



SUMMARY OF MATERIALS (TECHNICAL SPECIFICATIONS)

Project : REPAIR, REHABILITATION & RESTORATION
OF BACHELORS HALL
Location : Baguio Teacher's Camp, Baguio City

WORK ITEM/MATERIAL	TECHNICAL SPECIFICATION
1. EARTHWORKS	
1.1 Soil Poisoning	Solvent Based, Low odor, environment friendly
2. CONCRETING WORKS	
2.1 Cement	Portland, PNS 7:2005
3. REBAR WORKS	
3.1 Rebars	Steel Bars, PNS 49:2000, Grade 33
3.2 Tie Wires	G.I., gauge 16
4. FORMWORKS	
4.1 Form Plywood	½" thk., PNS 196:2000
4.2 Form Lumber	Coco Lumber
5. MASONRY WORKS	
5.1 Concrete Hollow Block	6"X8"X16" Load Bearing CHB, 800psi, confirming with ASTM C-90- 70
5.2 Natural Stones	"Kennon Stone" or any approved equal
6. DOORS & WINDOWS	
6.1 Doors	
6.1.1 Panel Doors	Hardwood, Kiln Dried (verify approved design)
6.1.2 Flush Doors	Marine Plywood & Ordinary Plywood (verify approved design)
6.2 Windows & Screens	
6.2.1 Casement & Awning Windows	uPVC (White) Casement/Awning Window with Clear Glass on uPVC Jamb complete with Accessories
6.2.2 Clear Glass	⅝" thk or ¼" thk Clear Glass
6.2.3 Jalousie Glass	¼" thk Smoked Glass
6.2.4 Insect Screen	Insect Fiber Screen on Aluminum Powdercoated complete with Accessories
6.3 Hardwares & Accessories	
6.3.1 Entrance Handleset with Deadbolt & Dummy Handle	Lever Type, Antique Brass or Antique Copper Finish, Heavy Duty
6.3.2 Entrance Lockset	Lever Type, Antique Brass or Antique Copper Finish,



6.3.3 Privacy Lockset	Heavy Duty Lever, Type Antique Brass or Antique Copper Finish Heavy Duty
6.3.4 Door Hinges	Loose Pin, Heavy Duty, 3" x 3", Stainless Steel Finish
6.3.5 Foot Bolt	8", Heavy Duty, Stainless Steel Finish
6.3.6 Chain Bolt	8", Heavy Duty, Stainless Steel Finish
6.3.7 Barrel Bolt	4", Heavy Duty, Stainless Steel Finish
7. STEEL WORKS	
7.1 Structural Steel	
7.1.1 Angle Bars, Flat Bars, Tubular Bars, Round Bars & Channel Bars	PNS 26:199, Standard sizes (as per specified)
7.1.2 G.I. Pipes	Schedule 40
7.1.3 Steel Plate	6mm thk.
7.2 Others	
7.2.1 Wood Screws	Flat Head, Black, (submit sample for approval)
7.2.2 Welding Rod	AWS A5.1 E6013
7.2.3 Anchor Bolts	10mmØ and 12mmØ with Nuts & Washer
8. ROOFING WORKS	
8.1 Roofing Sheets	Corrugated type Pre-painted Longspan Sheets, Gauge 25, Forrest Green
8.2 Roofing Bended Accessories (Ridge Roll, Flashngs, Gutters)	Pre-painted Bended Accessories Gauge 24, Forrest Green
8.3 Others	Aluminum type, submit sample for approval Steel, For wood & metal, hex head Clear, Construction Grade, neutral cure, 100% silicone
8.3.1 Rivets	
8.3.2 Tek screw	
8.3.2 Roof Sealant	
9. CARPENTRY WORKS	
9.1 Fiber Cement & PVC Ceiling Panels	
9.1.1 Ficem Boards	4.5mm & 6mm thk. Fiber Cement Board
9.1.1 Fascia Boards	12"x12'x ½" Fiber Cement Board
9.1.1 PVC Ceiling Panel	.25 x 3.028m Woodgrained PVC Ceiling Panel
9.1.1 Metal Furrings, Metal Studs & T-runners	Light Gauge, Galvanized Steel
9.2 Plywood & Wood Items	
9.2.1 T & G Wood Planks	Kiln Dried, Hardwood (submit sample for approval)
9.2.2 Rough Wood	Kiln Dried, Hardwood (submit sample for approval)
9.2.3 S4S Wood	Kiln Dried, Hardwood (submit sample for approval)
9.2.4 Plywood	¾" thk. or ½" thk. or ¼" thk, PNS 196:2000 ¾" thk. or ½" thk. or ¼" thk, PNS 196:2000
9.2.4.a Marine Plywood	
9.2.4.b Ordinary Plywood	



<p>9.2.4 Wood Preservation</p> <p>9.3 Others</p> <p>9.3.7 Toilet Partitions</p>	<p>Brown color, solvent based, for fungicidal and insecticidal</p> <p>¾" thk. Laminated Phenolic Toilet Door & Partition, including Accessories (Lock and Brackets), verify approved Color.</p> <p>Anodized Aluminum Stucco Sheet on Anodized Aluminum Frame including Accessories (Brackets)</p>
10. ELECTRICAL WORKS	
<p>10.1 Wires, Pipes & Boxes</p> <p>10.1.1 Electrical Wires</p> <p>10.1.2 PVC Pipes & Fittings</p> <p>10.1.3 RSC Pipes & Fittings</p> <p>10.1.4 Junction Box</p> <p>10.1.5 Utility Box</p> <p>10.2 Fixtures & Accessories</p> <p>10.2.1 Lighting Switches (Plate & Element)</p> <p>10.2.2 Convenience Outlets (Plate & Element)</p> <p>10.2.3 Downlight & Pinlight</p> <p>10.2.3.a Tubular Type Downlight</p> <p>10.2.3.b Circular LED Downlight</p> <p>10.2.4 Chandeliers</p> <p>10.2.5 Post Lamp</p> <p>10.2.6 Fluorescent Lights</p> <p>10.2.7 Panel Box</p> <p>10.2.8 Breakers</p> <p>10.2.8.a Individual Circuit Breakers</p> <p>10.2.8.b Main Circuit Breakers</p> <p>10.2.9 Manual Transfer Switch</p>	<p>THW and/or THNN, Stranded</p> <p>PNS 14:1983, Series 600, PVC Orange Pipes</p> <p>Standard trade sizes, hot dipped galvanized with inside enamel or epoxy coating</p> <p>4 x 4 PVC</p> <p>4 x 2 PVC</p> <p>"Wide Series" Plain White, 1-Gang, 2-Gang, 3-way switches</p> <p>"Wide Series" Plain White, Duplex, Universal Type</p> <p>4"ø & 8"ø, White Color with 8w LED Bulb (Daylight)</p> <p>4"ø & 6"ø White Color with 6.5w LED Bulb (Daylight & Warm White)</p> <p>6"ø, White Color with 15w LED Bulb (Daylight)</p> <p>5 Bracket, with 5w LED Bulbs, Warm White (submit sample for approval)</p> <p>3 Bracket, with 5w LED Bulbs, Warm White (submit sample for approval)</p> <p>with 12w Bulb, see approved sample</p> <p>Industrial Type Housing, single and double socket, with 18w T8 LED</p> <p>Bolt-on or Plug-on, Flushed Type</p> <p>Bolt-on or Plug-on</p> <p>Bolt-on or Plug-on</p> <p>Breaker Type, with Metal Recessed Casing</p>



11. PLUMBING WORKS	
11.1 Pipes & Fittings	
11.1.1 Pipes	PN20 PPR Pipes
11.1.2 Fittings	PN20 PPR
11.2 Fixtures & Accessories	
11.2.1 Water Closet	Dual Flush Type (Water Saver), 1.6gpf, White, Complete with Accessories
11.2.2 Lavatory	Wall-Hung Type, White, Complete with Accessories (including Faucet, Valves & Flexible Hose)
11.2.3 Paper & Soap Holder	Stainless Steel Finish
11.2.4 Floor Drains	4" Stainless Steel Finish with Strainer
11.2.5 Bidet Faucet	Chrome Plated, with rotating Head, complete with accessories.
11.2.6 Shower Set	3-Way Valve (H/C) with Shower Head (Telephone Type) and Handle Bar
11.2.7 Gate Valves	1/2"Ø and/or 3/4"Ø, Brass Type
11.2.8 Three-way Angle Valves	1/2" x 1/2" x 1/2", Chrome Plated
11.2.9 Mirror	1/4" thk., Frameless
12. SANITARY WORKS	
12.1 Pipes & Fittings	
12.1.1 PVC Pipes	Series 1000, UPVc Orange Pipes
12.1.2 Fittings	Series 1000, UPVc Orange Pipes
13. PAINTING WORKS	
13.1 Paints & Varnish	
13.1.1 Acrylic Solvent Based Paint (Light & Dark)	"Liquid Tile" or "Acrytex" or approved equal (verify approved Color Scheme) --- Tulle White & Baguio Green
13.1.2 Acrylic Solvent Based Primer	"Liquid Tile" or "Acrytex" or approved equal
13.1.3 Acrylic Solvent Based Reducer	"Liquid Tile" or "Acrytex" or approved equal
13.1.4 Acrylic Solvent Based Cast	"Liquid Tile" or "Acrytex" or approved equal
13.1.5 Acrylic Solvent Based Putty Filler	"Liquid Tile" or "Acrytex" or approved equal
13.1.6 Acrylic Solvent Based Penetrating Sealer	"Liquid Tile" or "Acrytex" or approved equal
13.1.7 Latex Paint	Flat (White) & Semi-Gloss Type (verify approved Color Scheme)
13.1.8 Acri-Color	Colors will be based on the approved Color Scheme
13.1.9 Masonry Putty	Water based, for Latex Paints
13.1.10 Quick Dry Enamel Paint	Colors will be based on the approved Color Scheme
13.1.11 Primer Paint	Zinc Phosphate or Zinc Chromate
13.1.12 Glazing Putty	Alkyd type, for Enamel Paints
13.2 Thinners & Fillers	
13.2.1 Thinners	Paint & Lacquer Type
13.2.2 Body Filler	Epoxy Type, with Hardener
13.2.3 Paint Stripper	Non-corrosive, for all types of paint
13.2.4 Neutralizer	For concrete, liquid acidic substance



14. TILE WORKS	
14.1 Tiles	
14.1.1 Floor Tiles	30cm x 30cm Vitrified Floor Tiles (verify color & design)
14.1.2 Wall Tiles	30cm x 60cm Glazed Wall Tiles (verify color & design)
14.1.3 Homogeneous Tiles 14.1.3.a Non-Skid/Unpolished	60cm x 60cm (verify color & design)
14.2 Others	
14.2.1 Tile Grout	Color: Black, PNS ISO 13007 – 1:2014
14.2.2 Tile Adhesive	Color: Black, PNS ISO 13007 – 1:2014 Type C2
15. WATERPROOFING	
15.1 Cold process, Water-based, Polymerized Seamless Rubberized Membrane Type	Multi-Copolymerized resin w/ Nano Silica solid contents; High Quality, High Adhesion, Non-toxic, Non-flammable, with primer sealer, brush and roller applied
16. ELECTRONICS & COMMUNICATION WORKS	
16.1 Audio System	
16.1.1 Signal & Patching Cables	submit sample for approval
16.1.2 Pro Audio Connectors	submit sample for approval
16.1.3 Switchboard Power	220-240V 15/30A
16.1.4 Power Cables	submit sample for approval
16.1.5 Audio Mixer	8channel, with USB port
16.1.6 Audio Cables	submit sample for approval
16.2 CCTV System	
16.2.1 Cable Wires	submit sample for approval.
16.2.2 BNC Connectors	submit sample for approval.
16.2.3 BNC & Cable	submit sample for approval.
16.2.4 Power Distributor	submit sample for approval
16.2.5 Adapter	AC/DC 12V 2A
16.3 Fire Alarm System	
16.3.1 Fire Alarm Control Panel	Two-Zone. Surface Mounted, Metal Enclosure, LPCB certified 230V, 50/60 Hz
16.3.2 Fire Alarm Bell	8" diameter, 240V, Loud & clear ringing tone with with "Break Glass" cover, suitable for open or close circuit system
16.3.3 Manual Station Switch	LED Type Single Faced, with Overcharging Protection and 3 Hour back-up Battery, fuse protected, Wall Mounted
16.3.5 Fire Exit Sign	2 Beam Light LED Type, with Overcharging Protection, fuse protected, Wall Mounted
16.3.6 Emergency Light	

Prepared by:


Engr. Kemet G. Zalado
STA I

Recommending Approval:


Engr. Jason Almoite
Engineer II

Approved by:


Engr. Annabelle R. Pangan
Chief, EFD-AS

