



REQUEST FOR QUOTATION

RFQ No. 141-2026

Date: March 26, 2026

The **TARLAC STATE UNIVERSITY (TSU)**, through its Bids and Awards Committee (BAC), intends to procure **Labor and Materials for the Construction of CHED Marker with Embankment and Landscaping Works for Community Sports and Wellness Center** with an Approved Budget for the Contract of **Six Hundred Forty-Six Thousand Two Hundred FortySeven Pesos and Seventy-Eight Centavos (PhP 646,247.78)** through **Small Value Procurement** pursuant to Section 34 of the Implementing Rules and Regulations of Republic Act No. 12009.

Please submit your duly signed quotation addressed to the Bids and Awards Committee (BAC) Chairperson and to the given address below, on or before **1:00PM of 10 April 2026**, subject to compliance with the Terms and Conditions provided on this Request for Quotation (RFQ):

WILMARK J. RAMOS

Chairperson, Bids and Awards Committee-Goods and Services
 Tarlac State University
 Romulo Boulevard, San Vicente Tarlac City
 Telephone No. (045) 606-8157
 Email: tsucanvassing@gmail.com

Interested supplier/service provider shall also submit a copy of the following documents along with the quotation on or before the above specified deadline for submission of quotation:

- Required Documents:
- Valid Business/Mayor's Permit
 - PhilGEPS Registration Number
 - Tax Clearance (per RR017-2024 EO398 Series 2005, Updated Tax Clearance
 - Notarized Omnibus Sworn Statement, if applicable
 - Latest Income/Business Tax Return, if applicable
 - Others, _____

The Head of the Procuring Entity (HoPE) of the TSU reserves the right to reject any and all quotations, declare a failure of procurement, or not award the contract in accordance with Section 70 of the IRR of RA No. 12009.

For any clarification, you may contact the BAC Secretariat at (045) 606-8157/606-8162 or send email to tsucanvassing@gmail.com.

By the Authority of the Bids and Awards Committee:


MENCHIE D. ABELLAR
 Head, BAC Secretariat/Procurement Unit

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INSTRUCTIONS:

Note: Failure to follow these instructions will disqualify your entire quotation.

1. Do not alter the contents of this form in any way.
2. The use of this RFQ is highly encouraged to minimize errors or omissions of the required mandatory provisions.
3. The quotation shall contain all the mandatory requirements/provisions including manifestation of the agreement with the Terms and Conditions below.
4. In case a prospective supplier/service provider submits a filled-out RFQ with a supporting document (i.e., a price quotation in a different format), both documents shall be considered unless there will be discrepancies. In this case, provisions in the RFQ shall prevail.
5. **All technical specifications must be complied with.** Failure to comply with the mandatory requirements shall render the quotation ineligible/disqualified.
6. Quotations may be submitted through electronic mail at tsucanvassing@gmail.com.
7. Quotations, including documentary requirements, received after the deadline shall not be accepted. For quotations submitted via electronic mail, the date and time of receipt indicated in the e-mail shall be considered.

TERMS AND CONDITIONS:

1. Bidders shall provide correct and accurate information required in this form.
2. The following shall be observed in accomplishing the Quotation/Proposal Form:



Minimum Technical Specifications	Quantity	Offered Technical Specification/Service	Statement of Compliance (Comply or Not Comply)
			YES or NO
<ol style="list-style-type: none"> 1. State the Brand/Model offered and/or alternate offer if answered "NO" in the Statement of Compliance; 2. Check if compliant with the specifications or not. 			

3. Detailed literature or brochure of the offer, as may be applicable, shall be submitted to support statement of compliance of the technical specifications
4. Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by you or any of your duly authorized representative/s.
5. Price quotation/s must be valid for a period of **FORTY-FIVE (45) calendar days** from the deadline of submission.
6. Price quotation/s, to be denominated in Philippine peso, shall include all taxes, duties, and/or levies payable.
7. Quotations exceeding the Approved Budget for the Contract shall be rejected.
8. In case of two or more bidders are determined to have submitted the Lowest Calculated Quotation/Lowest Calculated and Responsive Quotation, the TSU shall adopt and employ "draw lots" as the tie- breaking method to finally determine the single winning provider.
9. Award of contract shall be made to the lowest quotation which complies with the technical specifications, requirements and other terms and conditions stated herein.
10. The item/s shall be delivered according to the accepted offer of the bidder.
11. Item/s delivered shall be inspected on the scheduled date and time of the TSU. The delivery of the item/s shall be acknowledged upon the delivery to confirm compliance with the technical specifications.
12. Payment shall be made after delivery and upon the submission of the required supporting documents.
13. Liquidated damages equivalent to one-tenth of one percent (0.1%) of the value of the goods not delivered within the prescribed delivery period shall be imposed per day of delay. TSU may terminate the contract once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, without prejudice to other courses of action and remedies open to it.
14. The Procuring Entity may cancel or terminate the contract at any time in accordance with the grounds provided under RA No. 12009 and its Implementing Rules and Regulations.

15. The RFQ, Purchase Order (PO), and other related documents for the above-stated procurement projects shall be deemed to form part of the contract.

Date: _____

The Bids and Awards Committee

Tarlac State University
San Vicente, Tarlac City

Dear Sir/Madam:

After having carefully read and accepted the Instructions and Terms and Conditions, I/we submit our quotation/s for the item/s as follows:

Minimum Technical Specifications	Quantity	Offered Technical Specifications	Statement of Compliance (Comply or Not Comply)
Note: Non-compliance with the minimum required specifications shall be grounds for disqualification			
Procurement of Labor and Materials for the Construction of CHED Marker with Embankment and Landscaping Works for Community Sports and Wellness Center			
<p>1 Project: Construction of CHED Marker with Embankment and Landscaping Works for Community Sports and Wellness Center. Location: San Isidro Campus, Tarlac State University Duration: 30 Calendar Days</p> <p><i>The winning contractor shall post-Performance: Security in favor of TSU upon receipt of NOA : see Section 68 of IRR of RA 12009).</i></p> <p>TECHNICAL SPECIFICATIONS SECTION 1 – GENERAL CONDITIONS AND REQUIREMENTS</p> <p>1.1 SCOPE OF WORK</p> <p>1.1.1 The project shall comprise the CONSTRUCTION OF CHED MARKER WITH EMBANKMENT AND LANDSCAPING WORKS FOR THE COMMUNITY SPORTS AND WELLNESS CENTER. It shall include the supervision and furnishing of labor, supplies, materials, equipment, and other incidental services that are essential to properly implement and produce the desired work output.</p> <p>1.1.2 The contractor shall be responsible for conducting a comprehensive site survey, which includes staking, verification of boundaries, and assessment of existing topography. This survey must ensure the accuracy of all site dimensions, elevations, and conditions prior to the commencement of construction activities.</p> <p>1.2 CONTRACT DRAWINGS</p> <p>1.2.1 Details and extent of work are shown in the Drawings accompanying these specifications.</p> <p>1.2.2 Sketches and other details not shown in the Drawings shall be furnished by the</p>	1 LOT		

Architect/Engineer during the phase of construction.

1.3 PARTS OF THE SPECIFICATIONS

1.3.1 These Specifications include the following parts whose applicable provisions are binding on this contract:

SECTION DESCRIPTION

- 1 GENERAL CONDITION AND REQUIREMENTS
- 2 EARTHWORKS
- 3 STRUCTURAL WORKS
- 4 ARCHITECTURAL WORKS
- 5 LANDSCAPING WORKS
- 6 ELECTRICAL WORKS

1.4 WORKMANSHIP

1.4.1 All operations required under all parts of the specifications shall be undertaken in a neat, workmanlike manner. Only skilled personnel with sufficient experience in similar operations shall be allowed to undertake the same.

1.5 INSPECTION OF SITE

1.5.1 The Bid may be deemed to have been based on data regarding physical conditions at the sites. The Contractor acknowledges and warrants that they inspected and examined the site and its surroundings and has satisfied by submitting their Tender as to the nature of work and materials necessary for the completion of the works, and the means of access to the sites, the accommodation they may require and that has obtained all necessary information as to risks, contingencies and other circumstances which may have influenced or affected their Tender. No increase in cost or extension of time will be considered for failure to inspect and examine the site condition.

1.6 ESTABLISHED FINISH FLOOR LINE

1.16.1 The Contractor shall inspect and examine the individual site conditions. No increase in cost or extension of time will be considered for failure to examine site conditions. Control points and elevations will be furnished by the TSU and the Contractor shall be responsible for all other surveys and measurements required to accurately complete the work. Unless otherwise indicated by the TSU.

1.7 CONFLICT BETWEEN PLANS AND SPECIFICATIONS

1.7.1 The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence

- 1.7.1.1 the Contract and its attachments (Approved Budget for the Contract, Terms of Reference, etc.)
- 1.7.1.2 the Specific Conditions of the Contract
- 1.7.1.3 the General Conditions of the Contract
- 1.7.1.4 the Technical Specifications
- 1.7.1.5 the Drawings
- 1.7.1.6 the Project Schedule and any other pertinent documents

1.7.2 Any omissions in the specifications regarding necessary work or works for the project's completion shall be

	<p>executed by the Contractor as if such work were explicitly detailed in the drawings, without incurring additional costs. All such work shall be performed in accordance with standard practices, adhering to the requisite quality standards for both materials and workmanship.</p> <p>1.7.3 Should there be any ambiguity or conflict between indication on drawings and provisions in specifications, the same shall be referred to the Engineer/Architect of TSU for resolution.</p> <p>1.8 APPROVAL</p> <p>1.8.1 The Contractor shall submit for the Engineer/Architect's approval, the complete list of manufacturer's names of all equipment and materials they propose to use for the project prior to actual installation on site.</p> <p>1.9 REJECTIONS</p> <p>1.9.1 All materials and workmanship must strictly comply with the specifications outlined in this contract. Any materials or workmanship failing to meet these standards may be rejected at any stage during project execution. The Contractor will receive formal documentation of any rejection issued by the authorized technical representative of TSU. Any completed work found to be non-compliant with the quality and specifications required by the project plans shall be promptly dismantled, removed, and reconstructed or otherwise corrected to meet all contractual and technical requirements.</p> <p>1.10 VARIATIONS</p> <p>1.10.1 The Engineer/Architect reserves the authority to implement minor adjustments in the work details or materials as deemed necessary. Such modifications may involve revisions to the shapes or dimensions of project elements. Any changes that result in additional costs to the Contractor will be subject to a corresponding adjustment of the contract price, as stipulated in the terms of the agreement.</p> <p>1.11 AS-BUILT DRAWING AND PICTURES</p> <p>1.11.1 The Contractor with the approval of the Engineer/Architect shall mark down all the revisions, omissions and/or additions to the various works on two sets of drawing plans as the construction progress. One set of the plans as marked shall be submitted to the Engineer/Architect after the completion of work.</p> <p>1.11.2 The Contractor shall submit to the TSU As-Built Drawings incorporating all changes made and noted in the marked Drawings retained by him/her. The As-Built Drawings shall be prepared on reproducible form and submitted together with at least three (3) copies of A3 (11.7 in. X 16.6 in.)</p> <p>1.11.3 The Contractor shall submit to TSU pictures of the site before, during, and after construction in reproducible and printed forms.</p> <p>1.12 MOBILIZATION AND DEMOBILIZATION</p> <p>1.12.1 Upon receipt and acceptance of the Notice to Proceed, the Contractor shall</p>			
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	<p>immediately mobilize the workforce, equipment, and materials, and take possession and secure the project site.</p> <p>1.12.2 Upon final completion of the work, the Contractor shall commence the demobilization of the workforce, equipment, and materials and turn over the project site to TSU.</p> <p>1.13 BILLBOARD</p> <p>1.13.1 Upon possession of the project site, the Contractor shall immediately erect the Billboard, showing the relevant details of the project, at the location and position designated by the TSU and of the dimensions and materials approved by the TSU.</p> <p>1.14 TEMPORARY FACILITIES</p> <p>1.14.1 Upon possession of the project site, the Contractor shall immediately erect temporary facilities such as field office, storage for equipment and materials, portable toilet, electric and water supply connections, etc., at the location designated by, and using only materials and the manner of construction approved by TSU.</p> <p>1.15 CONSTRUCTION OCCUPATIONAL SAFETY AND HEALTH</p> <p>1.15.1 The Contractor shall be responsible in ensuring the safety and health of the personnel assigned at the project site and other parties who may be affected in the implementation of the project.</p> <p>1.15.2 The Contractor shall submit to TSU a copy of the Construction Occupation Safety and Health Program for the project that is duly approved by the Department of Labor and Employment before commencing with the work.</p> <p>1.15.3 The Contractor shall designate a competent and qualified Safety Officer for the whole duration of the project.</p> <p>1.15.4 All personnel assigned to the project are expected to report for work in their proper uniforms, basic safety gears (helmets, boots or shoes), and identification cards (IDs). The uniforms, basic safety gears, and IDs shall be provided by the Contractor at his/her own expense.</p> <p>1.15.5 The Contractor shall establish and implement safety procedures for all relevant jobs, tasks, operations, and proper waste disposal for all assigned personnel.</p> <p>1.15.6 The Contractor shall erect temporary barricades, install early warning and precautionary signs, and provide other safety devices that may be required to keep the job site safe and secured. Use roof sheet or plywood for temporary barricade with standard height and stable framing within the construction site as indicated in the plan: do not use "Blue Sack".</p> <p>1.15.7 The Contractor shall maintain, at the project site, ample supplies of expendable materials for the safety and health of its personnel and other affected parties such as safety tape, first-aid kits, safety gloves, dust masks, etc., the cost of which shall be included in the contract price.</p> <p>1.15.8 The Contractor shall keep a record of all incidents (near-miss or accident) and</p>			
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report the same to the TSU Architect/Engineer.

1.16 CLEARING, HAULING AND DISPOSAL WORKS

- 1.17.1. Clearing, hauling and disposal works shall include the removal and repair of all affected areas needed to complete the project.
- 1.17.2. The Contractor shall exercise all care to protect and maintain adjacent properties, trees, materials and such other facilities such as conduits, drains, sewers, pipes and other wires that are to remain in the property and shall restore without cost to TSU all property that may be damaged for whatever reason in the execution of the work.
- 1.17.3. All unusable materials and debris resulting from the performance of work shall be removed from the premises and disposed of in the location and manner that shall be approved by TSU. All materials that can be reused shall be hauled and arranged properly by the Contractor before turning them over to TSU.

SECTION 2 - EARTHWORKS

2.1. CLEARING AND GRUBBING

- 2.1.1. All surface objects and all trees, stumps and roots and other protruding obstructions, no designated to remain, shall be cleared and/or grubbed, including mowed as required. Except as provided below:
 - 2.1.1.1 Removal of undisturbed stumps and roots and nonperishable solid objects with minimum depth of one (1) meter below subgrade or slope of embankment will not be required.
 - 2.1.1.2 For areas outside the grading limits of cut and embankment areas, stumps and nonperishable solid objects shall be cut off not more than 150mm above the ground line or low water level.
 - 2.1.1.3 In areas to be rounded at the top of cut slopes, stumps shall be cut off flush with or below the surface of the final slope line.
 - 2.1.1.4 Grubbing of pits channel changes and ditches will be required only to the depth necessitated by the proposed excavation.
 - 2.1.1.5 In areas covered by cogon/talahib, wild grass and other vegetations, top soil shall be cut to a maximum depth of of 150mm below the original ground surface.

2.2. EMBANKMENT

- 2.2.1. Embankment and backfills shall contain no muck peat, sod, roots and other deleterious materials.
- 2.2.2. Embankment shall be placed in horizontal layers not exceeding 300 mm.
- 2.2.3. Compaction shall continue until a uniform density of not less than 95% of the maximum dry density is obtained.

2.3. SUBGRADE PREPARATION

	<p>2.3.1. This item shall consist of the preparation of the sub grade for the support of overlying structural layers, it shall extend to full width of the roadway.</p> <p>2.3.2. The maximum compacted thickness of any layer shall not exceed 300 mm.</p> <p>2.4. AGGREGATE SUBBASE COURSE</p> <p>2.4.1. Aggregate for subbase shall consist of hard, durable particles or fragments of crushed stone, crushed slag, or crushed or natural gravel and filler of natural or crushed or crushed sand or other finely mineral matter.</p> <p>2.6 PORTLAND CEMENT CONCRETE SIDEWALK</p> <p>2.6.1 This item shall consist of pavement of Portland cement concrete, with or without reinforcement, constructed on the prepared base in accordance with the specification and in conformity with lines, grades, thickness and typical cross-section shown in plans.</p> <p>SECTION 3 – STRUCTURAL WORKS</p> <p>3.1. SCOPE OF WORK</p> <p>3.1.1. This project shall consist of structural works and shall include, where applicable, the provision and installation of steel reinforcements, formwork, bracing, and shuttering. It shall include all concreting operations, including placement, vibration, and curing of concrete, as well as testing of steel reinforcement and concrete, to fully execute the works as specified herein and as shown on the drawings.</p> <p>3.1.2. All structural steel work shall be in accordance with AISC Specification for the Fabrication and Erection of Structural Steel, material, and parts necessary to complete each item, through such work not shown or specified shall be included, such as miscellaneous bolts and anchor supports, braces and connections etc.</p> <p>3.2. CONCRETE WORKS</p> <p>3.2.1 Materials</p> <p>3.2.1.1 Concrete Aggregates – shall conform to “Specification for Aggregates” (ASTM G33 latest revision). The maximum size of the aggregates shall not be larger than one-fifth (1/5) of the narrowest dimension between sides of the forms of the member for which the concrete is to be used not larger than three-fourth (3/4) of the minimum clear spacing between individual reinforcing bars and in no case larger than two (2) inches in diameter.</p> <p>3.2.1.2 Reinforcing steel bars shall conform to ASTM Designation A-615-68 specifications for the structural grade. Grade of reinforcing steel bars shall be as follows:</p> <table border="0" data-bbox="228 1839 683 1903"> <tr> <td style="padding-right: 40px;">Diameter</td> <td>Grade</td> </tr> <tr> <td>10 mm Ø and above</td> <td>G40 (276 MPa)</td> </tr> </table> <p>3.2.1.3 Sand and gravel shall be well graded and free from any deleterious materials. The fine aggregate shall be washed sand (vibro) and size of course aggregates must be ¾” crushed gravel. Do not use river sand.</p> <p>3.2.1.6 Plywood, metal, plastic materials or surfaced lumber forms shall be used where it will best give the most advantage in the specific concrete work involved.</p>	Diameter	Grade	10 mm Ø and above	G40 (276 MPa)			
Diameter	Grade							
10 mm Ø and above	G40 (276 MPa)							

3.2.1.7 Unless otherwise ordered, forms and shoring shall not be disturbed and shall remain in place for a minimum period by the following schedule.

Element	Length of Time
Foundation, Shear Walls And columns	2 days
Non-Structural Elements	2 days

3.2.2 Execution

3.2.2.1 Before placing reinforcement and prior to pouring concrete, all loose rust, mill scale, oil, grease, dirt, or other foreign materials that may reduce or destroy the bond between concrete and reinforcement shall be thoroughly removed. This requirement applies to both new reinforcement and any existing dowels or rebars to be integrated into the work. Where necessary, approved chemical rust removers shall be applied to ensure complete removal of rust prior to concreting.

3.2.2.2 Reinforcing steel bars shall be cut, bent, lapped or spliced as recommended by CRSI Handbook and ACI Codes. All lap splices of rebars shall conform to Class B Tension Lap Splice, unless noted otherwise. All hooks end shall be standard hooks. All stirrups/ties shall have 135° seismic hooks, unless noted otherwise. Cross ties shall have standard 90° hook on one end and 135° seismic hook on the other end. Consecutive cross ties with 90° and 135° hook ends shall be alternated.

3.2.2.3 Reinforcing steel bars shall be placed accurately and secured in place by use of concrete or metal supports, spacers or ties to firmly hold them in their proper positions during pouring and setting of concrete.

3.2.2.4 All reinforcing bars shall be cleaned thoroughly of all loose rust, soil or other material prior to concrete pouring. No bars partially embedded in concrete shall be field bent, except permitted by the Engineer/Architect. Bars shall not be welded unless authorized by the Engineer/Architect.

3.2.2.5 Maintain minimum concrete cover to traverse bars as follows:

Element	Concrete Cover
Below Grade- Foundation & Shear Walls	75 mm
Below Grade – Pedestals	75 mm
Above Grade -Shear Walls	20 mm
Slab on Grade	40 mm

3.2.2.6 Testing of reinforcing steel bars shall conform to ASTM designation of specified materials. Samples of materials for testing shall be provided by the Contractor without extra additional cost to TSU. Likewise, the

Contractor shall pay for the cost of testing the samples.

3.2.2.7 All horizontal reinforcements shall be tied to the vertical reinforcement at every intersection with #16 GI tie wire.

3.2.2.8 Pouring of concrete for floor framing must be poured monolithically.

3.2.3 Concrete Proportion and Consistency

3.2.3.1 Classes Of Concrete

3.2.3.1.1 Otherwise indicated in the plans, the minimum 28th days compressive cylinder strength of concrete with corresponding maximum aggregate size and slump shall be as follows:

<u>Element</u>	<u>28th Day Strength</u>
Foundation and Shear Walls	3,000psi
Slab on Grade	2,500psi
Non-Structural Elements	2,500psi

<u>Max. Aggregate Size</u>	<u>Slump</u>
¾ in.	4 in.
¾ in	4 in.
¾ in	4 in.

3.2.4 Measurement

3.2.4.1 The unit of measure shall be the cubic foot. One bag of cement (40 kg) shall be considered as 0.028 cubic meter. Water shall be so measured as to insure the desired quantity of successive batches. Measurement of materials for ready mixed concrete shall conform to standard specifications for ready mixed concrete, ASTM Designation C-94, where applicable.

3.2.5 Mixing of Concrete

3.2.5.1 All concrete shall be machine mixed except in emergencies such as mixer breakdown during pouring operations where it shall be done by hand and shall stop at the first allowed construction joint. The time of mixing after all cement and aggregates are in the mixer drum shall not less than one minute for a mixer of having a capacity of one cubic yard or less; for a mixer of larger capacities, the minimum time shall be increased 15 seconds for each additional cubic yard or fraction thereof or additional capacity. All mixing water shall be introduced in the drum shall rotate at the peripheral speed of about 60.96 meter per minute throughout the mixing period. The entire contents of the mixer drum shall be discharged before recharging. The time elapsing between the introduction of the mixing water to the cement and aggregates and placing of the concrete in final position in forms shall not exceed 45 minutes. The re-tempering of concrete, i.e., mixing with additional cement, aggregate or water shall not be permitted.

3.2.6 Conveying and Placing of Concrete

	<p>3.2.6.1 Water shall be removed from the excavation before concrete is deposited. Any continuous flow of water in the excavation shall be directed through side-drains to a slump or be removed by other approved methods to avoid washing the freshly deposited concrete. Debris shall be removed from the space to be occupied by the concrete and forms shall be thoroughly wetted.</p> <p>3.2.6.2 Concrete shall be conveyed from the mixer to forms as rapidly as practicable, by a method which shall prevent segregation or loss of ingredients. There shall be no free vertical drop or loss of ingredients. There shall be no free vertical drop greater than 1.5 meters. Approval of TSU Engineer/Architect shall be obtained before starting any concrete pouring. Concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and embedded items by depositing the concrete as close as possible to its final position in the forms and consolidating it with the aid of mechanical vibrating and consolidating it with the aid of mechanical vibrating equipment, supplemented by hand spading and tamping. In no case shall vibrators be used to transport concrete inside the forms. Vibrating equipment shall be in the internal type and not be overdone to cause segregation of particles and disturbance of setting concrete but just enough to produce an even heterogeneous distribution of ingredients.</p> <p>3.2.6.3 Dumping concrete into cars or buggies with a free fall or more than three (3) feet will not be permitted. Hardened or partially hardened splashes or accumulations of concrete on forms or reinforcement shall be removed before the work proceeds. In case the rate of pouring is such as to allow splashes or accumulations to harden, concrete shall be placed with a flexible spout attached to a suitable hopper. Spouts and hoppers are provided to maintain the surface of the concrete as nearly level as possible at all times.</p> <p>3.2.6.4 Construction Joints – Concreting shall, whenever possible, be carried out continuously until the section is complete. When concrete operations must be stopped, construction joints shall be provided either horizontally or vertically as directed by the TSU Engineer/Architect and shall be equipped with shear keys or dowels to ensure proper bonding. A suitable bonding agent shall be applied to all construction joint surfaces prior to placing new concrete. All construction joints shall conform to the approved plans or as otherwise approved by the TSU Engineer.</p> <p>3.2.7 Repair of Concrete 3.2.7.1 Imperfections</p>			
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	<p>3.2.7.1.1 Repairs shall be completed within 24 hours after removal of forms.</p> <p>3.2.7.1.2 Voids which appear upon the removal of forms shall be drenched with water and immediately filled with materials of the same composition as that used on the surface and smooth with a wood spatula or float.</p> <p>3.2.7.2 Where present, large bulges and abrupt irregularities that protrude, shall be removed by brushing, hammering and grinding.</p> <p>3.2.7.3 All materials, procedures, and operations used in the repair of concrete shall be approved by the TSU Engineer/Architect.</p> <p>3.2.7.4 The cost of all material, labor, and equipment used in the repair shall be borne by the Contractor.</p> <p>3.2.8 Cement Finish for Concrete Surfaces</p> <p>3.2.8.1 All concrete surfaces shall be given a finish done and applied in accordance with the following provisions.</p> <p>3.2.8.1.1 Immediately after the removal of forms, all projecting wires and bolts, or other devices used for trying forms, shall be cut off at least one-half (1/2) centimeter beneath the finished surface. All holes, voids, depressions and other defects shall be thoroughly wetted and then pointed up the soil with cement mortar putty of the same proportion as the mortar used in the body of the work. All exposed surfaces shall be treated in such a manner as to effectivity elaborate, all lines, projections and marks impressed by the lumber for wood forms, to the general plan of the concrete surface.</p> <p>3.2.8.1.2 Rubbed Finished: Unless otherwise specified, a rubbed finished shall be applied to all exposed concrete surfaces. Concrete surfaces shall be wetted immediately after the forms are removed and then rubbed even and smooth with carborundum brick or other abrasive to a uniform appearance without the application of any cement or another coating before the surface has hardened</p> <p>3.2.9 Slab on Grade</p> <p>3.2.9.1 All concrete shall be of such consistency as to required tamping to bring the water to the surface. Tamping shall be done with the least ten (10) centimeters square-faced tampers.</p> <p>3.2.10 Inspection</p> <p>3.2.10.1 Concrete shall be proportioned, mixed, and placed in the presence of TSU Engineer/Architect, ample notice shall be given before mixing is commenced.</p> <p>3.2.11 Test of Concrete</p> <p>3.2.11.1 Reasonable number of tests on the concrete may be required by the TSU Engineer/Architect during the progress of the work. Not less than four (4) cylindrical specimens shall be made or each test of which at least two (2) shall be reserved for the 28 days test. Samples shall be secured and molded in accordance with "Method of</p>			
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	<p>Sampling Concrete" (ASTM Designation C-172) and Method of Making and Curing Concrete Compression and Designation C-21). The Contractor shall provide the samples to be taken at the place of deposit and as specified by the TSU Engineer/Architect, without cost to TSU. The Contractor shall take care of transporting the samples to the approved testing laboratory without cost to TSU.</p> <table border="0"> <tr> <td>Specimen</td> <td>Day of Testing</td> </tr> <tr> <td>At least 1</td> <td>7th Day</td> </tr> <tr> <td>At least 1</td> <td>14th Day</td> </tr> <tr> <td>At least 2</td> <td>28th Day</td> </tr> </table> <p>3.2.11.2 To conform to the requirements of this Specifications the average strength of test samples representing each class of concrete shall be equal to or greater than the specified strength and not more than the one strength test in 10 shall have an average value less than 90 percent of the specified strength.</p> <p>3.2.12 Failure of Test Samples</p> <p>3.2.12.1 In the case of failure of Test Cylinders to meet the specified strength, the Contractor may at his expense, obtain concrete core samples from the poured, concrete and the compressive strength of the same to be taken by a competent testing authority to determine the conclusive strength and integrity for the concrete poured. Coring shall be done in a manner which shall make possible satisfactory replacement of cored samples. To determine the adequacy of the affected parts, the TSU Engineer shall have the option to order load test on parts of the structure where concrete strength test are below 80% of the strength specified.</p> <p>3.2.12.2 These tests shall be in accordance with ACI recommendations and the cost and shall be borne by the Contractor. Poured concrete with strength less than that required by the specification shall be demolished and provided with an acceptable replacement at the Contractor's expense.</p> <p>3.2.12.3 Should the tests fail to give the required strength, the Engineer TSU shall have the right to order a change in the proportions or in the procedure or curing of the concrete for the rest of the structure.</p> <p>3.3 PORTLAND CEMENT CONCRETE SIDEWALK</p> <p>3.3.1 Scope of Work</p> <p>3.2.1.1 This Item shall consist of pavement of Portland Cement Concrete, with or without reinforcement, constructed on the prepared base in accordance with this Specification and in conformity with lines, grades, thickness and typical cross-section shown on the Plans.</p> <p>3.3.2 Workmanship</p> <p>3.3.2.1 The introduction of minimum values for International Roughness Index (IRI) as part of the basis for acceptance of newly constructed concrete and asphalt road projects requires more accurate process control on the Contractor's part. The Contractor's Quality Control Plan shall include for the Engineer's review and acceptance, a process control flow chart, and a Method Statement covering all activities in the process, describing how the</p>	Specimen	Day of Testing	At least 1	7 th Day	At least 1	14 th Day	At least 2	28 th Day			
Specimen	Day of Testing											
At least 1	7 th Day											
At least 1	14 th Day											
At least 2	28 th Day											

activities will be managed and undertaken to deliver the specified IRI values. International best practice indicates that factors critical to success include:

- a well-chosen concrete mixture
- reasonable grades and alignment to suit the paver
- tight level control or stringline management
- continuous supply of concrete to the paver
- consistent concrete workability
- well-maintained paving equipment
- proper operation of paving equipment
- controlled density of concrete
- a skilled and dedicated team

3.3.3 Preparation of Grade

3.3.3.1 After the subgrade of base has been placed and compacted to the required density, the areas which will support the paving machine and the grade on which the pavement is to be constructed shall be trimmed to the proper elevation by means of a properly designed machine extending the prepared work areas compacted at least 60 cm beyond each edge of the proposed concrete pavement. If loss of density results from the trimming operations, it shall be restored by additional compaction before concrete is placed. If any traffic is allowed to use the prepared subgrade or base, the surface shall be checked and corrected immediately ahead of the placing concrete. The subgrade or base shall be uniformly moist when the concrete is placed.

3.3.4 Curing

3.3.4.1 Immediately after the finishing operations have been completed and concrete has sufficiently set, the entire surface of the newly placed concrete shall be cured. Failure to provide curing compounds or lack of water to adequately take care both of curing and other requirements, shall be cause for immediate suspension of concreting operations. The concrete shall not be left exposed for more the ½ hour between stages of curing or during the curing period. Curing time shall be within 24 hours or when the concrete has achieved sufficient strength.

SECTION 4 – ARCHITECTURAL WORKS

4.1. MASONRY AND PLASTERING WORKS

4.1.1. Scope

4.1.1.1. The work includes the furnishing of all materials, labor, equipment, and performing all the necessary operations in connection with masonry and plastering works.

4.1.2. Masonry and Plastering

4.1.2.1. Mortar cells of CHB shall consist of one (1) part to cement to three (3) parts sand by volume with

	<p>sufficient water. It shall be a workable cement-sand mixture attaining a 28th-day compressive strength of 1500 psi.</p> <p>4.1.2.2. Vertical and horizontal reinforcements shall be provided in masonry. CHB walls shall be reinforced as follows:</p> <p>Thickness – 100mm Horizontal Reinforcement- 10 mm Φ @ 600 mm O.C. Vertical Reinforcement- 10 mm Φ @ 600 mm O.C</p> <p>4.1.1.1. Mortar for plastering shall be proportioned one (1) part cement to three (3) parts sand with sufficient water. Use 50 mm thick cement plastering for exterior walls and 25 mm thick cement plastering for interior walls.</p> <p>4.1.2. Workmanship</p> <p>4.1.2.1. CHBs shall be laid plumbed and leveled accurately. Laid units of blocks shall be wetted before laying another unit or layer. Damaged units shall not be used. Units shall be cut accurately to fit all plumbing ducts, and openings for electrical works; all holes shall be neatly patched.</p> <p>4.1.2.2. Units shall be placed while the mortar is soft and plastic and shall be used within two and a half (2.5) hours of initial mixing. Mortar that has stiffened should not be used. Any unit disturbed to the extent that the initial bond is broken after initial positioning shall be removed and re-laid in fresh mortar. All cells of CHB units shall be fully grouted.</p> <p>4.1.2.3. Where CHB walls adjoin columns, beams, and walls, dowels of the same size as the vertical or horizontal reinforcement shall be provided.</p> <p>4.1.2.4. No construction support shall be attached to the CHB wall except where specifically permitted by TSU.</p> <p>4.2. PAINTING WORKS</p> <p>4.2.1. Scope Of Work</p> <p>4.2.1.1. The Contractor shall furnish all materials, labor, equipment, and services required to complete the entire painting works herein called for. Painting works shall include the repainting of walls, columns, beams, railings, window frames, etc. of the existing building as specified hereinafter and required thereto.</p> <p>4.2.2. Material</p> <p>4.2.2.1. The brand of painting materials to be used shall be approved by TSU.</p> <p>4.2.2.2. All concrete benches and cylindrical base pedestal of the CHED Marker must be painted with semi-gloss latex paint (dark gray).</p> <p>4.2.2.3. All paint materials shall be delivered to the job site in their original containers. with labels and seals unbroken.</p> <p>4.2.2.4. Except for ready-mixed materials in original containers, all mixing shall be done at the job site. No materials are to be reduced or</p>			
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	<p>changed except as specified by the manufacturer of the said materials. The use of white zinc (lithopone) is prohibited.</p> <p>4.2.3. Colors</p> <p>4.2.3.1. All colors of paints and varnishes shall be in accordance with the color scheme approved by TSU.</p> <p>4.2.3.2. Submit samples of the proposed colors for approval. Only colors that have been approved may be used.</p> <p>4.2.3.3. No painting shall commence until color schemes have been approved by the Engineer/Architect.</p> <p>4.2.3.4. Finishes for different portions of the work must be indicated in the Schedule of Specifications.</p> <p>4.2.4. Surface Examination and Preparation</p> <p>4.2.4.1. Before commencement of the work, the Contractor shall examine the surfaces to be applied with paints so as not to compromise the quality and appearance of a painting of finishing work.</p> <p>4.2.4.2. No painting shall be done under conditions that may compromise the quality or appearance of the paint or finish.</p> <p>4.2.4.3. All surfaces to be painted must be cleaned and in proper condition before application.</p> <p>4.2.4.4. Voids, cracks, and all other kinds of defects shall be repaired with proper patching materials and finished flush with the surrounding surfaces.</p> <p>4.2.5. Surface Conditioning</p> <p>4.2.5.1. Apply topcoats on existing concrete and masonry surfaces.</p> <p>4.2.5.2. Patch and seal hairline cracks and uneven areas with approved putty or patching compound. After correcting all defects, apply the finish coats as specified in the Plan, following the approved color scheme.</p> <p>4.2.5.3. Metals shall be clean, dry, and free from mill scale and rust. Remove all grease and oil from surfaces. Wash unprimed galvanized metal with the etching solution and allow it to dry.</p> <p>4.2.5.4. Metal surfaces shall be primed with epoxy primer.</p> <p>4.2.6. Application</p> <p>4.2.6.1. Paints, when applied by brush, shall be non-fluid; and thick enough to lay down an adequate film of wet paint. Brush marks must be smoothed out after the application of paint.</p> <p>4.1.2.3. 4.2.6.2 Paints intended for roller application must be similar to those used for brushing paint. The paint should not be sticky when thinned.</p> <p>4.2.7. Workmanship</p> <p>4.2.7.1. Experienced and skilled craftsmen shall perform all work to ensure finished work of first-class quality, appearance, and durability.</p> <p>4.2.7.2. All paints and other coatings shall be mixed and applied strictly</p>			
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	<p>following the manufacturer's printed instructions.</p> <p>4.2.8 Mixing And Thinning</p> <p>4.2.8.1. At the time of application, paint shall show no sign of deterioration. Paint shall be thoroughly stirred, strained, and kept at a uniform consistency during application.</p> <p>4.2.8.2. When thinning is necessary, this may be done immediately before application following the manufacturer's directions, but not more than 1 pint of suitable thinner per gallon of paint.</p> <p>4.2.8.3. Kerosene shall not be used as paint thinner. Paints from the different manufacturers shall not be mixed.</p> <p>4.2.9. Storage</p> <p>4.2.9.1. All materials to be used for this item shall be stored in a single place designated by TSU. This storage area must always be kept neat and clean.</p> <p>4.2.9.2. Take necessary precautions to prevent fire hazards by removing oily rags, waste, and other flammable materials at the end of each workday.</p> <p>4.2.10. Cleaning</p> <p>4.2.10.1 All clothes and cotton waste that pose a fire hazard must be placed in metal containers or destroyed at the end of each workday.</p> <p>4.2.10.2. Upon completion of the work, remove all staging and paint containers, and dispose of them appropriately.</p> <p>4.2.10.3. Remove any paint drips, oil, or stains from adjacent surfaces. Ensure the entire area is left clean and acceptable to the supervising Architect/Engineer.</p> <p>4.3 FURNISHING WORKS AND ACCESSORIES</p> <p>4.3.1. Scope of Work</p> <p>4.3.1.1. The work covered under this section shall include complete labor, and the supply materials, equipment, and necessary to properly conduct and produce the desired work product.</p> <p>4.3.1.2. All finishing materials to be installed must be approved by TSU.</p> <p>4.3.2. Material</p> <p>4.3.2.1. 18mm thick Iced Gray Quartz stone finish on a rectangular pedestal/capstone</p> <p>4.3.2.2. 18" x 24" Rectangular Brass Plate Engraved Commemorative CHED Marker. The content and format of the marker shall be provided by TSU prior to fabrication.</p> <p>4.3.3 Installation</p> <p>4.3.3.1. Rectangular Pedestal</p> <p>4.3.3.1.1. Prepare and clean the concrete substrate. Apply approved stone adhesive uniformly on the concrete surface.</p> <p>4.3.3.1.2. Install the 18mm thick Iced Gray Quartz stone finish securely on the rectangular pedestal/capstone.</p> <p>4.3.3.2. Rectangular Brass Plate</p> <p>4.3.3.2.1. Install and securely anchor the 18" x</p>			
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24" x 1.20 mm thk.
 Rectangular Brass Plate
 Engraved Commemorative
 CHED Marker on top of the
 quartz finish with complete
 accessories. Ensure proper
 alignment, leveling, and
 firm fixing.

SECTION 5 – LANDSCAPING WORKS

5.1. Scope of Work

5.1.1. The work covered under this section shall include the complete labor, and the supply materials, equipment and necessary to properly conduct and produce the desired site development work indicated on the drawings and, in general, includes all planting and other associated groundcover preparation throughout the work area.

5.2. Workmanship

5.2.1. Provide at least one person/foreman who shall be present at all times during execution of this portion of the Work and who shall be thoroughly familiar with the type of materials, design methods, details, etc. being installed and the best methods for their installation and who shall direct all work performed under this Section.

5.2.2. This designated person/foreman shall also be the main point of contact for all submittals, samples and project notifications as outlined herein.

5.2.3. This designated person/foreman shall be familiar with all Drawings and Specifications included in the Contract Documents to ensure continuity for the project and provide clear direction for all consultants involved.

5.3. Submittals

5.3.1. Before any planting materials are delivered to the job site, submit a complete list of suppliers or nurseries where plants are to be obtained, along with any proposed substitutions.

5.3.2. TSU reserves the right to reject any plant material delivered to the site that do not meet the specifications outlined in this section. Remove rejected plants immediately from the Project site.

5.4. Product Handling

5.4.1. Deliver all materials in sealed containers. Materials that become damaged and unsuitable for use shall be replaced.

5.4.2. Temporary Storage and Protection

5.4.2.1. Always protect plants from sun and drying winds.

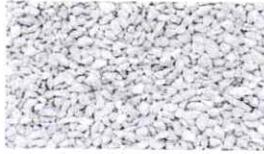
5.4.2.2. Plants that cannot be planted immediately on delivery shall be kept in the shade, well-protected with soil, shredded hardwood mulch, straw, or other acceptable material, and shall be kept well-watered.

5.4.3. In the event of damage, immediately undertake all necessary repairs and replacements at no additional cost.

5.5. Product Samples

5.5.1. Items to be submitted prior to installation for approval by the Project-

In-Charge include, but are not limited to the following items
5.5.1.1. ¾ Gravel Bedding



5.5.1.2. Garden Soil



5.5.1.3. Bermuda Grass



5.5.1.4. Birds of Paradise, clustered, 800mm width, 800mm height, spaced 250mm on center



5.5.1.5. Cigar Calathea, clustered, 800mm width, 300mm height, spaced 500mm on center



5.5.1.6. Swiss Cheese Plant, clustered, 500mm width, 500mm height, spaced @ 500mm on center



5.5.1.7. Sword Fern, clustered, 300mm width, 300mm height, spaced 200mm on center



5.5.1.8. Xanadu Philodendron, clustered, 500mm width, 800mm height, spaced @ 500mm on center



5.5.1.9. Peace Lily, clustered, 500mm width, 800mm height, spaced 300mm on center



5.6. Execution

5.6.1. Inspection

5.6.1.1. Prior to all work in this section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.

5.6.1.2. Verify that all topsoil installation methods and approvals have been completed in accordance with this section.

5.6.1.3. Verify that all proposed work areas are free of weeds and rocks 3/4 inch in diameter or larger.

5.6.1.4. Verify percentage of compaction of existing subsoil and topsoil installation is acceptable for healthy, grass growth and root establishment with appropriate percentages of soil particles, water, and air per cubic foot.

5.6.1.5. Verify with the Project-In-Charge that topsoil installation has been approved.

5.7. Planting

5.7.1. General

5.7.1.1. Topsoil for planting operations shall be furnished by the Contractor as specified within.

5.7.1.2. Provide positive drainage away from all buildings and around or away from all planting beds to prevent ponding of water. Do not raise bed grades or finished grades above finished floor elevations, keep at least 50 mm below Ground Floor Level.

5.7.1.3. Give notification to Project-In-Charge of completion of Earthwork prior to proceeding with the installation of topsoil. Project-In-Charge to approve sub-grade soil conditions prior to the installation of any topsoil.

5.7.1.4. Give notification to the Project-In-Charge of completion of Topsoil work prior to proceeding with planting operations. Project-In-Charge to approve topsoil installation prior to the installation of any plant material.

5.7.2. Protection

5.7.2.1. Protect all planting areas and existing plants from damage. If any plants are injured, treat and replace as required. Execute no work in or over prepared planting areas, or adjacent to planting without proper safeguards and protection

5.7.3. Maintenance and Plant Warranty

5.7.3.1. The Contractor shall maintain all landscaped areas for a period of sixty (60) calendar days after completion of the landscaping works or until final acceptance of the project, whichever occurs later.

5.7.3.2. During the maintenance period, the Contractor shall undertake all necessary operations to ensure the proper establishment and healthy growth of all plant materials. Maintenance activities shall include watering, fertilizing, mowing of grassed areas, weeding, pruning, pest

	<p>and disease control, and general upkeep of landscaped areas.</p> <p>5.7.3.3. The Contractor shall guarantee that all plant materials furnished and installed under this Contract are healthy, vigorous, and free from defects at the time of planting. All trees, shrubs, groundcovers, and grass shall be warranted to survive and remain in healthy condition during the required maintenance period.</p> <p>5.7.3.4. Any plant material that dies, becomes unhealthy, or fails to establish during the maintenance period, or any damage to planted materials resulting from defective work, improper installation, shall be replaced by the Contractor at no additional cost to the Owner. Replacement plants shall be of the same species, size, and quality as originally specified.</p> <p>5.7.3.5. Final acceptance of the landscaping works shall be granted only when all plant materials are alive, healthy, and properly established, and when the required maintenance period has been satisfactorily completed to the satisfaction of the Project-In-Charge.</p> <p>SECTION 6 – ELECTRICAL WORK</p> <p>6.1 SCOPE OF WORK</p> <p>6.1.1 The Contractor shall provide all materials and equipment and perform all the work necessary for the complete execution of the electrical work specified herein; except as otherwise excluded, and which without excluding the generality of the foregoing, shall include but not be limited to the following principal items of work. All work shall be in accordance with the governing codes and regulations and with the specifications, except when the same shall conflict with such codes, etc. in which case the latter shall then govern.</p> <p>6.1.2 The work under this section shall include the furnishing of labor, materials, equipment, and services required to construct and install the new electrical system which includes, but is not limited to, the following items.</p> <p>6.1.1.1 Provide a complete Lighting System.</p> <p>6.1.1.2 Provide operation of the lighting systems.</p> <p>6.1.1.3 Optional items of work.</p> <p>6.1.1.4 All tapping shall be executed inside the ceiling unless indicated in the plan and on the mounting type of equipment.</p> <p>6.1.1.5 If anything has been omitted in any items of work on materials usually furnished, which are necessary for the completion of the Electrical Works as outlined herein before, then such must be and are hereby included in this section of the work.</p> <p>6.2 GENERAL</p> <p>6.2.1 Codes, Regulations, and Ordinances</p> <p>6.2.1.1 The electrical item under this contract is to be installed according to the requirements of the latest Philippines Electrical Code, the rules and regulations of the Authority</p>			
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	<p>concerned and the requirements of the Power Company. Nothing contained in these specifications or shown on the drawings shall be construed as to conflict with the National and Local Ordinances or Laws governing the installation of electrical work, and all laws and ordinances are hereby made part of these specifications. The Contractor is required to meet the requirements thereof.</p> <p>6.2.2 Plans and Drawings</p> <p>6.2.2.1 The Contract Drawings, which constitute an integral part of this contract, shall serve as workings drawings. They indicate the general layout of the complete electrical system and show arrangements of feeders, circuits, outlets, switches, control panel boards, service equipment, fixtures, and other works.</p> <p>6.2.2.2 The Contractor shall check architectural, structural, and plumbing plans to avoid possible installation conflicts. Should drastically changes from original plans be necessary to resolve such conflicts, the Contractor shall notify the Engineer/Architect and shall secure from him written approval and agreement concerning necessary changes and adjustments before altered installation work is started.</p> <p>6.2.3 Minor Modifications</p> <p>6.2.3.1 The plans as drawn are based upon architectural plans and details show conditions as accurately as is possible to indicate them in scale. The plans are diagrammatical and do not necessarily show all fittings, etc., necessary to fit the conditions. The locations of lighting fixtures and switches shown on the plans are approximate. The Contractor shall be responsible for the proper location to make them fit with architectural details</p> <p>6.2.4 Guarantees</p> <p>6.2.4.1 The Contractor shall guarantee that the electrical system is free from all grounds and all defective workmanship and materials and will remain so for a period of one (1) year from the date of acceptance of the work. Any defects, appearing within the aforesaid period, shall be remedied by the Contractor at his own expense.</p> <p>6.2.4.2 The Contractor shall indemnify and save harmless the TSU and his duly authorized representative from and against all liability for damages arising from injuries or disabilities to persons or damage to property occasioned by any act or omission of the Contractor, including all expenses, legal or other, which may be incurred by the TSU in the defense of any claim, action, or suit.</p> <p>6.2.5 Samples and Drawings</p> <p>6.2.5.1 The Contractor shall submit to the Engineer/Architect for approval samples of fixtures, conduit, wire, wiring devices, finished</p>			
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	<p>plates and of any item as may be required by the Engineer/Architect.</p> <p>6.2.5.2 Prepare and submit for approval shop drawings or catalogs of equipment appliances and fixtures.</p> <p>6.3 INSTALLATION REQUIREMENTS</p> <p>6.3.1 All materials shall be new and shall conform to the standards specified in the Philippine Electrical Codes and others such as IEEE and NEMA, for every case where such standard has been established for the particular type of materials in question.</p> <p>6.3.2 All materials on all systems shall comply with the following specifications unless specifically accepted, and all materials that were not specified shall be of the best of their respective kind.</p> <p>6.3.3 Cutting and Fitting</p> <p>6.3.3.1 Contractor shall do all cutting and fitting required for the installation of the electrical items and coordinate with the work of other trades, in accordance with the drawings and in a manner satisfactory to the Engineer/Architect.</p> <p>6.3.4 Operation Test</p> <p>6.3.5.1 It shall be the responsibility of the Contractor to test all systems of the entire electrical installation for proper operational conditions. These conditions shall apply to the power and lighting installations as well as the fire alarm system and motors.</p> <p>6.4 MATERIALS</p> <p>6.4.1 Wires and Cables</p> <p>6.4.1.1 The installation shall be free from improper grounds and short circuits. All wires shall be copper, soft-drawn, and annealed, shall be of 98% conductivity, shall be smooth and fine and of a cylindrical form, and shall be within 1% of the actual size called for.</p> <p>6.4.1.2 All conductors shall be UL-listed and shall comply with the applicable standards for electrical installations.</p> <p>6.4.1.3 Wires shall be color coded as follows:</p> <p style="padding-left: 40px;">Line 1 --- Black Line 2 --- Red Ground --- Green</p> <p>6.4.1.4 All wires and cables for lighting and power system shall be moisture and heat resistant rubber or thermoplastic insulate. It must be in conformity with the Philippine Electrical Code when used in damp or unit location. Wires shall be stranded for sizes #12 AWG.</p> <p>6.4.1.5 All wires and cables shall comply with the requirements as to the particular usage and approved brand.</p> <p>6.4.2 Pipes</p> <p>6.4.2.1 Wiring shall be done in PVC Pipe for embedded and in RSC or IMC for run exposed; it shall be Schedule 40.</p>			
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6.4.2.2 No tubing shall be used in any system smaller than ½" electric trade size, nor shall have more than four 90-degree bends in any one run and where necessary pull, boxes shall be provided as directed.

6.4.2.3 No wire shall be pulled into any conduit until the conduit system is complete in all details and in the case of concealed work until all rough plastering or masonry has been completed in every detail.

6.4.2.4 The ends of all conduits shall be tightly plugged to exclude plaster, dust, and moisture while the building is in the process of construction. All conduit ends shall be reamed to remove all burrs.

6.4.3 Junction And Pull Boxes

6.4.3.1 PVC Junction and pull boxes shall be provided as indicated or as required for facilitating and pulling of wire and cables. Pull boxes in finished places shall be located and installed with the permission and to the satisfaction of the contracting officer. Exposed PVC boxes, conduits, and clamps shall be painted to match the existing finish of the surface on which they are installed.

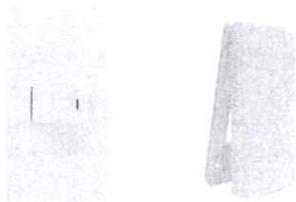
6.5 LIGHTING SYSTEM

6.5.1 Install all new lighting fixtures as specified or at locations shown in plans or as directed by the Engineer/Architect.



- 7 Watts LED Garden Light with stake
- Warmwhite

6.5.2 Wall switches shall be rated at 15 amperes, 250 volts, one way or as required. Switches shall be of quiet and automatic action type, silver contact, feather touch operation, and white.



- One-Gang Switch with weatherproof cover

	<ul style="list-style-type: none"> Wide Series 250V, 15A 			
6.6	CONSUMABLE HARDWARE / FITTINGS			
6.6.1	PVC Cement, G.I. wires, brackets, electrical tape, tox screw, and other small value materials needed to execute layouts and termination of electrical works shall be considered as consumable hardware.			
6.6.2	Junction box, pullbox, Utility box, adaptor, locknut, coupling, unistrat channel, unistrat strap, full thread round rod, expansion/anchor bolt, bolts, nuts, washer, etc. and other small value materials needed to execute layouts and termination of electrical works shall be considered as Fittings.			
Warranty Period (for equipment, tools, and devices)				
Delivery Period (<u>30</u> calendar days)				
nothing as follows				

Payment Terms

Payment shall be made through Landbank's LDDAPADA/Bank Transfer Facility, issuance of check or cash on delivery (COD) within thirty (30) calendar days after receipt of sales/service invoice and issuance of Inspection and Acceptance Report/Certificate of Acceptance from the End-User. In case accounts maintained in other banks, bank transfer fees shall be chargeable against the creditor's account.

Interested suppliers shall provide the following Bank Details in the statement of compliance column:

Bank Name: _____

Bank Branch/Address: _____

Bank Account Name: _____

Bank Account Number: _____

FINANCIAL OFFER:

<p>Procurement of Labor and Materials for the Construction of CHED Marker with Embankment and Landscaping Works for Community Sports and Wellness Center</p>	
<p>Approved Budget for the Contract (ABC): Six Hundred Forty-Six Thousand Two Hundred Forty Seven Pesos and Seventy-Eight Centavos (PhP 646,247.78)</p>	
<p>Total Offered Quotation</p>	<p>In Words:</p>
	<p>In Figures:</p>

Signature Over Printed Name

Position/Designation

Company Registered Name

Office Telephone/Mobile Nos.

Email Address/es

Date



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Bid Notice Abstract

Request for Quotation (RFQ)

Reference Number 12880935
Procuring Entity TARLAC STATE UNIVERSITY
Title Procurement of Labor and Materials for the Construction of CHED Marker with Embankment and Landscaping Works for Community Sports and Wellness Center
Area of Delivery Tarlac

Solicitation Number:	141-2026	Status	Pending
Trade Agreement:	Implementing Rules and Regulations	Associated Components	5
Procurement Mode:	Negotiated Procurement - Small Value Procurement (Sec. 53.9)	Bid Supplements	0
Classification:	Civil Works	Document Request List	0
Category:	Construction Projects	Date Published	26/03/2026
Approved Budget for the Contract:	PHP 646,247.78	Last Updated / Time	25/03/2026 17:17 PM
Delivery Period:	30 Day/s	Closing Date / Time	10/04/2026 13:00 PM
Client Agency:			
Contact Person:	Tutchie Panlilio Clerk TSU, Romulo Blvd. San Vicente, Tarlac City, Philip Tarlac City Tarlac Philippines 2300 63-045-6068110 Ext.157 tsucanvassing@gmail.com		

Description

Project: Construction of CHED Marker with Embankment and Landscaping Works for Community Sports and Wellness Center.

Location: San Isidro Campus, Tarlac State University

Duration: 30 Calendar Days

The winning contractor shall post-Performance: Security in favor of TSU upon receipt of NOA : see Section 68 of IRR of RA 12009).

TECHNICAL SPECIFICATIONS

SECTION 1 – GENERAL CONDITIONS AND REQUIREMENTS

1.1 SCOPE OF WORK

1.1.1 The project shall comprise the CONSTRUCTION OF CHED MARKER WITH EMBANKMENT AND LANDSCAPING WORKS FOR THE COMMUNITY SPORTS AND WELLNESS CENTER. It shall include the supervision and furnishing of labor, supplies, materials, equipment, and other incidental services that are essential to properly implement and produce the desired work output.

1.1.2 The contractor shall be responsible for conducting a comprehensive site survey, which includes staking, verification of boundaries, and assessment of existing topography. This survey must ensure the accuracy of all site dimensions, elevations, and conditions prior to the commencement of construction activities.

1.2 CONTRACT DRAWINGS

1.2.1 Details and extent of work are shown in the Drawings accompanying these specifications.

1.2.2 Sketches and other details not shown in the Drawings shall be furnished by the Architect/Engineer during the phase of construction.

1.3 PARTS OF THE SPECIFICATIONS

1.3.1 These Specifications include the following parts whose applicable provisions are binding on this contract:

SECTION DESCRIPTION

1 GENERAL CONDITION AND REQUIREMENTS

2 EARTHWORKS

3 STRUCTURAL WORKS

4 ARCHITECTURAL WORKS

5 LANDSCAPING WORKS

6 ELECTRICAL WORKS

1.4 WORKMANSHIP

1.4.1 All operations required under all parts of the specifications shall be undertaken in a neat, workmanlike manner. Only skilled personnel with sufficient experience in similar operations shall be allowed to undertake the same.

1.5 INSPECTION OF SITE

1.5.1 The Bid may be deemed to have been based on data regarding physical conditions at the sites. The Contractor acknowledges and warrants that they inspected and examined the site and its surroundings and has satisfied by submitting their Tender as to the nature of work and materials necessary for the completion of the works, and the means of access to the sites, the accommodation they may require and that has obtained all necessary information as to risks, contingencies and other circumstances which may have influenced or affected their Tender. No increase in cost or extension of time will be considered for failure to inspect and examine the site condition.

1.6 ESTABLISHED FINISH FLOOR LINE

1.6.1 The Contractor shall inspect and examine the individual site conditions. No increase in cost or extension of time will be considered for failure to examine site conditions. Control points and elevations will be furnished by the TSU and the Contractor shall be responsible for all other surveys and measurements required to accurately complete the work. Unless otherwise indicated by the TSU.

1.7 CONFLICT BETWEEN PLANS AND SPECIFICATIONS

1.7.1 The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence

1.7.1.1 the Contract and its attachments (Approved Budget for the Contract, Terms of Reference, etc.)

1.7.1.2 the Specific Conditions of the Contract

1.7.1.3 the General Conditions of the Contract

1.7.1.4 the Technical Specifications

1.7.1.5 the Drawings

1.7.1.6 the Project Schedule and any other pertinent documents

1.7.2 Any omissions in the specifications regarding necessary work or works for the project's completion shall be executed by the Contractor as if such work were explicitly detailed in the drawings, without incurring additional costs. All such work shall be performed in accordance with standard practices, adhering to the requisite quality standards for both materials and workmanship.

1.7.3 Should there be any ambiguity or conflict between indication on drawings and provisions in specifications, the same shall be referred to the Engineer/Architect of TSU for resolution.

1.8 APPROVAL

1.8.1 The Contractor shall submit for the Engineer/Architect's approval, the complete list of manufacturer's names of all equipment and materials they propose to use for the project prior to actual installation on site.

1.9 REJECTIONS

1.9.1 All materials and workmanship must strictly comply with the specifications outlined in this contract. Any materials or workmanship failing to meet these standards may be rejected at any stage during project execution. The Contractor will receive formal documentation of any rejection issued by the authorized technical representative of TSU. Any completed work found to be non-compliant with the quality and specifications required by the project plans shall be promptly dismantled, removed, and reconstructed or otherwise corrected to meet all contractual and technical requirements.

1.10 VARIATIONS

1.10.1 The Engineer/Architect reserves the authority to implement minor adjustments in the work details or materials as deemed necessary. Such modifications may involve revisions to the shapes or dimensions of project elements. Any changes that result in additional costs to the Contractor will be subject to a corresponding adjustment of the contract price, as stipulated in the terms of the agreement.

1.11 AS-BUILT DRAWING AND PICTURES

1.11.1 The Contractor with the approval of the Engineer/Architect shall mark down all the revisions, omissions and/or additions to the various works on two sets of drawing plans as the construction progress. One set of the plans as marked shall be submitted to the Engineer/Architect after the completion of work.

1.11.2 The Contractor shall submit to the TSU As-Built Drawings incorporating all changes made and noted in the marked Drawings retained by him/her. The As-Built Drawings shall be prepared on reproducible form and submitted together with at least three (3) copies of A3 (11.7 in. X 16.6 in.)

1.11.3 The Contractor shall submit to TSU pictures of the site before, during, and after construction in reproducible and printed forms.

1.12 MOBILIZATION AND DEMOBILIZATION

1.12.1 Upon receipt and acceptance of the Notice to Proceed, the Contractor shall immediately mobilize the workforce, equipment, and materials, and take possession and secure the project site.

1.12.2 Upon final completion of the work, the Contractor shall commence the demobilization of the workforce, equipment, and materials and turn over the project site to TSU.

1.13 BILLBOARD

1.13.1 Upon possession of the project site, the Contractor shall immediately erect the Billboard, showing the relevant details of the project, at the location and position designated by the TSU and of the dimensions and materials approved by the TSU.

1.14 TEMPORARY FACILITIES

1.14.1 Upon possession of the project site, the Contractor shall immediately erect temporary facilities such as field office, storage for equipment and materials, portable toilet, electric and water supply connections, etc., at the location designated by, and using only materials and the manner of construction approved by TSU.

1.15 CONSTRUCTION OCCUPATIONAL SAFETY AND HEALTH

1.15.1 The Contractor shall be responsible in ensuring the safety and health of the personnel assigned at the project site and other parties who may be affected in the implementation of the project.

1.15.2 The Contractor shall submit to TSU a copy of the Construction Occupation Safety and Health Program for the project that is duly approved by the Department of Labor and Employment before commencing with the work.

1.15.3 The Contractor shall designate a competent and qualified Safety Officer for the whole duration of the project.

1.15.4 All personnel assigned to the project are expected to report for work in their proper uniforms, basic safety gears (helmets, boots or shoes), and identification cards (IDs). The uniforms, basic safety gears, and IDs shall be provided by the Contractor at his/her own expense.

1.15.5 The Contractor shall establish and implement safety procedures for all relevant jobs, tasks, operations, and proper waste disposal for all assigned personnel.

1.15.6 The Contractor shall erect temporary barricades, install early warning and precautionary signs, and provide other safety devices that may be required to keep the job site safe and secured. Use roof sheet or plywood for temporary barricade with standard height and stable framing within the construction site as indicated in the plan: do not use "Blue Sack".

1.15.7 The Contractor shall maintain, at the project site, ample supplies of expendable materials for the safety and health of its personnel and other affected parties such as safety tape, first-aid kits, safety gloves, dust masks, etc., the cost of which shall be included in the contract price.

1.15.8 The Contractor shall keep a record of all incidents (near-miss or accident) and report the same to the TSU Architect/Engineer.

1.16 CLEARING, HAULING AND DISPOSAL WORKS

1.17.1. Clearing, hauling and disposal works shall include the removal and repair of all affected areas needed to complete the project.

1.17.2. The Contractor shall exercise all care to protect and maintain adjacent properties, trees, materials and such other facilities such as conduits, drains, sewers, pipes and other wires that are to remain in the property and shall restore without cost to TSU all property that may be damaged for whatever reason in the execution of the work.

1.17.3. All unusable materials and debris resulting from the performance of work shall be removed from the premises and disposed of in the location and manner that shall be approved by TSU. All materials that can be reused shall be hauled and arranged properly by the Contractor before turning them over to TSU.

SECTION 2 - EARTHWORKS

2.1. CLEARING AND GRUBBING

2.1.1. All surface objects and all trees, stumps and roots and other protruding obstructions, no designated to remain, shall be cleared and/or grubbed, including mowed as required. Except as provided below:

2.1.1.1 Removal of undisturbed stumps and roots and nonperishable solid objects with minimum depth of one (1) meter below subgrade or slope of embankment will not be required.

2.1.1.2 For areas outside the grading limits of cut and embankment areas, stumps and nonperishable solid objects shall be cut off not more than 150mm above the ground line or low water level.

2.1.1.3 In areas to be rounded at the top of cut slopes, stumps shall be cut off flush with or below the surface of the final slope line.

2.1.1.4 Grubbing of pits channel changes and ditches will be required only to the depth necessitated by the proposed excavation.

2.1.1.5 In areas covered by cogon/talahib, wild grass and other vegetations, top soil shall be cut to a maximum depth of 150mm below the original ground surface.

2.2. EMBANKMENT

2.2.1. Embankment and backfills shall contain no muck peat, sod, roots and other deleterious materials.

2.2.2. Embankment shall be placed in horizontal layers not exceeding 300 mm.

2.2.3. Compaction shall continue until a uniform density of not less than 95% of the maximum dry density is obtained.

2.3. SUBGRADE PREPARATION

2.3.1. This item shall consist of the preparation of the sub grade for the support of overlying structural layers, it shall extend to full width of the roadway.

2.3.2. The maximum compacted thickness of any layer shall not exceed 300 mm.

2.4. AGGREGATE SUBBASE COURSE

2.4.1. Aggregate for subbase shall consist of hard, durable particles or fragments of crushed stone, crushed slag, or crushed or natural gravel and filler of natural or crushed or crushed sand or other finely mineral matter.

2.6 PORTLAND CEMENT CONCRETE SIDEWALK

2.6.1 This item shall consist of pavement of Portland cement concrete, with or without reinforcement, constructed on the prepared base in accordance with the specification and in conformity with lines, grades, thickness and typical cross-section shown in plans.

SECTION 3 - STRUCTURAL WORKS

3.1. SCOPE OF WORK

3.1.1. This project shall consist of structural works and shall include, where applicable, the provision and installation of steel reinforcements, formwork, bracing, and shuttering. It shall include all concreting operations, including placement, vibration, and curing of concrete, as well as testing of steel reinforcement and concrete, to fully execute the works as specified herein and as shown on the drawings.

3.1.2. All structural steel work shall be in accordance with AISC Specification for the Fabrication and Erection of Structural Steel, material, and parts necessary to complete each item, through such work not shown or specified shall be included, such as miscellaneous bolts and anchor supports, braces and connections etc.

3.2. CONCRETE WORKS

3.2.1 Materials

3.2.1.1 Concrete Aggregates – shall conform to "Specification for Aggregates" (ASTM G33 latest revision). The maximum size of the aggregates shall not be larger than one-fifth (1/5) of the narrowest dimension between sides of the forms of the member for which the concrete is to be used not larger than three-fourth (3/4) of the minimum clear spacing between individual reinforcing bars and in no case larger than two (2) inches in diameter.

3.2.1.2 Reinforcing steel bars shall conform to ASTM Designation A-615-68 specifications for the structural grade. Grade of reinforcing steel bars shall be as follows:

Diameter Grade

10 mm Ø and above G40 (276 MPa)

3.2.1.3 Sand and gravel shall be well graded and free from any deleterious materials. The fine aggregate shall be washed sand (vibro) and size of course aggregates must be ¾" crushed gravel. Do not use river sand.

3.2.1.6 Plywood, metal, plastic materials or surfaced lumber forms shall be used where it will best give the most advantage in the specific concrete work involved.

3.2.1.7 Unless otherwise ordered, forms and shoring shall not be disturbed and shall remain in place for a minimum period by the following schedule.

Element Length of Time

Foundation, Shear Walls 2 days

And columns

Non-Structural Elements 2 days

3.2.2 Execution

3.2.2.1 Before placing reinforcement and prior to pouring concrete, all loose rust, mill scale, oil, grease, dirt, or other foreign materials that may reduce or destroy the bond between concrete and reinforcement shall be thoroughly removed. This requirement applies to both new reinforcement and any existing dowels or rebars to be integrated into the work. Where necessary, approved chemical rust removers shall be applied to ensure complete removal of rust prior to concreting.

3.2.2.2 Reinforcing steel bars shall be cut, bent, lapped or spliced as recommended by CRSI Handbook and ACI Codes. All lap splices of rebars shall conform to Class B Tension Lap Splice, unless noted otherwise. All hooks end shall be standard hooks. All stirrups/ties shall have 135° seismic hooks, unless noted otherwise. Cross ties shall have standard 90° hook on one end and 135° seismic hook on the other end. Consecutive cross ties with 90° and 135° hook ends shall be alternated.

3.2.2.3

Reinforcing steel bars shall be placed accurately and secured in place by use of concrete or metal supports, spacers

or ties to firmly hold them in their proper positions during pouring and setting of concrete.

3.2.2.4 All reinforcing bars shall be cleaned thoroughly of all loose rust, soil or other material prior to concrete pouring. No bars partially embedded in concrete shall be field bent, except permitted by the Engineer/Architect. Bars shall not be welded unless authorized by the Engineer/Architect.

3.2.2.5 Maintain minimum concrete cover to traverse bars as follows:

Element Concrete Cover

Below Grade- 75 mm

Foundation & Shear Walls

Below Grade – Pedestals 75 mm

Above Grade -Shear Walls 20 mm

Slab on Grade 40 mm

3.2.2.6 Testing of reinforcing steel bars shall conform to ASTM designation of specified materials. Samples of materials for testing shall be provided by the Contractor without extra additional cost to TSU. Likewise, the Contractor shall pay for the cost of testing the samples.

3.2.2.7 All horizontal reinforcements shall be tied to the vertical reinforcement at every intersection with #16 GI tie wire.

3.2.2.8 Pouring of concrete for floor framing must be poured monolithically.

3.2.3 Concrete Proportion and Consistency

3.2.3.1 Classes Of Concrete

3.2.3.1.1 Otherwise indicated in the plans, the minimum 28th days compressive cylinder strength of concrete with corresponding maximum aggregate size and slump shall be as follows:

Element 28th Day Strength

Foundation and Shear 3,000psi

Walls

Slab on Grade 2,500psi

Non-Structural

Elements 2,500psi

Max. Aggregate Size Slump

¾ in. 4 in.

¾ in 4 in.

¾ in 4 in.

3.2.4 Measurement

3.2.4.1 The unit of measure shall be the cubic foot. One bag of cement (40 kg) shall be considered as 0.028 cubic meter. Water shall be so measured as to insure the desired quantity of successive batches. Measurement of materials for ready mixed concrete shall conform to standard specifications for ready mixed concrete, ASTM Designation C-94, where applicable.

3.2.5 Mixing of Concrete

3.2.5.1 All concrete shall be machine mixed except in emergencies such as mixer breakdown during pouring operations where it shall be done by hand and shall stop at the first allowed construction joint. The time of mixing after all cement and aggregates are in the mixer drum shall not less than one minute for a mixer of having a capacity of one cubic yard or less; for a mixer of larger capacities, the minimum time shall be increased 15 seconds for each additional cubic yard or fraction thereof or additional capacity. All mixing water shall be introduced in the drum shall rotate at the peripheral speed of about 60.96 meter per minute throughout the mixing period. The entire contents of the mixer drum shall be discharged before recharging. The time elapsing between the introduction of the mixing water to the cement and aggregates and placing of the concrete in final position in forms shall not exceed 45 minutes. The re-tempering of concrete, i.e., mixing with additional cement, aggregate or water shall not be permitted.

3.2.6 Conveying and Placing of Concrete

3.2.6.1 Water shall be removed from the excavation before concrete is deposited. Any continuous flow of water in the excavation shall be directed through side-drains to a slump or be removed by other approved methods to avoid washing the freshly deposited concrete. Debris shall be removed from the space to be occupied by the concrete and forms shall be thoroughly wetted.

3.2.6.2 Concrete shall be conveyed from the mixer to forms as rapidly as practicable, by a method which shall prevent segregation or loss of ingredients. There shall be no free vertical drop or loss of ingredients. There shall be no free vertical drop greater than 1.5 meters. Approval of TSU Engineer/Architect shall be obtained before starting any concrete pouring. Concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and embedded items by depositing the concrete as close as possible to its final position in the forms and consolidating it with the aid of mechanical vibrating and consolidating it with the aid of mechanical vibrating equipment, supplemented by hand spading and tamping. In no case shall vibrators be used to transport concrete inside the forms. Vibrating equipment shall be in the internal type and not be overdone to cause segregation of particles and disturbance of setting concrete but just enough to produce an even heterogeneous distribution of ingredients.

3.2.6.3 Dumping concrete into cars or buggies with a free fall or more than three (3) feet will not be permitted. Hardened or partially hardened splashes or accumulations of concrete on forms or reinforcement shall be removed before the work proceeds. In case the rate of pouring is such as to allow splashes or accumulations to harden, concrete shall be placed with a flexible spout attached to a suitable hopper. Spouts and hoppers are provided to maintain the surface of the concrete as nearly level as possible at all times.

3.2.6.4 Construction Joints – Concreting shall, whenever possible, be carried out continuously until the section is complete. When concrete operations must be stopped, construction joints shall be provided either horizontally or vertically as directed by the TSU Engineer/Architect and shall be equipped with shear keys or dowels to ensure proper bonding. A suitable bonding agent shall be applied to all construction joint surfaces prior to placing new concrete. All construction joints shall conform to the approved plans or as otherwise approved by the TSU Engineer.

3.2.7 Repair of Concrete

3.2.7.1 Imperfections

3.2.7.1.1 Repairs shall be completed within 24 hours after removal of forms.

3.2.7.1.2 Voids which appear upon the removal of forms shall be drenched with water and immediately filled with materials of the same composition as that used on the surface and smooth with a wood spatula or float.

3.2.7.2 Where present, large bulges and abrupt irregularities that protrude, shall be removed by brushing, hammering and grinding.

3.2.7.3 All materials, procedures, and operations used in the repair of concrete shall be approved by the TSU Engineer/Architect.

3.2.7.4 The cost of all material, labor, and equipment used in the repair shall be borne by the Contractor.

3.2.8 Cement Finish for Concrete Surfaces

3.2.8.1 All concrete surfaces shall be given a finish done and applied in accordance with the following provisions.

3.2.8.1.1 Immediately after the removal of forms, all projecting wires and bolts, or other devices used for trying forms, shall be cut off at least one-half (1/2) centimeter beneath the finished surface. All holes, voids, depressions and other defects shall be thoroughly wetted and then pointed up the soil with cement mortar putty of the same proportion as the mortar used in the body of the work. All exposed surfaces shall be treated in such a manner as to effectivity elaborate, all lines, projections and marks impressed by the lumber for wood forms, to the general plan of the concrete surface.

3.2.8.1.2 Rubbed Finished: Unless otherwise specified, a rubbed finished shall be applied to all exposed concrete surfaces. Concrete surfaces shall be wetted immediately after the forms are removed and then rubbed even and smooth with carborundum brick or other abrasive to a uniform appearance without the application of any cement or another coating before the surface has hardened

3.2.9 Slab on Grade

3.2.9.1 All concrete shall be of such consistency as to required tamping to bring the water to the surface. Tamping shall be done with the least ten (10) centimeters square-faced tampers.

3.2.10 Inspection

3.2.10.1 Concrete shall be proportioned, mixed, and placed in the presence of TSU Engineer/Architect, ample notice shall be given before mixing is commenced.

3.2.11 Test of Concrete

3.2.11.1 Reasonable number of tests on the concrete may be required by the TSU Engineer/Architect during the progress of the work. Not less than four (4) cylindrical specimens shall be made or each test of which at least two (2) shall be reserved for the 28 days test. Samples shall be secured and molded in accordance with "Method of Sampling Concrete" (ASTM Designation C-172) and Method of Making and Curing Concrete Compression and Designation C-21). The Contractor shall provide the samples to be taken at the place of deposit and as specified by the TSU Engineer/Architect, without cost to TSU. The Contractor shall take care of transporting the samples to the approved testing laboratory without cost to TSU.

Specimen Day of Testing

At least 1 7th Day

At least 1 14th Day

At least 2 28th Day

3.2.11.2 To conform to the requirements of this Specifications the average strength of test samples representing each class of concrete shall be equal to or greater than the specified strength and not more than the one strength test in 10 shall have an average value less than 90 percent of the specified strength.

3.2.12 Failure of Test Samples

3.2.12.1 In the case of failure of Test Cylinders to meet the specified strength, the Contractor may at his expense, obtain concrete core samples from the poured, concrete and the compressive strength of the same to be taken by a competent testing authority to determine the conclusive strength and integrity for the concrete poured. Coring shall be done in a manner which shall make possible satisfactory replacement of cored samples. To determine the adequacy of the affected parts, the TSU Engineer shall have the option to order load test on parts of the structure where concrete strength test are below 80% of the strength specified.

3.2.12.2 These tests shall be in accordance with ACI recommendations and the cost and shall be borne by the Contractor. Poured concrete with strength less than that required by the specification shall be demolished and provided with an acceptable replacement at the Contractor's expense.

3.2.12.3 Should the tests fail to give the required strength, the Engineer TSU shall have the right to order a change in the proportions or in the procedure or curing of the concrete for the rest of the structure.

3.3 PORTLAND CEMENT CONCRETE SIDEWALK

3.3.1 Scope of Work

3.2.1.1 This Item shall consist of pavement of Portland Cement Concrete, with or without reinforcement, constructed on the prepared base in accordance with this Specification and in conformity with lines, grades, thickness and typical cross-section shown on the Plans.

3.3.2 Workmanship

3.3.2.1 The introduction of minimum values for International Roughness Index (IRI) as part of the basis for acceptance of newly constructed concrete and asphalt road projects requires more accurate process control on the Contractor's part. The Contractor's Quality Control Plan shall include for the Engineer's review and acceptance, a process control flow chart, and a Method Statement covering all activities in the process, describing how the activities will be managed and undertaken to deliver the specified IRI values. International best practice indicates that factors critical to success include:

- a well-chosen concrete mixture
- reasonable grades and alignment to suit the paver
- tight level control or stringline management
- continuous supply of concrete to the paver
- consistent concrete workability
- well-maintained paving equipment
- proper operation of paving equipment
- controlled density of concrete
- a skilled and dedicated team

3.3.3 Preparation of Grade

3.3.3.1 After the subgrade of base has been placed and compacted to the required density, the areas which will support the paving machine and the grade on which the pavement is to be constructed shall be trimmed to the proper elevation by means of a properly designed machine extending the prepared work areas compacted at least 60 cm beyond each edge of the proposed concrete pavement. If loss of density results from the trimming operations, it shall be restored by additional compaction before concrete is placed. If any traffic is allowed to use the prepared subgrade or base, the surface shall be checked and corrected immediately ahead of the placing concrete. The subgrade or base shall be uniformly moist when the concrete is placed.

3.3.4 Curing

3.3.4.1 Immediately after the finishing operations have been completed and concrete has sufficiently set, the entire surface of the newly placed concrete shall be cured. Failure to provide curing compounds or lack of water to adequately take care both of curing and other requirements, shall be cause for immediate suspension of concreting operations. The concrete shall not be left exposed for more the ½ hour between stages of curing or during the curing period. Curing time shall be within 24 hours or when the concrete has achieved sufficient strength.

SECTION 4 – ARCHITECTURAL WORKS

4.1. MASONRY AND PLASTERING WORKS

4.1.1. Scope

4.1.1.1. The work includes the furnishing of all materials, labor, equipment, and performing all the necessary operations in connection with masonry and plastering works.

4.1.2. Masonry and Plastering

- 4.1.2.1. Mortar cells of CHB shall consist of one (1) part to cement to three (3) parts sand by volume with sufficient water. It shall be a workable cement-sand mixture attaining a 28th-day compressive strength of 1500 psi.
- 4.1.2.2. Vertical and horizontal reinforcements shall be provided in masonry. CHB walls shall be reinforced as follows:
Thickness - 100mm
Horizontal Reinforcement- 10 mm Φ @ 600 mm O.C.
Vertical Reinforcement- 10 mm Φ @ 600 mm O.C.
- 4.1.1.1. Mortar for plastering shall be proportioned one (1) part cement to three (3) parts sand with sufficient water. Use 50 mm thick cement plastering for exterior walls and 25 mm thick cement plastering for interior walls.
- 4.1.2. Workmanship
- 4.1.2.1. CHBs shall be laid plumb and leveled accurately. Laid units of blocks shall be wetted before laying another unit or layer. Damaged units shall not be used. Units shall be cut accurately to fit all plumbing ducts, and openings for electrical works; all holes shall be neatly patched.
- 4.1.2.2. Units shall be placed while the mortar is soft and plastic and shall be used within two and a half (2.5) hours of initial mixing. Mortar that has stiffened should not be used. Any unit disturbed to the extent that the initial bond is broken after initial positioning shall be removed and re-laid in fresh mortar. All cells of CHB units shall be fully grouted.
- 4.1.2.3. Where CHB walls adjoin columns, beams, and walls, dowels of the same size as the vertical or horizontal reinforcement shall be provided.
- 4.1.2.4. No construction support shall be attached to the CHB wall except where specifically permitted by TSU.
- 4.2. PAINTING WORKS
- 4.2.1. Scope Of Work
- 4.2.1.1. The Contractor shall furnish all materials, labor, equipment, and services required to complete the entire painting works herein called for. Painting works shall include the repainting of walls, columns, beams, railings, window frames, etc. of the existing building as specified hereinafter and required thereto.
- 4.2.2. Material
- 4.2.2.1. The brand of painting materials to be used shall be approved by TSU.
- 4.2.2.2. All concrete benches and cylindrical base pedestal of the CHED Marker must be painted with semi-gloss latex paint (dark gray).
- 4.2.2.3. All paint materials shall be delivered to the job site in their original containers. with labels and seals unbroken.
- 4.2.2.4. Except for ready-mixed materials in original containers, all mixing shall be done at the job site. No materials are to be reduced or changed except as specified by the manufacturer of the said materials. The use of white zinc (lithopone) is prohibited.
- 4.2.3. Colors
- 4.2.3.1. All colors of paints and varnishes shall be in accordance with the color scheme approved by TSU.
- 4.2.3.2. Submit samples of the proposed colors for approval. Only colors that have been approved may be used.
- 4.2.3.3. No painting shall commence until color schemes have been approved by the Engineer/Architect.
- 4.2.3.4. Finishes for different portions of the work must be indicated in the Schedule of Specifications.
- 4.2.4. Surface Examination and Preparation
- 4.2.4.1. Before commencement of the work, the Contractor shall examine the surfaces to be applied with paints so as not to compromise the quality and appearance of a painting of finishing work.
- 4.2.4.2. No painting shall be done under conditions that may compromise the quality or appearance of the paint or finish.
- 4.2.4.3. All surfaces to be painted must be cleaned and in proper condition before application.
- 4.2.4.4. Voids, cracks, and all other kinds of defects shall be repaired with proper patching materials and finished flush with the surrounding surfaces.
- 4.2.5. Surface Conditioning
- 4.2.5.1. Apply topcoats on existing concrete and masonry surfaces.
- 4.2.5.2. Patch and seal hairline cracks and uneven areas with approved putty or patching compound. After correcting all defects, apply the finish coats as specified in the Plan, following the approved color scheme.
- 4.2.5.3. Metals shall be clean, dry, and free from mill scale and rust. Remove all grease and oil from surfaces. Wash unprimed galvanized metal with the etching solution and allow it to dry.
- 4.2.5.4. Metal surfaces shall be primed with epoxy primer.
- 4.2.6. Application
- 4.2.6.1. Paints, when applied by brush, shall be non-fluid; and thick enough to lay down an adequate film of wet paint. Brush marks must be smoothed out after the application of paint.
- 4.2.6.2. Paints intended for roller application must be similar to those used for brushing paint. The paint should not be sticky when thinned.
- 4.2.7. Workmanship
- 4.2.7.1. Experienced and skilled craftsmen shall perform all work to ensure finished work of first-class quality, appearance, and durability.
- 4.2.7.2. All paints and other coatings shall be mixed and applied strictly following the manufacturer's printed instructions.
- 4.2.8. Mixing And Thinning
- 4.2.8.1. At the time of application, paint shall show no sign of deterioration. Paint shall be thoroughly stirred, strained, and kept at a uniform consistency during application.
- 4.2.8.2. When thinning is necessary, this may be done immediately before application following the manufacturer's directions, but not more than 1 pint of suitable thinner per gallon of paint.
- 4.2.8.3. Kerosene shall not be used as paint thinner. Paints from the different manufacturers shall not be mixed.
- 4.2.9. Storage
- 4.2.9.1. All materials to be used for this item shall be stored in a single place designated by TSU. This storage area must always be kept neat and clean.
- 4.2.9.2. Take necessary precautions to prevent fire hazards by removing oily rags, waste, and other flammable materials at the end of each workday.
- 4.2.10. Cleaning
- 4.2.10.1. All clothes and cotton waste that pose a fire hazard must be placed in metal containers or destroyed at the end of each workday.
- 4.2.10.2. Upon completion of the work, remove all staging and paint containers, and dispose of them appropriately.
- 4.2.10.3. Remove any paint drips, oil, or stains from adjacent surfaces. Ensure the entire area is left clean and acceptable to the supervising Architect/Engineer.
- 4.3 FURNISHING WORKS AND ACCESSORIES
- 4.3.1. Scope of Work
- 4.3.1.1. The work covered under this section shall include complete labor, and the supply materials, equipment, and necessary to properly conduct and produce the desired work product.
- 4.3.1.2. All finishing materials to be installed must be approved by TSU.
- 4.3.2. Material
- 4.3.2.1.

18mm thick Iced Gray Quartz stone finish on a rectangular pedestal/capstone

4.3.2.2. 18" x 24" Rectangular Brass Plate Engraved Commemorative CHED Marker. The content and format of the marker shall be provided by TSU prior to fabrication.

4.3.3 Installation

4.3.3.1. Rectangular Pedestal

4.3.3.1.1. Prepare and clean the concrete substrate. Apply approved stone adhesive uniformly on the concrete surface.

4.3.3.1.2.

Install the 18mm thick Iced Gray Quartz stone finish securely on the rectangular pedestal/capstone.

4.3.3.2. Rectangular Brass Plate

4.3.3.2.1. Install and securely anchor the 18" x 24" x 1.20 mm thk. Rectangular Brass Plate Engraved Commemorative CHED Marker on top of the quartz finish with complete accessories. Ensure proper alignment, leveling, and firm fixing.

SECTION 5 – LANDSCAPING WORKS

5.1. Scope of Work

5.1.1. The work covered under this section shall include the complete labor, and the supply materials, equipment and necessary to properly conduct and produce the desired site development work indicated on the drawings and, in general, includes all planting and other associated groundcover preparation throughout the work area.

5.2. Workmanship

5.2.1. Provide at least one person/foreman who shall be present at all times during execution of this portion of the Work and who shall be thoroughly familiar with the type of materials, design methods, details, etc. being installed and the best methods for their installation and who shall direct all work performed under this Section.

5.2.2. This designated person/foreman shall also be the main point of contact for all submittals, samples and project notifications as outlined herein.

5.2.3. This designated person/foreman shall be familiar with all Drawings and Specifications included in the Contract Documents to ensure continuity for the project and provide clear direction for all consultants involved.

5.3. Submittals

5.3.1. Before any planting materials are delivered to the job site, submit a complete list of suppliers or nurseries where plants are to be obtained, along with any proposed substitutions.

5.3.2. TSU reserves the right to reject any plant material delivered to the site that do not meet the specifications outlined in this section. Remove rejected plants immediately from the Project site.

5.4. Product Handling

5.4.1. Deliver all materials in sealed containers. Materials that become damaged and unsuitable for use shall be replaced.

5.4.2. Temporary Storage and Protection

5.4.2.1. Always protect plants from sun and drying winds.

5.4.2.2. Plants that cannot be planted immediately on delivery shall be kept in the shade, well-protected with soil, shredded hardwood mulch, straw, or other acceptable material, and shall be kept well-watered.

5.4.3. In the event of damage, immediately undertake all necessary repairs and replacements at no additional cost.

5.5. Product Samples

5.5.1. Items to be submitted prior to installation for approval by the Project-In-Charge include, but are not limited to the following items

5.5.1.1. ¾ Gravel Bedding

5.5.1.2. Garden Soil

5.5.1.3. Bermuda Grass

5.5.1.4. Birds of Paradise, clustered, 800mm width, 800mm height, spaced 250mm on center

5.5.1.5. Cigar Calathea, clustered, 800mm width, 300mm height, spaced 500mm on center

5.5.1.6. Swiss Cheese Plant, clustered, 500mm width, 500mm height, spaced @ 500mm on center

5.5.1.7. Sword Fern, clustered, 300mm width, 300mm height, spaced 200mm on center

5.5.1.8. Xanadu Philodendron, clustered, 500mm width, 800mm height, spaced @ 500mm on center

5.5.1.9. Peace Lily, clustered, 500mm width, 800mm height, spaced 300mm on center

5.6. Execution

5.6.1. Inspection

5.6.1.1. Prior to all work in this section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.

5.6.1.2. Verify that all topsoil installation methods and approvals have been completed in accordance with this section.

5.6.1.3. Verify that all proposed work areas are free of weeds and rocks ¾ inch in diameter or larger.

5.6.1.4. Verify percentage of compaction of existing subsoil and topsoil installation is acceptable for healthy, grass growth and root establishment with appropriate percentages of soil particles, water, and air per cubic foot.

5.6.1.5. Verify with the Project-In-Charge that topsoil installation has been approved.

5.7. Planting

5.7.1. General

5.7.1.1. Topsoil for planting operations shall be furnished by the Contractor as specified within.

5.7.1.2. Provide positive drainage away from all buildings and around or away from all planting beds to prevent ponding of water. Do not raise bed grades or finished grades above finished floor elevations, keep at least 50 mm below Ground Floor Level.

5.7.1.3. Give notification to Project-In-Charge of completion of Earthwork prior to proceeding with the installation of topsoil. Project-In-Charge to approve sub-grade soil conditions prior to the installation of any topsoil.

5.7.1.4. Give notification to the Project-In-Charge of completion of Topsoil work prior to proceeding with planting operations. Project-In-Charge to approve topsoil installation prior to the installation of any plant material.

5.7.2. Protection

5.7.2.1. Protect all planting areas and existing plants from damage. If any plants are injured, treat and replace as required. Execute no work in or over prepared planting areas, or adjacent to planting without proper safeguards and protection

5.7.3. Maintenance and Plant Warranty

5.7.3.1. The Contractor shall maintain all landscaped areas for a period of sixty (60) calendar days after completion of the landscaping works or until final acceptance of the project, whichever occurs later.

5.7.3.2. During the maintenance period, the Contractor shall undertake all necessary operations to ensure the proper establishment and healthy growth of all plant materials. Maintenance activities shall include watering, fertilizing, mowing of grassed areas, weeding, pruning, pest and disease control, and general upkeep of landscaped areas.

5.7.3.3. The Contractor shall guarantee that all plant materials furnished and installed under this Contract are healthy, vigorous, and free from defects at the time of planting. All trees, shrubs, groundcovers, and grass shall be warranted to survive and remain in healthy condition during the required maintenance period.

5.7.3.4. Any plant material that dies, becomes unhealthy, or fails to establish during the maintenance period, or any damage to planted materials resulting from defective work, improper installation, shall be replaced by the Contractor at no additional cost to the Owner. Replacement plants shall be of the same species, size, and quality as originally specified.

5.7.3.5. Final acceptance of the landscaping works shall be granted only when all plant materials are alive, healthy, and properly established, and when the required maintenance period has been satisfactorily completed to the satisfaction of the Project-In-Charge.

SECTION 6 – ELECTRICAL WORK

6.1 SCOPE OF WORK

6.1.1 The Contractor shall provide all materials and equipment and perform all the work necessary for the complete execution of the electrical work specified herein; except as otherwise excluded, and which without excluding the generality of the foregoing, shall include but not be limited to the following principal items of work. All work shall be in accordance with the governing codes and regulations and with the specifications, except when the same shall conflict with such codes, etc. in which case the latter shall then govern.

6.1.2 The work under this section shall include the furnishing of labor, materials, equipment, and services required to construct and install the new electrical system which includes, but is not limited to, the following items.

6.1.1.1 Provide a complete Lighting System.

6.1.1.2 Provide operation of the lighting systems.

6.1.1.3 Optional items of work.

6.1.1.4 All tapping shall be executed inside the ceiling unless indicated in the plan and on the mounting type of equipment.

6.1.1.5 If anything has been omitted in any items of work on materials usually furnished, which are necessary for the completion of the Electrical Works as outlined herein before, then such must be and are hereby included in this section of the work.

6.2 GENERAL

6.2.1 Codes, Regulations, and Ordinances

6.2.1.1 The electrical item under this contract is to be installed according to the requirements of the latest Philippines Electrical Code, the rules and regulations of the Authority concerned and the requirements of the Power Company. Nothing contained in these specifications or shown on the drawings shall be construed as to conflict with the National and Local Ordinances or Laws governing the installation of electrical work, and all laws and ordinances are hereby made part of these specifications. The Contractor is required to meet the requirements thereof.

6.2.2 Plans and Drawings

6.2.2.1 The Contract Drawings, which constitute an integral part of this contract, shall serve as workings drawings. They indicate the general layout of the complete electrical system and show arrangements of feeders, circuits, outlets, switches, control panel boards, service equipment, fixtures, and other works.

6.2.2.2 The Contractor shall check architectural, structural, and plumbing plans to avoid possible installation conflicts. Should drastically changes from original plans be necessary to resolve such conflicts, the Contractor shall notify the Engineer/Architect and shall secure from him written approval and agreement concerning necessary changes and adjustments before altered installation work is started.

6.2.3 Minor Modifications

6.2.3.1 The plans as drawn are based upon architectural plans and details show conditions as accurately as is possible to indicate them in scale. The plans are diagrammatical and do not necessarily show all fittings, etc., necessary to fit the conditions. The locations of lighting fixtures and switches shown on the plans are approximate. The Contractor shall be responsible for the proper location to make them fit with architectural details

6.2.4 Guarantees

6.2.4.1 The Contractor shall guarantee that the electrical system is free from all grounds and all defective workmanship and materials and will remain so for a period of one (1) year from the date of acceptance of the work. Any defects, appearing within the aforesaid period, shall be remedied by the Contractor at his own expense.

6.2.4.2 The Contractor shall indemnify and save harmless the TSU and his duly authorized representative from and against all liability for damages arising from injuries or disabilities to persons or damage to property occasioned by any act or omission of the Contractor, including all expenses, legal or other, which may be incurred by the TSU in the defense of any claim, action, or suit.

6.2.5 Samples and Drawings

6.2.5.1 The Contractor shall submit to the Engineer/Architect for approval samples of fixtures, conduit, wire, wiring devices, finished plates and of any item as may be required by the Engineer/Architect.

6.2.5.2 Prepare and submit for approval shop drawings or catalogs of equipment appliances and fixtures.

6.3 INSTALLATION REQUIREMENTS

6.3.1 All materials shall be new and shall conform to the standards specified in the Philippine Electrical Codes and others such as IEEE and NEMA, for every case where such standard has been established for the particular type of materials in question.

6.3.2 All materials on all systems shall comply with the following specifications unless specifically accepted, and all materials that were not specified shall be of the best of their respective kind.

6.3.3 Cutting and Fitting

6.3.3.1 Contractor shall do all cutting and fitting required for the installation of the electrical items and coordinate with the work of other trades, in accordance with the drawings and in a manner satisfactory to the

Engineer/Architect.

6.3.4 Operation Test

6.3.5.1 It shall be the responsibility of the Contractor to test all systems of the entire electrical installation for proper operational conditions. These conditions shall apply to the power and lighting installations as well as the fire alarm system and motors.

6.4 MATERIALS

6.4.1 Wires and Cables

6.4.1.1 The installation shall be free from improper grounds and short circuits. All wires shall be copper, soft-drawn, and annealed, shall be of 98% conductivity, shall be smooth and fine and of a cylindrical form, and shall be within 1% of the actual size called for.

6.4.1.2 All conductors shall be UL-listed and shall comply with the applicable standards for electrical installations.

6.4.1.3 Wires shall be color coded as follows:

Line 1 --- Black Line 2 --- Red Ground --- Green

6.4.1.4 All wires and cables for lighting and power system shall be moisture and heat resistant rubber or thermoplastic insulate. It must be in conformity with the Philippine Electrical Code when used in damp or unit location. Wires shall be stranded for sizes #12 AWG.

6.4.1.5 All wires and cables shall comply with the requirements as to the particular usage and approved brand.

6.4.2 Pipes

6.4.2.1 Wiring shall be done in PVC Pipe for embedded and in RSC or IMC for run exposed; it shall be Schedule 40.

6.4.2.2 No tubing shall be used in any system smaller than 1/2" electric trade size, nor shall have more than four 90-degree bends in any one run and where necessary pull, boxes shall be provided as directed.

6.4.2.3 No wire shall be pulled into any conduit until the conduit system is complete in all details and in the case of concealed work until all rough plastering or masonry has been completed in every detail.

6.4.2.4 The ends of all conduits shall be tightly plugged to exclude plaster, dust, and moisture while the building is in the process of construction. All conduit ends shall be reamed to remove all burrs.

6.4.3 Junction And Pull Boxes

6.4.3.1 PVC Junction and pull boxes shall be provided as indicated or as required for facilitating and pulling of wire and cables. Pull boxes in finished places shall be located and installed with the permission and to the satisfaction of the contracting officer. Exposed PVC boxes, conduits, and clamps shall be painted to match the existing finish of the surface on which they are installed.

6.5 LIGHTING SYSTEM

6.5.1 Install all new lighting fixtures as specified or at locations shown in plans or as directed by the Engineer/Architect.

- 7 Watts LED Garden Light with stake
- Warmwhite

6.5.2 Wall switches shall be rated at 15 amperes, 250 volts, one way or as required. Switches shall be of quiet and automatic action type, silver contact, feather touch operation, and white.

- One-Gang Switch with weatherproof cover
- Wide Series
- 250V, 15A

6.6 CONSUMABLE HARDWARE / FITTINGS

6.6.1 PVC Cement, G.I. wires, brackets, electrical tape, tox screw, and other small value materials needed to execute layouts and termination of electrical works shall be considered as consumable hardware.

6.6.2 Junction box, pullbox, Utility box, adaptor, locknut, coupling, unistrat channel, unistrat strap, full thread round rod, expansion/anchor bolt, bolts, nuts, washer, etc. and other small value materials needed to execute layouts and termination of electrical works shall be considered as Fittings.

Line Items

Item No.	Product/Service Name	Description	Quantity	UOM	Budget (PHP)
1	Construction of CHED Marker	Project: Construction of CHED Marker with Embankment and Landscaping Works for Community Sports and Wellness Center. Location: San Isidro Campus, Tarlac State University Duration: 30 Calendar Days Please refer to the Request for Quotation for complet	1	Lot	646,247.78

Other Information

The bidders must download the attached documents in the associated component section.

Note: This item is to be acquired as a lot.

Please refer to the Request for Quotation for complete specifications

Created by Tutchie Panlilio

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