

## **PROJECT REQUIREMENTS / PARAMETERS**

**Title:** DESIGN & BUILD OF ADDITIONAL AIRBORNE INFECTION/PROTECTIVE ENVIRONMENT FACILITY, PCR LAB. & TB LAB., REHABILITATION OF TB-DOTS & PMDT AREA

**Location:** SPMC COMPOUND, J.P. LAUREL AVE., BAJADA, DAVAO CITY

**Scheme:** DESIGN & BUILD

**Projected Duration:** 300 CALENDAR DAYS

**General Parameter:** The Design & Build of additional Isolation Rooms, PCR Lab. & TB Culture Lab., Rehabilitation TB-DOTS & PMDT Area

**Specific Requirements:**

I. Details of the Design shall include, but not limited to, the following hospital requirements:

**a. Airborne Isolation Protective Environment Isolation Facility with PCR Laboratory**

- i. Hallways
- ii. Nurse Station
  - 1. 4-6-staff capacity;
  - 2. Clean Linen Room;
  - 3. Ante Room;
  - 4. Comfort Room;
  - 5. Clean Utility.
- iii. Decontamination Area
  - 1. Decontamination Room;
  - 2. Ante Room
- iv. Auto Clave
- v. Dirty Linen
- vi. Isolation Rooms
  - 1. 3-units;
  - 2. Ante Room;
  - 3. Comfort room;
  - 4. Locker.
- vii. ME/EE/ECE Rooms
  - 1. 2-units.
- viii. Polymerase Chain Reaction (PCR) Laboratory
  - 1. Reception Area(for laboratory);
  - 2. Comfort and Shower Room;
  - 3. Extraction Room;
  - 4. 2 units Clean Linen Room;
  - 5. Decontamination Room;
  - 6. Post-PCR Room;
  - 7. PCR Room;
  - 8. Reagent Preparation Room;
  - 9. Hallways.

**b. TB Culture Laboratory**

- 1. Office with comfort room;
- 2. Sterile Room;
- 3. Microscopy;

4. Storage Room;
5. Biosafety Level 2 Laboratory (BSL-2);

**c. Perimeter Fence**

1. Entrance and Ambulance gate;

**d. Waste Water Treatment Plant.**

**II. Design Output & Plans:**

**a. Architectural Requirements**

**i. Plans**

1. Perspective, Vicinity Map, & Site Development Plan
2. Floor Plans with Area Tabulation & Schedule of Finishes
3. Elevations & Sectional Views with Specifications
4. Reflected Ceiling Plans
5. Schedule of Doors & Windows
6. Stairwells Detailed Plans, Elevations & Sections
7. Detailed Plans of Comfort Rooms
8. Detailed Plans of Counters & Cabinets

**ii. Specifications**

**b. Structural Requirements**

**i. Soil Investigation Report**

**ii. Structural Analysis & Design Report**

1. Superstructure: Steel, Reinforced Concrete, or Composite Framing
2. Substructure: Reinforced Concrete Foundation

**iii. Plans**

1. Construction Notes
2. Structural Notes
3. Specifications
4. Foundation Plan & Details
5. Schedule of Columns with Details
6. Schedule of Beams with Details
7. Floor Framing Plans
8. Schedule of Floor Slabs with Details
9. Roof Framing Plan & Details

**c. Electrical Plans**

**i. General Notes & Standard**

**ii. Specifications**

**iii. Schedule of Electrical Load and Design Computation**

**iv. Lighting Layout**

**v. Power Layout**

**vi. Single Line Riser Diagram**

**d. Mechanical Plans**

**i. General Notes & Standards**

**ii. Specifications**

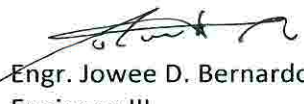
**iii. Schedule of Mechanical Load and Design Computation**

**iv. Air-conditioning & Ventilation System (HVAC)**

1. Mechanical Layout per Floor
2. Detail of Mechanical Fixtures
3. Schedule of Loads of Mech. Fixtures

- e. Electronic Communications Plans
  - i. General Notes & Standards
  - ii. Specifications
  - iii. Design Computation
  - iv. Electronic Communications Layout Plan
  - v. Details of Electronic Communications Fixtures
  - vi. Schedule of Loads of Electronic Communications Fixtures
- f. Plumbing and Sanitary Plans
  - i. General Notes & Standards
  - ii. Specifications
  - iii. Design Computation
  - iv. Waterline Layout
  - v. Sanitary & Drainage Layout
  - vi. Isometric Layout
  - vii. Septic Vault Plans & Details
  - viii. Catch Basin Plans & Details

Prepared by:

  
Engr. Jowee D. Bernardo  
Engineer-III  
Engineering & Facilities Mgt.

Checked by:

  
Engr. Henry O. Tancio  
Engineer-IV  
Head-Engineering & Facilities Mgt.

Approved by:

  
**DR. LEOPOLDO J. VEGA, M.D., FPATACSI**  
Medical Center Chief II  
Southern Philippines Medical Center