Republic of the Philippines
CAVITE STATE UNIVERSITY
Don Severino delas Alas Campus
Indang, Cavite

BILL OF QUANTITIES

CONSTRUCTION OF CEMDS PARKING AREA
ABC: ₱ 4,260,467.91 **Bill of Quantities**
COLLEGE/UNIT/CAMPUS: MAIN CAMPUS

Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
I	PRELIMINARY WORKS AND EARTHWORKS (Pesos _____ _____ _____ and _____ centavos)				
II	CONCRETE WORKS (Pesos _____ _____ _____ and _____ centavos)				
III	MASONRY WORKS (Pesos _____ _____ _____ and _____ centavos)				
IV	CARPENTRY WORKS AND MISCELLANEOUS WORKS (Pesos _____ _____ _____ and _____ centavos)				
	GRAND TOTAL				_____
	Write grand total in words	_____ _____ _____			

Submitted by: Date: _____
Name of Bidder/Bidder's Representative: _____
(Signature over Printed Name)
Position: _____
Construction Company/Contractor: _____

SCOPE OF WORK:

A. **CONSTRUCTION OF CEMDS PARKING AREA**

GENERAL NOTES:

1. The project should be finished in 120 calendar days.
2. Actual site inspection is a must.

B. Technical Description

I. Earthworks

A. Permit Processing, etc.
   1. Taxes, fees, etc.
   2. Conduct confirmatory soil boring tests.
   3. The Contractor shall be responsible for the processing and payment of all required building permits, clearances, and other regulatory fees necessary for the execution of the Works, up to and including the issuance of the Certificate of Occupancy.
   4. Provide certified true copy of clearances and permits.

B. Mobilization / Demobilization
   Provide the following:
   1. Billboard with project information
   2. Bunkhouse with temporary office
   3. Temporary comfort rooms
   4. Provide temporary perimeter protection such as blue sheet and bracing, to avoid disturbing the soil during excavation.
   5. It includes cleaning up of site, clearing, hauling and disposal of waste and construction debris before and after the construction work at least six meters away from the building line. Notify the end-user regarding the properties that need to be hauled away from the site prior to construction. All waste materials shall be disposed of by the contractor at his expense.
   6. Any excess materials resulting from all earthwork operations not required or unsuitable for backfill as directed by the project inspector, shall be disposed of by the contractor at his expense.

C. Excavation / backfilling
   1. This work includes excavation for concrete road, parking, canal, footings, box culvert, retaining walls and other concrete components.
   2. Provide heavy equipment for scrapping, compacting and leveling of road and parking.

II. Concrete Works

A. Cast-in place concrete
   1. Concrete works include road, parking, wall/column footing, columns, curves & gutters, sidewalked, stopper, box culvert, retaining wall and other concrete components.
   2. Strength of concrete to be adopted shall be 3,500 psi
   3. Concrete works should be rough cement finished curves & gutters and stoppers.
   4. Provide necessary tools and equipment needed for concrete works.
   5. Reasonable number of tests on the concrete is required by the implementing agency during the progress of the work. Not less than two (2) cylindrical specimens shall be reserved for the 28th day test. The Contractor shall pay for the cost of material testing.
   6. In case of failure of test cylinders to meet the specified strengths, the Contractor shall at his expense obtain concrete core samples from the poured concrete and the compressive strength of same be taken by a competent testing authority to determine the conclusive strength and integrity of the concrete poured.

B. Steel reinforcement
   1. Use 16 mm, deformed bar grade 40 @ every 0.40 m. for construction joint dowels.
   2. Use deformed bar grade 33 for sidewalks and curves & gutter (0.40 m. x 0.40 m. both ways)
   3. See plan for details and extent works.
   4. The contractor shall furnish 2 copies of the manufacturer's certificate of mill tests

of all reinforcing steel. The contractor shall at his own expense employ an approved testing laboratory which shall conduct testing of all reinforcement sizes of each bulk under the supervision of the project inspector.

III. Masonry Works

A. CHB laying

1. Construction of zocalo wall reinforced with 10mm Ø deformed bar for the perimeter of parking, walk and road.
2. Construction of CHB wall 5" reinforced with 10mm Ø deformed bar speed at 0.60 m. on center every three layers along the sidewalk at the south portion of the building.
3. Masonry works should be plastered plain cement finished.
4. This work also includes painting of two (2) coats of epoxy primer for concrete at parking partitions and stoppers.

IV. Carpentry Works and Miscellaneous Works

1. Provide necessary form lumber for the completion of the project.
2. Provide steel grating for open canal AT parking area
   a. Use Deformed bar 20mm vertical & horizontal space @ 0.40 m. on center with 16 mm. deformed bar space @ 0.05 m. horizontal.
   b. The whole length of the steel grating should be divided into one meter length.
   c. This work also includes painting of two (2) coats of epoxy primer and two (2) coats of quick dry enamel black.

C. Contractor of the said project must provide an as-built plan of the project at the end of the contract as a requirement for the release of their final billing.

D. For color/types of any fixtures or materials to be used on site, consult the end-user and the inspector for approval. Consult the plan and the scope of work for the extent of tasks of the contract. If possible, let the end-user sign your sample as proof of approval.

E. The plans, detailed drawings and these specifications shall be considered as complementing each other, so that what is mentioned or shown in one, although not mentioned or shown in the other, shall be considered as appearing on both. **In case of conflict between the two, generally, the scope of work prevails.**

F. Resident site engineer is a must for the projects to be undertaken by the contractor of the university. In cases where there are electrical works, it is required that an electrical engineer or a master electrician be a part of the contractor's team to supervise all electrical works. Likewise, master plumbers must supervise plumbing works. It can be considered when only one person is the master plumber and master electrician at the same time as long as his major duty is supervision of both fields. Safety engineer is a must as per DOLE requirement. **Note: All key personnel should be included in the list of personnel for submission.**

G. In cases of participation in two or more projects, the set of workers and foreman shall be different per project, however, the set of engineers and equipment may be reused**.**

H. Construction safety and health program as well as construction schedule (PERT/CPM/S-Curve) shall be provided by the winning bidder.

I. All public utilities used by the winning contractor in the construction of the project, such as electricity, water, telephone, etc., shall be for the sole account of the contractor.

J. See plans/consult the end-user and project inspector for details and extent of work. The silence of specifications, plans, special provisions and supplementary specifications as to any detail, or the apparent omission therein of detailed description or definition of the quality of materials and workmanship shall be regarded to mean that only materials and workmanship of first class quality are to be used or employed.