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 DEPARTMENT OF THE INTERIOR AND LOCAL GOVERNMENT  
**BUREAU OF FIRE PROTECTION**  
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**SUPPLEMENTAL/BID BULLETIN**

**ADDENDUM NO. 2021-03**  
 29 December 2021

BFP BAC 9\_11 s. 2021

This Addendum No. 2021-03 is issued to clarify or modify any provision of the bidding documents for the CONSTRUCTION OF BFP9 REGIONAL HEADQUARTERS (DESIGN AND BUILD) PHASE 1 pursuant to Section 22.5 of the rIRR of RA 9184:

**1) ON SECTION II INSTRUCTIONS TO BIDDERS**

**a. Para 2.2**

AS READ	TO READ
The source of funding is: <b>General Appropriations Act (GAA) 2022.</b>	The source of funding is:  a. NGA, the National Expenditure Program.

**2) ON SECTION III BID DATA SHEET**

**a. ITB Clause 5.2**

AS READ	TO READ
For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: <i>Construction, repair, improvement and rehabilitation of all vertical structures.</i>	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: <i>Contracts involving Design and Build of Vertical Structures or Construction, repair, improvement and rehabilitation of all vertical structures.</i>

**b. ITB Clause 10.4**

AS READ	TO READ																		
The key personnel must meet the required minimum years of experience set below:  5 years experience for: <ul style="list-style-type: none"> <li>• Project Manager</li> <li>• Project Engineer</li> <li>• Materials Engineer</li> <li>• Foreman</li> <li>• Safety and Security Officer</li> </ul> Note: Attach individual resume and PRC License of the (professional) personnel	The key personnel must meet the required minimum years of experience set below:  <b>DESIGN TEAM must meet the required minimum years of experience:</b>  <table border="0"> <thead> <tr> <th><u>Key Personnel</u></th> <th><u>General Experience</u></th> <th><u>Relevant Experience</u></th> </tr> </thead> <tbody> <tr> <td>• Civil Engineer</td> <td>10</td> <td></td> </tr> <tr> <td>• Structural Engineer/Designer</td> <td>10</td> <td></td> </tr> <tr> <td>• Design Architect</td> <td>5</td> <td></td> </tr> <tr> <td>• Materials Engineer- II</td> <td>5</td> <td></td> </tr> <tr> <td>• Professional Electrical Engineer</td> <td>5</td> <td></td> </tr> </tbody> </table>	<u>Key Personnel</u>	<u>General Experience</u>	<u>Relevant Experience</u>	• Civil Engineer	10		• Structural Engineer/Designer	10		• Design Architect	5		• Materials Engineer- II	5		• Professional Electrical Engineer	5	
<u>Key Personnel</u>	<u>General Experience</u>	<u>Relevant Experience</u>																	
• Civil Engineer	10																		
• Structural Engineer/Designer	10																		
• Design Architect	5																		
• Materials Engineer- II	5																		
• Professional Electrical Engineer	5																		

	<p><b>CONSTRUCTION TEAM with 5 years experience:</b></p> <p><b>There shall be at least one (1) stay-in Project Engineer/Architect</b></p> <p><b>While the following shall be required to be full-time at the project site.</b></p> <ol style="list-style-type: none"> <li>1. Foreman</li> <li>2. Site/Quality Control Engineer or Architect</li> </ol> <p>Health and Safety Practitioner/ Safety Officer, must have a certificate as a practitioner on <b>Construction Occupational Safety Health (COSH)</b> issued by the Department of Labor and Employment, Occupational Safety and Health Center.</p> <p>Note: Attach individual resume and PRC License of the (professional) personnel</p>
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**b. ITB Clause 10.5**

<b>AS READ</b>			<b>TO READ</b>		
The minimum major equipment requirements are the following:			The minimum major equipment requirements are the following:		
Equipment	Capacity	Number of Units	Equipment	Capacity	Number of Units
1. Welding Machine		1	Excavator		1
2. Concrete Mixer	one bagger	1	Dump Truck		1
3. Concrete Vibrator		1	Concrete Mixer	1 Bagger	2
3. Plate Compactor		1	Concrete Vibrator		1
4. Bar Cutter		1	Plate Compactor		1
5. Bar Bender		1	Welding Machines		2
7. Generator Set	5KVA	1	Concrete Portalift		1
8. Electric Drill		1			
9. Electric Sander		1			
10. Water Pump		1			
11. Backhoe	¾ cu.m.	1			

**3) ON SECTION V SPECIAL CONDITIONS OF CONTRACT**

**a. On GCC Clause 2**

<b>AS READ</b>	<b>TO READ</b>
<i>Completion of works is within Thirty (240) Calendar Days.</i>	<i>Completion of works is within Two Hundred Forty (240) Calendar Days.</i>

**4) ON SECTION VI SPECIFICATIONS**

**I. SPECIFICATIONS for BUILDING CONSTRUCTION**

The prospective bidder shall prepare the technical specifications in detail and methods of construction which shall also conform to the appropriate provisions of the following standard applicable codes and administrative issuances:

**1. Architectural Works**

- P.D. 1096 (National Building Code of the Philippines and its Implementing Rules and Regulations)

- RA 9514 (Fire Code of the Philippines 2008) and its Revised Implementing Rules and Regulations.
- B.P 344 (Accessibility Law and its Implementing Rules and Regulations)
- DPWH Standard Specifications for Public Building
- HLURB Planning Guidelines
- R.A. 9266 (Architecture Act of 2004 and its Implementing Rules and Regulations) and UAP Documents

**2. Structural Works**

- National Structural Code of the Philippines
- AISC
- ASTM

**3. Sanitary Works**

- R.A 1378 (National Plumbing Code of the Philippines and its Implementing Rules and Regulations)
- National Water Code
- LWUA Guidelines

**4. Electrical Works**

- R.A. 184 (Philippine Electrical Code)
- National Electrical Code
- NEMA
- Underwriters Laboratories
- ANSI
- IES

**5. Mechanical Work**

- P.D. 1185 (Fire Code of the Philippines and its Implementing Rules and Regulations)
- PSME
- ASME
- ASHRAE
- SMACNA

**6. Environmental**

- DAO 35

**II. MATERIAL SPECIFICATIONS**

<u>Item</u>	<u>Material Specifications</u>
<b>1. Concrete and Masonry Works</b>	<p><u>Concrete Works</u></p> <p>Concrete works shall be cast-in place and shall be in accordance with the American Society for Testing and Materials (ASTM).</p> <p>1. Cement Approved brand of Portland cement conforming to the requirements of ASTM C-150.</p>

	<p>2. Fine Aggregates Fine aggregates shall be natural sand or sand prepared from inert materials having similar characteristics. Shall be clean, hard, properly graded uncoated grains free from deleterious substance.</p> <p>3. Coarse Aggregates Properly graded, maximum size of 25mm for slabs and walls of 150mm, or less in thickness. Use minimum size as indicated in the ACI code for beams, girders, columns and footings. Coarse aggregates shall be crushed gravel with size three fourth (3/4" inch diameter or smaller.</p> <p><u>Masonry Works</u></p> <p>Concrete block shall be hollow non-load bearing concrete masonry <math>f_c = 350</math> psi. Units conforming to C90 Grade N, normal weight.</p> <p>All concrete hollow blocks shall be laid with a mortar composed of one part Portland cement and two parts sand, horizontal and vertical joints shall be 3/8" thick. Mortar shall attain a compressive strength of 12.4 MPa at 28 days. Grouts shall conform to requirements for coarse grout. Grout shall attain strength of 13.8 MPa at 28 days.</p>
<p><b>2. Reinforcing Steel Works</b></p>	<p>Reinforcing steel shall be locally new deformed billet-steel bars conforming to Philippine Standard Grade 40/ ASTM Standard. The minimum yield strength of reinforcement to be used corresponding to the structural member shall be as follows:</p> <p>2.1 28mm <math>\square</math> and above <math>f_y = 40,000</math> psi (414 MPA)</p> <p>2.2 16mm <math>\square</math> and above <math>f_y = 40,000</math> psi (275 MPA)</p> <p>2.3 10mm <math>\square</math> and above <math>f_y = 33,000</math> psi (227 MPA)</p>
<p><b>3. Steel Works</b></p>	<p>Conform all materials to the requirements of the American Institute of Steel Construction Specifications for Design, Fabrication and Erection of Structural Steel for Building as amended to date or as may be specifically modified by the drawings or by these specifications.</p> <p>All structural steel for shape, pipes, angles and rods shall conform to ASTM A36 (Latest Revision) or as indicated in the drawing.</p>
<p><b>4. Carpentry Works</b></p>	<p>Lumber shall be of good and approved quality of the respective kinds required for the various parts of work, well-seasoned, kiln dried, treated, straight and free from large, loose or unsound knots, sap shakes or other imperfections which may impair its strength, durability and appearance.</p>
<p><b>5. Tile Works</b></p>	

<p>5.1 Main Lobby &amp; Hallways</p> <p>5.2 Offices Areas</p> <p>5.3 Comfort Rooms/Toilets</p> <p>5.4 Sink and Lavatory Counters</p>	<p>Exterior Rustic 600mm x 600mm Ceramic Tile or as approved</p> <p>High Gloss Finish Super White 600mm x 600mm Ceramic Tile or as approved</p> <p>600mm x 600mm Ceramic Tile or as approved</p> <p>Granite Counter Top Vanity or as approved</p> <p>Type of tiles and tile color shall be selected and approved by the PE.</p>
<p><b>6. Stairs and Ramps</b></p> <p>6.1 Stair (Main Entrance)</p> <p>6.2 Stair (Interior)</p> <p>6.3 Ramp (Main Entrance)</p> <p>6.4 Ramp (Interior)</p>	<p>Ceramic Floor Tile with Brass stair nosing or as approved</p> <p>Ceramic Floor Tile or as approved</p> <p>Non-skid Ramp Tiles or as approved</p> <p>Rubberized finish or as approved</p>
<p><b>7. Doors, Windows, Glass and Glazing</b></p> <p>7.1 Doors</p> <p>Office Doors</p> <p>Conference Hall</p> <p>Comfort Rooms/Toilets</p> <p>Electrical Room</p> <p>7.2 Windows</p> <p>7.3 Glass and Glazing Facing Mirrors</p> <p>7.4 Finish Hardware</p>	<p>12mm thick tempered glass in analok aluminum frame with aluminum handle or Solid Panel Door, Single leaf swing type door or as approved</p> <p>12mm thick gray tinted glass on powder coated white aluminum frame with steel frame transom, Double Leaf Swing Glass Door.</p> <p>Polyvinyl Chloride (PVC) door or as approve and 13mm thick compact laminate partition/cubicle or as approved</p> <p>Single swing steel door on louver frame with 2"x6" steel door jamb</p> <p>Standard powder-coated aluminum white finished frame 5mm thick (1/4") clear glass, (Sliding &amp; Fixed type) or as approved</p> <p>Shall be 5mm thick Polished plate glass with concealed hanging devices, grade "A" waterproofing and 6mm thick plywood backing.</p> <p>Shall conform to applicable standards of American National Standards Institute (ANSI), Builders Hardware Manufacturers Association (BHMA) and Underwriters Laboratories (UL).</p>
<p><b>8. Ceiling, Moulding/Casing</b></p> <p>8.1 Offices / Hallways</p> <p>8.2 Comfort Rooms/Toilets</p> <p>8.3 Wooden moulding/casing</p>	<p>9mm thick Gypsum Board on metal furring runner and C-channel carrying as hangers.</p> <p>1/4" thick Marine plywood ceiling board or 12mm moisture resistant gypsum board on metal furring runner and C-channel carrying as hangers</p> <p>Wooden cornice, wooden moulding/casing on doors, wooden baseboard on rooms.</p>
<p><b>9. Roofing</b></p> <p>9.1 Roofing Sheets</p> <p>9.2 Roofing Accessories</p> <p>9.3 Roofing Insulation</p> <p>9.4 Skylight Roofing (if any)</p>	<p>Pre-painted, zinc-coated 0.40mm base metal thickness. Rib Type long span.</p> <p>0.40mm thick pre-painted, zinc-coated from plain sheets, for gutters, ridge rolls, straps, flashings, fascias, cappings, trims, mouldings, etc. Color to match roofing sheet.</p> <p>ACI Fiberglass insulation, 1-sided aluminum, 50mm thick x 1.20mm wide</p> <p>Polycarbonate roofing with thickness 6mm.</p>
<p><b>10. Waterproofing</b></p>	<p>Liquid cold applied membrane waterproofing</p>

	<p>system for concrete slab, comfort room/toilet at 2<sup>nd</sup> floor, concrete gutters and concrete parapet.</p> <p>Submit to the PE samples of materials to be used clearly labeled as to brand name and manufacturer's name and secured approval.</p> <p>Waterproofing materials shall be of best quality.</p>
<p><b>11. Painting Works</b></p> <p>11.1 Exterior Wall Finish</p> <p>11.2 Interior Wall Finish</p> <p>11.3 Wood Doors, Jambs, Cabinets</p>	<p>Textured Semi-Gloss Latex Paint Finish on Cement Plaster</p> <p>Semi-gloss latex</p> <p>Quick-dry/auto finish paint</p> <p>All colors shall be selected and approved by the PE.</p> <p>All painting materials shall be of best quality.</p>
<p><b>12. Exterior Cladding Works</b></p> <p>12.1 Exterior Cladding Finish</p> <p>12.2 Stone Cladding Fininsh</p>	<p>Exterior Façade Wall Cladding as per owner's approval</p> <p>Semi-gloss latex</p> <p>Exterior Façade Wall Cladding as per architect approval</p>
<p><b>13. Sanitary and Plumbing Works</b></p> <p>13.1 Plumbing Fixtures and Accessories</p> <ul style="list-style-type: none"> <li>- Urinal</li> <li>- Water Closet</li> <li>- Basin</li> </ul> <p>13.2 Pipes and Fittings</p> <p>13.3 Storm Drain Pipes</p> <p>13.4 Water Cistern, Overhead Water Tank and Water Pump</p>	<p>Wall Mount, Heavy Duty/American Standard compatible w/ flush valve w/ complete fittings, and of best quality.</p> <p>American Standard Lever Type flush handle w/ complete fittings.</p> <p>Stainless or ceramics</p> <p>Cold Water Lines (CWL) shall be Polypropylene Random Copolymer (PPRC) pipes or Galvanized Iron (G.I.) pipe, sch. 40.</p> <p>Sanitary and vents shall be Polyvinyl Chloride PVC pipes (S1000 11) Neltex or approved equivalent</p> <p>Sanitary and vents shall be Polyvinyl Chloride PVC pipes (S1000 11) Neltex or approved equivalent</p> <p>Submit samples of materials for approval of the PE prior to purchase.</p>
<p><b>14. Electrical Works</b></p> <p>14.1 Electrical Fixtures and Accessories:</p> <ul style="list-style-type: none"> <li>- Hallways</li> <li>- Canopy/alley</li> <li>- Offices</li> <li>- Comfort Rooms/Toilets</li> <li>- Perimeter lights</li> </ul> <p>14.2 Wires and Cables</p>	<p>Recessed type lighting fixtures</p> <p>Recessed type lighting fixtures</p> <p>Surface mounted type lighting fixtures</p> <p>Pin lights</p> <p>Perimeter lights shall be full glare with base and 25 Watts SL lamp</p> <p>Best quality, heavy duty and in accordance to latest Electrical Code of the Philippines and other relevant standards.</p>

14.3 Solar Power System	<p>Propose a back-up solar power system with proposed maximum load capacity for the building.</p> <p>All materials and equipment shall be new and shall conform to the latest standards of the U.S. Underwriters Laboratories (UL), U.S. National Board of Fire Underwriters (NBFU), National Electrical Manufacturers Association (NEMA), Insulation Power Cable Engineers Association (ASA) and Bureau of Standards, Department of Trade.</p>
<p><b>15. Mechanical Works</b></p> <p>15.1 Installation of Air-conditioning and Ventilation System (Provision and Installation)</p>	<p>Works shall be in accordance with the latest standards.</p> <p>Best quality and heavy duty</p>
<b>16. Fire Protection System</b>	<p>Fire protection work shall include, but not limited to the installation of the following: FDAS, Sprinkler System, Dry Standpipe System, Fire Department Connection, Fire Hose Valves, Fire Hose Cabinets and Fire Extinguishers which shall be in accordance with the Fire Code of the Philippines and its rIRR.</p>
<b>17. Telecommunications and Local Area Network (LAN)</b>	<p>All interior telephone cable shall be jacketed 4/c no. 0.65mm<sup>2</sup>.</p>
<b>18. Installation of Signage</b>	<p>Brass, Stainless or acrylic plastic Acrylic plastic Colors and sizes shall be selected and approved by the PE.</p>

### III. PRELIMINARY DESIGN AND CONSTRUCTION STUDIES

#### 1. PROJECT DESCRIPTION

The Bureau of Fire Protection, created by virtue of RA 6975 shall be responsible for the prevention and suppression of all destructive fires on buildings, houses and other structures, forest, land transportation vehicles and equipment, ships or vessels docked at piers or wharves or anchored in major seaports, petroleum industry installations, plane crashes and other similar incidents, as well as the enforcement of the Fire Code and other related laws. It shall also has the power to investigate all causes of fires and, if necessary, file the proper complaints with the city or provincial prosecutor who has jurisdiction over the case.

From the traditional role of firefighting operation, prevention and fire safety inspection, it has evolved to become an “all hazard agency” which was further reinforced by the approval of Republic Act 11589, otherwise known as the “BFP Modernization Act”.

In line with the BFP’s expansion of mandate and capability, the construction of BFP9 Regional Headquarters (Design and Build) Phase-1 is highly anticipated to accommodate its manpower and other resources geared towards the formulation and implementation of policies, plans and programs to further the efficient and effective services to its constituents.

#### 2. CONCEPTUAL DESIGN

Modern, functional and custom made for the mandates of the BFP, providing services to the people primarily in saving lives and

properties should aid in the development of an Architectural concept for the BFP9 Regional Headquarters Building.

### **3. PRELIMINARY SURVEY AND MAPPING**

The location of the Construction of BFP9 Regional Headquarters Building (Design and Build) Phase-I Located at President Corazon C. Aquino Regional Government Center, Lot 1, Block 21, Barangay Balintawak, Pagadian City, Zamboanga del Sur. The site is overlooking to the City of Pagadian.

### **4. PRELIMINARY INVESTIGATIONS**

The project site is located on the highland with slope cut on the uphill side which is within an area with apparent soil erosion. The City Government of Pagadian will undertake the necessary site preparation to maximize the area, however, to obtain the true elevations of the lot, the earthworks final elevation must be considered. To emphasize, the project is located in an area with no volcanic hazard and has the Faraon clay type of soil with huge rocks and boulders.

Fortunately, the city of Pagadian does not fall on the typhoon belt and seldom experience heavy floods. Considering the location of the project is on the highland of the City, no flood occurrence is likely to happen.

The drainage system of the Construction of BFP9 Regional Headquarters Building (Design and Build) Phase-1, shall be designed installed around the perimeter connected to the catch basins and disperse to the city road drainage.

To obtain adequate soil information for the design and construction of proposed BFP9 Regional Headquarters Building (Design and Build) (Phase-1), soil investigation works should be carried out. As structures are heavy and extensive, the following results of test previously conducted shall be verified: The proposed site is on high elevated ground overlooking the commercial area of the City of Pagadian with a clay – rocky mountain type of soil.

Among the physical features of the proposed site that requires thorough investigation on the soil classification is that it is on a high elevated terrain.

### **5. UTILITY LOCATIONS**

The project area for the Construction of BRP9 Regional Headquarters Building (Design and Build) Phase-I is within the belt of the Regional Center of the Province of Zamboanga del Sur, a downhill ride to the City of Pagadian.

### **6. MINIMUM REQUIREMENTS FOR THE CONSTRUCTION SAFETY AND HEALTH PROGRAM**

#### **A. Construction Safety**

Every construction site and approaches thereto shall be provided with proper protection to prevent danger to all workers engaged in the construction work and pedestrians passing through the construction site.



## B. General Provisions

Premises of establishment shall be provided with necessary danger signs and safety instructions in standard colors and sizes, properly positioned within the compound to increase safety especially at night. Handicapped employees should be restricted to designated workplaces and provided with the facilities for safe and convenient movement within the establishments.

Good Housekeeping shall be maintained throughout the period of any work, both at the work area and around any temporary buildings. The working area as well as machines and equipment shall be kept clean at all times, access ways kept clear, surplus scraps materials shall be removed daily and orderly arrangement of process, operations, storage and filling materials shall be observed.

## C. Safety Measures to be Performed before any Construction is commenced and during the construction.

### 1. Organization of qualified personnel for Safety and Health Committee

### 2. Restricted Areas

The whole location within the boundary fences of the construction area and contractor's compound is constituted as a **"restricted areas"**.

The contractor's employees shall not enter any portion of the restricted area/location other than those designated/assigned work area.

### 3. Alcohol/Prohibited Drugs

It is forbidden to drink alcohol or take prohibited drugs in the restricted area. The PE shall reserve the right to expel from the location any person who is found to be under the influence of alcohol/prohibited drugs.

### 4. Accident Reporting

Contractor shall report immediately to the PE any/all accidents occurring within the duration of the works that results in injury to person or damage to property. In case of serious accidents and whenever necessary, the contractor shall extend full cooperation in the conduct of investigation and inquiries for early resolution of the incident.

### 5. Use of Personal Protective Equipment

Personal protective equipment i.e. hardhat, safety shoes, eye goggles, is mandatory.

Hard hats are required in all work areas, the only exemption for wearing hard hats are inside offices, when riding inside vehicles, inside shops, etc.

Eye protection must be worn when working around sandblasting area, when using striking tools such as chipping and when working with chemicals or anytime when eye hazards are present.

Work gloves and rubber gloves are required as applicable.

Footwear (safety shoes) must be of sound construction.

Athletic shoes, sandals, slippers are not allowed in the jobsite.

Contractor employees are also required to wear long pants and a minimum of short-sleeved shirt. Short pants and sandos are not allowed.

#### 6. Safety Driving

Drive with care while inside the job site. There will always be other traffic and pedestrians in work areas. Passengers are not allowed to ride on cranes, or other heavy equipment.

#### 7. Materials Handling and Storage

All materials shall be properly stored. Walkways shall be left free at all the times to allow easy access of all materials, personnel and equipment.

Adequate fire-fighting equipment must be provided. Such equipment must be readily accessible and not obstructed by any materials.

Only authorized/trained heavy equipment operators are allowed to operate.

Compressed gas cylinders shall be stored upright and secured to prevent tipping over.

When opening wooden packing cases, ensure that all nails are either pulled or bent over.

Always wear work gloves when handling materials.

#### 8. Scaffolding Ladders

Scaffolding must be well constructed and properly maintained.

Handrails and toe boards must be included on all scaffolds.

All ladders must have safety feet to help prevent the ladders from slipping while being used.

Wooden ladders must not have any cracks, splinter or broken rungs. Metal ladders must be free from bends and cracking.

#### 9. Excavation

Shoring must be used or the excavation must be sloped to prevent collapsing when the excavation is two (2) meters or more in depth. Ladders or stairs must be provided when excavation are more than 1.5 meters deep.

Keep excavated soil away from the edges of excavation. (At least 1 meter away)

Work areas where someone could see the workers.

To protect workers, barricades at least 1.0m high using approved materials on all excavations will be provided.

Provide warning lights and signs when necessary. All excavations must be barricaded.

Do not remove any shoring or struts unless instructed to do so.

#### 10. Welding

Proper protective clothing must be used when welding. Ensure that area is free from flammable materials. If possible, install welding screens or welding blankets to the welding "flash". Oxygen and acetylene cylinder used must be secured to a welding cart or other suitable structures. If welding above ground level, contain hot slag with suitable sheeting or blankets and ensure that fire extinguishers are within the area. Ensure that welding machines are grounded when in use.

#### 11. Compressed Gas Cylinders

Compressed gas cylinders must be handled with care. Large cylinders weight up to 75 kgs. Or 160 pounds, a minimum of two (2) persons are required to hand carry cylinders.

Cylinder caps must be in place when cylinders are not in use especially when cylinders are transported.

Regulators should be inspected daily including accurate gauges, no dents or cracks in gauge, regulator valve handles are intact, no grease or oil on threads, etc.

Cylinder should never be placed in use while lying on its side. When removing a cylinder, use a cart or trolley. Never roll cylinder on the ground.

#### 12. Fire Prevention

Fire on construction projects are the cause of serious loss, both of material and in many cases, production time.

Highly flammable substances – gas cylinders, gasoline and other fuels, paints and thinners, etc shall all be stored in proper buildings well away from the rest and clearly marked.

Contractor shall provide suitable portable fire fighting equipment. Dry chemical (powder) extinguisher is recommended.

#### D. Health and Hygiene

Contractor must provide for jobsite Medical/First Aid Facilities.

1. Where up to fifty (50) men are working.
  - a. First Aid Box must be provided.
  - b. A designated qualified First Aider will administer treatment.
2. Treatment and accident register must be provided by the contractor at jobsite Medical Rooms/Site Office with first aid box.
3. The contractor shall supply adequate quantities of drinking water bought from a reliable source.

#### **IV. APPLICABLE RULES AND REGULATIONS**

With respect to the actual implementation of the project, applicable rules and regulations prescribed by the following agencies shall be observed.

- ❖ Department of Public Works and Highways (DPWH)
- ❖ Department of Environment and Natural Resources (DENR)
- ❖ National Building Code of the Philippines
- ❖ Applicable Building Laws in the locality

The Winning Bidder/Contractor shall enter into a contract with the Bureau of Fire Protection, Region 9 in the nature of a **DESIGN & BUILD (CONSTRUCTION) contract**, and thereupon proceeds with the required Scope of Works under the terms and conditions set herein, including the necessary permits (i.e. Building Permit, Occupancy Permit, Power and Water Connections) & clearances.

The Winning Bidder/Contractor shall undertake the required objectives stated and shall execute full services in line with sound and good technical aspects and shall be fully responsible for all services rendered.

Upon **DESIGN, BUILD (CONSTRUCTION) and COMPLETION** and final acceptance by the Bureau of Fire Protection, Region 9, the Contractor shall turn over the completed project to the BFP-9 ready for operation. The Contractor, at his own expense, shall furnish the Bureau of Fire Protection, Region 9, an original copy of "As-Built" Plans duly signed and sealed by the Contractor's Designer (i.e. Structural Engineer, Civil Engineer, Architect, Geodetic Engineer, Electrical Engineer, Sanitary Engineer and Mechanical Engineer).

#### **5) ON SECTION VII DRAWINGS**

##### **DESIGN PARAMETERS**

##### **SCOPE OF WORK**

- I. **Conduct of Detailed Architectural and Engineering Design**
  - a) **Technical Specifications and Design Parameters**
  - b) **Detailed Design Plans**
  - c) **Architectural Design**
  - d) **Structural Analysis and Design**
  - e) **Electrical Design**
  - f) **Mechanical Design**
  - g) **Plumbing Design**
  - h) **Bill of Quantities**

##### **II – CONSTRUCTION OF BFP9 REGIONAL HEADQUARTERS (DESIGN & BUILD) PHASE-1**

##### **DESCRIPTION**

The construction of a BFP9 Regional Headquarters (Design and Build) Phase-1 will give way to a permanent, comfortable and spacious area for a better workplace for the BFP9 management and Regional Office 9 personnel in the implementation of the policies, plans and programs of the BFP which will likely provide better services to the people of Region 9.

The roof pitch must have sufficient inclination/slope with adequate size of roof drainage system (roof drains & overflow drains) to discharge all tributary waters. In case of a roof deck proper water proofing must be carried to insure that water seepages can be thoroughly eliminated to avoid future roof leak.

The structural strength of the building shall be thoroughly investigated using industry-accepted technology. The proposed design of the building shall include complete systems such as communication lines, fire alarm, electronic system, sprinklers and others, which are necessary for the building.

The **Ground Floor** must have a wide entrance and exit doors at the rear. Provide access for PWD right beside the main entrance. Upon entry, the visitors shall be greeted by a spacious lobby with front desk/information desk. A toilet should be provided that is accessible from the lobby. Utilize all areas at ground floor to accommodate the offices of SAS/SMS, RIAS, ADMIN, FSED, LEGAL, GAD, LOGISTICS, GENERAL STORAGE ROOM, CHAPEL, CANTEEN with KITCHEN, electrical room, and C.R. for male, female and PWD. There must be a service stair on both sides of the building to access the second floor with an additional fire escape stair. Provide an ideal area for the location of the elevator.

The **Second Floor** will have the offices of COA, COMMEL, ARDO, FMD, CDS, BUDGET, ACCOUNTING and ARDA. All these offices must have an individual comfort rooms. The office of the Regional Director (RD) must be located on a very strategic locations with a space for the staff, a Conference room, sleeping quarter with toilet & bath, a kitchen and a Comfort Room. Provide a floor opening to view the ground floor lobby from the second floor. There must be service stair on both side of the building to access the third floor with an additional fire escape stair. Provide an ideal area for the location of the elevator. Provide also electrical room for every floor.

The **Third Floor** shall cater the offices of THE ARSON LABORATORY with STORAGE, the COURT ROOM, the RECREATIONAL AREA for physical activities and fitness center. The MULTI-PURPOSE HALL for trainings and seminars and can also be utilized for religious activities, gatherings and other events whenever applicable. The Multi-purpose hall must have an AUDIO ROOM and STORAGE ROOM. Provide common CR for male, female & PWD. There must be service stairs on both sides of the building to access the second floor and an additional fire escape stair to access the fourth floor (roof deck). Provide an ideal area for the location of the elevator. Provide also electrical room for every floor.

The **Fourth Floor or Roof Deck** will be an open space for viewing purpose and BFP monitoring activity in the regional center of Pagadian City. This will also serve for a healthy sun exposure and fresh air breath taking. Provide a space for the location of Water Tank and the elevator machine room. If the air conditioning units are not feasible on the ground floor, second floor and third floor the Roof Deck is an ideal place to install the Air conditioning equipment for better access to the units for service maintenance. The fire exit stair will also be the service stair for the roof deck.

Natural lighting and ventilation shall be considered during the preparation of the design.

Thus, this project intends to engage services of a qualified Design and Build Scheme Contractor, (1) a duly PCAB licensed firm, (2) shall have an expertise, experience and capability on the **DESIGN & BUILD (CONSTRUCTION) scheme**, and (3) shall provide new or modern trend in architecture as well as integrated and diverse approaches in design and construction in accordance to the specifications and standards.

## **CONCEPTUAL DESIGN**

Introduction: In adapting to the modern day of Architectural Trend of Design, The Concept calls for a Functional, Elegant Structure to provide spaces for the Existing Departments as well as an Area for Regional functions to hold offices in one roof.

Character: Modern, Sleek, Rigid Structure with an Accents to depict a Massive modern look.

Construction Method/Materials: Combination of Steel, Concrete, Wood, Metals & Glass.

Landscaping: Using Endemic Plants in ground floor plant boxes whichever applicable.

Signs: Stainless Steel mark as “ Bureau of Fire Protection, Region 9”, approx..

1.0M x 1.0M and 75mm Letters thick.

Design Preferences: Modern in Character with an Accent of metal claddings on the exterior Frontage.

The Scope of Works of this Project shall include:

### **a) DESIGN**

1. Site Investigation, Survey and Soil Test;
2. Preparation of Architectural Design and Technical Specifications;
3. Preparation of Design including structural analysis, electrical, mechanical, plumbing and fire protection;
4. Preparation of Program of Works, PERT/CPM, Bar Chart and Cost Estimates;
5. Drawings for Construction and Technical Specifications;  
(The Architectural, Civil/Structural, Electrical, Sanitary/Plumbing, Mechanical, Fire Protection plans and details shall be in the following format: a. In 2D and 3D Presentation at suitable scale on 20” x 30” blue print or A3 size white print paper minimum size and b. CAD Files and PDF copy in a CD/DVD or USB)

### **b) BUILD (CONSTRUCTION)**

1. Demolition of Existing Building (if any)
2. Site Clearing and Site Preparation
3. Construction of temporary facilities;
4. Site works (site drainage and utilities, construction of septic tank);
5. Concrete works ;
6. Structural works;
7. Architectural works;
8. Sanitary & Plumbing works;
9. Electrical works;
10. Mechanical works;
11. Installation of Fire Protection System/Cable lines/Communication lines;
12. Painting works;

13. Cladding works;
14. Finishes

## **DESIGN CRITERIA AND PARAMETERS**

### **1. Site Requirements**

- a. Site Preparation to accommodate the New Building
- b. Site Clearing
- c. Temporary Site Office Facility for the BFP TWG

### **2. Architectural Requirements**

- a. Modern with Accents of metal claddings on Building Frontage and Aluminum Analok Glass Windows;
- b. All perimeter partition must be of Concrete Hollow Block in plaster finish, interior partition 10mm thick dry wall on aluminum metal studs and frames or 10mm CHB walls in plaster finish. Offices Ceiling minimum height shall be 2.80 M. Hallways minimum width shall be 2.0M
- c. Homogenous ceramic tile flooring 60cm x 60 cm.

### **3. Structural Requirements**

- a. Min. 3,000 PSI Reinforced Concrete Columns, Slabs
- b. Grade 40 for Steel reinforcement from 16mm up to 25mm.

### **4. Electrical and Auxiliary Requirements**

- a. PS std, CE certified THW & THHN Wires and Cables, S40 PVC Conduit piping;
- b. Provide adequate Convenience Outlets for each department
- c. General lighting of 300 watts (250 lux) per sq.m. for all areas.
- d. Provision roughing-ins for Telephone, CATV, CCTV, Internet Connections;
- e. Power Supply Entrance Cable tapping 5.0 M. from existing Service Drop. (Verify at Site).

### **5. Sanitary and Water Supply**

- a. G.I pipe Schedule 40 for Water Supply Line or Approved Equivalent;
- b. Neltex PVC Pipes for Storm and Sewage Drainage or Approved Equivalent;
- c. American Standard Plumbing Fixtures or approved Equivalent.
- d. Provision of Cistern Water Tank, Overhead Water Tank and Water pump. Water tank capacity shall be based on the Plumbing design for the Building.

### **6. Mechanical**

- a. Air-conditioning provisions for Window & Split type Units with piped in drains.

### **7. Security**

- a. CCTV provision

### **8. Fire Protection, Detection and Alarm System**

- a. Provision of fire protection, detection and alarm system for the whole building.

### **9. General Items**

- a. Permits and Licenses shall be of the Contractor.

### **10. Construction Methods Requirement**

### **11. Product Specification List**

- a. For Other Material Option; Approvals of Submittals shall be required.

## 12. Master Space Program

BFP R-9 SPACE PROGRAM					
ROOM / SPACE	QTY	Unit Area in sq.m.	Total Area in sq.m.	REMARKS	
<b>Ground Floor</b>					
1	Main Entrance to include Guard House, walkways, Stairs, Ramps & planters				
2	Lobby with Information Desk				High Ceiling Lobby.
3	SAS / SMS Office (6 Staffs and 1 Section Chief)				Work Station for Supply Accountability and for Supply Management Section.
4	Storage Room for SAS/SMS				
5	Logistics Division (6 Staffs , 1 Division Head and 1 Section Chief)				Work Station for the whole division includes TWG-Infrastructure (Engineering Section) and TWG-Goods.
6	Administrative Division (10 Staffs, 3 Section Chief and 1 Division Head)				Work Station for Admin Division Head and Staff, Human Resource Management Section Chief and Staffs, Personnel Records Section Chief and Staffs, Morale and Welfare Section Chief and Staffs.
7	FSED (8 Staffs, 2 Section Chief and 1 Division Head)				Work Station for FSED Head and Staff, Fire Safety Management Section Chief and Staff, Community Relation Section Chief and Staffs, Public Information Unit Staffs.
8	LEGAL SERVICE(3 Staffs, 3 Heads of Support Service – C, Legal Svc, C, IAS, C, Hearing Office)				Work Station for the 3 Heads and Staffs
9	GAD Office				
10	Toilets for Male, Female and PWD				Should be accessible from the Lobby. Provide Utility Room.
11	Elevator Lobby				
12	Access Stairs				
13	Fire Exits				
14	Electrical Room				
15	Generator Room				Separate Structure



					from the RHQ building and shall be reflected in Site Development Plan.
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**2nd Floor**

1	Second Floor Lobby and Hallways				
2	Atrium (Above Ground Floor Lobby)				
3	Operation Division (21 Staffs, 7 Section Chiefs and 1 Division Head)				Works Station for Division Head, Special Operation Section Chief and Staffs, Fire Control Operation Section Chief and Staffs, Fire Investigation Unit/Fire Intelligence & Background Investigation Unit/IIS Chief and Staffs, Health Service Section Chief, Chief, Dental Unit and Staffs.
4	Financial Management Division (14 Staffs, 3 Section Chiefs, 1 Division Head)				Work Station for Division Head, Disbursement Section Chief and Staff, Plans and Budget Section Chief and Staff, Accounting Section Chief and Staffs.
5	COA Office				Work Station for COA Office.
6	Office of the Regional Director with RD's Quarter, T & B, Small Kitchen and Dining Area, RD's Office, Staff Office)				Work Station for RD's Staff (7 Staffs). RD's Office should be enclosed/with partition.
7	Office of the Assistant Regional Director for Administration				Enclosed Office with work station for ARDA's Staff.
8	Office of the Assistant Regional Director for Operation				Enclosed Office with work station for

					ARDO's Staff.
9	Office of the Regional Chief of Staff				Enclosed Office with work station for CRS' Staffs.
10	Commel Office				
11	IT Office				
12	BAC Office				
13	Conference Room with Toilet for Male and Female				
14	Search and Rescue Force Office				
15	HAZMAT Unit Office				
16	Fire Arson Investigation Unit				
17	Security Protection Unit				
18	Access Stairs				
19	Fire Exits				
20	Utility & Electrical Room				
<b>3rd Floor</b>					
1	Recreational Area				
2	Arson Laboratory with storage				
3	Court Room				
4	Multi-Purpose hall				
5	Male CR/Female CR/PWD CR				
5	Audio Room				
6	Storage Room				
7	Hallways				
8	Service Stair				
9	Fire Exit Stair				
10	Electrical Room				
11	Elevator				
12	Linen Storage				
<b>4th Floor (Roof Deck)</b>					
1	Multi-Purpose Hall Roofing				
2	Open Roof Deck				
3	Fire Exit Stair				
4	Elevator				

**Note:** Space Program / Planning Reflected above are for reference only and may be further expanded or improved subject to the approval of the PE.

**13. Preliminary Investigations:**

- a. Upon Site Ocular.

**14. Utility Locations:**

- a. To be verified at site upon inspection.

**6) ON SECTION IX CHECKLIST OF TECHNICAL AND FINANCIAL DOCUMENTS**

Pursuant to GPPB Resolution No. 15-2021, dated 14 October 2021 re: **LIFTING THE SUSPENSION ON THE IMPLEMENTATION OF THE MANDATORY SUBMISSION OF PHILGEPS CERTIFICATE OF PLATINUM REGISTRATION AND MEMBERSHIP IN COMPETITIVE BIDDING AND LIMITED SOURCE BIDDING; AMENDING SECTIONS 8.5.2, 23.1(a)(ii), 23.3, 24.1(a)(ii), 24.4.3, 34.3 AND 54.6 OF THE 2016 REVISED IRR OF RA NO. 9184, ITEMS IV(G)(1) AND V(D)(1)(b) AS WELL AS APPENDIX "A" OF ANNEX "H" THEREOF, ITEMS 4 AND 6 OF THE GUIDELINES FOR THE USE OF THE GOVERNMENT OF THE PHILIPPINES - OFFICIAL MERCHANTS REGISTRY, AND ITEM 1 OF SECTIONS VIII AND IX OF THE 6TH EDITION OF THE PHILIPPINE BIDDING DOCUMENTS FOR GOODS AND INFRASTRUCTURE PROJECTS**, the amended Checklist is as follows:

## I. TECHNICAL COMPONENT ENVELOPE

### Class "A" Documents

#### Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR;

**(re-sequenced)**

#### Technical Documents

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**
- (d) Special PCAB License in case of Joint Ventures; **and** registration for the type and cost of the contract to be bid; **and**
- (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission; **or** Original copy of Notarized Bid Securing Declaration; **and**
- (f) Project Requirements, which shall include the following:
- a. Organizational chart for the contract to be bid;
  - b. List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
  - c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**

**The following additional documents prescribed under Annex “G” Guidelines for the Procurement and Implementation of Contracts for Design and Build Infrastructure Projects of the rIRR of RA 9184**

- i. Preliminary Conceptual Design Plans in accordance with the degree of details specified by the procuring entity;
- ii. Design and construction methods
- iii. List of design and construction personnel, to be assigned to the contract to be bid, with their complete qualification and experience data; and
- iv. Value engineering analysis of design and construction method.

- (g) Original duly signed Omnibus Sworn Statement (OSS);  
**and** if applicable, Original Notarized Secretary’s Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (h) The prospective bidder’s computation of Net Financial Contracting Capacity (NFCC).

**Class “B” Documents**

- (i) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence; **or** duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

**FINANCIAL COMPONENT ENVELOPE**

- (j) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

- (k) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- (l) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates and equipment rentals used in coming up with the Bid; **and**
- (m) Cash Flow by Quarter.

10. For the detailed evaluation of the design and build proposals, a two-step procedure shall be adopted by the BAC, which may be undertaken with the assistance of the Design and Build Committee.

- A. **First-Step Procedure:** The first step of the evaluation shall involve the review of the preliminary conceptual designs and track record submitted by the contractor as indicated in the Bidding Documents using a non-discretionary

“pass and fail” criteria that involve compliance with the following requirements:

- (a) Adherence of preliminary design plans to the required performance specifications and parameters and degree of details;
- (b) Concept of approach and methodology for detailed engineering, design and construction with emphasis on the clarity, feasibility, innovativeness and comprehensiveness of the plan approach and the quality of the interpretation of project problems, risks and suggest solutions;
- (c) Quality of personnel to be assigned to the project which covers suitability of key staff to perform duties of the particular assignments and general qualifications and competence including education and training of key staff.
- (c) For complex or unique undertakings, such as those involving highly specialized or advanced engineering technology, eligible bidders may be required, at the option of the agency concerned, to make an oral presentation within fifteen (15) calendar days after the deadline for submission of technical proposals.

The Evaluation Criteria is attached herewith as **ANNEX A**.

**B. Second-Step Procedure:** Only those bids that passed the above criteria shall be subjected to the second step of evaluation.

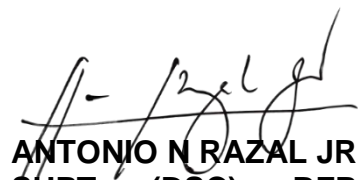
The BAC shall open the financial proposal of each “passed” bidder and shall evaluate it using non-discretionary criteria – including arithmetical corrections for computational errors – as stated in the Bidding Documents, and thus determine the correct total calculated bid prices. The BAC shall automatically disqualify any total calculated bid price which exceeds the ABC. The total calculated bid prices (not exceeding the ABC) shall be ranked, in ascending order, from lowest to highest. The bid with the lowest total calculated bid price shall be identified as the Lowest Calculated Bid (LCB).

11. Amendments/clarifications made herein are considered an integral part of the Bidding Documents and all other portions affected thereby shall be made to conform to the same.

12. Further, the clock of the BAC Secretariat at 4<sup>th</sup> Floor, BFP Regional Office 9, BFL Building, Fernant St., Palmera, San Pedro Dist., Pagadian City shall be the reference clock for the submission and opening time of the bid documents.

13. For guidance and information of all concerned.

This 29<sup>th</sup> day of December 2021 at BFP Regional Office 9, Pagadian City, Philippines.

  
**ANTONIO N. RAZAL JR**  
**SUPT (DSC) BFP**  
**Chairman, BAC**



Republic of the Philippines  
 Department of the Interior and Local Government  
**BUREAU OF FIRE PROTECTION**  
**REGIONAL OFFICE IX**  
 BFL Building, Fernan St., San Pedro District, Pagadian City  
 Cellphone Numbers: 0949-996-9882 and 0917-771-9250  
 Email Address: [commel9one@gmail.com](mailto:commel9one@gmail.com)



### EVALUATION CRITERIA FOR FINAL ACCEPTANCE OF DESIGN AND PLANS

PROJECT NAME : CONSTRUCTION OF BFP9 REGIONAL HEADQUARTERS (DESIGN AND BUILD) PHASE 1

PROJECT LOCATION : President Corazon C. Aquino Regional Government Center, Lot 1, Block 21, Barangay Balintawak, Pagadian City, Zamboanga del Sur

OWNER : Bureau of Fire Protection

Name of Company : \_\_\_\_\_

Representative : \_\_\_\_\_

Contact Information : \_\_\_\_\_

Evaluator : \_\_\_\_\_

General Criteria for Final Acceptance of Design and Plans	PASSED	FAILED	Remarks
1. Architectural			
2. Civil/ Structural/ Structural Analysis			
3. Electrical			
4. Sanitary/ Plumbing			
5. Mechanical			
6. Site Development Plan			
7. Detailed Cost Estimate, Scope of Works, Specifications			
8. Qualification of Personnel			



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DESCRIPTION OF SUB-CRITERIA FOR FINAL ACCEPTANCE OF DESIGN AND PLANS			
	PASSED	FAILED	Remarks
<b>1. Architectural/ Design Consideration</b>			
Drawing Requirements (AUTOCAD)			
- <b>Site Development Plan</b> a. Distribution b. Circulation c. Orientation d. Zoning Laws			
- <b>Vicinity Map</b> a. Zoning Laws b. Circulation			
- <b>3D Rendered Perspective (Architectural Character)</b>			
- <b>Floor Plans</b> a. Distribution b. Circulation c. Light and Ventilation d. Sizes, Areas and Shape			
- <b>Front, Rear, Left and Right Side Elevations</b> a. Light and Ventilation b. Height c. Location of Doors and Windows			
- <b>Sections (a.Longitudinal Section; b. Cross Section)</b>			
- <b>Detailed Plans (a. Stairs b. Ramps)</b>			
- <b>Doors and Windows Schedule</b> a. Light and Ventilation b. Location of Doors and Windows			
- <b>Reflected Ceiling Plan</b>			
- <b>Schedule of Finishes for Floors, Walls, and Ceiling</b>			
<b>2. Civil/ Structural/ Structural Analysis</b>			
Drawing Requirements (AUTOCAD)			
- Soil Test			
- Structural Design Criteria and Design Notes, Structural Design Concept			
- Structural Analysis (STAAD)			
- Foundation Plan			
- Floor Framing Plans			
- Schedule Slab, Beam and Girders			
- Schedule of Columns			
- Schedule of Footings			
- Structural Details of Stairs and Ramp			
- Schedule of details of trusses			
<b>3. Electrical</b>			
Drawing Requirements (AUTOCAD)			
- Electrical Design Analysis and Computation			

- General Notes, Power Riser Diagram, Single Line Diagram, Legends and symbols, Schedule of Loads															
- ACU, Power and Lighting Layout System															
- Fire Alarm System, Grounding System															
<b>4. Sanitary/ Plumbing</b>															
Drawing Requirements (AUTOCAD)															
- General Notes, Legend and Symbols															
- Water Supply, Sanitary Line, Vent and Storm drainage lay-out															
- Enlarged toilet plan for common and PWD toilets															
- Isometric Diagram, Drainage System															
- Septic Tank plans and details															
<b>5. Mechanical</b>															
Drawing Requirements (AUTOCAD)															
- Mechanical Design Analysis and Computation															
- Fire Protection Design Analysis and Computation															
- General Notes															
- Legend and Symbols															
- Fire Protection System plans and layout															
<b>6. Site Development Plan</b>															
- Site Investigation															
- Survey															
- Drainage System															
<b>7. Detailed Cost Estimates, Construction Schedule, S-Curve, Scope of Works, Specifications</b>															
<b>8. QUALIFICATION OF PERSONNEL</b>															
<b>DESIGN TEAM must meet the required minimum years of experience:</b>															
<table border="0"> <thead> <tr> <th><u>Key Personnel</u></th> <th><u>General Experience</u></th> </tr> </thead> <tbody> <tr> <td>• Civil Engineer</td> <td>10</td> </tr> <tr> <td>• Structural Engineer/Designer</td> <td>10</td> </tr> <tr> <td>• Design Architect</td> <td>5</td> </tr> <tr> <td>• Materials Engineer- II</td> <td>5</td> </tr> <tr> <td>• Professional Electrical Engineer</td> <td>5</td> </tr> </tbody> </table>	<u>Key Personnel</u>	<u>General Experience</u>	• Civil Engineer	10	• Structural Engineer/Designer	10	• Design Architect	5	• Materials Engineer- II	5	• Professional Electrical Engineer	5			
<u>Key Personnel</u>	<u>General Experience</u>														
• Civil Engineer	10														
• Structural Engineer/Designer	10														
• Design Architect	5														
• Materials Engineer- II	5														
• Professional Electrical Engineer	5														
<b>CONSTRUCTION TEAM with 5 years experience:</b>															
<b>There shall be at least one (1) stay-in Project Engineer/Architect</b>															
<b>While the following shall be required to be full-time at the project site.</b>															
<ul style="list-style-type: none"> <li>• Foreman</li> <li>• Site/Quality Control Engineer or Architect</li> <li>• Health and Safety Practitioner/ Safety Officer, must have a certificate as a practitioner on <b>Construction Occupational Safety Health (COSH)</b> issued by the Department of Labor and Employment, Occupational Safety and Health Center.</li> </ul>															

Bidders shall present their building design in 2D and 3D Presentation at suitable scale on 20" x 30" blueprint or A3 size white print paper minimum size and b. CAD Files and PDF copy in a CD/DVD or USB.