



BIDS AND AWARDS COMMITTEE (BAC)

SUPPLEMENTAL BID BULLETIN NO. 2021 – 03

August 10, 2021

This Supplemental Bid Bulletin No. 2021 – 03 is issued to amend the Parameters, Bid Data Sheet and the schedule of activities for the “Design and Build of 3 Storey with Roofdeck; Green Technology Earthquake-Resilient Agriculture and DevCom Academic Building, 24 classrooms (8m x 9m)including roofdeck (super structure only)” with an ITB No. 2021-07-006

I. Changes on the Parameters

1. On Section I Project Description, item no. 1- General

FROM	AMENDMENTS/CHANGES
<p>I. Project Description</p> <p>1. General</p> <p>The Agri & DevCom Building is a three-storey with roof deck of modern-type structure design that adheres with <i>Earthquake Resilient, Green Building or Green Architecture and GAD Sensitive</i> providing the most conducive environment for studying, research, group discussions, conferences for students, faculty members and other users. It shall contain winding reinforced concrete staircase at the center and two (2) staircases on both ends from ground to third floor with skylight roofing. The building shall be intelligently planned that captures the desire of every student to spend more time in their classrooms maximizing the use of its resources. Ground floor shall contain area for receiving/information counter, academic offices (Agri-institute dean's office, Agriculture Dept, Agroforestry Dep't. and DevCom Dept.), faculty lounge, Lecture Hall (tiered seating with pitched floor). Second floor will primarily serve as venue for classrooms (5 classrooms standard), learning commons, student lounge and computer laboratory. Third floor is intended for the Development Communication classrooms (1 classroom), computer/multi-media room,</p>	<p>I. Project Description</p> <p>1. General</p> <p>The Agri & DevCom Building is a three-storey with roof deck of modern-type structure design that adheres with <i>Earthquake Resilient, Green Building or Green Architecture and GAD Sensitive</i> providing the most conducive environment for studying, research, group discussions, conferences for students, faculty members and other users. It shall contain winding reinforced concrete staircase at the center and two (2) staircases on both ends from ground to third floor with function hall and solar panels. The building shall be intelligently planned that captures the desire of every student to spend more time in their classrooms maximizing the use of its resources. Ground floor shall contain area for receiving/information counter, academic offices (Agri-institute dean's office, Agriculture Dept, Agroforestry Dep't. and DevCom Dept.), faculty lounge, Lecture Hall (tiered seating with pitched floor). Second floor will primarily serve as venue for classrooms (5 classrooms standard), learning commons, student lounge and computer laboratory. Third floor is intended for the Development Communication classrooms (1</p>



<p>integrated lab and broadcast lab/studio (bigger room-twice as large as a classroom) and laboratory rooms (AnScie Lab, Horticulture Lab, Crop Protection Lab, Soils Lab and Agricultural Laboratory and Instrumentation Room). (See Section 1.4 of Item VI for detailed information and requirements.)</p>	<p>classroom), computer/multi-media room, integrated lab and broadcast lab/studio (bigger room-twice as large as a classroom) and laboratory rooms (AnScie Lab, Horticulture Lab, Crop Protection Lab, Soils Lab and Agricultural Laboratory and Instrumentation Room). (See Section 1.4 of Item VI for detailed information and requirements.)</p>
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2. Changes on Sect. V Design Concepts and Requirements Item no. 1- Architectural Design, sub item no. 1.2- Materials

FROM	AMENDMENTS/CHANGES
<p>1.1 Materials. The use of materials not specified herein shall be subject to prior approval of the Head of the Procuring Entity or his representative.</p> <ul style="list-style-type: none"> i. All materials shall be fire and moisture resistant, non-toxic and non-attractive to termite attack. ii. Concrete masonry units (1000 psi) on all external walls. Interior CMU walls (600 psi) cement plastered finished. iii. Glass windows shall be of dark gray type with a minimum thickness of six (6) millimetres on powder coated aluminum frames. iv. Main entrance shall be made of frameless glass doors (tempered). Office and/or other doors shall be made of dark gray glass (tempered) panels on powder coated aluminum frame. Frameless glass doors (tempered) shall have a minimum thickness of twelve (12) millimeters. iv. Glass partitions/walls must be of clear type (tempered) on powder coated aluminum frame and shall have a minimum thickness of twelve (12) millimetres except otherwise as required/stated in Section 1.4.6. v. Use laminated boards complete with accessories for office cubicles and built-in cabinets/furniture of colors complementing the office walls color scheme. vi. All railings including grab rails shall made of stainless steel (304) with dimensions 	<p>1.1 Materials. The use of materials not specified herein shall be subject to prior approval of the Head of the Procuring Entity or his representative.</p> <ul style="list-style-type: none"> i. All materials shall be fire and moisture resistant, non-toxic and non-attractive to termite attack. ii. Concrete hollow block 6” thick (1000 psi) on all external walls. Interior CHB walls 4” thick (600 psi) cement plastered finished. iii. Glass windows shall be of dark gray type with a minimum thickness of six (6) millimetres on powder coated aluminum frames. iv. Main entrance shall be made of double door frameless glass (tempered). Office and classroom doors shall be made of wood panel with viewing glass in compliance to GAD requirements. Toilet doors must be flush door marine plywood. v. Door Knobs shall be lever type stainless steel. Door hinges shall be 3.5" x 3.5" ball bearing. Magnetic Door stoppers - either wall or floor mounted. Provide door closer - Main, office, conference and toilet. vi. Glass partitions/walls must be of clear type (tempered) on powder coated aluminum frame and shall have a minimum thickness of twelve (12) millimetres except otherwise as required/stated in Section 1.4.6. vii. Use laminated boards complete with accessories for office cubicles and built-in



<p>conforming to the applicable codes, laws, and standards.</p> <p>vii. Door knobs shall be of lever type and made of stainless steel. Installation height shall conform to BP 344.</p> <p>viii. Use flat latex paints for ceilings. Interior wall finish shall be of semi-gloss acrylic latex paints, while exterior finish shall be of watertight solvent based paints.</p> <p>ix. Floor finish for wet areas shall be of non-skid tile finish. Synthetic granite tiles shall be used for office floors, lobbies and hallways, conference rooms, and other floors with areas exceeding 8 sq.m.</p>	<p>cabinets/furniture of colors complementing the office walls color scheme.</p> <p>viii. All railings including grab rails shall made of stainless steel (304) with dimensions conforming to the applicable codes, laws, and standards.</p> <p>ix. Apply concrete neutralizer for all concrete surfaces. Apply concrete primer for all concrete surfaces and ceiling boards. All painting works shall be fully-putty. Painted ceiling shall be in at least latex finish, while cornices and mouldings shall be in gloss enamel finish. Painted interior wall shall be at least two (2) coats in semi-gloss latex finish for ordinary rooms, e.g. offices, unless specified to higher type of paint. Painted exterior wall shall be at least two (2) coats in moisture-resistant/water-repellant solvent-based paint finish, textured or smooth, unless otherwise specified. Apply emulsion clear paint on all exterior concrete surfaces. Paint color and shade shall be approved first before application.</p> <p>x. Floor finish for wet areas shall be of non-skid tile finish. Synthetic granite 600mm x 600mm for all floor areas.</p> <p>xi. Regular stairs shall have risers at least 150mm high and treads at least 300mm wide. Handrails shall be 1100mm high. Clearances shall conform with the requirements of the Fire Code of the Philippines. Corridors shall have a minimum unobstruction width of 4000mm. This shall be measured clear from the surface of the finished wall and not on-center of the rough CHB wall. Handrails must be 304 stainless steel (1.5" diameter). Railings must be 16mm square bars space at 150mm O.C. Use aluminum step nosing 2" wide.</p> <p>xii. Ceiling Works - Interior - 4.5mm thick fiber cement board on metal framings. Exterior (roof eaves) - metal soffit on metal framings. Metal rod hangers with adjustable clips, and NOT galvanized iron wires, shall be used to support and suspend the carrying channel and light gauge metal furrings.</p> <p>xiii. Trusses - use 2-6mm thick angle bar for Top/bottom Chords. Use 1-6mm thick angle bar</p>
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	<p>for vertical/diagonal web members.</p> <p>xiv. Purlins - Use 1.5mm thick x 2" x 6" CEE Purlins spaced at 700 mm O.C. Use 2-12mm dia. Plain Round Bars for Sag Rods. Use 16mm dia. Plain Round Bars for Cross Bracings with Turn Buckles.</p> <p>xv. Fascia Frame - Use 2-4mm thick angle bar for Fascia Frame. Use 12mm thk Fiber Cement Board for Fascia Board.</p> <p>xvi. Roofing- use 0.50mm thk Pre-painted Roofing Sheets, Rib-Type, Blue. Use Aluminum Radiant Heat Insulation MF 800 6-layer double-sided aluminium foil laminate with superior strength and puncture resistant properties on Galvanized Iron Wire Ga. 16 spaced at 300mm O.C. diagonals. All bended panels shall be 0.50mm thick prepainted, pre-moulded.</p> <p>xvii. Plumbing Works - Use series 1000 for sanitary/storm drainage pipings and fittings. For cold waterlines, use Polypropylene Pn16/Pn20 Fusion Weld Pipes with trims and fittings. Septic vault shall be of sufficient volume capacity consisting of three chambers. Water closets shall be 1.6 gpf. ADA manual flush valve, powerful direct-fed siphon jet action. Use ceramic under counter-type lavatory with stainless c-spout faucet. Kitchen Sink shall be of stainless steel seamless bowl with gooseneck faucet. Use waterless, replacesable cartridge wall hung urinal. Use standard stainless steel faucet for comfort rooms. Use 2 - horizontal stainless steel tank, capacity 2000 liters. Use booster pump 2-hp, pressure tank bladder type should be compatible to 2-hp booster pump.</p>
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3. Changes on Sect. V Design Concepts and Requirements Item no. 2- Structural Design, sub item no. 2.2- Materials

FROM	AMENDMENTS/CHANGES
<p>2.1 Materials. Listed below are the minimum quality specifications for the construction materials. Utilization of items and material quality not described in the list shall be subject to prior approval by the Head of Procuring Entity or his Representative.</p>	<p>2.1 Materials. Listed below are the minimum quality specifications for the construction materials. Utilization of items and material quality not described in the list shall be subject to prior approval by the Head of Procuring Entity or his Representative.</p>

<ul style="list-style-type: none"> i. Concrete shall have a minimum 28-day compressive strength of 21 Mpa. ii. Fine aggregates shall consist of hard, tough, durable and uncoated particles of natural sand. iii. Coarse aggregates shall consist of washed gravel, crushed stone or rock, or a combination thereof conforming to ASTM C33. iv. Use Portland cement conforming to ASTM C150, Type I or Type II. All cement shall be a product of one reputable manufacturer. v. Reinforcing steel shall be deformed billet steel bars conforming to PNS Grade 40 for 12mm dia. and below. Use PNS Grade 60 for 16mm dia. and larger bars. vi. Concrete hollow blocks shall be machine-made and standard product of a recognized manufacturer conforming to PNS 16 with a compressive strength of 1000 psi for exterior and 600 psi for interiors (non-load bearing). vii. Structural steel shapes, plates and bars shall conform to ASTM specification A36/A6M. viii. Welding Electrodes shall be E60, or E70, WAS specs D1.1. 	<ul style="list-style-type: none"> i. Concrete shall have a minimum 28-day compressive strength of 21 Mpa. ii. Fine aggregates shall consist of hard, tough, durable and uncoated particles of natural sand. iii. Coarse aggregates shall consist of crushed stone or rock, or a combination thereof conforming to ASTM C33. iv. Use Portland cement conforming to ASTM C150, Type I or Type II. All cement shall be a product of one reputable manufacturer. v. Reinforcing steel shall be deformed billet steel bars conforming to PNS Grade 40 for 12mm dia. and below. Use PNS Grade 60 for 16mm dia. and larger bars. vi. Concrete hollow block 6" thick (1000 psi) on all external walls. Interior CHB walls 4" thick (600 psi) cement plastered finished. vii. Structural steel shapes, plates and bars shall conform to ASTM specification A36/A6M. viii. Welding Electrodes shall be E60, or E70, WAS specs D1.1.
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4. Changes on Sect. V Design Concepts and Requirements Item no. 3- Electrical Design, sub item no. 3.7- Solar Power System

FROM	AMENDMENTS/CHANGES
<p>3.7 Solar Power System The building shall be equipped with hybrid grid-tied solar power system at least 50 KVA. A room shall be provided to house the solar power equipment. Smart Solar inverters shall be used for efficient utilization of power distribution of Solar-produced electrical power and Utility-sourced electrical power. Solar power shall be used primarily for the lightings and secondly for security systems and fire detection and alarm systems.</p>	<p>3.7 Solar Power System The building shall be equipped with grid-tied solar power system with net-metering at least 50 KVA. A room shall be provided to house the solar power equipment. Smart Solar inverters shall be used for efficient utilization of power distribution of Solar-produced electrical power and Utility-sourced electrical power. Solar power shall be used primarily for the lightings and secondly for security systems and fire detection and alarm systems.</p>



II. Changes on the Bid Data Sheet

1. On ITB Clause 12 Section I- Design a.) Architectural Details and b.) Structural Details

FROM	AMENDMENTS/CHANGES
<p>The Bidder shall submit a Complete Design of the Proposed Building in accordance to Detailed Engineering Design Analyses and to the degree of details as provided herein:</p> <p>I Design</p> <p>a. Architectural details</p> <ul style="list-style-type: none"> • Perspective • Floor Plan • Building Elevation 4 sides • Sections and details • Schedule of finish <p>b. Structural details</p> <ul style="list-style-type: none"> • General construction notes • Foundation plans • Schedule of footing, columns, beams and slab 	<p>The Bidder shall submit a Complete Design of the Proposed Building in accordance to Detailed Engineering Design Analyses and to the degree of details as provided herein:</p> <p>I Design</p> <p>a. Architectural details</p> <ul style="list-style-type: none"> • Perspective • Floor Plan • Building Elevation 4 sides <p>b. Structural details</p> <ul style="list-style-type: none"> • Foundation plans • Schedule of footing, columns, beams and slab

2. On ITB Clause 16

FROM	AMENDMENTS/CHANGES
<p>Each Bidder shall submit:</p> <p>TECHNICAL COMPONENT</p> <ul style="list-style-type: none"> • One (1) certified true copy and One (1) photocopy <p>FINANCIAL COMPONENT • One (1) certified true copy and two (2) photocopies (Indicate Component/Document/Copy Number)</p>	<p>Each Bidder shall submit:</p> <p>TECHNICAL COMPONENT</p> <ul style="list-style-type: none"> • One (1) Original copy and Two (2) certified true copies <p>FINANCIAL COMPONENT • One (1) Original copy and two (2) certified true copies (Indicate Component/Document/Copy Number)</p>

III. Changes on the Bidding Documents Section VI- Specifications

1. Added details on the Parameters



IV. Changes on the Schedule of Activities

FROM	AMENDMENTS/CHANGES
1. Deadline for Submission and Receipt of Bids – August 10, 2021 01:00 P.M.	1. Deadline for Submission and Receipt of Bids – August 27, 2021 1:00 P.M.
2. Opening of Bids - August 10, 2021 01:00 P.M.	2. Opening of Bids – August 27, 2021 1:00 P.M.

The foregoing shall form as an integral part of the Bidding Documents. Any Provision in the Bidding Documents inconsistent herewith is hereby amended, modified & superseded accordingly.

For the information & guidance of all concerned.

Sincerely,

EDUARDO F. AQUINO, MS
Chairperson, Bids and Awards Committee