



**SOUTHERN LEYTE
STATE UNIVERSITY**

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Excellence | Service | Leadership and Good Governance | Innovation | Social Responsibility | Integrity | Professionalism | Spirituality

Project: CONSTRUCTION OF 3-STOREY APARTELLE de SLSU Phase I

Location: SLSU-MAIN, SOGOD CAMPUS, SOGOD, SOUTHERN LEYTE

Subject: SCOPE OF WORK/ MATERIAL SPECIFICATION/ WORKMANSHIP

ABC: 7,020.00

The Contractor shall furnish labor, tools, equipment, PPE, and supervision to perform satisfactorily all the required works for the project. The work shall include but is not limited to mobilization, demobilization, masonry works, plastering and housekeeping.

A. MATERIAL SPECIFICATIONS

A.01 GENERAL REQUIREMENTS

- Temporary Facility: Located at strategic site nearby the project
- Protection Fences:
- PPE: Hard Hat, Protection Glasses (Clear Glass during night works), Safety Shoes
- As-Built Plans: 1 original + 3 copies

A.02 EARTH WORKS

- Backfill Materials: - Excavated materials can be used as backfill materials provided that is not more than 4" and sources must be subject to approval of Project's TWG.

A.03 CONCRETE WORKS

- Cement: - Portland, ASTM C150, 40 kg per bag
- Washed Sand: - Cleaned, screened properly graded, washed
- Gravel: - Clean, properly graded, crushed or round, minimum size = 3/4" Ø
- Water: - Clean and free from any amount of oil, acids, alkali, organic materials, and other substances deleterious to concrete mix.
- Concrete Mix: - $f_c' = 21$ Mpa @ 28 days
- Concrete Mix Ratio: - Class A 1:2:4 by volume
- Rebars: - Deformed, minimum yield strength $f_y = 414$ MPa grade 33
- Tie Wire: - G.I. Tie Wire Ga. #16

A.04 FORMWORKS AND SCAFFOLDINGS

- Coco Lumber: - allowed for use provided its normal strength has not deteriorated.
- Assembly type: - installed forms must be sturdy, stiff durable, and with true/correct alignment & elevation

A.05 MASONRY WORKS

- CHB: - 6" thk minimum strength = 2.5 Mpa (exterior walls)
4" thk minimum strength = 2.5 Mpa (interior walls)
Application: Use Roller Brush 7" and 4" Paint Brush for the corners.
- RC Walls: - 6" thk. exterior and 4" thk. interior subject to Project's TWG approval (optional)
- Mortar Mix: - By volume:
6" thk minimum strength = 2.5 Mpa (exterior walls)
4" thk minimum strength = 2.5 Mpa (interior walls)
- Rebar: - Deformed, minimum yield strength $f_y = 414$ MPa grade 33
- Water: - Clean and free from any amount of oil, acids, alkali, organic materials, and other substances deleterious to concrete mix.

A.06 CEILING WORKS

- Internal Ceiling: - 1/4" thick Fiber cement board (Internal)
- Exterior Ceiling: - PVC Ceiling Panel 7" x 8mm x 10ft (Mahogany)(Exterior)
- Ceiling Joist: - Metal furring (double)

A.07 CARPENTRY WORKS

- A. Kitchen Cabinets: - Use 3/4" thk. Melamine Board
- Guide Rails: - Use Drawer slide rail three-section guide. (see specs)
- Hinges: - Use Hydraulic concealed cabinet hinges (see specs)
- Drawer Handles: - Use 140mm C-Type Stainless Steel Cabinet Handle. (see specs)
- B. Kitchen Cabinets: - Use 3/4" thk. Melamine Board
- Hinges: - Use Hydraulic concealed cabinet hinges (see specs)
- Latches: - Use Heavy Duty Magnetic Push-on Push Cabinet Latches
- C. Closets: - Use 3/4" thk. Marine Board
- Hinges: - Use Hydraulic concealed cabinet hinges (see specs)
- Latches: - Use Heavy Duty Magnetic Push-on Push Cabinet Latches

A.08 DOORS, WINDOWS & FIXED GLASS

- A. Panel Doors: - Must be made from Hardwood.
- Hinges: - Use Aluminum Steel Concealed Hinges (see specs)
- Locksets: - Use Stainless Steel Lockset Lever Type Door Knob (D2-T&B Doors)
Use RFID Locking System (see specs)(D1-Room/Unit Doors)
- B. Glass Doors: - Use 1/2" thk. Tempered Glass.
- Frame: - Must be Powder Coated Aluminum Frame (White)
- C. Glass Windows: - Use 1/2" thk. Tempered Glass.
- Frame: - Must be Powder Coated Aluminum Frame (White)
- D. Fixed Glass: - Use 1/2" thk. Tempered Glass.

- Frame: - Must be Powder Coated Aluminum Frame (White)
- E. Glass Railings: - Use 1/2" thk. Tempered Glass.
- Sealant: - Use Silicone Sealant
- A.09 TILE WORKS**
- Installation: - Must be seamless (Check Tile Layout Plan)
- Floor Threshold: - Use 20mm x 90cm Self Adhesive Silver Aluminum Alloy T-Strip.
(to separate the carpet tiles from others)(see specs)
- A.10 PAINTING WORKS**
- Ceiling (Ficem Board): - **Primer Coat:** Use Flat Latex Primer. Apply 1 coat. **1 hour** drying time per coat.
Top Coat: Semi-Gloss Latex Paint (White). Apply 2 coats. **1 hour** drying time per coat.
Application: Use Roller Brush 7" and 4" Paint Brush for the corners.
- Concrete Walls: - **Primer Coat:** Use Flat Latex Primer. Apply 1 coat. **1 hour** drying time per coat.
Top Coat: Use White, Satin Finish. Apply 2 coats. **1 hour** drying time per coat.
Application: Use Roller Brush 7" and 4" Paint Brush for the corners.
- Concrete Accent Walls: - **Primer Coat:** Use Flat Latex Primer. Apply 1 coat. **1 hour** drying time per coat.
Top Coat: Use Steel Gray, Satin Finish. Apply 2 coats. **1 hour** drying time per coat.
Top Coat: Use Beige, Textured Finish. Apply 2 coats. **1 hour** drying time per coat.
Application: Use Roller Brush 7" and 4" Paint Brush for the corners.
- Wood Handrails/Wooden Slats: - Use Sand Paper #120 and #80 to polished the wood handrails
- Panel Doors: - **Top Coat:** Use Oil Wood Stain, Full -Tone (Mahogany). Apply 2 coats. **2 hours** drying time per coat. Then apply Polyurathane Topcoat Sealer for the final Coat. Apply 2 coats.
Application: Use 3" Paint Brush and 2" Paint Brush for the corners or clean cloth.
- Kitchen Cabinets: - **Primer Coat:** Use Lacquer Primer Surfacer. Apply 1 coat. **1 hour** drying time
Top Coat: Use Automotive Lacquer Paint (Light Gray). Apply 2 coats. **1 hour** drying time per coat.
Application: Use Paint Spray
- Closets: - **Primer Coat:** Use Lacquer Primer Surfacer. Apply 1 coat. **1 hour** drying time
Top Coat: Use Automotive Lacquer Paint (Light Gray). Apply 2 coats. **1 hour** drying time per coat.
Application: Use Paint Spray
- Bathroom Cabinets: - **Primer Coat:** Use Lacquer Primer Surfacer. Apply 1 coat. **1 hour** drying time
Top Coat: Use Automotive Lacquer Paint (Light Gray). Apply 2 coats. **1 hour** drying time per coat.
Application: Use Paint Spray
- Metal Works (Railings): - Use Sand Paper #120 and #80 to polish.
Primer Coat: Use Lacquer Primer Surfacer. Apply 1 coat. **1 hour** drying time per coat.
Top Coat: Use Automotive Lacquer Paint (Dark Gray). Apply 2 coats. **1 hour** drying time per coat.
Application: Use Paint Spray
- A.11 ELECTRICAL AND ELECTRONIC WORKS**
- Switches: - Use "Smart" Switches
- Convenience Outlets: - Use "Smart" Outlets
- Cove Light: - Use 220 volt LED Light Warm White
- Back Light: - Use 220 volt LED Light Warm White
- Airconditioning Units: - 1.5 HP, Wall Mounted, Inverted Model, 220v, 1ph, 60Hz
- Materials: - Comply with Philippine Electrical Code
- SOLECO Standards: - Black (hot lines); colored wire (ground)

B. WORKMANSHIP

- B.01 Site Clearing** - All surface objects and all trees, stumps, roots and other protruding obstructions not designated to remain, shall be cleared and removed. Stump holes and other holes from which obstructions are removed shall be manually backfilled with suitable materials and manually compacted to the satisfaction of the Project's TWG.
- The contractor shall be responsible for providing the necessary licenses, approvals and permits in the clearing stage.
- Hauling of unnecessary objects/ materials/ debris on site is also under the responsibility of the contractor.
- B.02 Excavation** - Properly sloped to provide safe working condition. Drain or pump-out water from excavation before proceeding to any activity. Excavated materials can be temporarily stocked within vicinity but must be kept tidy/safe and must not obstruct normal movement within the area. All excavation must be manually backfilled to the satisfaction of Project's TWG.
- B.03 Backfilling** - Use excavated materials as backfill material. Use manual tamping at every 0.30 meter thickness or backfill. Discard excavated material with diameter greater than 4". Dispose excess material within 20m radius as pinpointed by Project's TWG. Work area must be properly shaped to the satisfaction of Project's TWG after project completion.
- B.04 Concrete Works** - Rebars must be properly cleaned, spaced, and fastened. Use concrete spacer to maintain required concrete cover. Manual mixing may be allowed subject to approval of the Project's TWG. Dirty aggregates will be discarded and will only be allowed to be use after proper cleaning to the satisfaction of Project's TWG. All concrete works must be covered by pouring permit approved by Project's TWG.
- B.05 Plastering Works** - Minimum thickness is 1/2". Mortar mix must be put in place within 2 hours after water has been added. Follow the mixture specified in A.6 above. All plaster must be cement finish. Finish plaster must be water cured for at least three (3) days.
- B.06 Formworks** - Coco lumber will be allowed for use provided its normal strength has not deteriorated.

Installed forms must be sturdy, stiff durable, and with true/correct alignment & elevation; all to the satisfaction of Project's TWG. Deteriorated and/or misaligned forms will be dismantled and replace without cost to Project

B.07 Housekeeping

- Cleanliness and orderliness within the worksite is a must to enhance overall safety for the whole project.

B.08 Housekeeping

- Contractor's workers must always abide by Project's and School's safety and security rules and regulations. Violating workers will not be allowed to work and will be blacklisted. Details of these rules and regulations will be discussed during the kick-off meeting. List of workers and equipment must be submitted (w/ serial number) during the kick-off meeting.

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