



## BIDS AND AWARDS COMMITTEE

### SUPPLEMENTAL BID BULLETIN No. 2

January 11, 2023

Please be advised of the following additional documents to the Bidding Documents specifically in Section VI Specifications, as stated below. This shall form an integral part of the Bidding Documents.

### Specifications

## SPECIFICATIONS

**PROJECT** : REPAIR AND REHABILITATION OF VARIOUS BUILDINGS AND STRUCTURES  
OF SLSU-BONTOC CAMPUS  
**LOCATION** : SOUTHERN LEYTE STATE UNIVERSITY - BONTOC CAMPUS  
SAN RAMON, BONTOC SOUTHERN LEYTE  
**OWNER** : SOUTHERN LEYTE STATE UNIVERSITY  
**DURATION** : 180 DAYS

### I. GENERAL REQUIREMENTS

Mobilization shall include obtaining all permits; moving all plant and equipment onto the site; furnishing and erecting plants, temporary buildings, and other construction facilities;

implementing security requirements, all as required for the proper performance and completion of the WORK. Mobilization shall include the following principal items:

1. Moving all the CONTRACTOR's plant and equipment required for operations onto
2. the site.
3. Providing all on-site communication facilities, including radios and cellular phones.
4. Providing on-site facilities.
5. Obtaining all required permits.
6. Establishment of safety programs.
7. Having the Contractor's superintendent at the jobsite full time.
8. Submitting initial submittals.

Demobilization includes the clean-up of the site and the removal of materials, debris, waste, etc., and making good damages or temporary alterations, restoration of damages to the surrounding area (including vegetation, minor structures etc.) resulting from the construction or construction-related activities.

### II. CONCRETE WORKS

This item shall conform to Item No. 900 of DPWH Standard Specification for Public Works Structures. It shall consist of furnishing, placing, and finishing concrete in buildings and related structures in accordance with this specification and conforming to lines, grades, and dimensions shown on the plans.

#### 2.0 Portland Cement

Cement shall conform to the requirements of the following cited Specifications for the type specified or permitted: Portland Cement - AASHTO M 85 (ASTM C 150), Blended Hydraulic Cements- AASHTO M 240 (ASTM C 595), Masonry Cement- AASHTO M 150-74 (ASTM C 91).

## 2.1. Coarse Aggregates

Coarse aggregate shall conform to the requirements of subsection 311.2.2 and 311.2.3 under Item 311 of Vol II Blue Book and ASTM C33 for lightweight aggregates. Maximum size of the aggregate shall be not larger than one-fifth (1/5) of the narrowest dimension between sides of forms of the member for which the concrete is to be used nor larger than three fourths of the minimum clear spacing between individual reinforcing bars.

## 2.2. Fine Aggregates

Fine aggregates shall be composed of washed sand with uncoated granules, strong, durable, reasonably clean and free from organic matter.

## 2.3. Metal Reinforcements

Reinforcing steel bars shall conform to the requirement for deformed steel bars for concrete reinforcement (ASTM 615) AASHTO M31.

## 3.0. FORMWORKS AND SCAFFOLDINGS

Forms shall be fabricated, erected, and removed as specified herein and shall be of a type, size, shape, quality and strength to produce hardened concrete having the shape, lines and dimensions indicated on the drawings. The forms shall be true to line and grade in accordance with the tolerances as specified in "Cast-In-Place Concrete" and shall be mortar tight and sufficiently rigid to resist deflection during concrete placement. The surfaces of forms shall be smooth and free from irregularities, dents, sags, and holes that would deface the finished surfaces.

Forms for cast-in-place concrete shall conform with the following requirement:

1. Prefabricated Steel Simplex "Industrial Steel Forms Frame Forms", Symons "Steel Ply", Universal "Uniform", or equal.
2. Plywood Product Standard PST, waterproof resin-bonded, exterior type Douglas Fir. (a) Normal Face adjacent to concrete Grade B or better (b) Architectural Face adjacent to concrete Grade B or better with plastic overlay.
3. Lumber: Straight, dressed all sides, uniform thickness, and free from knots, offsets, holes, dents, and other surface defects.

Reuse of job-built plywood forms shall be permitted only when specifically approved by the ENGINEER or TWG.

## 4.0. MASONRY WORKS

For walls and partitions shown on the detailed drawings requiring concrete hollow blocks, the contractor shall use concrete hollow blocks upon approval of the TWG. Reinforcement shall be laid with a mortar composed of one part Portland cement and three parts sand. It shall be done in accordance with the structural plans as to size, spacing and other requirements.

## 5.0 CEILING AND PARTITION WORKS

This Item shall consist of furnishing and installing gypsum board for ceiling and walls in accordance with this Specification and at the locations shown on the Plans, or as required by the Architect..

### Material Requirements

Gypsum board shall comply with the Standard Specification for Gypsum Board, ASTM C 1396 regular and Type X (special fire-resistant gypsum board) with thicknesses as

indicated on drawings, 1200 mm wide by maximum practical length, ends square cut and edges bevelled.

#### Accessories

- a. Joint materials shall be as recommended by gypsum board manufacturer for intended purpose.
- b. Metal furring runners, hangers, tie wires, inserts, and anchors galvanized.
- c. Drywall furring channels shall be 0.5 mm core thickness galvanized steel channels for screw attachment of gypsum board.
- d. Resilient drywall furring shall be 0.5 mm base steel thickness galvanized steel for resilient attachment of gypsum board.
- e. Nails shall conform to ASTM C 514.
- f. Steel drill screws shall conform to ASTM C 1002.
- g. Laminating compound shall be as recommended by the manufacturer, asbestos-free.
- h. Casing beads, corner beads, control joints and edge trim shall conform to ASTM C 1047, metal, zinc-coated by hot-dip process 0.5 mm base thickness, perforated flanges, one piece length per location.
- i. Insulating strip shall be rubberized, moisture resistant, 3 mm thick cork strip, 12 mm Wide with self-sticking permanent adhesive on one face, lengths as required.
- j. Joint compound shall conform to ASTM C 475, asbestos-free.

## 6.0. HARDWARE

This shall conform to Item 1004 Vol II DPWH Standard Specification for Public Works Structures.

### 6.1. Rough Hardware

All rough hardware such as nails, screws, bolts and other related fasteners required for carpentry works shall be first class quality and locally available.

All finishing hardware consisting of lockset, latches, bolts, and other devices, door closers, knobs, handles, hinges and other similar hardware shall be first quality available locally and conforming with the following specifications:

#### 6.1.1. Door Locksets

It shall be of durable construction, preferably the product of single reputable manufacturer for consistent quality and master keying. Locks shall be keyed in sets and subsets . Where locks are required by the owner to be keyed alike in one system furnish a total of 4 keys for each set.

Mechanical lever type Lockset must be made from heavy duty material, with satin chrome finish and cylindrical mortise.

## 6.3. Door and Partition

### 6.3.1 Panel Door

It shall be made from mahogany (selected grade) of good quality for parts of the structures as enumerated or when indicated in the plan.

### **6.3.2 Glass Door**

Swing door shall be made from tempered glass with stainless steel patch fittings and accessories. Contractor must follow the required thickness, classification, and dimensions reflected in the schedule of doors.

### **6.3.2 Partitions**

#### **Glass Panels**

Frames and panel members shall be fabricated from extruded powder coated sections with clean, straight, sharply defined profiles and free from defects impairing strength, durability and appearance. Miscellaneous fastening devices shall be made of non-corrosive materials. Glass is dark gray and Blue.

Contractor must follow the required thickness, classification, and dimensions reflected in plan.

#### **Glass Partitions**

Fixed frameless partition shall be made of tempered glass with complete accessories and fastening devices. Dimensions will be dependent on the construction requirement.

#### **CR cubicles**

It shall be made from 12mm thick water proof phenolic compact board with hanging brace. 1820mm high pilaster & side divider, 1800mm high middle divider with complete accessories.

#### **Accordion Wall**

Is shall be made from PVC material with complete accessories and fastening devices. Color is preferably white. Dimensions shall be subject to the approval of the TWG or Site Engineer

## **7.0 TILEWORKS**

The color scheme of the material shall be approved by the TWG. Tiles shall be installed at the comfort room wall and floor, second floor, and stairs. Ground floor finishing shall be plain cement finish.

## **8.0 ROOFING WORKS**

This item shall consist of furnishing all pre-painted metal sheet materials, tools and equipment, plant including labor required in undertaking the proper installation complete as shown on the Plans and in accordance with this Specification.

All pre-painted metal sheet and roofing accessories shall be oven baked painted true to profiles indicated on the Plans as per approval of the Engineer.

Pre-painted long span roofing sheets shall be fabricated from cold rolled galvanized iron sheets specially tempered steel for extra strength and durability. It shall conform to the material requirements defined in PNS 67:2014 Hot-dip Metallic-Coated Steel Sheets for Roofing - Specification. Profile section in identifying the architectural moulded rib to be used is rib type. Desired color shall be subject to the approval of the Architect/Engineer.

Roofing accessories shall be fabricated from gauge 26 (0.500 mm thick) cold-rolled plain galvanized iron sheets specially tempered steel. Profile section shall be as

indicated on the Plans. Fastening hardware shall be of galvanized iron straps, rivets or J-bolts. G.I. straps are of 0.500 mm thick x 16 mm wide x 267 mm long (gauge 26 x 5/8" x 10-1/2") and standard rivets.

## **9.0 PAINTING WORKS**

The color scheme of the material shall be approved by the TWG. Painting works shall cover the interior of the building only. All surfaces are to be painted with primer coat and minimum two coats of enamel paints as per approved color scheme, after drying and thoroughly cleaned to remove all loose scale and loose rust. Surfaces not in contact but inaccessible after shop assembling, shall receive the full specified protective treatment before assembling.

## **10. PLUMBING WORKS**

All piping materials, fixtures and appliances fitting accessories whether mentioned or not but necessary to complete this item shall be furnished and installed. Pipes and fittings for waterlines shall be made of Polypropylene Random (PPR). Pipes and fittings for sanitary line shall be made of PVC series 1000 pipe.

### **10.1 Special Plumbing Fixtures**

Built in appliances such as urinal, lavatory and sink shall be installed as indicated on plans. Water closet shall be front round type water closet with tank fitting, seat and cover, flexible hose, bidet hose, angle valve, soap & tissue holder.

### **10.2. Septic Tank**

It shall be provided as shown on the plans including all pipe vents and fittings. Concrete masonry work shall conform to the corresponding Item of this specification. Inlet and outlet pipes shall conform to the latest edition of the National Plumbing Code.

## **11.0 RAILING WORKS**

This Item shall consist of furnishing, fabricating and installing the railings for buildings and other similar structures of the material or combination of materials in accordance with this Specification and in conformity with the Plans. Railing shall not be considered a part of the structural system of the building unless it is stated in the design

Steel base metal to be welded shall be open-hearth or electric furnace steel conforming to MSHTO M 183 unless otherwise shown on the approved Plans.

Stainless steel shall conform to the requirements of ASTM A 276 M, Standard Specification for Stainless Steel Bars and Shapes or as called for in the Plans.

Painting, Varnishing and Other related works shall conform to the applicable requirements prescribed in Section 1032.2, Material Requirements of Item 1032, Painting, Varnishing and Other Related Works.

The metal railing shall be fabricated in accordance with the dimensions shown on the approved Plans. In case of welded railings, all exposed joints shall be finished by grinding or filing after welding to give a neat appearance. Welding may be substituted for rivets or bolts with the approval of the Engineer.

Stainless steel railing shall be fabricated in accordance with the dimensions shown on the Plans. During installation, stainless steel railing shall be free from rust and surface blemish. It shall be rust free until ten (10) years after completion.

## **12.0 LOGOS AND SIGNAGES**

Entry Statement shall be made from stainless material grade 304. SLSU Logo shall be made from stainless material grade 304. The contractor shall use the latest official logo of the university. Design shall be subject to the approval of the TWG or site Architect.

## **13.0 COMPOSITE PANELS**

The aluminum shall be high strength, heat-treatable alloy which provides good formability and weldability and good corrosion resistance. It shall be suitable for a wide variety of architectural applications and of commercial quality unless specified in the Plans. It shall conform to the applicable requirements of ASTM B 209M, Standard Specification for Aluminum and Aluminum Alloy Sheet and Plate. Use Gauge 26 (0.4mm) thickness.

Panel shape and sizes shall be as indicated in the Plans or as approved by the Architect. Aluminum panels shall be equipped with perimeter welded metal frames, return edges, borders, mounting holes, attachment brackets and clips. It shall be dimensioned as indicated on the Plans and as approved by the Engineer with a width and length tolerances of + 2.0 mm and + 4.0 mm respectively.

## **14.0 ELECTRICAL WORKS**

Furnishing and installation of underground service entrance, conduits and conductors, and all items required by local utility power company's policy, rules and regulations.

Furnishing and installation of panel boards at location indicated on the plan and electrical riser layout, including all accessories required.

Furnishing and installation of feeder and branch circuit conductors with necessary conduits, approved type of fittings and devices as indicated in the electrical plans.

Furnishing and installation of all types of utilization devices, outlets and wall switches with properly installed cover plate.

All lighting fixtures shall be furnished and installation by the contractor. They shall be as shown on the drawings or specified on the schedule of lighting fixtures.

Design of the chandelier must be subject to the approval of the TWG or end-user.

Furnishing and installation of underground service entrance, conduits and conductors, and all items required by local utility power company's policy, rules and regulations

## **15.0 MECHANICAL WORKS**

This Item shall consist of furnishing, fabricating and installing of automatic fire alarm system complete with sprinkler, fire hose cabinet, piping and other accessories and minor structures as indicated in the plan.

## 16.0 TESTING

The Contractor shall furnish a copy of the certification showing the results for steel bars and concrete subjected to tensile and compressive strength test respectively.

Leak test shall also be conducted by the Contractor together with the supervising Engineer or TWG prior to plastering and upon final inspection of the building.

Flood test shall be conducted to test the functionality of the piping system and its drainage capacity.

Electrical test shall be conducted to ensure the functionality of the whole wiring and electrical system.

The drawings and specifications are meant to be complementary to each other, and what is called for by one shall be binding as if called for both.

Any apparent conflict between the drawings and specifications, and any controversial or unclear points in either shall be referred to the supervising Engineer or Technical Working Group for final interpretation and decisions.

Prepared by:

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This Supplemental Bid Bulletin No. 1 is issued this **11<sup>th</sup> day of January 2023**.

For guidance and information of all concerned.

**SGD.**  
**GORDON B. OPINA**  
Chairperson, BAC

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