



Republic of the Philippines  
Center for Health Development No.2  
**REGION II TRAUMA AND MEDICAL CENTER**  
Bayombong, Nueva Vizcaya

**SCOPE OF WORKS / TECHNICAL SPECIFICATIONS**

Project Title	<b>Construction of Roofing at the OPD Building Entrance</b>
Location	REGION II TRAUMA AND MEDICAL CENTER
Source of Fund	Hospital Income
Appropriation	Php 1,135,217.09
Proposed Budget for the Contract	Php 1,135,217.09
Project Duration	60 Calendar Days
Mode of Implementation	By Contract
Project Description	(a) Project Manager (b) Project Engineer, (c) Construction Foreman, (d) Skilled Worker: Carpenter, Mason, Welder, Painter, Electrician, Tinsmith, (e) Helper, (f) Electrical Engineer, (g) Safety Officer and (h) Plumber
Equipment Requirements:	(a) One-Bagger Mixer, (b) Welding Machine, (c) Cutting Machine/Cut-off Wheel, (d) Electric Hand Drill, (e) Portable Breaker, (f) Plate Compactor, (g) Concrete Vibrator (h) Service Truck

**Scope of Work**

Item	Description of Work	Unit	Qty	Specification
I	<b>GENERAL REQUIREMENTS</b> <ul style="list-style-type: none"> <li>Mobilization/Demobilization</li> <li>Temporary/Facilities, Water and Electric Consumption, Safety and Health Program</li> <li>Project Billboard</li> <li>Furnishing of Materials, Labor, and Equipment</li> </ul>	lot	1.00	<ul style="list-style-type: none"> <li>Mobilization/demobilization of equipment, material, manpower and temporary facilities to the site including clearing of all waste or debris generated during the entire construction duration.</li> <li>Construction of Site Office and other temporary facilities.</li> <li>Observe the use of good source of potable water, and source of electricity for the entire duration of the project.</li> <li>The contractor shall, at his own expense, furnish his workers with protective equipment for eyes, face, hands and feet, lifeline, safety belt/harness, protective shields and barriers whenever necessary by reason of the hazardous work process or environment, chemical or radiological or other mechanical irritants of hazards capable of causing injury or impairment in the function of any part of the body through absorption, inhalation or physical agent</li> <li>All Personal Protective Equipment and Devices shall be in accordance with the requirement of the Occupational Safety and Health Standards (OSHS) and should pass the test conducted and/or standards sets by the Occupational Safety and Health Center (OSHC).</li> <li>Billboard shall be installed prior to all items programmed in the project.</li> <li>Contents of billboard shall be as indicated under COA Circular No. 2013-004</li> <li>Billboard shall be installed in a safe &amp; visible location near or within the starting point of the project or as directed by the R2TMC Engineer-in-charge of the project.</li> <li>The construction shall conform to all the requirements of the National Building Code, Department of Health, as well as the local rules and regulations of the Municipality of Bayombong, Nueva Vizcaya.</li> </ul>
II	<b>EARTHWORKS (EXCAVATION, BACKFILLING, LEVELLING, GRAVEL BEDDING) AND PAVEMENT DEMOLITION</b> <ul style="list-style-type: none"> <li>Excavations using manual labor</li> <li>Leveling and shaping of subgrade using manual labor.</li> <li>Compaction of subgrade using portable compactor.</li> <li>Furnishing of Aggregates Base Coarse, Labor and Equipment</li> <li>Placing and compacting of aggregates base coarse materials for slab on grade using portable compactor</li> <li>Backfilling to suit subgrade level.</li> <li>Site Clearing</li> <li>Furnishing of Materials and Labor</li> </ul>	cu.m.	11.77	<ul style="list-style-type: none"> <li>All excavations shall be made to grade as indicated in the drawings. Where the building site is covered with any kind of fill, the excavation for footings should be made deeper until the stratum for safe bearing capacity of the soil is reached.</li> <li>Utilize suitable cut materials in addition to furnished materials.</li> <li>Selected fill materials shall consist of pit run gravel, disintegrated rock, sand and or other similar materials or as directed by the R2TMC Engineer-in-charge of the project. The materials shall not contain more than 35% passing the No. 200 sieve and fraction of the material passing the No. 40 sieve shall have a liquid limit not greater than 35 and plasticity index not greater than 12.</li> <li>Source of aggregates: Magat Gravel Pit or as directed by the R2TMC Engineer-in-charge of the project.</li> </ul>
III	<b>FORMWORKS AND SCAFFOLDINGS</b> <ul style="list-style-type: none"> <li>Furnishing of Materials, Labor, and Equipment</li> </ul>	lot	1.00	<ul style="list-style-type: none"> <li>Forms and scaffoldings shall consist of form phenolic board and good lumber including common wire nails. All material shall be new and recycled materials shall not be allowed.</li> <li>All forms for concrete works shall be properly braced or connected together so as to maintain the correct position and shapes of the concrete members. Forms shall be constructed sufficiently tight to prevent bulging and seepage of water.</li> <li>Forms shall not be removed until the concrete has attained sufficient strength to support its own weight and any loads that may be placed on it.</li> <li>Rental of scaffoldings may include G.I. pipes, swivel clamps, and steel platforms</li> </ul>
IV	<b>CONCRETE WORKS</b> <ul style="list-style-type: none"> <li>Furnishing of Materials, Labor, and Equipment</li> </ul>	cu.m.	7.94	<ul style="list-style-type: none"> <li>All concrete works shall be done in accordance with the standard specifications for the plain and reinforced concrete as adopted by the Government or as directed by the R2TMC Engineer-in-charge of the Project.</li> <li>40kgs/bag Portland cement shall be used for concrete.</li> <li>Concrete shall be well compacted after placing on its final position.</li> <li>Dimensions and other details shall be based on the issued plans and drawings.</li> </ul>

				<ul style="list-style-type: none"> <li>The coarse aggregates for concrete shall consist of round or crushed rock of durable and strong qualities, or clean and hard gravel.</li> <li>Sand shall be washed river sand, well screened, clean, and free from loam, silt and other impurities.</li> <li>Source of aggregates: Magat Gravel Pit or as directed by the R2TMC Engineer-in-charge of the project.</li> <li>Fine and coarse aggregates shall pass 3/8" and 2" sieve respectively using grading "A".</li> <li>Pouring of concrete for all reinforced concrete works must only be done upon the approval and with direct supervision of the R2TMC Engineer-in-charge of the project.</li> <li>Concrete Pouring of Reinforced footing foundation and columns</li> </ul>
V	<b>REINFORCING STEEL BARS</b> <ul style="list-style-type: none"> <li>Furnishing of Materials, Labor, and Equipment</li> </ul>	lot	1.00	<ul style="list-style-type: none"> <li>Reinforcing Steel Bars shall be new, corrugated and shall be grade 40</li> <li>Reinforcing Steel Bars shall be laid according to drawings and plans</li> <li>All steel reinforcing bars shall be done in accordance with standard specification adopted by the Governmnet or as directed by the R2TMC Engineer incharge of the Project.</li> <li>All steel reinforcing steel bars to be used in this construction shall consist of round deformed bars with lugs or projections on their sides to provide a greater bond between the concrete and steel.</li> <li>The steel reinforcing bars indicated for footing, columns, and other concrete members shall conform to the number, size and spacing as indicated in the drawings or schedule of steel reinforcedments.</li> <li>Anchorage, lapping and concrete cover for reinforce steel bars shall be under the approval of the the R2TMC Engineer- in- Charge of the Project.</li> <li>No metal reinforcement shall be installed in place unless it is free from rust, scale or other coatings, which will destroy or reduce the bond with concrete.</li> </ul>
VI	<b>PAINTING WORKS</b> <ul style="list-style-type: none"> <li>Furnishing of Materials, Labor, and Equipment</li> </ul>	sq.m.	43.48	<ul style="list-style-type: none"> <li>Surfaces must be clean and free from dirt, oil, grease, dust and any other impurities that will affect the quality of the paint.</li> <li>Concrete neutralizer shall be first grade quality concentrate diluted with clean water and applied as surface conditioner of new interior and exterior masonry walls and other concrete surfaces thus improving paint adhesion and durability.</li> <li>All exterior concrete surfaces must be finished with acrylic odourless elastomeic waterbased paint</li> <li>All concrete/masonry surfaces must apply one (1) coat of acrylic concrete primer and sealer, repair surface imperfections with water based putty, spot prime puttied areas with acrylic concrete primer and sealer, and two (2) coats of paint for top coat (acrylic odourless elastomeric paint for exterior. Allow 2 hours drying time in between coats.</li> <li>Metal surfaces must apply two (2) coats of metal primer paint.</li> <li>Use the same brand of paint from start to finish for a good paint body.</li> <li>Color and pattern shall be specified in the drawings or as approved by the R2TMC Engineer-in-charge of the Project.</li> </ul>
VII	<b>ROOFING WORKS</b>			
(a)	<b>Steel Truss</b> <ul style="list-style-type: none"> <li>Furnishing of Materials, Labor, and Equipment</li> </ul>	lot	1.00	<ul style="list-style-type: none"> <li>All materials and workmanship shall conform to the latest applicable standards or specifications. All works shall conform to the best practice prevailing in the various trades.</li> <li>The contractor shall examine the drawings and shall notify the R2TMC Engineer-in-charge of the project of any discrepancies he may find before proceeding with the work or during construction.</li> <li>Structural steel shall conform to American Society of Testing Materials (ASTM). Electrodes for welding shall conform to the latest code requirements of the American Welding Society (AWS).</li> <li>Surfaces to be welded shall be free from loose scale, slag, rust, grease, paint and any other foreign material.</li> <li>Details for steel works shall be based on the issued plans and drawings</li> </ul>
(b)	<b>Roofing Sheet</b> <ul style="list-style-type: none"> <li>Furnishing of Materials, Labor, and Equipment</li> </ul>	sq.m.	250.90	<ul style="list-style-type: none"> <li>All pre-painted metal sheet and roofing accessories shall be oven baked painted and overall thickness with protective coats of 0.50mm, true to profiles indicated on the Plans or otherwise as directed by the R2TMC Engineer-in-charge of the project.</li> <li>Pre-painted rolling sheets shall be fabricated from cold rolled galvanized iron sheets specially tempered steel for extra strength and durability.</li> <li>Design and color shall be subject to the approval of the R2TMC Engineer-in-charge</li> <li>Details of roofing shall be based on the issued drawings</li> <li>Use a 0.5mm thk Pre Painted Pre Fabricated 13.1m long G.I. Sheet, Rib Type, Pre-bended at R=50.5m</li> <li>Provide lapping of atleast 2 feet at the center and 1 foot along long span</li> <li>Provide 10mm thick double sided insulation, laid with 1" x 1" x 4" Galvanized Screen and #16 G.I. Tie wire</li> <li>0.5mm thick Perforated Metal Sheet shall be used to cover the truss exposed at the front, design shall be subject to the R2TMC Engineer-in-charge.</li> </ul>
VIII	<b>ELECTRICAL WORKS</b> <ul style="list-style-type: none"> <li>Furnishing of Materials, Hardware, Tools, and Labor</li> </ul>	lot	1.00	<ul style="list-style-type: none"> <li>All works shall be done under the direct supervision of an Electrical Engineer and in strict accordance with these specifications and of the methods as prescribed by the latest edition of the Philippine Electrical Code.</li> <li>All items not specifically mentioned in the specifications as noted on the drawing but which are obviously necessary to make a complete working installation shall be included.</li> <li>All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and</li> </ul>

IX	<b>PLUMBING WORKS</b> <ul style="list-style-type: none"> <li>Furnishing of Materials, Hardware, Tools, and Labor</li> </ul>	lot	1.00	<p>bearing the Philippine Standard Agency (PSA) mark unless specified or indicated otherwise.</p> <ul style="list-style-type: none"> <li>All materials to be used shall conform to the Bureau of Product Standard (BPS) Specifications.</li> <li>Upon completion of the electrical construction work, the contractor shall provide all test equipment and personnel and to submit written copies of all test results.</li> </ul> <ul style="list-style-type: none"> <li>Use 3"Ø uPVC pipe, series 1000 for the rainwater pipe</li> <li>Refer to the drawings for the details of the rainwater pipe</li> </ul> <p><b>General Note:</b></p> <ul style="list-style-type: none"> <li>Any discrepancies within the issued drawings/plans and specifications, the actual site condition and actual construction shall be conferred with the R2TMC Engineers and no execution of work shall be done without their consent and final approval.</li> <li>All materials and workmanship shall conform to the latest applicable standards or specifications. All works shall conform to the best practice prevailing in the various trades.</li> <li>All construction and workmanship shall be subject to inspection, examination and testing by the R2TMC Engineer-in-charge of the project.</li> </ul> <p>The R2TMC Engineer-in-charge of the project shall have the right to reject defective materials and workmanship or require its correction.</p>
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Submitted by:

Name of the Representative of the Bidder: \_\_\_\_\_

Position: \_\_\_\_\_

Signature of the Bidder: \_\_\_\_\_

Date: \_\_\_\_\_