

[illegible]

AGENCY:	University of the Philipines Baguio										
PROJECT:	Completion of UP Baguio Balay Internasyonal Phase 4										
LOCATION:	UP-BAGUIO, GOVERNMENT CENTER ROAD, BAGUIO CITY										
SUBJECT:	BILL OF QUANTITIES										
ITEM	DESCRIPTION	LOCATION ON PLAN	QUANTITY	UNIT	MATERIAL UNIT COST	LABOR UNIT COST	TOTAL DIRECT COST	OCM	VAT 5%	SUBTOTAL	TOTALS
	1200mm High Truss Railing- 3"Ø Sch80 HSS Pipe Top and Bottom Chords with 2"Ø Sch80 Diagonal Members spaced at 1200mm OC [include cutting of existing floor tiles, dowel attachment, epoxy primer and acrylic top coat finish]	Level 1.5 Balcony	16.00	lm							
	All electric arc welding and cutting accessories, and consumables for welding work with zinc epoxy primer 3 coats + Weld Electrode E7018 3/16" x 14"; (fy: 415-570 MPa); Welding Works [Entrance Lobby Building]	All welding works for Level 1.5 Balcony	1.00	lot							
	Maintenance Ladder for Roof										
	460mm wide x 3500mm L2"X2"X6m Steel Angle Bar on 1-1/2" Ladder Rung spaced at 300mm, include base plates and wall attachments [include preparation, 2 coats epoxy primer and 2 coat epoxy finish]	East Side near Fire Exit	1.00	assy.							
	All electric arc welding and cutting accessories, and consumables for welding work with zinc epoxy primer 3 coats + Weld Electrode E7018 3/16" x 14"; (fy: 415-570 MPa); Welding Works [Entrance Lobby Building]	All welding works for Maintenance Ladder	1.00	lot							
	Spider Web Hammock Assembly at Atrium Loft										
	3"x3"6mm @ 6m Angle Bar and Eye bolt welded to angle bar spaced at 100mm [include 2 coat primer+2 coat finish epoxy matte black acrylic spray applied]	Level 1 Atrium	13.00	lm							
	M10mmØ X 110mm Anchor Rod spaced at 400mm O.C[Hilti HAS-E 5.8 Rod Adhesive Anchor or equivalent]	Fastener for angle bar attachment to concrete for Nylon Rope	40.00	pc							
	Injectable Mortar for Anchor Rod [Hilti HVU adhesive or equivalent]	Fastener for angle bar attachment to concrete for vertical slat[see detail drawings]	40.00	tubes							
	16mm Ø Grey Nylon Rope @ 50mm O.C. Both Ways (Interlocking Weave)	Level 1 Atrium	16.00	m²							
	Elevator Intermediate Beams										
	W8X31x 12m Wide Flange Structural Metal Framing [include surface preparation,include 1 coat epoxy primer+2 coats epoxy top coat,spray applied]	Elevator Shaft	2.00	pc							
	All electric arc welding and cutting accessories, and consumables for welding work with zinc epoxy primer 3 coats + Weld Electrode E7018 3/16" x 14"; (fy: 415-570 MPa); Welding Works [Entrance Lobby Building]	All welding works for Elevator Intermediate Beams	1.00	lot							
	Fire Exit Railing										
	1400mm Steel Railing: 3"x 8mm Steel Flat Bar Hand Rail with 12mm Round Bars spaced at 100mm OC on 3"x8mm Bottom Rail and 3"x8mm Posts spaced at 1000mm welded on existing steel stairs [include epoxy primer and acrylic top coat]	Fire Stairs Railing	102.00	lm							
	1200mm Steel Railing: 3"x 8mm Steel Flat Bar Hand Rail with 12mm Round Bars spaced at 100mm OC on 3"x8mm Bottom Rail and 3"x8mm Posts spaced at 1000mm welded on existing steel stairs [include epoxy primer and acrylic top coat]	Fire Stairs Railing	52.00	lm							
	All electric arc welding and cutting accessories, and consumables for welding work with zinc epoxy primer 3 coats + Weld Electrode E7018 3/16" x 14"; (fy: 415-570 MPa); Welding Works [Entrance Lobby Building]	Fire Stairs	1.00	lot							

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	Fire Exit Landing										
	5mm Checkered Plate Metal Landing 4'x8'		2.00	pc							
	W8X31x 12m Wide Flange Structural Metal Framing [include 1 coat epoxy primer+2 coats epoxy top coat,spray applied]		1.00	pc							
	2"x2"6mm @ 6m Angle Bar [include 2 coat primer+2 coat finish epoxy matte black acrylic spray applied]		3.00	pc							
	All electric arc welding and cutting accessories, and consumables for welding work with zinc epoxy primer 3 coats + Weld Electrode E7018 3/16" x 14"; (fy: 415-570 MPa); Welding Works		1.00	lot							
	DIVISION 05 SUBTOTAL										
06 00 00	DIVISION 06 WOODS AND PLASTICS										
06 51 00	Wood Handrail										
06 51 13	48mmx48mmx2400mm Wood Solid Rail [Include wall railing attachments spaced at 1200mm]	Main Stair Railing	96.00	lm							
	Dorm Unit Kitchen Counter										
	K-2 600x1850 + 600x1100 L-Shaped Kitchen Assembly: Countertop w/ Cabinet (16mm Moisture Resistant Melamine Board Carcass; 16mm Waterproof Cintra Board Sink Cabinet: 18mm Moisture Resistant Melamine Board Doors; C-Type Handle; Soft closing Hinges[Blum or equivalent]; Soft Close Ball Bearing Drawer Guides and Synthetic Granite Cabinet); include: Double Bowl Sink, Faucet, Built-in Electric Hotplate [Vitroceramic Hob Glem P3802 or equivalent] & 600mm Stainless Steel 430 Range Hood [Whirlpool AKR 621 IX or equivalent] LABOR INCLUDED	Dorm Unit Kitchen (PWD)	1.00	assy							
	Reception Counter										
	2"x6" KD S4S Timber Sawn to varying length(Ecofor of equivalent) [include wood glue, finishing nails, sanding, and polyurethane coating and attachements] see plan	Level 1.5 Reception Area	400.00	bdft							
	Atrium										
	2x2" S4S Pine Lumber[Ecofor or equivalent] include stainless steel #8x3" winged self-drilling screw and Oil Wood Preserver[Sadolin or equivalent]	Atrium (Grid Structure Beams)	3,150.00	lm							
	18mm Birch Plywood (Finnwood or Equivalent) stainless steel #8x3" winged self-drilling screw	Atrium (Grid Structure Floors)	150.00	m²							
	Congregation Space (Level 1)										
	2x2" S4S Pine Lumber[Ecofor or equivalent] include stainless steel #8x3" winged self-drilling screw and Oil Wood Preserver[Sadolin or equivalent]	Level 1 Congregation Space	362.00	lm							
	18mm Birch Plywood (Finnwood or Equivalent) stainless steel #8x3" winged self-drilling screw	Level 1 Congregation Space	24.00	m²							
	Congregation Space (Level 0)										
	2x2" S4S Pine Lumber[Ecofor or equivalent] include stainless steel #8x3" winged self-drilling screw and Oil Wood Preserver[Sadolin or equivalent]	Level 0 Congregation Space	387.00	lm							

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	18mm Birch Plywood (Finnwood or Equivalent) stainless steel #8x3" winged self-drilling screw	Level 0 Congregation Space	29.00	m²							
	Congregation Space (Level -1)										
	2x2" S4S Pine Lumber[Ecofor or equivalent] include stainless steel #8x3" winged self-drilling screw and Oil Wood Preserver[Sadolin or equivalent]	Level -1 Congregation Space	412.00	lm							
	18mm Birch Plywood (Finnwood or Equivalent) stainless steel #8x3" winged self-drilling screw	Level -1 Congregation Space	26.00	m²							
	Balcony Railing										
	1900mm x 1500mm High Timber Slat Railing: 48mm x 48mm Pressure Treated Smooth Planks[Finnwood PT PAR or equivalent] on 2"x3"x1.2mm Stainless Tubular Steel SS304[include wall attachments and #8x3" winged self-drilling screw and oil wood preserver, Sadolin or equivalent]	All Sliding Door Balcony Railing, Level 0.5 Balcony	18.00	assy							
	3300mm x 4400mm Timber Slat Wall: 38mm x 65mm Lumber(Ecofor or equivalent) spaced at 100mm OC on 38mm x 65mm top and bottom plate [include sanding, finishing nails and matt sanding sealer]	Level 1 Ramp	1.00	assy							
	Level 0.5 Shed										
	48mm x 150mm 3600mm Pressure Treated Smooth Planks[include wall attachments and #8x3" winged self-drilling screw and oil wood preserver, Sadolin or equivalent]	Level 0.5	18.00	pc							
	12mm Tempered Safety Glass[include sealant, attachments to timber roof beams]	Level 0.5 Shed Roof	16.00	m²							
	Exterior Benches at Entrance Walkways and Ramps										
	21mm x 95mm Pressure Treated Smooth Planks [Finnwood or equivalent] with 10mm gap on 28x45mm PT Timber Battens spaced @ 400 O.C., include stainless steel #8x3" winged self-drilling screw,attachment and asphalt sheet spacer to concrete and Oil Wood Preserver[Sadolin or equivalent]	Entrance ramps seating	26.00	m²							
	DIVISION 06 SUBTOTAL										
08 00 00	DIVISION 08 OPENINGS										
08 11 00	Metal Doors and Frames										
	D4-1730mm x 2100mm Double Swing Steel Fire Door with Fiber glass infill; include: 110mmx50mm Single Rabbet Galvanized Door Frame (ANSI/SDI A250 B-2003 compliant(LEC Steel Doors or equivalent)),4-1/2"x4"x3.4mm Butt Hinge,Painted,with 2 Ball Bearing(Toyo or equivalent) 2 pcs Door Stop, Door Coordinator (UL listed (Thase or Equivalent), 2 pcs Door Closer , include Lockset [Heavy Duty, Satin Nickel Finish, Lever Type]	Function Hall Storage Room	1.00	set							
	D5 - 800mm x 2100mm Steel 45mm Thk door , Galvanized Panel with honeycomb Insulation,with Galvanized 50mmx100mm Door Frame - Single Rabbet(LEC Steel Doors or equivalent);4-1/2"x4"x3.4mm Butt Hinge,Painted,with 2 Ball Bearing(Toyo or equivalent), include: Door Stop, 300mm x 400mm Louver, Door Closer [surface Mounted, 40 kg. max. door weight, satin chrome finish (Yale or equivalent)], Entrance Lockset [Heavy Duty, Satin Nickel Finish, Lever Type]	Level 0	2.00	set							

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	D8-700mm x 2100mm 45mm Thk Steel door w/ Louver, Galvanized Panel with honeycomb Insulation,with Galvanized 50mmx100mm Door Frame - Single Rabbet(LEC Steel Doors or equivalent), Entrance Lockset [Heavy Duty, Satin Nickel Finish, Lever Type]	Level -1	1.00	set							
	Power Substation										
	2650mm x 1000mm Louvered Steel Door Gauge 18 Z-bars on 2"x2" Steel Angle Bar Framing [include top and bottom attachments and 2 coat epoxy primer]	Power Substation	4.00	set							
08 40 00	Entrances, Storefronts and Curtain Walls										
08 41 00	Entrances and Storefronts										
	D11- 1200mm x 12mm x 2100mm Frameless Tempered Glass Storefront Double Swing Door include frameless floor hinges (ie Dorma or equivalent)	Entrance Building	1.00	set							
08 44 00	Curtain Wall and Glazed Assemblies										
	10mm Tempered Glass on 50x100mm Powder Coated Aluminum Mullion Framing spaced at 500mmV and 1500mmH with 500mmx1500mm Awning Windows [see elevations]	Dorm Building-Atrium	54.00	m²							
	10mm Tempered Glass on 50x100mm Powder Coated Aluminum Mullion Framing spaced at 500mmV and 1500mmH with 500mmx1500mm Awning Windows [see elevations]	Dorm Building- Level -1	27.50	m²							
	10mm Tempered Glass on 50x100mm Powder Coated Aluminum Mullion Framing spaced at 500mmV and 1500mmH with 500mmx1500mm Awning Windows [see elevations]	Dorm Building- Level -2, Facade	10.00	m²							
	Windows										
	500mmx500mm AwningHigh Quality Heavy Section Aluminium on 100mmX50MM Frame, include locksets (Lixil Tostem P7 Series or equivalent)	Level 0.5 Kitchen	3.00	m²							
	500mmx1900mm Awning-Fixed High Quality Heavy Section Aluminium on 100mm Frame, include locksets (Lixil Tostem P7 Series or equivalent)	Storage at Entrance Building	3.00	set							
	DIVISION 08 SUBTOTAL										
09 00 00	DIVISION 09 FINISHES										
	Ceiling										
09 22 00	Support for Plaster and Gypsum Board										
	6mm Ficem Board on Ceiling Suspension Metal Joist 0.5mm 41mm 600mm OC bothways with hangers to concrete above (include .6mm carrying channel 1200 OC include, Corner Angles, hanger rods, expansion bolts)	Function Hall Balcony	12.00	m²							
09 30 00	Tiling										
	600mmx300mmx10mm Non-slip Homogeneous Porcelain Floor Tile [include sand-cement dry pack, tile adhesive, grout and expansion gap sealant] [All Balconies/ Fire Exit	77.00	m²							
	600mmx300mmx10mm Non-slip Homogeneous Porcelain Floor Tile [include sand-cement dry pack, tile adhesive, grout and expansion gap sealant] [Level -1 Elevated Floor	35.00	m²							

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	600mmx600mmx10mm Non-slip Homogeneous Porcelain Floor Tile [include sand-cement dry pack, tile adhesive, grout and expansion gap sealant](Tile Center Deni Crema or Equivalent)	Entrance Bldg Kitchen Level 0.5	26.00	m²							
	300mmx300mmx10mm Non-slip Homogeneous Floor Tile [include sand-cement dry pack, tile adhesive, grout and expansion gap sealant][Tenzen Tiles 3100 or equivalent]	Utility	15.00	m²							
	600mmx600mmx10mm R12 Non-slip Homogeneous Porcelain Floor Tile [include sand-cement dry pack, tile adhesive, grout and expansion gap sealant] [Exterior ramps and walkway at Entrance	169.00	m²							
	Painting Works										
	Semi-Gloss Latex Paint Finish on Ficem Board Exterior Walls (Includes surface preparation, Flat White Primer and Top Coat, PU Sealant on all expansion gaps)	Entrance Building- Exterior	1,513.00	m²							
	Semi-Gloss Latex Paint Finish on Finished Concrete(Includes surface preparation, Flat White Primer and Top Coat)	Entrance Building Touch-ups- Zocalo at Level 3&4, Dorm Balconies	50.00	m²							
	Steel Section Repainting [Include cleaning,degreasing and preparation-rust converter on rusted areas, 1 coat epoxy primer and 2 coat topcoat]	All Steel Sections (Elevator Shaft, Fire Exit Stairs, Entrance Building Steel Columns and Framing)	307.00	m²							
	Semi-Gloss Latex Paint Finish on Ficem Board Ceiling (Includes surface preparation, 1 Coat Flat Primer, 2 Coats Finish)	Level 4 Balcony Ceiling	9.00	m²							
	Semi-Gloss Latex Paint Finish on SRC Walls(Includes surface preparation, 1 Coat Flat Primer, 2 Coats Finish)	Elevator Enclosure	181.00	m²							
	DIVISION 09 SUBTOTAL										
10 00 00	DIVISION 10 SPECIALTIES										
10 28 19	Shower Enclosures										
	2100mm x 900mmx900mm 8mm Tempered Glass Enclosure sliding door, corner entry(include Stainless Steel mounting accesories)	Shower Enclosure	2.00	set							
	2100mmH x 1100mmL at 2-550mm sliding panels 8mm Tempered Glass Partition(include Stainless Steel mounting accesories)	Shower Enclosure	12.00	set							
	2100mmH x 1500mmL at 2-750mm sliding panels 8mm Tempered Glass Partition(include Stainless Steel mounting accesories)	Shower Enclosure	2.00	set							
	2100mmH x 2000mmL at 2-1000mm sliding panels 8mm Tempered Glass Partition(include Stainless Steel mounting accesories)	PWD Shower	1.00	set							
	2100mmH x 900mmL at 2-450mm sliding panels and 300mm Fixed Panel, 8mm Tempered Glass Partition(include Stainless Steel mounting accesories)	Shower Enclosure	2.00	set							
	2100mmH x 1400mmL at 2-700mm sliding panels 8mm Tempered Glass Partition(include Stainless Steel mounting accesories)	Shower Enclosure	1.00	set							
	Glass Railing										
	12mm Safety Tempered Glass Railing at 1000mm-1400mm on 100mmx50mm Black Powder Coated Aluminum Bottom Track[include glass mount bracket for 38mm Timber Round Railing]	Dorm Building- All balcony railing	70.00	lm							

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	800kg Rated Capacity, Machine Room Less Elevator with Automatic Voltage Regulator - One/Simplex Grouping Control, 800kg, 5.9kW, 1.0m/s, 5 stops, 5 door openings, 14.00m Travel, Flat Belt Traction Media, 400 Power Supply (Main), 20kVA AVR Rating, Stainless Steel AISI 304, 50x40 Door Frames Landing Position Indicator: Combined with LOP Landing Operating Panel: Touch Sensitive LOP Version: Surface Mounted Shaft: 1900mmx1700mmx1100mmx4200mm (Width, Depth, Pit, Headroom) Floor Designations: G,2,3,4,5 Car: 2100x800mm Door, Center-Opening, 1400x1350mm (Car Width, Depth) Side Walls, Rear Wall, Car Door & Front Finish: Full Height Glass Car Operating Panel Buttons: Touch Sensitive COP Version: Surface Mounted Ceiling: Stainless Steel [Schindler S3300 AP or equivalent] LABOR, IMPORTATION INCLUDED		1.00	set							
	DIVISION 14 SUBTOTAL										
14 00 00	DIVISION 14 FIRE SUPPRESSION										
	25 in 1 Integrated Direct Driven Horizontal Fire Pump, 50HP, 3550 rpm, 230 Volts, 60Hertz, 4" water outlet, complete with SHP Jockey Pump, Electric Motor, Pressure Tank, Water Filling Tank, Control Panel, Base Stand, Water Flow Testing Pipe, Flow Meter, Drain Valve, Pump Water Filling Pipe, Temperature Guard System, Water Filling Inlet, Overflow Drain Outlet, Water Level Detector, Pressure Exhaust Valve, Pressure Check Valve, Pressure Gauge, Pressure Tank Pipe, Expansion Joint, Outlet Control Valve, Outlet Check Valve, Pump Exhaust Valve, Drain Valve, Differential Pressure Gauge, Coupling, and Bearing Frame (Atlanta or Equivalent) INCLUDE FITTINGS AND CONNECTORS TO SPRINKLER SYSTEM		1.00	assy							
	DIVISION 14 SUBTOTAL										
22 00 00	DIVISION 22 PLUMBING										
	Shower Heater Single Point, Open Outlet Type, 3.5kW, 370mmH x 190mm x 93mm, 1.6kg, Water Flow Sensor, Manual Reset Thermostat, Auto Thermal Cut-off, Water Pressure: 1.4psi-55psi [Panasonic DH-3JL2P or equivalent]		21.00	set							
	Tapping of Soil Stack to Septic Tanks (100mmØ-150Ømm PVC Pipes and Fittings)		1.00	lot							
	Tapping of Rainwater to Cistern Tank		1.00	lot							
	DIVISION 22 SUBTOTAL										
23 00 00	DIVISION 23 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)										
	100mm(4") Stainless Pipehood with Screen(include screws)[Mitsui or equivalent]		20.00	pc							

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	Ceiling Mount Exhaust Fan 177x177mm, Single Speed, Air Volume 85m3/h(KDK 17 CUF or equivalent)		3.00	pc							
	Perforated Panel Manhole, 2'x2'x0.70mm, Bone White(JEA Steel or equivalent)		3.00	pc							
23 07 00	HVAC Insulation										
23 20 00	HVAC Piping and Pumps										
	4-Way Cassette Inverter Split Type (208V - 230V / 1 Ph / 60 Hz)-6.0HP[[Gree or equivalent]	Level 4 Function Hall	1.00	set							
	ACCU Brackets and Mobilization	Level 4 Function Hall	1.00	lot							
23 33 00	Duct and Power Supply Accessories; Installation Accessories; Pipe Hanger, pipes, wires,conduits and Wall Connection Accessories (ie U-Clamps, Expansion Bolts)	Level 4 Function Hall	1.00	lot							
	INCLUDE LABOR										
	Restoration of Ceiling Cutouts [Cutting, Boring, Painting]	Level 4 Function Hall	1.00	lot							
	DIVISION 23 SUBTOTAL										
26 00 00	DIVISION 26 ELECTRICAL										
26 05 13	MEDIUM VOLTAGE CABLES										
	50 mm² XLPE Power Cable, Single Core, 24KV	Power Substation	100.00	lm							
	50mm² Heat Shrinkable Termionation Kit, 12/36 KV APKT36B1XO-T Outdoor 2/0-1/0 AWG[Raychem or equivalent]	Power Substation	2.00	set							
	Copper Compression Terminal Lugs,2 Hole Long Barrel 0-1099939-5 1/0AWG(50mm2) stud 1/2", 50 mm²	Power Substation	6.00	pcs							
	Insulation and Hi-Pot Test	Power Substation	1.00	lot							
	GROUNDING- SECONDARY										
	20Ø mm x 3000 mtrs Grounding Rods	Building Perimeter	12.00	pcs							
	250MCM Grounding Clamp	Building Perimeter	12.00	pcs							
	50 mm² Bare Copper Wire	Building Perimeter	150.00	lm							
26 05 19	LOW-VOLTAGE POWER CONDUCTORS AND CABLES										
	THHN Electrical Wire 22 mm² [Phelps Dodge orequivalent]	Fire Pump Supply	46.00	lm							
	THHN Electrical Wire 14 mm² [Phelps Dodge orequivalent]	Fire Pump Supply	12.00	lm							
	3.5 mm² THHN Wire [Phelps Dodge orequivalent]	Entrance, Pathway, Minecraft Slope Protection, Fire Exit	2500.00	lm							
	Conduit for Electrical Systems										
	15mmØ 3m PVC Pipe for electrical PNS 14 [Atlanta Permaline uPVC or equivalent]		125.00	pcs							
	20mmØ 3m PVC Pipe for electrical PNS 14 [Atlanta Permaline uPVC or equivalent]		25.00	pcs							
	PVC Conduit Fittings and Embedment Chipping		1.00	lot							
	WIRING DEVICES										
	2 gang universal type C.O. w/ ground and plate cover [Schneider SE-CA CSCS3045SAT3P or equivalent]	Dorm Units, Cafeteria	4.00	pcs							

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27 05 26	Grounding and Bonding for Communications Systems (Tel.,FDAS, DATA, CCTV)										
	30 sq.mm concentric bare copper wire		100.00	mtrs							
	20mmØ x 3m long copper clad ground rod		3.00	pcs							
	Ground rod clamp 250 MCM		3.00	pcs							
	cadweld powder #115		3.00	sets							
	cadweld powder #90		3.00	sets							
	Grounding Busbar		1.00	assy							
	PoE Switch 24GBe RJ45 Port,2 SFP ports		1.00	set							
	L2 Switch Enterprise Router(MikroTik or equivalent)		1.00	set							
	Wifi Access Point capable of 300mbps with a range of up to 400ft(UniFi or equivalent)		6.00	set							
	DIVISION 27 COMMUNICATION SYTEM										
28 00 00	DIVISION 28 ELECTRONIC SAFETY AND SECURITY										
28 30 00	FIRE DETECTION AND ALARM SYSTEM										
28 31 00											
	Intelligent Fire Alarm Control Panel Two Loop with Capacity of 477 Devices, Flush Mounted Structure, 30 zones, Integrated PSU with Battery Charger		1.00	unit							
	Intelligent Photoelectronic Smoke Detector With Common Detector Base		50.00	unit							
	Communication Card		1.00	unit							
	Back-up Card		1.00	unit							
	Back-up Battery		1.00	unit							
	Digital MAnual Call Point		8.00	unit							
	Inteligent Sounder Strobe		8.00	unit							
	Surge Protector		1.00	unit							
	DIVISION 28 SUBTOTAL										
32 00 00	DIVISION 32 EXTERIOR IMPROVEMENTS										
	Unit Paving										
	Porous Concrete Unit Pavers 100x200x50mm Cobblestone arrangement on 50mm fine sand include basecourse and mechanical compaction	Level -2	183.00	m²							
	Cyclone Wire Perimeter Fence 2000mm Cyclone Wire 2"x2" Opening on 1 1-1/2Ø GI Pipe 2000mmx3000mm Frame SpacingPainted Black[include preparation,primer and top coat], 200mmØ x 500mm concrete pile	South and Western Section of Property	198.00	lm							
	2000mm Bi-Fold Gate 1-1/2" 4.5mm Angle Bar spaced at 100mm on 2"x2" 4.5mm Top,Mid and Bottom Supports [include preparation,primer and top coat], Heavy Duty Gate hinges and Barrel Hinge, 4"x4" Tubular Steel Posts on Concrete Pedestal	Parking Gate	13.00	lm							

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	Resin Trench Drain L1000 x W150 x H240 (inside); L1000 x W190 x H280 (Outside); U-Shaped resin concrete drainage channel with cast iron cover(3tons moving load capacity) include 110mm with cast in place concrete 20Mpa all around drain (CX 150-Z03-D Concrete Resin Rainwater Drain System or equivalent)[SEE DETAILED SECTION][include excavation and disposal of soil bank volume]	Southside of Entrance Building	19.00	pcs							
	200mmØ PVC Subsurface drainage [include excavation,soil back fill and slab restoration]	From resin trench drain going down access road	95.00	lm							
	DIVISION 28 SUBTOTAL										
	TOTAL										

Prepared by

Reviewed by:

Certified Funds Available:

ARISTOTLE MARC J. GO
Architect-Consultant, UP Baguio

ISABELO O. ABING
General Engineering Consultant

GLORIA Q. RODRIGUERA
Chief Budget Office

Endorsed by:

Approved by:

JESSICA K. CARIÑO
Vice Chancellor for Administration

RAYMUNDO D. ROVILLOS
Chancellor

Cell: L322

Comment: @sabucagan@up.edu.ph okay na kaya to?di ko na tinanggal genset.

Assigned to Segrid Yan Bucagan

-Lloyd Asim

@lloydasim@ninety.design will ask. Sabi nila mababa daw 'yung nilagay nating price sa elevator and genset.

-Segrid Yan Bucagan