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**SUPPLEMENTAL / BID BULLETIN No. 1**

Project : Procurement of Waterproofing Works and Roof Repair of the DFA  
Building and Plaza Parking  
Reference No. : PB-IP-01-2018  
ABC : PhP 18,000,000.00  
Date : 5 December 2018

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This supplemental/bid bulletin is issued to provide information to the prospective proponents/bidders on the following changes to the Bidding Documents:

- I. Specifications (Section VI)** – The Technical Specifications (Section VI) of the Bidding Documents is superseded by ANNEX A of this Supplemental/Bid Bulletin No. 1 after considering inputs from End-User, BAC Members and prospective bidders during the pre-bid conference on 4 December 2018.

The Bidding Documents is amended accordingly.

For the information and guidance of all concerned.

(Sgd.)  
**IMELDA M. PANOLONG**  
BAC Chairperson

**Republic of the Philippines**  
**DEPARTMENT OF FOREIGN AFFAIRS**  
2330 Roxas Boulevard, Pasay City

**TECHNICAL SPECIFICATIONS**  
**WATERPROOFING WORKS AND ROOF REPAIR OF THE DFA BUILDING AND**  
**PLAZA PARKING**  
**ABC: 18,000,000.00**

Item No.		
<b>I.</b>	<b>Background:</b>	
	<p>The DFA Main building, formerly the ADB Headquarters, was built in the early 1960's and was later donated to and occupied by the DFA in 1991.</p> <p>While various minor waterproofing works and roof repairs were conducted, due to wear and tear and rainwater seepage, the existing waterproof membrane and galvanized iron roof sheeting in the DFA compound, now need urgent major replacement and repair.</p>	
<b>II.</b>	<b>Objectives:</b>	
	<p>The Project aims to repair the Department's roof and replace its waterproofing membrane with new waterproofing material in order to mitigate related problems caused by leaks, water pooling, and roof pitch/slope issues.</p> <p>The Project also aims to incorporate into the repair, the revival of several design/architectural elements such as the Parking Plaza skylight, concrete benches, and plant boxes.</p>	
		<b>Statement of Compliance</b>
<b>III.</b>	<b>Scope of works</b>	
	<p>The Project will cover the following but not limited to:</p> <p style="margin-left: 40px;"><b>1. General Requirements:</b></p> <ul style="list-style-type: none"> <li>a. Mobilization and Demobilization;</li> <li>b. Temporary Facilities and Utilities;</li> <li>c. Permits and Licenses necessary to complete the project;</li> <li>d. Bond/s and Insurances [e.g. CARI (Contractor's All Risk Insurance) from GSIS <b>or equivalent</b>];</li> <li>e. Testing and Commissioning, if any;</li> <li>f. Lifting equipment and power tools;</li> <li>g. As-Built drawings;</li> <li>h. Temporary safety, first aid facilities, and equipment;</li> <li>i. Temporary barriers and enclosures, safety protection, signage and other requirements;</li> <li>j. Cleaning and waste management; and</li> <li>k. Warranties and maintenance schedules.</li> </ul>	

## 2. Civil Works

- a. Demolition and clearing works of existing waterproofing membrane or film;
- b. ~~Demolition works of old cashier rooms at Authentication area;~~
- c. Patching works for cracks on affected walls and slab, using mixture of concrete and cementitious waterproofing system - formulated acrylic polymer (Plexibond or equivalent);
- d. Restoration works on damaged plant box/skylight/benches at Plaza Parking deck.
- e. Waterproofing works (approximately 3720 square meters);
  - i. Application of cementitious waterproofing system - formulated acrylic polymer (Plexibond or equivalent) on existing slab and affected walls.
  - ii. Correction of slab slope with a minimum pitch of one percent (1%) to drain water freely to drain lines (masonry works);
  - iii. Application of waterproofing primer;
  - iv. Application of waterproofing film including one (1) foot of extruded surfaces vertical to the slab (*not limited to walls, steel bars, AC stands, etc.*); and
  - v. Conduct of leak tests.
- f. Installation of sky light roofing (2 sets) using clear solid polycarbonate roofing with 6mm thickness at existing Plaza Parking deck;
- g. Repair of existing roofing framing system but not limited to trusses, purlins and beams;
- h. Installation of Thermal Insulation foam (Fire retardant foil foam roll, 6.5mm thick, color silver, with emissivity of 0.03 to 0.04, thermal conductivity of 0.035, reflectivity 98%, non-toxic, non-corrosive) to areas where new roofing is to be installed;
- i. Replacement of existing G.I. roofing and accessories with MultiRib colored roofing complete with bending accessories with 0.6mm thickness at car park building, 4th floor roofing, and old Authentication building roofing;
- j. Stripping of existing paint of South Wing Annex Building Roof;
- k. Patching and repainting works of existing South Wing Annex Roofing; and
- l. Other miscellaneous works needed for the project.

## 3. Plumbing works

- a. Repair existing drain pipes; and
- b. Replacement of existing floor drains with stainless steel dome type floor drains.

<p><b>IV.</b></p>	<p><b>Technical Specifications</b></p> <p><b>1. Waterproofing Primer (Preferably Castle PME-901 or equivalent)</b></p> <ul style="list-style-type: none"> <li>• <b>Features and Benefits</b> <ul style="list-style-type: none"> <li>○ Includes Primer/Sealer/Cement and Mortar Intensifier;</li> <li>○ Penetrates up to 4mm~5mm depth with water repellent properties;</li> <li>○ Clogs micro pores of concrete surface;</li> <li>○ Provides strong cementing power to concrete;</li> <li>○ Offers high-solid content;</li> <li>○ Is non-toxic and non-flammable; and</li> <li>○ Is suitable for all concrete surfaces.</li> </ul> </li> <li>• <b>Coverage</b> <ul style="list-style-type: none"> <li>○ 4kg (or 1gal) is to 25-35sq.m. for single coat</li> </ul> </li> <li>• <b>Application Procedure</b> <ul style="list-style-type: none"> <li>○ Clean the area to be waterproofed. Remove all traces of water, dirt, protruding materials and other contaminants;</li> <li>○ Dry all areas to receive waterproofing prior to priming;</li> <li>○ Apply primer by paint brush or roller brush. Allow to dry before applying the 1st coat of waterproofing film or top coat; and</li> <li>○ Conduct flood testing after the application of waterproofing.</li> </ul> </li> </ul> <p><b>2. Waterproofing Top Coat (Preferably Castle PME-202 or equivalent)</b></p> <ul style="list-style-type: none"> <li>• <b>Features and Benefits</b> <ul style="list-style-type: none"> <li>○ Includes multi copolymerized resin with nano silica contents;</li> <li>○ Offers high adhesion;</li> <li>○ Is 100% waterproof;</li> <li>○ Has excellent flexibility;</li> <li>○ Guarantees strong cementing power to concrete;</li> <li>○ Provides high-solid content;</li> <li>○ Is non-toxic and non-flammable; and</li> <li>○ Is alkali resistant.</li> </ul> </li> <li>• <b>Coverage</b> <ul style="list-style-type: none"> <li>○ 20 kg (1 pail) = 20-30 square meters or 4 kg (1 gal) = 4-6 square meters; and</li> <li>○ Minimum of 3 coats with a total film thickness of at least 1.2mm.</li> </ul> </li> <li>• <b>Suitability</b> <ul style="list-style-type: none"> <li>○ G.I. roofing and gutters;</li> <li>○ Concrete firewalls and basement;</li> <li>○ Concrete roof decks; and</li> <li>○ Others (aluminum and steel overhead water tank; concrete and metal cistern tanks; sewerage lines and pipes; wood and aluminum panels; and fiber glass and plant boxes).</li> </ul> </li> <li>• <b>Application procedures must conform to manufacturer's guidelines as indicated in their product</b></li> <li>• <b>The product to be used must possess the following analysis report:</b></li> </ul>	
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Testing Item	Method	Result
No. 1 Pull Strength (kgf/cm)	JIS K6301 (Japan Standard) Section 3 Specimen	29.4
No. 2 Expansion (kgf/cm)	Type; No.3; Test Speed: 500mm/min	46.0
No. 3 Tear Strength (kgf/cm)		18.5
No. 4 Water Drop Test (kgf/cm)	ASTM E96 (American Standard) ; Method B	7.81x10 <sup>-2</sup>

- **The product to be used must possess the following technical data:**

Tested at:	-40°C 8hrs -20°C 16hrs 20°C 16hrs 120 °C 8hrs After 10 rounds, still normal
Adhesion to surface	(18kg/cm <sup>2</sup> ) 264.6 psi (JIS K6848)
Pulling-resistance force	(29 kg/cm <sup>2</sup> ) 426.3 psi (JIS K6301)
Tensibility Ratio	Above 450% (JISK6301)
Intensity of Divulsion	(18 kg/cm <sup>2</sup> ) 264.6 psi (JIS K6301)
Permeability Test	13mg/cm <sup>2</sup> 24 hrs. (JIS ZO28)
Pressure impermeability	(+) Positive Pressure (5kg/cm <sup>2</sup> ) 73.5 psi 24 hrs. No dank (-) Negative Pressure 44.1 psi 24 hrs. No dank
Appearance	Cream-colored ropy liquid
Main Content	Multi-co polymerized resin
Solid Content	(73%) Nano Silica
Viscosity (C.P.S.)	25,000
PH	5-6
Proportion	1.2
Electric Charge	None
M.F.T.	0° C
Durability	Excellent
Daubing Volume	1.2-2.0 g/m

- 3. Cementitious waterproofing system-formulated acrylic polymer designed for compounding with Pozollan or Portland Cement. To be mixed with cement mixture for plastering works and slab rectification/roof deck pitch repair. (Preferably BoysenPlexibond #7760 or equivalent)**

#### **Features and Benefits**

- Has outstanding flexibility;
- Has excellent water resistance;
- Is resistant to weathering;
- Is solvent free;
- Is fire retardant;
- Has excellent corrosion resistance;
- Offers the following:
  - a. practical coverage of 5-6 square meters/4 liters;
  - b. surface drying time of one (1) hour;
  - c. dry through of one (1) hour;
  - d. dry film thickness of approximately 20 mils;
  - e. over coating interval (allow overnight before applying paint); and
  - f. no thinning necessary.

**4. Lead and chromate free, high rust inhibiting primer for interior/exterior steel and iron surfaces (Preferably Boysen Rust-Off Gray Alkyd Metal Primer #330 or equivalent) with the following features:**

- Safe and environment friendly, formulated without Lead, Mercury or chromates.
- Excellent corrosion resistance, formulated with special rust inhibiting pigments that are even more corrosion resistant than traditional Lead and chromate pigments.
- Excellent adhesion strong penetration into metal surfaces.
- Excellent hiding quality, light gray shade offers optimal hiding for white and other colored top coats.
- Practical coverage of 25-30 square meters per 4 liters per coat.
- Dry film thickness of 1.5 mils/coat.
- Surface dry time of two (2) hours.
- Dry through time of 5-6 hours.
- Over coating interval of 8 hours to overnight.
- Application by brush, roller or conventional spray.

**5. Gloss acrylic water-based roof paint (Preferably BoysenRoofgard or equivalent) with the following features:**

- Protects and adheresto galvanized surfaces.
- Gives durable and flexible film and good gloss retention.
- Ideal for properly primed galvanized iron surfaces, pre-painted galvanized sheets and unglazed roof tiles.
- Practical coverage of 30-35 square meters per 4 gallons per coat
- Surface dry: thirty (30) minutes
- Dry through: two (2) hours
- Dry film thickness: 1.5mils/coat
- Over coating interval: two (2) hours
- Thinning: maximum 1/2-liter water per 4 liters of paint
- Application: paint brush, roller or airless spray.
- Color: **Baguio Green**

**6. Clear Polycarbonate Solid Sheet with the following features:**

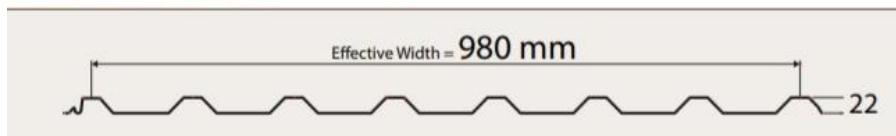
- Light transmission up to 88% of light transmitted
- Weather resistance with UV coating
- Impact resistance of 250 times as ordinary glass
- Fire retardant
- Temperature resistant
- Capable of sound insulation and easy to install
- High density UV layer
- Thickness of 6 mm
- Available width x length = 1220mm x 2240mm, 1250mm x 2440mm, 2050mm x 3050mm
  
- Other physical properties

Property	Standard	Conditions	Unit	Value
Density	ASTM D792		g/cm <sup>3</sup>	1.2
Heat Deflection Temperature	ASTM D648	1.82 MPa	°C	130
Service Temperature Range			°C	-40 to 120
Coefficient of Linear Thermal Expansion	ASTM D696		cm/cm °C	6.5 x 10 <sup>-5</sup>
Thermal Conductivity	ASTM C177		W/mK	0.21
Tensile Strength at Yield	ASTM D638	10 mm/min	MPa	65
Tensile Strength at Break	ASTM D638	10 mm/min	MPa	60
Flexural Strength	ASTM D790	1.3 mm/min	MPa	100
Flexural Modulus	ASTM D790	1.3 mm/min	MPa	2600
Impact falling weight (E-50)	ISO 6603/1	3mm sheet	J	158
Rockwell hardness	ASTM D785		R Scale	125R
Light Transmission	ASTM D1003	3mm sheet	%	89
Haze	ASTM D1003	3mm sheet	%	<0.5
Yellowness index	ASTM D1925	3mm sheet		<1

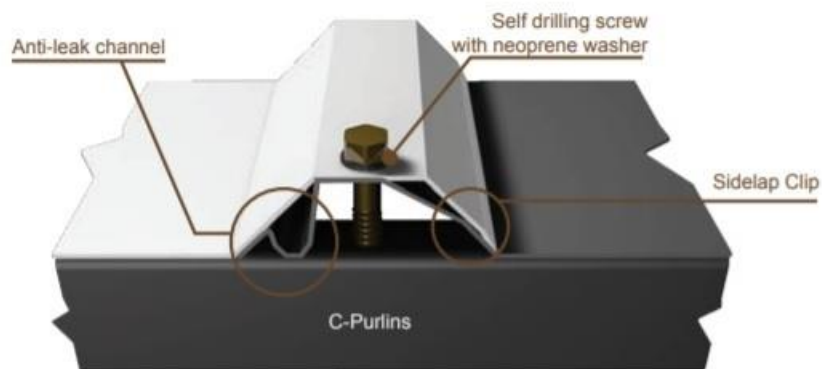
**7. MultiRib colored roofing (Preferably Steeltech or equivalent) with the following features:**

- Thickness = 0.6 mm
- Area = 597.78 mm<sup>2</sup>
- Weight = 42.98 Pa
- Moment of inertia = 43104.79 mm<sup>4</sup>
- Effective width = 890 mm
- Dimensions and section properties
- Complete with banded accessories

Dimensions & Section Properties



installation visual



<p><b>V.</b></p>	<p><b>Contractor's Qualifications</b></p> <p>The Contractor shall comply with the following minimum requirements:</p> <ol style="list-style-type: none"> <li>1. With at least ten (10) years experience infrastructure projects;</li> <li>2. Valid PhilGEPS Platinum Member;</li> <li>3. Valid PCAB license <b>applicable to the project; and</b></li> <li>4. <b>Has completed a waterproofing project with a minimum area of 1860 square meters.</b></li> </ol>																					
<p><b>VI.</b></p>	<p><b>Contractor's key personnel qualifications.</b></p> <p>The minimum requirements of Contractor's key personnel to be assigned to the Project are as follows:</p> <table border="1"> <thead> <tr> <th>Key Personnel</th> <th>Quantity</th> <th>Requirements</th> <th>Relevant Experience</th> </tr> </thead> <tbody> <tr> <td>1. Project Engineer</td> <td>1</td> <td>Licensed/Registered Civil Engineer or equivalent</td> <td>At least five (5) years experience in general construction</td> </tr> <tr> <td>2. Civil Engineer</td> <td>1</td> <td>Licensed/Registered Civil Engineer</td> <td>At least five (3) years experience in general construction</td> </tr> <tr> <td>3. Health and Safety Officer</td> <td>1</td> <td>DOLE Accredited (Certificate/s of Training)</td> <td>At least three (3) years experience in general construction</td> </tr> <tr> <td>4. Foreman</td> <td>1</td> <td></td> <td>At least three (3) years experience in general construction</td> </tr> </tbody> </table>	Key Personnel	Quantity	Requirements	Relevant Experience	1. Project Engineer	1	Licensed/Registered Civil Engineer or equivalent	At least five (5) years experience in general construction	2. Civil Engineer	1	Licensed/Registered Civil Engineer	At least five (3) years experience in general construction	3. Health and Safety Officer	1	DOLE Accredited (Certificate/s of Training)	At least three (3) years experience in general construction	4. Foreman	1		At least three (3) years experience in general construction	
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<p><b>VII.</b></p>	<p><b>Contractor's minimum major equipment requirements.</b></p> <table border="1"> <thead> <tr> <th>No.</th> <th>Quantity</th> <th>Equipment</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1 unit</td> <td>Utility Truck</td> </tr> <tr> <td>2</td> <td>2 unit</td> <td>Welding Machine</td> </tr> <tr> <td>4</td> <td>1 unit</td> <td>Lifter</td> </tr> </tbody> </table>	No.	Quantity	Equipment	1	1 unit	Utility Truck	2	2 unit	Welding Machine	4	1 unit	Lifter									
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VIII.	<p><b>Contractor's Obligations</b></p> <p>The Contractor shall:</p>	
	1. Provide all necessary materials, labor, and tools for the completion of the project.	
	2. Ensure that all materials to be used are brand new and properly sealed. Waterproofing primer and top coat must be of the same brand.	
	3. Accept the current conditions of the site. <b>OAMSS-PPMD will issue a Certificate of Site Inspection to the Contractor. The certificate will be part of the bid documents.</b>	
	4. Ensure that skilled and experienced craftsmen will undertake the project to assure first class quality, appearance and durability of the completed work.	
	5. Conform with all relevant national laws, local ordinances and building rules and regulations.	
	6. Conduct an ocular inspection/s of the site at the Contractor's expense.	
	7. Secure and pay the necessary permits, licenses, clearances and other documents as required by the National Building Code and other related laws, rules and regulations, and bear all costs, duties, fees and other charges thereof.	
	8. Secure CARI (Contractor's All Risk Insurance) from the Government Service Insurance System (GSIS), <b>or equivalent</b> , and other bonds and insurances.	
	9. Supply materials and labor deemed necessary to complete the works which were inadvertently excluded in the specifications, drawings or in other contract documents, without extra cost to the Department. Such materials shall be of the highest quality available, and installed or applied to the satisfaction of the Department.	
	10. Provide at the Contractor's expense, sampling and testing of materials prior to its delivery, in accordance with the Philippine National Standards (PNS) or applicable American Society for Testing Materials (ASTM) standards.	
	11. Provide a team of <del>three (3)</del> <b>three (3)</b> licensed professionals to supervise daily the work progress at the site and submit weekly progress/accomplishment reports with photographs to the DFA-OAMSS, copy furnished the on-site representative. <del>The said Engineer or Architect will be the Safety Officer to check, implement and monitor safety precautions during construction.</del>	
	12. Provide minimum of five (5) print and electronic copies of complete as-built plans, bill of quantities, and maintenance manual of	

	<p>procedures and a physical 3D model of the completed work prior to issuance of certificate of final acceptance.</p>	
	<p>13. Prior to the commencement of the project, provide the following documents, but not limited to:</p> <ol style="list-style-type: none"> <li>a. Shop drawings;</li> <li>b. Construction schedule/ PERT-CPM and Bar chart with S-curve;</li> <li>c. Construction methods;</li> <li>d. Manpower schedule;</li> <li>e. Equipment utilization schedule (if necessary);</li> <li>f. Cash flow and payment schedule;</li> <li>g. Lump sum cost summary and breakdown; and</li> <li>h. Other documents relevant to the project.</li> </ol>	
	<p>14. Provide reports and other necessary documents to be requested by the Department for the review, assessment and approval of the Department's consultants/project management team for purposes of variation orders.</p> <p>All variation or change orders, if any, must not exceed the total of ten percent (10%) of the contract price.</p>	
	<p>15. Provide as part of the <del>bid documents</del> post qualifications stage, brochures and specifications indicated at IV (Technical Specifications).</p>	
	<p>16. Provide to all project personnel, present on site, Personal Protection Equipment (PPE), to include but not limited to, safety shoes, hardhat, gloves, goggles, harness, reflectorized vest, boots, identification cards, and uniforms for each personnel during the construction period to ensure safety at all times. These equipment shall form part of the bid price and shall not be charged to the personnel.</p>	
	<p>17. Provide sub-meter base for the electric and water consumption of the project, in coordination with the Office of Asset and Management Support Services-Engineering and Maintenance Section (OAMSS-EMS), for tapping from the property's utility sources.</p> <p>Pay the electric and water consumption incurred during the project as billed by the Department, based on the reading of the sub-meters.</p>	
	<p>18. Be solely liable and responsible for the protection, security and safety of its personnel, third parties, equipment, installations, and the general public.</p>	
	<p>19. Provide one (1) trained Safety Officer in coordination with the DFA representatives. The Contractor shall assume overall responsibility regarding site safety. The Safety Officer shall brief the on-site personnel at the start of the Project regarding the safety standards on site and impose all safety procedures.</p>	
	<p>20. Provide necessary protection, including sheet piles, barricades, sufficient warning lights, danger signals, and other signs, if needed,</p>	

	against harm or damage to adjacent properties, persons, shrubs, trees, lawns, structures, and utilities therein.	
	21. Ensure that the permanent connections to the local utility lines for water, drainage, electrical and sewer lines including materials, equipment, facilities, fees, and/or work are in proper working order during construction period.	
	22. Be liable for any direct or indirect loss or damage to the Department as a result of gross negligence or wilful misconduct on the part of the Contractor, or on the part of any person or firm acting on behalf of the Contractor, in carrying out the project. The Contractor shall be responsible for the repair, restoration, replacement and the attendant charges, fees or costs incurred due to damages or loss.	
	23. Comply with and strictly observe all laws on workers' health and safety, welfare, and compensation for injuries.	
	24. Comply with the relevant labor laws regarding minimum wages, working hours and other laws relative thereto.  Be solely responsible for the construction personnel's work at night, on Sundays, holidays and overtime payment shall be strictly governed by pertinent laws and regulations. Costs and expenses associated herein shall be paid by the Contractor and to be included in the bid offer.	
	25. Provide five-year warranty against defective materials and workmanship upon issuance of <b>certificate of completion and final acceptance. The same shall not preclude the release of the Retention Fund one (1) year after the issuance of certificate of completion and final acceptance.</b>	
	26. Properly dispose all waste daily to prevent retention of fire hazards.	
	27. Provide barracks/bunk houses for temporary shelter and or sleeping quarters, if necessary, for its construction personnel. It must be properly maintained and subject to inspection by the project management team for the duration of the project.	
	28. Provide temporary sanitary facilities, if needed, such as toilets and lavatories for use during construction period. It shall be maintained at all times until completion of the project. (drinking and tap water, electricity and other utilities)	
	29. Remove and dispose of, upon completion of work, storage, bunk houses, staging, equipment, scraps and debris, paint drips, stains, oils, plaster-drop splatters on adjacent surfaces, and clean the entire project site.	
	30. Comply with <b>Annex "A"</b> for the drawings related to the Project;	
	31. Comply with the proper material installation/application based on manufacturer's specifications, standards and manuals.	

	32. Comply with <b>Annex "B"</b> regarding the project's Minimum Performance Specifications and Standards (MPSS).	
<b>IX.</b>	<p><b>Ownership and Confidentiality of Data</b></p> <p>The Contractor shall ensure that all data and information obtained in the course of the project is strictly confidential.</p>	
<b>X.</b>	<p><b>Confidentiality Clause</b></p> <p>The Contractor shall ensure that each of its personnel assigned to the Department shall execute and sign a Non-Disclosure Agreement which is to be submitted to the Department prior to the commencement of the services.</p>	
<b>XI.</b>	<p><b>Intellectual Property Rights</b></p> <p>The Contractor shall ensure all intellectual rights over the outcome of the project and its component shall belong to the Department.</p>	
<b>XII.</b>	<p><b>Warranty Security</b></p> <p>The Contractor shall provide a warranty security against defects in the workmanship and goods provided for a period of <b>five (5) years</b> starting from issuance of certificate of completion and final acceptance of the project.</p>	
<b>XIII.</b>	<p><b>Project Duration</b></p> <p>The Contract shall be for eight (8) months and shall commence upon issuance of Notice to Proceed.</p>	
<b>XIV.</b>	<p><b>Single Largest Completed Contract (SLCC)</b></p> <p>In case the Contractor cannot comply with the SLCC of 50% ABC. He/She can submit in conjunction of maximum of two (2) contracts with a minimum area of 1,860 square meters waterproofing project and repair/ rehabilitation of roofing projects.</p> <p>Contractor must have completed within the last five (5) years, an SLCC similar to the Contract to be bid and must be at least 50% of the ABC. In the alternative, as the SLCC, the Contractor may submit 2 completed contracts, the aggregate amount of which should be equivalent of at least 50% of the ABC and must show a minimum area of 1860 square meters waterproofing project and repair/rehabilitation of roofing projects.</p>	
<b>XV.</b>	<p><b>Terms of Payment</b></p> <p>1. Progress billing and payment shall be as follows:</p> <ol style="list-style-type: none"> <li>a. <b>15%</b> of the Contract Price: Advance Payment (mobilization cost)</li> <li>b. <b>35%</b> of the Contract Price: Upon complete delivery of materials</li> <li>c. <b>40%</b> of the Contract Price: Upon completion and acceptance of the Project.</li> </ol>	

	<p>d. <b>10%</b> of the Contract Price: Retention Fund – one (1) year after issuance of certificate of completion and final acceptance of the project.</p> <p>2. The Contractor shall be paid within thirty (30) working days upon the submission of the sales invoice, or its equivalent, and other supporting documents examined by the Office of Financial Management Services-Financial Resource Management Division (OFMS-FRMD). Payments shall be made through List of Due and Demandable Accounts Payable (LDDAP).</p> <p>3. All payments shall be inclusive of all applicable taxes and other lawful charges.</p>	
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Note:

Bidder must state compliance to each of the provisions in the Terms of Reference/Technical Specifications, as well as to the Schedule of Requirements. The Statement of Compliance must be signed by the authorized representative of the Bidder, with proof of authority to sign and submit the bid for and in behalf of the Bidder concerned. If the Bidder is a joint venture, the representative must have authority so sign for and in behalf of the partners to the joint venture. All documentary requirements should be submitted on or before the deadline for the submission of bids.

Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statement of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc. as appropriate. A statement that is not supported by evidence or is subsequent found to be contradicted by the evidence presented will render the bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1 (a)(ii) and/or GCC Clause 2.1 (a)(ii).

Conformé;

[Signature/s]

[Name of the Bidder/Bidder's Authorized Representative/s]

[Position]

[Date]

## **Annex B**

### **Minimum Performance Specifications and Standards (MPSS)**

#### **1. Governing Codes, Specifications, Regulations and Standards:**

The installation, quality of work and equipment shall conform to good engineering practices and, in particular, comply with the requirements laid down in the following or their equivalent which are mandatory and modified only by specific agreement:

##### **A. Architectural:**

- a) National Building Code of the Philippines (R.A. 6541)
- b) American Society for Testing and Materials (ASTM)
- c) Philippine National Standards (PNS)
- d) Philippine Trade Standards (PTS)

##### **B. Structural:**

- a) National Structural Code of the Philippines (NSCP)
- b) American Society for Testing and Materials (ASTM)

##### **C. Electrical:**

- a) Philippine Electrical Code (PEC)
- b) Fire Code of the Philippines (R.A. 9514)
- c) Local Utility Power Company
- d) Underwriters' Laboratory, Inc. (UL)
- e) National Electrical Manufacturers Association (NEMA)

##### **D. Sanitary and Plumbing Works:**

- a) Revised National Plumbing Code of the Philippines (R.A. 1378).

##### **E. Fire Protection:**

- a) Fire Code of the Philippines (R.A. 9514)

#### **2. Temporary Site Facilities**

- a. Temporary facilities shall all have lighting, power, water supply and all necessary facilities for the simultaneous use of all possible fields of work to complete the project.

- b. The necessary number of warehousemen shall be assigned to ensure security of the construction site.
- c. A sufficient number of units of fire extinguishers shall be made available in the facility.
- d. On-site billboards shall be displayed to caution public safety.
- e. Storage and filing of materials:
  - 1. Delivery: All materials shall be properly turned over and delivered on-site in good quality and condition. There shall be time and delivery records.
  - 2. Storage: A space for the storage of materials shall be designated by OAMSS and for erection of sheds and tool houses if deemed necessary. Materials must be arranged properly in terms of size, quality, quantity, category and time of use.
  - 3. Storage area shall be properly maintained by a designated person.
  - 4. Cement, lime and other materials affected by moisture shall be stored on platforms and protected from damage due to inclement weather. Materials shall be stored to ensure the preservation of its quality. Storage facilities shall be conveniently located to facilitate access and prompt inspection.
  - 5. Necessary precautions to avoid fire must be observed by removing oily rags, waste, etc. at the end of daily work.

### **3. Civil Works**

#### **A. Painting works**

- a. All paint materials shall meet the requirements of the Standard Specifications of the International Organization for Standardization (ISO), or equivalent, on supplies.
- b. All paint materials shall be delivered to the job-site in their original containers with labels and unbroken seals.
- c. Manufacture or brand of painting materials proposed to be used by the Contractor shall first be submitted to OAMSS-PPMD for approval to ensure the quality of materials.
- d. All exposed hardware, lighting fixtures and accessories, plumbing fixtures and accessories, glass works and the like shall be appropriately protected to prevent paint stains and damage from painting materials.
- e. All paints and other coatings shall be mixed and applied strictly in accordance with the manufacturers' printed instructions.
- f. Surface preparations and cleaning standard practices must be properly followed before application of painting products. These include metal, concrete, plasters and wood surfaces and materials. Voids, cracks, and all other defects shall be repaired with proper patching materials and flush finished with the surrounding surfaces.
- g. Accessories and other items to be painted and not specified herein, but necessary to complete the work, shall be approved by OAMSS-PPMD. The paint must be suited to the nature of the surface and materials.
- h. Painting and varnishing works shall be done only during appropriate weather conditions.
- i. All hardware, such as but not limited to, door knobs, lighting fixtures, and hinges, shall either be protected or removed prior to painting and varnishing works.
- j. Kerosene shall not be used as paint thinner.
- k. Paints of different manufacturers shall not be mixed together.

## **B. Carpentry and Joinery Works**

- a. Different species of lumber herein specified for various parts of the structure shall be well seasoned, sawn straight, sun-dried or kiln-dried, dressed S4S and free from defects such as loose and unsound knots, pitches, pockets, splits, borers, kinks, sapwood, cracks and other imperfections impairing its strength, durability and appearance. Lumber grading must be in compliance with the Philippine National Standards (PNS).
- b. Plywood shall be of high quality grade and made of laminated wood strips bonded together with water resistant resin glue and not less than 19mm in thickness. The plywood shall be free from defects such as split veneer, buckling or warping and shall conform to the requirements of the Philippine Trade Standards 631-02. No plywood that contains urea-formaldehyde, which is a health hazard, shall be used.
- c. Fasteners such as nails, screws, bolts and straps shall be provided and used where suitable for fixing carpentry and joinery works. All fasteners shall be brand new and of adequate size to ensure rigidity of connections.
- d. Lumber and other materials shall be protected from dampness during and after delivery at the site.
- e. Lumber shall be piled in orderly stacks, at least 15cm above the ground, and in a sheltered place where it will be of least obstruction to work.

## **C. Masonry works (Cement plaster, cement overlay and grout)**

- a. Portland cement, proposed to be used, shall conform with ASTM C-150 or higher and shall first be submitted to OAMSS-PPMD for approval. Only one(1) brand of cement shall be used for the whole masonry works.
- b. Sand or fine aggregate shall be clean, clear, of sharp/river sand and well graded and free from dust, clay, lumps, shale, alkali, surface coatings, organic matter and other deleterious substances.
- c. Water to be used shall be fresh and clean, free from ruinous amount of oil, acids, alkali, organic materials, and other deleterious substances.
- d. Surface preparations and cleaning standard practices must be properly followed before application of cement mixture.
- e. All cement materials shall be mixed and applied strictly in accordance with the manufacturer's printed instructions.
- f. Cement plaster shall consist of one (1) part Portland cement and two (2) parts clean, washed sand measured by volume.
- g. Materials shall be delivered in the manufacturer's original unbroken packages or containers labeled plainly with the manufacturer's name and trademark. All cement materials shall be kept dry until ready for use. It shall be stored off the ground, under cover and away from "sweating walls" and other damp surfaces.
- h. Cement plaster shall not be applied on concrete and masonry surface that had been coated with bituminous compound and other surfaces that have been painted or previously plastered.
- i. Plaster work shall be finished, leveled, plumbed, squared and true to line within tolerance of 3mm in 3 meters-span without waves, cracks, blisters, pits, crazing, discolorations, projections and other imperfections. Plaster work shall be formed carefully around contours, angles, and well screeded. Special care shall be taken to prevent sagging and consequent dropping of mortar during applications. There shall be no visible junction marks after the final coat.
- j. All loose, cracked, damaged or defective parts shall be repaired and re-plastered in an acceptable and approved manner.



- k. Wash-out pebble stones shall be of well graded sizes consisting of 4mm to 8mm round variation washed river gravel.
- l. Wash-out pebble stone finish shall be properly sloped and rendered under-bed.
- m. The under-bed mixture shall be spread to bring mortar under-bed to a level of 16mm below the finish floor line.
- n. For concrete masonry works, the surface to be applied shall be first rendered a scratch coat and made true to plane, leveled, plumbed and squared then allowed to cure for seven (7) days.
- o. Wash-out pebble stone mix shall consist of one part Portland cement and two parts (1:2) wash-out pebble stone measured by volume.
- p. Mixture shall be in approved containers to ensure that the specified materials are controlled and accurately measured. Mixture measured by shovel or shovel counts will not be permitted.
- q. The aggregates introduced must be mixed in such a manner that the material will be uniformly distributed throughout the mass.
- r. Mortar boxes, pans etc., where mixtures are mixed shall be kept clean and free from debris or dried mortar.
- s. Concrete setting bed must be sufficiently rough and all loose particles or anything which will diminish bond shall be thoroughly cleaned off.
- t. The concrete under-bed must be kept wet for at least four (4) hours before the wash-out pebble stone mix is applied.
- u. Wash-out pebble stone application mix shall be applied with pressure to obtain solid adhesion to the under-bed and setting bed.
- v. The finish surface shall be firmly, evenly, and monolithically applied.
- w. When the surface applied with wash-out pebble stone mix has sufficiently set, the cement paste shall be removed by use of sponge or water spraying equipment used in this specific trade, in order to expose the wash-out pebble stone quarter face but still intact.
- x. Curing, cleaning and finishing. Once the wash-out pebble stone finish is exposed to desired appearance, the surface shall be covered with damp burlap or other approved covers. Once the surface is semi-dry and stable, it shall be ready for curing.
- y. For proper curing, keep the wash-out pebble stone finish moistened for a period of at least seven (7) days by thoroughly wetting the surface three (3) times a day and protecting it from sunlight, with burlap or other approved covers.
- z. Upon completion of the work and the surface has been completely cured, the surface shall be washed with clean water and brushed thoroughly to produce a clean and sparkling appearance. All cured surfaces shall be protected until acceptance.

#### **4. Waterproofing works**

- a. Cracked surfaces must be plastered with a mixture of concrete and cementitious water proofing acrylic polymer.
- b. Concrete slab shall be properly graded to drain rainwater. A minimum pitch of one percent (1%) is satisfactory to drain rain water freely into drain lines.
- c. All waterproofing materials, primers and topcoats, and other coatings shall be mixed and applied strictly in accordance with the manufacturers' printed instructions.
- d. All loose areas shall be refitted and well secured. Cracks, breaks and open seams shall also be repaired. Where required or as directed in the membrane waterproofing product instruction manual, prepared surface shall be prime coated.

- e. Areas to be waterproofed must be cleaned and dried prior to priming. All traces of water, dirt, protruding materials, and other contaminants shall be removed first.
- f. Before work is started, the slope for drainage should be properly done and provided in the prepared under-bed.
- g. Waterproofing primer shall be applied by paint brush or roller brush. Drying time of 30-40 minutes or depending on the condition of the surface, must be observed before applying the first coat of waterproofing top coat (waterproofing film).
- h. Waterproofing top coat (waterproofing film) shall be applied by paint or roller brush. Drying time of 40minutes-1 hour or depending on the condition of the surface, must be observed before applying the second coat of waterproofing top coat.
- i. Waterproofing top coat as second coat shall be applied by paint or roller brush. Drying time of 40minutes-1 hour or depending on the condition of the surface must be observed before applying the next coat/s (application of third and fourth coat must also be done if required by OAMSS, at no additional cost).
- j. Application of waterproofing on extruded surfaces one (1) foot or 300 millimeters from the horizontal surface of the waterproofing top coat, shall also be included.
- k. All loose areas shall be refitted and well secured. Cracks, breaks and open seams shall be repaired. Where required or as directed in the membrane waterproofing product instruction manual, prepared surface shall be prime coated.
- l. Flood testing after the application of waterproofing shall be performed.

## **5. Roofing Materials**

- a. All pre-painted metal sheets and roofing accessories shall be oven-baked, and painted true to profiles.
- b. All pre-painted roofing sheets shall be fabricated from cold rolled galvanized iron sheets specially tempered steel for extra strength and durability. It shall conform to the material requirements defined in PNS(67:1985).
- c. Gutters, valleys, flashings, hip and ridge rolls shall be fabricated from gauge 24 (0.60mm) thick cold rolled plain galvanized iron sheets specially tempered steel. Profile section shall be indicated on the plans.
- d. Fastening hardware shall be of galvanized iron straps and rivets. G.I. straps shall be 0.60mm thick x 16mm gauge 24 and standard G.I. rivets.
- e. Before any installation begins, the Contractor shall ascertain that the top face of the purlins is in proper alignment.
- f. All installation works shall be in accordance with the manufacturers' printed instructions.
- g. In cutting pre-painted steel sheets to place the exposed color side down, cutting shall be carried out on the ground and not over the top of the other painted roofing product.
- h. Power cutting or drilling to be done or carried out on pre-painted products already installed or laid in position, the area around holes or cuts shall be masked to shield the paint from hot fillings.
- i. Pre-painted steel roofing, walling products and accessories shall be delivered to the job site in strapped bundles for proper storage and protection.
- j. Sheets and/or bundles shall be neatly stacked on the ground, and if left in the open, these shall be protected with tarpaulin.

## **6. Plumbing works**

- a. Gutters and downspouts shall be cleaned by removing leaves, branches and other foreign materials.
- b. Dome-type drains shall be made of stainless steel base with large free area, flashing clamp and integral gravel stopper.