

# Republika ng Pilipinas



Lungsod Quezon BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE & CONSULTANCY 2<sup>nd</sup> Floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

### September 30, 2021

# **Request for Quotation/ Proposal**

No.	Project No.	Project Name	Location	Amount	Duration Cal. Days	Source Fund
Park	ks - Small	<u>A</u>			-	
1	21-001 SV	Proposed Rehabilitation of Welcome Arc at Manresa Park	Manresa	247,536.00	30	Engineering Department
Buil	dings – S	mall A				1
2	21-002 SV	Proposed Rehabilitation of Reception Area at Various Health Center (District 2)	Various Barangays	341,124.74	30	OCM-20% CDF
3	21-003 SV	Proposed Temporary Enclosure for Crematory Machine at Baesa Crematorium	Baesa	594,910.45	30	Engineering Department-SB No. 1
4	21-004 SV	Proposed Rehabilitation of Reception Area at Various Health Center (District 3)	Various Barangays	632,587.24	30	OCM-20% CDF
5	21-005 SV	Proposed Rehabilitation of Material Recovery Facility at Third Floor (Roof Deck)	Mariana	789,657.49	60	Engineering Department-SB No. 1
6	21-006 SV	Proposed Rehabilitation of Reception Area at Various Health Center (District 1)	Various Barangays	809,220.13	30	OCM-20% CDF
7	21-007 SV	Proposed Rehabilitation of Reception Area at Various Health Center (District 6)	Various Barangays	851,009.93	30	OCM-20% CDF
8	21-008 SV	Proposed Rehabilitation of Multi- Purpose Hall at Bagumbuhay	Bagumbuhay	908,267.19	60	Engineering Department-SB No. 1
9	21-009 SV	Proposed Rehabilitation of Reception Area at Various Health Center (District 4)	Various Barangays	953,997.37	30	OCM-20% CDF
10	21-010 SV	Proposed Rehabilitation of Tennis Court at Villa Orion Union	West Fairview	995,610.53	60	Engineering Department-SB No. 1
Road	ds – Smal	<u>I B</u>				<b>I</b>
11	21- 011SV	Proposed Rehabilitation of Steel Bridge at Tacloban Street	Alicia and Bahay Toro	695,189.25	90	Engineering Department
Road	ls – Smal	<u>I B</u>				
12	21-012 SV	Proposed Rehabilitation (Surface Improvement) of Halcon Street at Amparo Subdivision	Nagkaisang Nayon	897,220.87	10	Engineering Department
13	21-013 SV	Proposed Rehabilitation of Road and Drainage at Balimbing Street	Veterans Village	971,164.95	60	OCM-20% CDF



# Republika ng Pilipinas Lungsod Quezon



BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE & CONSULTANCY QUEZON CITY 2<sup>nd</sup> Floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

The Quezon City Government through its Bids and Awards Committee – Infra and Consultancy undertake an Small Value Procurement in accordance with Section 53.9 of the Revised Implementing Rules and Regulations of Republic Act No. 9184.

Please quote your best offer for the project/s described above, subject to the Terms and Conditions provided. Submit your proposal/price quotation duly signed by you or your duly authorized representative not later than **5 October 2021** on or before **10:00 A.M.**, Philippine Standard Time, together with the following documents:

- 1. PhilGEPS Platinum Certificate
- 2. DTI or SEC Registration Certificate
- 3. Mayor's Permit
- 4. Tax Clearance
- 5. PCAB License (Bidders with valid Philippine Contractors Accreditation Board (PCAB)
- 6. Audited Financial Statements
- 7. Net Financial Contracting Capacity (NFCC)
- 8. List of Key Construction Personnel to be assign for the project
- 9. List of Major Equipment to be used for the Project
- 10. Duly Notarized Affidavit of Undertaking of Key Personnel and Equipment
- 11. Income/Business Tax Returns

12. Omnibus Sworn Statement prescribed by the Government Procurement Policy Board (GPPB) duly notarized with attached Secretary's Certificate (*If a partnership, corporation, cooperative, or joint venture*). The authorized representative as identified in the Omnibus Sworn Statement shall be the signatory in the proposal/price quotation form.

Opening of Quotations/Proposals will be on **5 October 2021** at exactly **11:00 A.M.** 

#### in a SEALED LONG BROWN ENVELOPE shall:

- 1 Contain the Name of Project of the contract to be quoted in capital letters;
  - Bear the name and address of the Contractor in capital letters;
  - Be addressed to the Procuring Entity's BAC.

Name of Project: IN CAPITAL LETTERS

2

3

#### Quezon City Local Government BIDS AND AWARDS COMMITTEE (INFRA & CONSULTANCY) 2/F Procurement Department, Finance Building Quezon City Hall Compound

For any clarification you may contact us at 89884242 loc. 8505/8709.

ATTY. MARK DALE DIAMOND P. PERRAL Chairman, BAC Infra and Consultancy



# Republika ng Pilipinas Lungsod Quezon



BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE & CONSULTANC Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Great.Gr

### TERMS AND CONDITIONS

- 1. Contractor shall provide correct and accurate information required in this form.
- 2. Price quotation/proposal must be valid for a period of thirty (30) calendar days from the date of submission.
- 3. Price quotation/proposal, to be denominated in Philippine Peso shall include all taxes, duties and/or levies payable.
- 4. Quotation/Proposal exceeding the Approved Budget for the Contract (ABC) shall be rejected.
- 5. Award of contract shall be made to the lowest quotation/proposal (for infra) which complies with the minimum technical specifications and other terms and conditions stated herein.
- 6. Any interlineations, erasures or overwriting shall be valid only if they are signed or initialed by the contractor or his/her duly authorized representative/s.
- 7. The Engineering Department shall have the right to inspect and monitor the construction projects
- 8. Non-submission of eligibility documents shall mean disqualification of Quotation/Proposal.
- 9. Liquidated damages equivalent to one tenth (1/10) of one percent (1%) of the cost of the unperformed portion for every day of delay, Engineering Department shall rescind 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.
- 10. Failure to follow these instructions will disqualify your entire quotation/proposal.

ATTY. MARK DALE DIAMOND P. PERRAL Chairman, BAC Infra and Consultancy



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

5th, 6th, 7th Floors, Q.C. Civic Center Building B Telephone No. 8988-4242 Local 8538



PROJECT TITLE: PROPOSED REHABILITATION OF TENNIS COURT AT VILLA ORION UNION, LOCATION: BRGY. WEST FAIRVIEW, DISTRICT 5, QUEZON CITY

### LIST OF MANPOWER

NO	MANPOWER	QUANTITY
1	Project Engineer	1
2	Materials Engineer	1
3	Safety Officer	Refer to DOLE Requirement
4	Foreman	1
5	Skilled Worker	6
6	Driver	1
7	Heavy Equipment Operator	1
8	Laborer	7
1		

Prepared by:

VERGEL JEROME A. MAPILI Planning and Programming Division Checked by:

JOCE () NAONG XPlanning and Programming Division



Republika ng Pilipinas Lungsod ng Quezon

**CITY ENGINEERING DEPARTMENT** 

5th, 6th, 7th Floors, Q.C. Civic Center Building B Telephone No. 8988-4242 Local 8538



PROJECT TITLE: PROPOSED REHABILITATION OF TENNIS COURT AT VILLA ORION UNION / LOCATION: BRGY. WEST FAIRVIEW, DISTRICT 5, QUEZON CITY

# LIST OF EQUIPMENT

NO	EQUIPMENT	QTY
1	Bar Cutter	1
2	One - Bagger Mixer	1
3	Welding Machine	1
4	Elf Truck	. 1
5	Minor Tools	As Needed
6	Power Tools	As Needed

Prepared by:

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VERGEL JEROME A. MAPILI Planning and Programming Division Checked by:

JOCELYNA. NAONG Planking and Programming Division



Republic of the Philippines **Quezon City** 

CITY ENGINEERING DEPARTMENT Civic Center Building B, Quezon City Hall Compound, Elliptical Road Dilíman, Central 1100 Quezon City Trunkline: +63 2 8988 4242



# **TECHNICAL SPECIFICATIONS**

# QUEZON CITY INFRASTRUCTURE PROJECT

#### PROJECT TITLE : PROPOSED REHABILITATION OF TENNIS COURT AT VILLA ORION UNION LOCATION : BRGY. WEST FAIRVIEW, DISTRICT 5, QUEZON CITY

#### I. GENERAL REQUIREMENTS

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.
- b. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- c. Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- d. Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- e. Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.
- f. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in struct accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.
- g. All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- h. Mobilization and Demobilization (if applicable)
  - i. Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
  - ii. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- i. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- j. Temporary Facilities and Utilities
  - i. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
  - ii. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
  - iii. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.

- iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
- v. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
- vi. Upon completion of the work, the temporary facilities shall be demolished, hauledout and disposed properly.
- k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
  - i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
  - ii. The medical room shall be provided in waterproof; it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
  - iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
  - iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- I. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- m. Final cleaning of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

#### II. SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing to work.
- B. Removal / demolition of existing structures shall be done in accordance to safety procedures.
- C. All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.
- D. All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wetting, tamping and rolling.

#### III. CIVIL / STRUCTURAL WORKS

#### A. CONCRETE WORK

- a. Delivery, Storage, and Handling: All materials shall be so delivered, stored, and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Package materials shall be delivered and stored in original packages until ready to be used. Packages or materials showing evidence of water or other damage shall be rejected.
- b. Unless otherwise specified herein, concrete works shall conform to the requirements of the ACI Building Code. Full cooperation shall be given on trades to install embedded items. Provisions shall be made for setting items not placed in the forms. Before concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.

#### c. Materials

- i. Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C 150).
- ii. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
- iii. Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be course, sharp, clean free from salt, dust, loam, dirt and all foreign matters.
- iv. Coarse aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.
- d. Proportioning and Mixing
  - Proportioning and mixing of concrete shall conform to the requirements for Item 405 of the standard specification with the following proportions:

Cement : Sand : Gravel

- Class "A" 1 : 2 : 3
- Class "B" 1 : 2 : 4
- Class "C" 1 : 2 1/2
- ii. Concrete mixture to be used for concrete shall conform with the structural requirements.
- iii. Mixing concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.
- e. Forms
  - i. General Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete. Forms shall be <sup>1</sup>/<sub>4</sub>" waterproof plywood and form lumber.
  - ii. Cleaning of Forms before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of mortar, the grout or other foreign material.
  - iii. Removal of Forms forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.
- f. Placing Reinforcement:

Steel reinforcement shall be provided as indicated, together with all necessary wire tires, chairs, spacer supported and other devices necessary to install and secure the reinforcement properly. All reinforcement, when placed, shall be free from loose, flaky rust and scale, oil grease, clay and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and ties. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

- g. Conveying and Placing Concrete:
  - i. Conveying concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
  - ii. Placing concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
  - iii. Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.
  - iv. Consolidation of Concrete concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and tamping. Vibrators shall not be inserted into lower cursed that have commenced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.
  - v. Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same cement-sand ratios as used in concrete shall be first deposited to cover the surfaces.

#### h. Curing

- i. General All concrete shall be moist cured for a period not less than seven (7) consecutive days by an approved method or combination applicable to local conditions.
- ii. Moist Curing The surface of the concrete shall be kept continuously wet by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing.

#### i. Finishing

- i. Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be smooth, true to line and shall present or finished appearance except for minor defects which can be easily repaired with patching with cement mortar, or can be grounded to a smooth surface to remove all joint marks of the form works.
- ii. Concrete Slabs on Fill. The concrete slabs on fill shall be laid on a prepared foundation consisting of sub grade and granular fill with thickness equal to the thickness of the overlaying slab except when indicated.

#### **B. MASONRY**

- a. Masonry Units (CHB):
  - i. 100mm thick for all interior walls and 125mm thick for all exterior walls unless otherwise indicated.
  - ii. Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.

- iii. Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provide stiffener columns & lintel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height & other considerations.
- b. Sand:

S-1, washed, clean and greenish in color.

c. Mortar:

One part "Portland" cement and two parts sand and water but not more than three parts sand and water.

d. Plaster bond:

Apply plaster bond to all wall area.

#### IV. ARCHITECTURAL WORKS

#### A. PAINTING WORKS

- a. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.
- b. Application shall be as per paint Manufacturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- d. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- e. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- f. All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- g. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

#### V. ELECTRICAL WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- B. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- C. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- D. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen.

E. When the tests and inspections have been completed, a label shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

#### F. PANELBOARDS

- F.1 Fabricate and test panel boards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- F.2 Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
  - F.2.1 Rated for environmental conditions at installed location.
    - i. Indoor Dry and Clean Locations: NEMA 250, Type 1.
    - ii. Outdoor Locations: NEMA 250, Type 3R.
    - iii. Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.
    - iv. Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
    - v. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5 or Type 12.
  - F.2.2 Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
  - F.2.3 Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.
  - F.2.4 Skirt for Surface-Mounted Panelboards: Same gage and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor.
  - F.2.5 Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
  - F.2.6 Finishes:
    - i. Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
    - ii. Back Boxes: Galvanized steel Same finish as panels and trim.
    - iii. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
  - F.2.7 Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover.
- F.3 Incoming Mains Location: Top or Bottom.
- F.4 Phase, Neutral, and Ground Buses:
  - F.4.1 Material: Hard-drawn copper, 98 percent conductivity.
  - F.4.2 Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
  - F.4.3 Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

#### VI. MECHANICAL WORKS (IF APPLICABLE)

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- B. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- C. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- D. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen.
- E. When the tests and inspections have been completed, a label shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

Prepared by:

A. MAPILI EL JERON VERO

Planning & Programming Division

Checked by:

JOCEV Planning & Programming Division

PROJECT TITLE: PROPOSED REHABILITATION OF TENNIS COURT AT VILLA ORION UNION

LOCATION : BARANGAY WEST FAIRVIEW, DISTRICT 5, QUEZON CITY

PROJECT NO. : 21 - 010 SV

DURATION : Ninety (90) Calendar Days

## BREAKDOWN OF COST

ITEM NO.	WORK DESCRIPTION	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
I	GENERAL REQUIREMENTS				
II	SITE WORKS				
	CIVIL WORKS / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	ELECTRICAL WORKS				

TOTAL COST P

LUMP SUM BID IN WORDS : \_\_\_\_\_

Contractor : \_\_\_\_\_

Page 3 of 3 Bid Form

### BILL OF QUANTITIES

#### (Building Construction/Rehabilitation Project)

#### PROJECT TITLE : PROPOSED REHABILITATION OF TENNIS COURT AT VILLA ORION UNION

#### LOCATION : BARANGAY WEST FAIRVIEW, DISTRICT 5, QUEZON CITY

PROJECT NO. : 21 - 010 SV

#### DURATION : Sixty (60) Calendar Days

#### SCOPE OF WORKS:

- 1 General Requirement include temporary facilities and utilities, billboard, construction safety and health, scaffolding, and clearing, hauling and disposal of construction materials and debris.
- 2 Site Works include removal and demolition works, layout and staking, site clearing and preparation and earthworks.
- 3 Civil and Structural Works include concrete works, masonry works and metal works.
- 4 Architectural Works include painting works.
- 5 Electrical Works include installation of roughing-ins, wiring, devices, fixtures and accessories.
- 6 All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
Ι	GENERAL REQUIREMENTS				
	Billboard	1	piece	₽	₽
	Clearing, Hauling and Disposal of Construction Materials and Debris	3	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	52	sq.m.		
	Temporary Electrical and Water Facilities	60	day		
	Temporary Enclosure Around the Construction Area (h=2.4m)	26	l.m.		
				Direct Cost I	₽
II	SITE WORKS				
	Removal Works				
	Demolition of Existing CHB Fence	28	sq.m.	₽	₽
	Removal of Existing Wire Mesh	38	sq.m.		
	Layout and Staking	69	sq.m.		
	Site Clearing and Preparation	69	sq.m.		
	Excavation for Structures				
	Column Footing	6	cu.m.		
	Wall Footing	9	cu.m.		
				Subtotal	₽
	Soil Treatment	82	sq.m.	₽	₽
	Gravel Bedding	1	sq.m.		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Backfill and Compaction	8	cu.m.	₽	₱
				Subtotal	₽
				Materials Cost II	₽
				Labor Cost II	
				Direct Cost II	₽
III	CIVIL WORKS / STRUCTURAL WORKS				
	Concrete Works				
	On-site Mix, 21 MPa, 3/4" Gravel, @ 28 Days				
	Column Footing	2	cu.m.	₽	₽
	Wall Footing	3	cu.m.		
	Column	3	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ, Column Ties	109	kg		
	12mmØ, Wall Footing	135	kg		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ, Footing	180	kg		
	16mmØ, Column	160	kg		
	Formworks				
	Column Footing	8	sq.m.		
	Wall Footing	12	sq.m.		
	Column	21	sq.m.		
	Scaffolding and Shoring				
	Column	20	l.m.		
	Masonry Works				
	150mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	69	sq.m.		
	Metal Works				
	Fence				
	50mm Ø GI Pipe	272	kg		
	50mm x 50mm Wire Mesh	23	sq.m.		
	Miscellaneous & Consumables				
	Acetylene Tank Refill	1	tank		
	Assorted Metal Drill Bit	3	piece		
	Cut Off Blade	3	piece		
	Grinding Disc Metal	3	piece		
	Oxygen Tank Refill	1	tank		
	Welding Rod	1	box		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Re-installation of Existing Wire Mesh Fence and Gate	38	sq.m.		
				Subtotal	₽
-					
				Materials Cost III	₽
-				Labor Cost III	
				Direct Cost III	₽
IV	ARCHITECTURAL WORKS				
	Painting Works				
	Elastomeric Paint Finish (Exterior Walls)	356	sq.m.	₽	₽
	Epoxy Enamel Paint Finish (Steel Surfaces)	244	sq.m.		
				Materials Cost IV	₽
				Labor Cost IV	
				Direct Cost IV	₽
V	ELECTRICAL WORKS				
	Roughng-ins				
	20mmØ PVC Pipe	75	piece	₽	₽
	Fittings and Accessories				
	20mmØ PVC Adaptor	12	piece		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	20mmØ PVC Locknut and Bushing	12	pair		
	100mm x 100mm PVC Junction Box with Cover	6	piece		
	Wires and Cables				
	3.5mm <sup>2</sup> THHN Wire	2	roll		
	Lighting Fixtures ( Energy Efficient )				
	Lamp with 10W LED Bulb	6	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	All Around Sealant	1	can		
	Electrical Tape	5	roll		
	G.I Tie Wire (for cable pulling)	1	kg		
	Hacksaw Blade	2	piece		
	Masking Tape	1	roll		
	Pulling Lubricant	1	gal		
	Rubber Tape	3	roll		
				Materials Cost V	₽
				Labor Cost V	
				Direct Cost V	₽

#### SUMMARY

ITEM NO	WORK DES	TOTAL COST	
I II IV V	GENERAL REQUIREMENTS SITE WORKS CIVIL WORKS / STRUCTURAL WORK ARCHITECTURAL WORKS ELECTRICAL WORKS	₽	
	y enforce health protocols relative to the applicable DPWH memorandum	TOTAL DIRECT COST Overhead, Contingencies and Miscellaneous Expenses (OCM) PROFIT VAT TOTAL ESTIMATED COST	









