bolt-on type, 230V
				60AT/100AF 3P, Industrial MCCB bolt-on Type, 230V
				Panel Board NEMA 3R, Center Tap (20 Branches), 3P flush mounted w/ multi-terminal block for ground bus
				Bolt-on Circuit Breakers
				2P-15 Amp. Ckt. Breaker
				2P-20 Amp. Ckt. Breaker
				2P-30 Amp. Ckt. Breaker



ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
				3P-90 Amp. Ckt. Breaker, Industrial type MCCB
				Electrical Tape B/S
				CT-rated kwhr meter, 400A:5A, with doughnut type CT
				and meter box, including calibration/application fee
				90AT/100AF 3P, Industrial MCCB with NEMA 3R enclosure
				3 phase busbar enclosed in NEMA 3R enclosure, lugs and nuts ready
1200(15)	AIRCONDITIONING AND VENTILATING SYSTEM	1.00	l.s.	-covers item @ grid A'-K and 1-5 specified in the plan @ ground floor
	(33 sets)			-covers item @ grid A'-X and 1-5 specified in the plan @ 2 nd floor
				-specs are as follows:
				1.5HP Aircon Unit split- Type
				Ceiling Fan , orbit type, 16" diameter, steel blade
1208	FIRE ALARM SYSTEM PROVISION	1.00	l.s.	-covers item @ grid A'-K and 1-5 specified in the plan @ ground floor
				-covers item @ grid A'-X and 1-5 specified in the plan @ 2 ND floor
				-specs are as follows:
				PVC conduit, 20mm
				PVC adapter with lacknut, 20mm
				Flexible metal conduit 15mmØ
				15mm Ø straight connector
				GA. 16 tie wire
				Utility Box
				Square Box
				Fire alarm terminal box
1003	CARPENTRY WORKS	36.00	sets	-covers item @ classrooms specified in the plan
				-specs are as follows:
	A. Construction of Combo Board (12 sets)			*Screw x 25
				*Concrete nail x 75
				*Lawanit 6mm x 1.20 x 2.40
				*Marine plywood 6mm x 1.20 x 2.40
				*Lumber 50 x 50 x 3.60
				*Lumber 25 x 50 x 3.60
				*CW Nail x 50
				*CW nail x 25
				*Chalkboard slating paint
				*Paint brush x 50
				*QDE choco brown
				*Sand Paper
				*Paint thinner
				*Flat White
	B. PLATFORM (12 sets)			*Marine Plywood 10mm x 1.20 x 2.40
				*Lumber 50 x 75 x 3.60
				*Lumber 50 x 50 x 3.60
				*CW Nail x 75
				*CW Nail x 50
				*CW Nail x 25
				*QDE Choco brown (preferably Boysen)
				*Paint Thinner



ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
	C. TEACHER'S TABLE (12 sets)			*Marine Plywood 10mm x 1.20 x 2.40
				*Lumber 50 x 50 x 3.60
				*Lumber 25 x 50 x 3.60
				*Finishing Nail assorted
				*Sandpaper
				*Boysen QDE Choco brown
				*Paint Thinner
SPL	MISCELLANEOUS WORKS	1.00	l.s.	-covers item @ grid A'-K and 1-5 specified in the plan @ ground floor
				-covers item @ grid A'-X and 1-5 specified in the plan @ 2 nd floor
				-specs are as follows:
				Plastic Arm Chair M-3
				Sofa Set
				601 Executive Tables
				1605 Office Tables
				Meeting Tables
				Cx0300 Office Chairs
				C3569 Executive Chairs
				Steel Cabinet
				LCD Projector
B.7	OCCUPATIONAL SAFETY AND HEALTH PROGRAMS	1.00	l.s	-covers safety equipments to be used during the construction
				safety gloves
				safety shoes
				safety helmets
B.3	PERMITS AND CLEARANCES	1.00	l.s	Building Permit and Other L.G.U. Permits
				Bureau of Fire Protection
				Zoning
				Filing Fee

***NOTE: All the branded products stated in this Scope of Works (above) are used as “preference” only for accuracy and quality-based output of the project.**

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