

Invitation to Bid (ITB)

Reference Number	4285444
Procuring Entity	DON EMILIO DEL VALLE MEMORIAL HOSPITAL
Title	<i>Design and Build</i> of Don Emilio del Valle Memorial Hospital's OPD/Medical Arts Building and OR Building Renovation
Area of Delivery	Bohol  Printable Version

Solicitation Number:	2017-devmh-01	Status	Active
Trade Agreement:	Implementing Rules and Regulations	Associated Components	Order
Procurement Mode:	Public Bidding	Bid Supplements	0
Classification:	Civil Works	Document Request List	3
Category:	Construction Projects	Date Published	07-Jan-2017
Approved Budget for the Contract:	PHP 25,000,000.00	Last Updated / Time	07-Jan-2017 12:00 AM
Contract Duration:	240 Day/s	Closing Date / Time	30-Jan-2017 10:00 AM
Client Agency:			

<hr/> <p>Contact Person: Doreen A Lugo BAC Secretariat Bood, Ubay Bohol Philippines 6315 63-38-5188309 63-38-5188309 doreen_btrc@yahoo. com</p>		
<p>Description</p> <p>Republic of the Philippines Department of Health Regional Health Field Office No. VII DON EMILIO DEL VALLE MEMORIAL HOSPITAL "PHILHEALTH ACCREDITED HEALTHCARE PROVIDER" ISO 9001:2008 QMS CERTIFIED</p> <hr/> <p>TERMS OF REFERENCE: OPD/MEDICAL ARTS BUILDING AND OR BUILDING RENOVATION</p> <p>I. BACKGROUND</p> <p>Don Emilio Del Valle Memorial Hospital (DEV MH) was established in 2003 to serve the Boholanos from the Northeastern part of Bohol. The hospital was then an Infirmary Hospital with an implementing 27 bed capacity. It was on year 2011-2015 when there was an enormous increase in patient's census and in 2016, the hospital was granted with a DOH Level 2 license with an authorized 100 bed capacity defining its services in Surgery, Medicine, Pediatrics, Obstetrics and Gynecology.</p> <p>Last year, the hospital was able to serve an overwhelming 21,125 patients at OPD and 12,963 admitted patients. The census on the majority of the admitted patients showed that most of these patients were from the neighboring towns of Ubay. As the services of the hospital continues to expand with the availability of the needed</p>		

equipments, doctors and increase in the number of staff, the hospital projected that the increase in the number of patients will continue to grow. With its vision set to deliver quality medical care and become a World Class Health institution, the hospital needs to expand its infrastructure to cater the growing number of patients and render better service to the people.

With an HFEP budget allocation of P25 Million from the Department of Health for Infrastructure Development for the year 2017, the execom members of the hospital finally decided the breakdown of the amount as follows:

OPD/Medical Arts Building 15,000,000.00

OR Building Renovation 10,000,000.00

Total P 25,000,000.00

The mode of implementation for the construction of the two proposed project will be through **Design and Build** Scheme.

II. OBJECTIVES

- To be able to select the best design on each proposed infrastructure according to the standards and requirements of the Department of Health.
- To ensure consistent monitoring on the progress of each infrastructure construction.
- To ensure that the submitted design/details of each project are reviewed and approved by the Department of Health.
- To ensure quality of output on each proposed infrastructure in a timely manner required by Law based on the provisions of RA9184.

III. SCOPE OF WORKS & SPECIFICATIONS

1. OPD/MEDICAL ARTS BUILDING

♣ Site Clearing

♣ Excavation

♣ Reinforced Concrete

→ Column Footing (with gravel bedding or lean concrete) - Preparatory for 2nd floor design

→ Column - Preparatory for 2nd floor design

- CHB footing/ zocallo
- Tie Beam
- Slab on ground
- Includes 2nd floor slab and beam
- ♣ Concrete Pavement
 - Plain concrete in front of the building 5 meters wide including on the gate entrance.
- ♣ Masonry works - 6" thick CHB on exterior walls, 4" CHB on interior.
 - 12mm reinforcement on 6" CHB, max. spacing 60cm both vertical and horizontal.
 - includes construction of new septic tank
- ♣ Cement Plastering - 3/4" minimum thickness. Smooth finished using Skimcoat application.
- ♣ Tileworks
 - Granite tiles 60cm x 60cm (rooms and hallway)
 - Rest rooms - Granite wall tile (floor to ceiling)
 - Non-slip granite tiles for flooring
 - May use other decorative tiles as approved by the procuring entity.
 - Granite Slab on sink counter on public CR.
- ♣ Moulding
 - May be optional as per design of the architect.
- ♣ Ceiling Works
 - Gypsum board ceiling 8mm minimum thickness on light metal frame
 - Preferably with ceiling design on OPD waiting area.
- ♣ Aluminum Framed Windows
 - Windows on OPD Waiting area shall be fitted with insect screen including windows on restrooms
- ♣ Doors
 - 6mm thick Marine plywood (on both sides) hollow core flush door with louver panel on restrooms.
 - Solid/Panel Door in polyurethane finish on Male and Female Public toilet.
 - Glass door on aluminum frame(double leaf) on entrance and exit

 - 6mm thick gray tinted glass on powder coated aluminum frame (single leaf) on the following areas:
 - Dental
 - Animal Bite
 - Satellite x-ray
 - Satellite Pharmacy

- Satellite Laboratory
- OB - Gyne
- IM
- Pedia
- Surgery
- Steel Stiffened and honeycomb core hollow metal type door with lead sheet covering the entire door, size 90 cm x 210cm, on Satellite X-ray Room.
- Pre-fabricated veneer finish flush doors on the following areas:
 - Medical Social Service
 - OPD Office
 - Exam/Treatment
 - Breastfeeding
- PVC door with louver panel on the following areas:
 - FST
 - MST
 - Janitor's Closet
 - Staff dress/Scrub room
 - PX Dress
 - Sub-Sterile room
- 6mm thick Marine plywood hollow core double swing door with stainless kickplate both sides, size 120 cm x 210 cm with vision panel (Minor Operating Room).
- Heavy duty type locksets Kwikset brand or approved equivalent.
- Kiln Dried hardwood jamb on wooden doors
- ♣ Plumbing
 - Heavy duty type Watercloset with lavatory
 - with complete accessories
 - Towel rod
 - Soap holder
 - Toilet paper holder
 - Facial Mirror 60cm x 45cm
 - Sewerline pipes - Series 1000 thick sewerline pipes
 - PPR pipes for waterline
 - Faucet - brand FION, zinc alloy
 - Floordrain - 150mm x 150mm, brand FION, stainless steel, thickness 2 mm
 - Wall mounted stainless faucet on all sink.
- ♣ Electrical
 - LED lighting accessories

- use THHN Wires
- Three phase wiring
- THW/THWN Wires for service drop
- Provide 6 sets emergency light
- Aircondition units split type on the following areas:
 - Animal Bite - 1 hp
 - Satellite Laboratory/Satellite Pharmacy - 1.5 hp
 - Internal Medicine - 2 hp
 - OB Gyne - 1.5 hp
 - WCPU - 1 hp
 - Satellite Xray - 1.5 hp
- Aircondition units window type on the following areas:
 - OPD Office - 1 hp
 - Dental - 3/4 hp
 - Pedia - 1 hp
 - Surgery - 1 hp
 - Minor OR - 1 hp
 - Medical Social Service - 3/4 hp
- Provide 3 sets exhaust fan each on Male and female public restroom.
- Provide 8 sets Orbit Fan on OPD waiting area.
- Provide 1 set long blade ceiling fan each on OPD Admitting area and Breastfeeding room
- ♣ Fire Protection system
 - Fire alarm - 2 sets
 - Smoke detector - all areas on the ground floor
 - Provide 7 sets fire extinguishers on (5 kgs, type ABC)
- ♣ Communication System
 - Extension Intercom on the following areas:
 - 12 units intercom (Admitting, Cashier, Medical Social service, Dental, Pedia, Surgery, Minor OR, Satellite Pharmacy, Satellite Laboratory, Satellite Xray, Internal Medicine, OB Gyne)
 - Paging speakers on the following areas:
 - OPD - 4 sets
 - Hallway - 5 sets
 - Dental - 1 set
 - Medical Social Service - 1 set
 - Cashier - 1 set
 - OPD office - 1 set
 - Satellite Pharmacy - 1 set

- Satellite Laboratory - 1 set
- Satellite xray - 1set
- ♣ Watersupply
 - Provide 1 set 2000 liters stainless tank
 - with 1 hp shallow pump , pressure tank and other accessories
- ♣ Landscape Works
 - Covers the perimeter of the building.
- ♣ Furniture and Furnishings
 - Furnish OPD Admitting counter
 - Furnish table on the following areas
 - Dental - WCPU - OB Gyne
 - Animal bite - IM - OPD Office
 - Satellite x-ray - Pedia
 - Satellite laboratory - Surgery
 - Satellite Pharmacy - SWO
 - Provide additional gang chair on OPD Waiting Area
 - Furnish Medicine cabinet/shelves on Satellite Pharmacy
 - Furnish Sink Cabinet under each sink
- ♣ Signage System
 - Provide signage on each room and signage of the building
- ♣ Drainage System
 - three layer 4"CHB, closed type
- ♣ Painting
 - a. Concrete Wall - applied with skimcoat, semi-gloss finish using Ready mixed paint
 - b. Ceiling - fine textured finish
 - c. Wooden doors
 - d. Furnitures
- ♣ Specialty Works
 - Provide stainless railings on ramp
 - Provide wall panel on each urinal
- ♣ Metal Structure (trusses)
 - A bearing plate 8mm thick should be provided on all points of each truss support.
 - 10mm Ø Sag rods should be provided between each truss including 12mm Ø sway brace.
- ♣ Roofsheets
 - Pre-painted long span roofsheets

1A. Special Conditions

- a. Additional works desired by the contractor shall be considered if no additional payment or variation order is requested by the contractor.
- b. The specified material/brand indicates the minimum quality requirement and does not deprive the contractor of providing an equivalent or of better quality material as approved by the procuring entity.
- c. Work preparations necessary for the second floor expansion such as concreting of second floor slab, dowel for column and CHB, and plumbing preparation shall be included on the scope of works of the contractor
- d. Change orders resulting from design errors, omissions or non-conformance with the performance specifications and parameters and the contract documents by the contractor shall be implemented by the contractor at no additional cost to DEVMH.
- e. The contractor shall be held liable for design and structural defects and/or failure of the completed project within the warranty period of fifteen (15) years for permanent structures/buildings as specified in Section 62.2.2 of the Revised IRR-A (RA 9184).
- f. Any errors, omissions, inconsistencies, inadequacies or failure submitted by the contractor that do not comply with the requirements shall be rectified, resubmitted and reviewed at the contractor's cost.

1B. Project Requirements

- a. Design of the proposed OPD/Medical Arts Building showing the perspective of the building and the finished two storey building perspective.
- b. Structural design/computation of the building prepared and approved by a structural engineer
- d. Complete sheet of architectural, structural, plumbing, mechanical and electrical plans of the building with each sheet approved by a licensed professional.
- e. Detailed estimates, bill of quantities and material specifications.
- f. Temporary facilities and facilities for the Engineer
- g. Submit Construction Schedule.
- h. Submit Health and Safety program for the Construction phase.
- i. Building permit, Fire Safety permit.
- j. Project billboard showing relevant information and perspective of the building.
- g. Manpower requirements during the construction phase will include a full time Civil Engineer (with a min. of 5 years of field experience.
- h. Wearing of ID of all workers.

2. OR BUILDING RENOVATION

♣ Removal of Concrete Walls

♣ Removal of existing doors and windows

- All doors and windows be replaced with a new one including jambs.

♣ Removal of inside and outside ceiling

- The entire interior ceiling shall be removed. Damaged outside ceiling shall be replaced with a new one.

♣ Removal of interior and exterior wall paint.

- Includes paint removal on the exterior concrete parapet.

♣ Removal of existing Plumbing Accessories

- All plumbing accessories such as the watercloset, lavatory, faucets, sink, floordrain and PVC pipes shall be removed.

♣ Removal of existing Electrical accessories

- All Electrical accessories such as lighting, convenience outlet, switch and wirings shall be removed.
- Existing electrical circuits shall be revamp, instead a new circuit for lighting and convenience outlet shall be made.
- A new Panelboard should be provided if necessary.

♣ Removal of existing floortiles

- The entire floortiles shall be removed including its tile setting.
- Floor and Wall tiles of each toilet shall also be removed.

♣ Removal and replacement of damaged roofsheets

- 15 longspan roofsheets (9 meters long) shall be replaced.
- Two sets of existing inside gutter shall also be replaced.

♣ Excavation Works

- Excavation works covers only for the new wall footing.

♣ Masonry Works

- 6 inch thick CHB for exterior wall, 4 inches on the interior.
- 12mm bar reinforcement for new concrete walls.

♣ Cement Plastering

- $\frac{3}{4}$ inch minimum thickness of plaster.
- A mortar of 1:2 cement ratio is required for plastering
- Skimcoat application be used to smoothen surface of new walls.

♣ Doors

D1 (2 sets)- 6mm thick glass door, double swing on powder coated aluminum frame.

D2 (4 sets)- 6mm thick Marine plywood hollowcore flush door (double

swing) with viewing panel and stainless kickplate on both sides, size 120cm x 210cm.

D3 (8 sets) - 6mm thick Marine plywood hollowcore flush door with viewing panel, size 80cm x 210cm

D4 (6 sets) - Pre-fabricated veneer finish flush door. Size 80cm x 210cm.

D5 (1 set) - 6mm thick Marine plywood hollowcore flush door with stainless kickplate on both sides. Size 100cm x 210cm.

D6 (8 sets) - PVC door with louver panel. Size 70cm x 210cm.

D7 (2 sets) - 6mm thick Marine plywood flush door, waterproof painted with wooden jamb and heavy duty lockset. Size 70cm x 210cm.

D8 (2 sets) - Pre-fabricated solid door on polyurethane finish. Size 80cm x 210cm.

D9 (3 sets) - 6mm thick Marine plywood flush door. Size 80cm x 210cm.

D10 (2 sets) - 6mm thick glass door in powder coated aluminum frame. Size 80cm x 210cm.

D11 (2 sets) - 6mm thick sliding glass door on powder coated aluminum frame. Size 70cm x 210cm

♣ Aluminum Framed Windows

- Fixed window with 6mm thick dark gray glass with heavy tint on analok aluminum frame on the following areas:

- Operating Room 1

- Operating Room 2

- Sliding windows with 6mm thick dark gray glass on analok aluminum frame on the rest of the areas.

♣ Granite Tiles

- Use granite tiles 60cm x 60cm on the entire OR Building.

- For restrooms, use non-slip granite or decorative tiles on floor and glazed tiles for wall. Wall tiles shall be laid from floorline up to the ceiling line.

♣ Ceiling Works

- Spandrel type ceiling on the Lounge area.

- Use gypsum board 8mm thick on metal frames for the rest of the areas.

- Tray Ceiling design using gypsum board on Anesthesia Office.

♣ Plumbing

- Heavy duty type Watercloset with lavatory with complete accessories

- Towel rod

- Soap holder

- Toilet paper holder
- Facial Mirror 60cm x 45cm
- Sewerline pipes - Series 1000 thick sewerline pipes
- PPR pipes for waterline
- Faucet - brand FION, zinc alloy
- Floordrain - 150mm x 150mm, brand FION, stainless steel, thickness 2 mm
- Wall mounted stainless faucet on all sink.
- Use sensor type faucets on Scrub up area.

♣ Electrical

- LED lighting accessories
- use THHN Wires
- All convenience outlet shall be replaced with a new two gang three prong outlet.
- All switch shall also be replaced with a new one.
- Three phase wiring
- THW/THWN Wires for service drop
- Provide 6 sets emergency light
- Aircondition units window type on the following areas:
- Surgical ICU - 1.5 hp one set (install existing 1 set 2 hp from lounge area)
- CSSR - 1.5 hp one set
- Pre Operation room - 1 hp one set
- Female dressing room - 1 hp one set
- Male Dressing room - 1 hp one set
- Lounge - 1 hp one set
- Provide exhaust fan on all restrooms.
- Provide 2 sets Orbit Fan on Family waiting area, one set on staff dressing room.
- Provide Smoke Detector on selected areas.
- Provide 2 sets fire alarm.
- Re-installation of intercom and paging speakers shall also be covered.

♣ Concreting of Walkway

- 75mm thick concrete pavement reinforced with 10mm bars spaced at every 30cm.

♣ Improvement of Water Supply

- Install $\frac{3}{4}$ hp shallow pump with 21 gals pressure tank for the water supply of the building.
- Install Chlorinator pump with injector fittings.

♣ Repair of leak on concrete gutter

- A waterproofing compound in liquid form shall be painted on the entire concrete gutter.
- The tip of each PVC downspout shall be applied with an epoxy to prevent leak going to outside ceiling.

♣ Specialty Works

⌘ Stainless Scrub-up Area

- The entire Scrub-up Area shall be made up of stainless steel 1mm thick, folded through a bending machine before installed in place. Lapping of sheets shall be done by heating using stainless rod. Grinding shall follow for each lapped portions.

⌘ Movable Lead Sheet Panel

- The panel shall be made up of aluminum frame, with lead sheet sandwiched on each aluminum sheet with four pieces wheelcaster.

♣ Painting

- Use Skimcoat to smoothen new concrete walls.
- A tile cast will be used on existing concrete walls.
- Use Ready mixed elastomeric paint for topcoat on concrete walls (Semi-gloss finish).
- Fine textured finish on ceiling.
- Includes painting on wooden doors, jambs and fabricated furnitures.

♣ Furnitures and Furnishings

- Furnish Nurse Station counter two sets
- Furnish Open shelves/cabinet on Satellite Pharmacy
- Furnish locker cabinet on Staff Dressing room
- Furnish cabinet/shelves on CSSR room
- Provide cabinet on Male Dressing Room
- Provide cabinet on female Dressing Room
- Provide Gangchair on Family waiting Area
- Provide Dining table set with Sofa on Lounge Area
- Provide two sets table on Anesthesia Office

2A. Special Conditions

- Additional works desired by the contractor shall be considered if no additional payment or variation order is requested by the contractor.
- The specified material/brand indicates the minimum quality requirement and does not deprived the contractor of providing an equivalent or of better quality material as approved by the procuring entity.
- Work preparations necessary for the second floor expansion such as

concreting of second floor slab, dowel for column and CHB, and plumbing preparation shall be included on the scope of works of the contractor

d. Change orders resulting from design errors, omissions or non-conformance with the performance specifications and parameters and the contract documents by the contractor shall be implemented by the contractor at no additional cost to DEVMH.

e. The contractor shall be held liable for design and structural defects and/or failure of the completed project within the warranty period of fifteen (15) years for permanent structures/buildings as specified in Section 62.2.2 of the Revised IRR-A (RA 9184).

f. Any errors, omissions, inconsistencies, inadequacies or failure submitted by the contractor that do not comply with the requirements shall be rectified, resubmitted and reviewed at the contractor's cost.

2B. Project Requirements

a. Design of the proposed OR Building Renovation showing the perspective of the building and the interior perspective.

b. Complete sheet of architectural, structural, plumbing, and electrical plans of the building with each sheet approved by a licensed professional.

c. Detailed estimates, bill of quantities and material specifications.

d. Temporary facilities and facilities for the Engineer

e. Submit Construction Schedule.

f. Submit Health and Safety program for the Construction phase.

g. Project billboard showing relevant information and perspective of the building.

h. Manpower requirements during the construction phase will include a full time Civil Engineer (with a min. of 5 years of field experience.

i. Wearing of ID of all workers.

IV. PROJECT DURATION

♣ A period of fifteen days will be given to the winning contractor to prepare and complete the details of each project classified under the **design and build** scheme. The submitted details will be reviewed by the hospital in accordance with the DOH requirements and necessary corrections will be discussed before finalization.

♣ The Approved Period for construction is Two Hundred Forty (240) calendar days starting ten (10) calendar days from the receipt by the

contractor of the Notice to Proceed. The start date for the design development shall be ten (10) calendar days from the receipt of the Notice to Proceed.

----- Nothing follows -----

Prepared by: Approved by:

ENGR. EVANGEL R. DELIMA MARIA ESPERANZA A. BAYONAS, MD
Engineer II OIC - Chief of Hospital

Pre-bid Conference

Date	Time	Venue
16-Jan-2017	2:00 PM	Conference Room, DON EMILIO DEL VALLE MEMORIAL HOSPITAL

Created by	Doreen A Lugo
Date Created	06-Jan-2017