Terms of Reference for the Procurement of Supply of Labor, Materials, Supervision and other Consumables for the Waterproofing Works of Roof Deck, Powerhouse, Main Electrical Room, Penthouse and Machine Room of NEA Building

1. RATIONALE

- 1.1. Roof deck gives a vantage point from which to look out a nice or stunning cityscape. However, this part of the building deemed extremely vulnerable to damage caused by constant movement and exposure to weather. With heavy rainfall, leaks occur. Water can seep into the roof deck ceiling and damage the structure and other components of the building. Thus, this area must undergo waterproofing to avoid potential damage and save costly and time-consuming repairs.
- 1.2. To address this situation, it is highly recommended that in order to prevent future leaks of roof deck, including penthouse and machine room, the National Electrification Administration (NEA for brevity), a Government-Owned and Controlled Corporation duly organized and existing under and by virtue of P.D. 269, as amended by R.A. 10531, with principal office address at NEA Building, Barangay Pinyahan, Diliman, Quezon City, needs the qualified/professional waterproofing services of а service firm ("CONTRACTOR", for brevity) which can provide manpower, equipment, supplies, materials and technical expertise for the waterproofing of NEA's Roof Deck, Powerhouse, Main Electrical Room, Penthouse and Machine Room.

2. APPROVED BUDGET FOR THE CONTRACT

- 2.1. For and in consideration of the performance and accomplishment of the WATERPROOFING SERVICES, NEA shall pay the CONTRACTOR the total amount of THREE MILLION TWO HUNDRED FIFTY-THREE THOUSAND NINETY-TWO PESOS and 6/100 (Php3,253,092.06) for the contract price. Subject to pertinent laws on government contracts and auditing procedures.
- 2.2. The contract price is inclusive of all duties and taxes.
- 2.3. No changes shall be made on the Contract Price by reason of escalation in currency. Any adjustment in Contract Price shall be done in accordance with guidelines provided by law.
- 2.4. The payment of escalation costs shall be subject to the unilateral and written approval of **NEA** and to availability of funds.

3. PROJECT DURATION

- 3.1. The project duration covering the waterproofing works of roof deck, including penthouse and machine room, in **NEA** shall be for a period of **sixty (60) days** from the issuance of Notice to Proceed (NTP).
- 3.2. The **CONTRACTOR's** proposed Work Plan shown in Gantt Chart, which is a mandatory part of the Technical Proposal, should provide a more detailed schedule of activities. Unless approved in writing by **NEA** on the written request of the **CONTRACTOR**, the coverage *from mobilization to demobilization*, should not extend beyond the derivable dates as indicated here below.

	Work Clusters	Nth Cal-days from Contractor's Date of Receipt of Notice-to-Proceed			
		Start 1 st	Finish		
	Notice to Proceed	1 st	1 st		
2.	Mobilization of construction materials and consumables; deployment of manpower and equipment; secure necessary permits; provision of safety signage's and paraphernalia; and, submission of shop drawings and project Bar Chart/S-Curve and PERT/CPM Network Diagram for NEA's approval prior to project implementation.	2 nd	14 th		
3.	Surface Preparation, Concrete Repair, Waterproofing Works, Flood Testing on Roof Deck including Penthouse and Machine Room	15 th	44 th		
4.	Punch-listing, Rectification of Punch-list Items, Final Flood Testing; Cleaning, Restoration of all affected facilities/areas/landscape, and other related-fixtures due to waterproofing works; and, Project Turn-Over including submission of as-built plans duly signed and sealed by appropriate professional engineer/s and other contract documents.	45 th	60 th		

- 3.3. Exact dates of delivery and/or completion should be reckoned from the date of **CONTRACTOR's** receipt of NTP.
- 3.4. The liquidated damages shall be imposed for the inability of the **CONTRACTOR** to comply with the **Approved Construction Schedule**, unless a written request for time extension been approved in writing by **NEA**.

4. QUALIFICATION OF THE CONTRACTOR

4.1. The **CONTRACTOR** must be competent and experienced in the field of waterproofing works with a minimum of five (5) years prior experience on

similar projects and should have a valid and current Philippine Contractors Accreditation Board (PCAB) License, Category "C" or "D", with a classification General Engineering (GE-1) or Specialty – Waterproofing Work (SP-WP).

- 4.2. The **CONTRACTOR** is required to submit a company profile, list of present and previous clientele for the past five (5) years, and certifications issued by past/present clients indicating the Contractor's satisfactory performance.
- 4.3. The Project-in-Charge who will administer the Waterproofing Works must be well trained and experienced waterproof applicator with at least three (3) years' experience.

5. GENERAL REQUIREMENTS

- 5.1. The **CONTRACTOR** will provide technical supervision, skilled manpower, tools, equipment and suitable highest quality materials within the specified period to complete the project.
- 5.2. As-built Drawings is to be done and submitted by **CONTRACTOR**.
- 5.3. Provide coordination and collaborative works with **NEA** to complete respective works in accordance with approved drawings, specifications and method of installation.
- 5.4. Provide all materials necessary to complete the works although not specifically mentioned in the Specifications, working drawings or in on other contract documents without extra cost to the **NEA**.
- 5.5. Comply with all applicable Environmental, Health and Safety regulations required by law.
- 5.6. Secure and submit all necessary bonds, permits and insurances required in the contract.
- 5.7. Submit on time, the required work schedule, delivery schedule, table of organization, manpower schedule, samples product data, safety plan, methodology and other requirements deemed necessary.
- 5.8. Ensure the quality of materials and workmanship needed to complete and render ready for acceptance by the owner.
- 5.9. Responsible for the safety requirements (safety shoes, vest, hard hat, safety harness, lifeline) and provision of fire extinguishers and all other fire protection provisions in working areas.
- 5.10. Compliance to provisions of safety provisions for warehousing/storage of their materials and equipment.
- 5.11. Medical Requirements of **CONTRACTOR** workers will be part of preliminaries of **CONTRACTORS**.

- 5.12. Hauling and disposal of garbage inside the building perimeter.
- 5.13. Protect and maintain in the required acceptable conditions of all waterproofing works and accessories during construction until hand over.
- 5.14. Ensure that the performance, appearance and proper functioning of the works are not affected by any movements, settlement or deflection in the building structure. Also take into account the construction accuracy of works by others to which the waterproofing works are attached.
- 5.15. Coverage of the waterproofing works is approximately **2,020.78 square meters** covering areas such as but not limited to the following:

Location		Area (sqm)
Roof Deck		1,607.50
Penthouse		231.00
Machine Room		117.00
Powerhouse		45.00
Main Electrical Room		20.28
	Total	2,020.78

6. SCOPE OF WORK

- 6.1. The CONTRACTOR shall undertake the works implementation of the "Supply of Labor, Materials, Supervision and other Consumables for the Waterproofing Works of Roof Deck, Powerhouse, Main Electrical Room, Penthouse and Machine Room of NEA Building", all in accordance with the specifications and subject to the terms and conditions of the contract.
 - 6.1.1. Mobilization and Provision of Temporary Facilities
 - 6.1.1.1. The **CONTRACTOR** shall provide safety signage/early warning signs visible at the jobsite.
 - 6.1.1.2. The **CONTRACTOR** shall make available Protective Gears for the workers.
 - 6.1.1.3. Temporary Facilities shall be of a design and materials acceptable to **NEA**.
 - 6.1.1.4. The **CONTRACTOR** shall provide suitable portable toilet facilities at approved location with proper enclosures for the use of workmen, and shall maintain same in sanitary operable conditions, all in conformity with the local regulations.
 - 6.1.1.5. The **CONTRACTOR** shall provide such other temporary building as maybe required for use of his/her workers and safe storage of tools and materials. Such structures shall be located only where previously approved.

- 6.1.1.6. **NEA** shall provide for temporary power facility required for the entire waterproofing works phase. The **CONTRACTOR** shall provide conduits, wires, connections and accessories and labor.
- 6.1.1.7. **NEA** shall provide temporary water facility that will be used during the entire waterproofing works stage.
- 6.1.1.8. The **CONTRACTOR** shall install, operate and maintain adequate number of temporary hoists, scaffolds, runways, ladders, and the like as required for the proper execution of the work. Safety precautions shall at all times be observed.
- 6.1.1.9. All temporary services and facilities installed by the **CONTRACTOR** shall be removed by the **CONTRACTOR** on completion of this Contract or as directed by **NEA**. The **CONTRACTOR** shall restore any damage, alteration, caused by such removal and during the project implementation.
- 6.1.2. Surface Preparation
 - 6.1.2.1. Remove and dispose existing concrete topping as well as old waterproofing materials.
 - 6.1.2.2. Prepare concrete base at the roof deck to include the correction of slope to drain and restoration of damage surface. Provide a minimum pitch of 1:100 to satisfactory drain rainwater freely into the drainage lines, gutters and downspouts.
 - 6.1.2.3. Clean/prepare/steel trowel horizontal and vertical concrete surfaces until said surfaces are smoothly finished, fully cured, dry clean and free of rubbish, loose or foreign materials.
 - 6.1.2.4. De-clogging and repair of all defective storm drain pipes, including leak test. Remove existing brass strainers.
 - 6.1.2.5. Prepared reglets of about 40 mm deep by 40 mm wide and 250 mm above floor finish along walls or parapets for the termination of the membrane.
 - 6.1.2.6. Prepared surfaces shall be cured and kept wet by sprinkling with water at regular intervals for a period of at least 3 days and allow surface to actually set within 7 days.
 - 6.1.2.7. When there is reasonable doubt as to the presence of moisture in the surface to be applied with membrane, expose the same direct to sunlight for another 2 days or heat all suspected area using blow torch.

- 6.1.2.8. For planter boxes, temporary removal of garden soil, plants and other items and to be placed to designated areas provided by **NEA**.
- 6.1.2.9. Haul and dispose debris properly and to be placed to designated areas provided by **NEA**.
- 6.1.3. Concrete Repair
 - 6.1.3.1. Repair/seal cracks on concrete, cold joint, construction and expansion joint.
 - 6.1.3.1.1. For thin hairline cracks: cracks (0.25 mm or under) shall not be opened or cut but the cracks shall be cleaned, filled, and sealed with epoxy grout by using stiff brush, trowel or putty knife.
 - 6.1.3.1.2. For large cracks and voids: cracks shall be routed out along its entire length (to a depth not less than 6.35 mm and a width of 9.5 mm) and cleaned groove by vacuuming or blowing off all dust and loose particles and primed with pure epoxy-resin binder adhesive to ensure a weld bond after which the epoxy mortar shall be applied with a trowel or putty knife flush with the adjoining surface.
 - 6.1.3.1.3. *In case of deep cracks and cleavage:* where the size of the opening permit, the cracks shall be filled with epoxy grout by pumping epoxy resin mix under pressure into cracks, allowed to hardened, then the surface coated with epoxy mortar.
 - 6.1.3.2. Inspect all areas to be waterproofed.
 - 6.1.3.3. Certify if areas are free from any structural defect and therefore ready for waterproofing installation.
- 6.1.4. Waterproofing Installation
 - 6.1.4.1. Bidders may propose and adopt other types and methodology as long as they fulfill the obligations in the contract which is to fully waterproof the entire areas subject to be waterproofed so that leaks and seepages are prevented.
 - 6.1.4.2. Prepare surface/substrate slab. The application of the waterproofing material will require **NEA** or its authorized representative's formal approval before application.

Note: Construction and expansion joints should be double covered with the strip of same graded waterproofing material of about 1 foot wide centered on the axis on the corner or joint. 6.1.4.3. Install waterproofing material as indicated and in accordance with the respective manufacturer's application/installation instructions and recommendations or in accordance with Department of Public Works and Highways Department Order No. 110, Series of 2017, DPWH Standard Specification for Item 1016 - Waterproofing.

Note: If crystalline waterproofing will be applied, the concrete surface to be treated must be clean and free of laitance, dirt, film, paint, coatings or other foreign matter and rout out cracks, faulty construction joints and other structural defects to a depth of 1.5 inches (37 mm) and a width of one inch (25 mm).

Note: If preformed or built-up bituminous membrane method will be applied, it should be smooth and free from irregularities which may destroy the integrity of the membrane with 2-inch minimum overlaps on all sheet joints. Bond all overlaps using appropriate bonding material. Membrane should conform to the number of ply size and shape of the surface area covered. Seal membrane edges with appropriate sealing materials.

Note: If liquid membrane waterproofing will be applied, it should be sound and cured without the use of curing compound. It should not be applied unless the ambient temperature is 4.44 Centigrade or higher and should not proceed during inclement weather condition.

- 6.1.4.3.1. *For Drains:* extend waterproofing material down the drains at about 2 inches in length.
- 6.1.4.3.2. For Pipe Embedded thru Slab: treat area or extend waterproofing material around the embedded pipe.
- 6.1.4.3.3. *For Plant Boxes:* extend waterproofing material to fully cover top of parapet walls.
- 6.1.4.3.4. *For Horizontal Surface:* extend waterproofing material to about 12 inches high from slab if terminated to adjoining walls.
- 6.1.4.4. Remove the layer of waterproofing materials exposed to moisture and repeat the procedure until completion of the process.
- 6.1.5. Flood Testing
 - 6.1.5.1. Flood testing the waterproof areas with 2-inch depth of water for at least 48 hours to determine any leakage or defect on the materials used and/or workmanship.
 - 6.1.5.2. Repeat the waterproofing installation procedures if leaks manifest.

- 6.1.6. Concrete Topping, if necessary
 - 6.1.6.1. Provide concrete cement topping of at least 50 mm thick with GA #10 welded wire mesh (size: 6" x 6" square mesh opening) where protective covering has been applied.
 - 6.1.6.2. Apply finishing topping. Ensure proper sloping on surfaces (about 2.0%) enough to drain water freely into drain lines, gutter and downspouts to prevent water ponding.
- 6.2. Inspection and Test
 - 6.2.1. The **CONTRACTOR** shall permit and facilitate inspection of the work by the **NEA** or its authorized representative, and the public authorities having jurisdiction at all times during the progress of the work.
 - 6.2.2. The **CONTRACTOR** will be responsible for all the test and engineering services required by the Specifications. The cost for inspection or tests not required by the specification but which the **NEA** requires, will be borne by the **NEA**.
 - 6.2.3. All tests shall be performed by the testing agency approved by the NEA and shall be in accordance with the current standards of the American Society for Testing and Materials unless otherwise specified by NEA. The CONTRACTOR shall furnish the NEA with 2 copies of the test procedures used.
- 6.3. Punch List, Final Flood Testing, Cleaning, Clearing and Turn-Over
 - 6.3.1. Correct all noted punch lists, defects and/or needed replacements identified and observed.
 - 6.3.2. Conduct final flood testing of all areas for the duration of 2 days.
 - 6.3.3. Restore to its original condition any facilities and fixtures that has been damaged due to waterproofing works and accidents arising during implementation, if any.
 - 6.3.4. Restoration of garden soils, plants and other items removed from the planter box into its original condition, including cleaning of weep hole drains.
 - 6.3.5. Replacement of existing brass strainers and restoration of missing brass strainers with a new dome type strainer.
 - 6.3.6. Clean, clearing of the area, and hauling and disposal of debris properly before turn-over.
 - 6.3.7. Demobilize and turn-over the entire project for acceptance of **NEA** or its authorized representative.

7. MATERIALS REQUIREMENTS & SPECIFICATIONS

- 7.1. Use **NEA-approved** one brand only all throughout. All exposed finish hardware, lighting fixtures and accessories, plumbing fixtures and accessories, glasses and the like shall be adequately protected that these are not stained with waterproofing materials prior to waterproofing works. All other surfaces which would be endangered by stains and waterproofing materials marks should be taped and covered with craft paper or equal.
- 7.2. Delivery of the materials must be supported by an official receipt or delivery receipt duly signed by the authorized representative of the manufacturer attesting that the paint was sourced from the manufacturer which will be subject to inspection and documents validation by the **NEA** or its authorized representative.
- 7.3. Liquid Membrane Waterproofing
 - 7.3.1. Liquid waterproofing alternate material shall be of elastomeric or other substances applied in liquid form and cured to an impervious membrane.
 - 7.3.2. For long-term UV and weather resistance, a high-performance synthetic rubber-based membrane type of liquid waterproofing is highly suggested to be used. For tiled finishes that is capable of accommodating expected structural movements, a waterborne flexible Styrene Butadiene Rubber (SBR) waterproof membrane can be used. For waterproofing shower recesses, bathrooms, laundries, decks, balconies and rooftops, an elastomeric, one part, fiber reinforced, water based polyurethane membrane can be used.
 - 7.3.3. Specifications and Performance Data

Density, kg/m ²	1.2 – 1.3
Solid Content, %	>95
Tensile Strength (ASTM D412), N/mm ²	4.0
Elongation at break (ASTM D412), %	>700
Tear Strength, N/mm ²	>12
Adhesion to concrete (ASTM D5469), N/mm ²	>1.5
Hardness (Shore A) (ASTM D2240)	>60
Touch Dry (@ 25C at 65% R.H.), hours	2 – 3
Cure Time, hours	12 – 24
VOC Content, g/L	<50
Use	Exposure
USE	(Pure PU)
	Pass (-250C,
Crack Bridging Test (ASTM C836)	2.0 mm, 25
	cycles)
	Below 5.0
Water Permeability (ASTM D5052)	g/m² (42
	hours)

8. WARRANTY

8.1. The **CONTRACTOR** shall guarantee the work done to be free from defects for a period of **five (5) years** reckoned from acceptance of the project. Form of warranty shall be in accordance with the provisions in Section 62 of the Revised Implementing Rules and Regulations (IRR) of R.A. 9184.

9. RESPONSIBILITIES OF THE CONTRACTOR

- 9.1. The principal features of the work do not in any way limit the responsibilities of the **CONTRACTOR** to the general description of his/her scope of work. He/she shall perform all the work fully and make operational to the intent of the project.
- 9.2. The **CONTRACTOR** shall be responsible for the proper execution and coordination of his/her work. He/she shall schedule and program all necessary work activities according to the specified completion period.
- 9.3. The CONTRACTOR shall observe the required standards of safety and procedures and that its contract and workers shall be properly insured against all risks. He/she shall provide/equip its workers with Personal Protective Equipment (PPE) during the course of construction/installation. He/she shall observe the NEA's house regulations to be issued together with the Work Permit.
- 9.4. The **CONTRACTOR** shall be responsible for securing **NEA** issued work permits and compliance with other **NEA** rules and regulations related to the construction works. All workers/engineers working at site are required to wear company uniforms indicating their company name.
- 9.5. The **CONTRACTOR** is not allowed to erect quarters for workers within **NEA** premises; sleeping is also not allowed. **CONTRACTOR's** workers are limited to the designated working area only. Loitering around and inside the **NEA** premises is not allowed.
- 9.6. The **CONTRACTOR** shall be responsible for clearing and cleaning of the designated project site of unused materials, left over and other debris at the site and disposal of the same outside of the **NEA** premises. A daily inspection of the work area shall be conducted by the **CONTRACTOR** and **NEA** or its authorized representative to ensure that the working area and storage area assigned to the **CONTRACTOR** is clean and in order at all times.
- 9.7. The **CONTRACTOR** shall protect adjacent areas against any damage by his/her employees, or by his/her materials, equipment and tools during the execution of the work. Any damage done by him/her or his/her employees shall be repaired at his own expense, without additional compensation beyond the contract.
- 9.8. Permits, Laws, Ordinances and Standards the installation provided for and specified herein shall comply with laws and regulations of the local

government unit and any government agency having jurisdiction. All necessary permits and other requirements shall be secured and for the account of the **CONTRACTOR**. Said requirements shall be turned-over to **NEA** upon project completion.

- 9.9. The **CONTRACTOR** shall assign a fulltime Engineer/Architect as Project-In-Charge (PIC) for the project to supervise the works mentioned herein. The PIC shall be a certified registered Civil Engineer or Architect designated for the project by the **CONTRACTOR**. Said PIC must be the one to report on a weekly/monthly basis of the status/progress of the project as agreed during the kick-off meeting and who shall the one responsible for all coordination works with the **NEA** or its authorized representative.
- 9.10. All other items of work not specifically mentioned but are necessary to complete the works in accordance with the plans and specifications and other related documents shall be provided by the **CONTRACTOR** at no additional cost to the **NEA**.

10. SUBMITTALS

- 10.1. Before commencing any work or providing any materials at the jobsite for this project, the **CONTRACTOR** shall submit samples, project Bar Chart/S-Curve and PERT/CPM Network Diagram for the **NEA's** approval **within five (5) calendar days** upon receipt of Notice to Proceed.
- 10.2. The Contractor's All-Risk Insurance (CARI) shall be submitted to **NEA within ten (10) calendar days** upon receipt of Notice of Award (NOA) to be issued by the BAC Secretariat.
- 10.3. The **CONTRACTOR** shall submit to **NEA**, the proposed delivery of materials, tools and equipment, and manpower schedules for proper monitoring **five (5)** calendar days after the Pre-construction/kick-off meeting.
- 10.4. The **CONTRACTOR** shall submit samples and/or technical brochures of all materials to be used in the project **within ten (10) calendar days** upon receipt of Notice to Proceed which include but may not be limited to the following for **NEA's** approval:
 - 10.4.1. Waterproofing Materials/Brochures with technical specifications.
 - 10.4.2. Manufacturer's printed Product Installation Instructions.
 - 10.4.3. Manufacturer's Warranty Certificate covering the five (5) years product warranty after application.
- 10.5. Prior to issuance of the Certificate of Completion (COC) the following shall be submitted to NEA. NEA reserves the right not to issue a Certificate of Satisfactory Performance on the basis of the non-submission of any of the items below:

- 10.5.1. Test results/Report for leak test/s.
- 10.5.2. Original Copy of "Record Drawing/Plan" complete with legend, technical specifications and measurements.
- 10.5.3. Final Project Report including photo documentations before, during and after implementation works. Each photo-documentation should have the date and time stamps in jpg-format.
- 10.5.4. As-built Plans Plans should be approved by **NEA**. The **CONTRACTOR** shall submit shop drawings as required by **NEA**. A complete set of As-Built Drawings in printed form (20" x 30") and/or A3 whichever is required by **NEA** and an electronic copy in AutoCAD.
- 10.5.5. Warranty Certificate of at least five (5) years against poor workmanship and defects traceable to materials.
- 10.6. The **CONTRACTOR** is required to have a suitable Construction Safety and Health Program, which must be in accordance with Occupation Safety and Health (OSH) Standard, rules and issuances by the DOLE. The program shall state the following:
 - 10.6.1. Composition of Construction Safety and Health Committee.
 - 10.6.2. Specific safety policies which the **CONTRACTOR** shall observe at the area of construction which include but not limited to Fall Protection, Chemical Hazards, and Materials Handling and Storage.
 - 10.6.3. Penalties and sanctions for violations of the program.
 - 10.6.4. The manner of disposing waste arising from the construction.
 - 10.6.5. The safety program shall also include the appointment of a full-time safety officer-in-charge of the implementation of the said program.

11. PAYMENTS

- 11.1. Payments to the **CONTRACTOR** will be made only for the actual accomplishment and/or material utilized, certified by the **NEA** as performed by the **CONTRACTOR** in accordance with the plans, specifications and program of works/construction schedule.
- 11.2. Payments in accordance with the above paragraph shall be considered full compensation for furnishing materials, labor, tools and equipment, and for performing all work contemplated and embraced under the Contract.
- 11.3. Payment shall be made upon complete submission of all documents required by **NEA** as indicated in this Terms of Reference and other contract documents.

- 11.4. It is responsibility of the CONTRACTOR to ensure that their performance bond is updated and valid until the NEA issue the final Certificate of Acceptance. The **CONTRACTOR** shall submit the endorsement or amendments to NEA on extension or revisions to its validity, as maybe necessary, not later than seven (7) days before the expiration of the originally submitted Performance Bond. No payment shall be made unless the Performance is updated.
- 11.5. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required at the Supplier's option, either retention money in an amount equivalent to at least ten percent (10%) of every progress payment, or a special bank guarantee equivalent to at least ten percent (10%) of the Contract Price.

12. LIQUIDATED DAMAGES

12.1. Failure to comply with the terms and conditions of the contract will result in the payment of corresponding penalties/liquidated damages in the amount to 1/10 of 1% of the cost of the unperformed portion for every day of delay. Once the cumulative amount of liquidated damages reaches 10% of the amount of the contract, NEA shall rescind the contract, without prejudice to other courses of action and remedies open to it.

For your consideration and proper action.

TECHNICAL WORKING GROUP

FEDERICO P. VILLAR, JR. SHIRLEY J. SALVADOR Member

CYNTHIA E. LISONDRA Member

MARCELINO D. CACDAC Member

Member

CESAR F. JACINTO JR. Member

HERNANDO N. GABOTERO Member

RAFAEL B. BARRIENTOS Member

ESTRELLITA S. VOLANTE End-user

MA. CHONA O. DELA CRUZ Vice-Chairman

GWEN P. ENCISO-KYAMKO Chairman

ANNEX A Bill of Quantities/Bid Form

Procurement of Supply of Labor, Materials, Supervision and other Consumables for the Waterproofing Works of Roof Deck, Powerhouse, Main Electrical Room, Penthouse and Machine Room of NEA Building

PROJECT: Supply of Labor, Materials, Supervision and other Consumables for the Waterproofing Works of Roof Deck, Powerhouse, Main Electrical Room, Penthouse and Machine Room of NEA Building LOCATION: NEA Building, #57 NIA Road, Government Center, Diliman, Quezon City

SUBJECT: Bill of Quantities / Bid Form

ITEM	DESCRIPTION	MATERIALS		LABOR DIRECT		MARK-UPS IN PERCENT TOTAL MARK-UPS		VAT	TOTAL	TOTAL	UNIT COST				
NO.	DESCRIPTION	QTY	UNIT MEASURE	UNIT COST	AMOUNT	LABOR	COST	ОСМ	PROFIT	%	VALUE	VAI	COST	COST	UNITCOST
		(1)		(2)	(3)	(4)	(5) (3 + 4)	(6)	(7)	(8) (6 + 7)	(9) (5 X 8)	(10) 5%(5 + 9)	(11) (9 + 10)	(12) (5 + 11)	(13) (12 / 1)
1.0.	GENERAL REQUIREMENTS														
	1.1. Mobilization and demobilization.	1.00	lot												
	1.2. Bonds, Permits and Insurances.	1.00	lot												
	1.3. Environmental, Safety and Health.	1.00	lot												
	1.4. Temporary Facilities.	1.00	lot												
2.0.	SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT ROOF DECK AREA														
	2.1. Removal of all existing waterproofing and concrete topping, and hauling the same for proper disposal by the contractor to a designated location.	1,607.50	sq.m.												
	2.2. Temporary removal of garden plants, soil and other items from planters' boxes. All soil and plants shall be put in sacks, plastic plant bags and placed in designated area.	1	lot												
	2.3. Preparation of surface area. Clean, dry, sound surfaces free of loose particles before application of waterproofing materials. Including correction of slope to drain and restoration of damage surface. Repair/seal cracks on concrete, cold joint, construction and expansion joint.	1,607.50	sq.m.												
	2.4. De-clogging, repair and leak test of all storm drain pipes.	17	unit												
	 Application or installation of waterproofing materials as per scope of work and specifications. 	1,607.50	sq.m.												
	2.6. Replacement of existing brass strainers and restoration of missing brass strainers with a new dome type strainer.	17	pcs												
	2.7. Flood testing for at least 48 hours.	1,607.50	sq.m.												
	2.8. Restoration of garden soils, plants and other items removed from the	1	lot												

		-		· · · · ·	-		-	-	-		
	planter box into its original										
	conditions, including cleaning of										
	weep hole drains.										
	SURFACE PREPARATION AND										
3.0.	INSTALLATION OF										
3.0.	WATERPROOFING MATERIALS AT										
	POWERHOUSE AREA										
	3.1. Removal of all existing										
	waterproofing and concrete										
	topping, and hauling the same for	45.00	sq.m.								
	proper disposal by the contractor										
	to a designated location.										
	3.2. Preparation of surface area.										
	Clean, dry, sound surfaces free of										
	loose particles before application										
	of waterproofing materials.										
	Including correction of slope to	45.00	sq.m.								
	drain and restoration of damage										
1	surface. Repair/seal cracks on										
1	concrete, cold joint, construction										
	and expansion joint.										
	3.3. De-clogging, repair and leak test of	2	unit								
L	all storm drain pipes.	_									
	3.4. Application or installation of										
	waterproofing materials as per	45.00	sq.m.								
	scope of work and specifications.										
	3.5. Replacement of existing brass										
	strainers and restoration of	2	pcs								
	missing brass strainers with a new	_	P • • •								
	dome type strainer.										
	3.6. Flood testing for at least 48 hours.	45.00	sq.m.							 	
	SURFACE PREPARATION AND										
4.0.											
	WATERPROOFING MATERIALS AT										
	MAIN ELECTRICAL ROOM AREA										
	4.1. Removal of all existing										
	waterproofing and concrete topping, and hauling the same for	20.20									
		20.28	sq.m.								
	proper disposal by the contractor to a designated location.										
	4.2. Preparation of surface area.			<u>├</u>		 1					
1	Clean, dry, sound surfaces free of										
1	loose particles before application										
	of waterproofing materials.										
	Including correction of slope to	20.28	sq.m.								
	drain and restoration of damage	20.20	09.00.								
	surface. Repair/seal cracks on										
	concrete, cold joint, construction										
1	and expansion joint.										
	4.3. Application or installation of					1					
	waterproofing materials as per	20.28	sq.m.								
	scope of work and specifications.										
	4.4. Flood testing for at least 48 hours.	20.28	sq.m.			1					
	SURFACE PREPARATION AND					1					
5.0.	INSTALLATION OF										
5.0.	WATERPROOFING MATERIALS AT										
	MACHINE ROOM AREA									 	
	5.1. Removal of all existing										
	waterproofing and concrete	117.00	sq.m.								
	topping, and hauling the same for										

io a designated location.									 		
5.2. Preparation of surface area. Clean, dy, sound surfaces free di losse particles before application of waterprofing materials, including carrection of single to ourrate. Repairsel cracks on concrete, coli joint, construction and expansion joint. 117.00 sq.m. 5.3. Declogging, repair and leak test of all storm drain pipes. 10 unit 117.00 sq.m. 5.4. Application or installation of waterprofing materials as per scope of work and specifications. 10 unit 117.00 sq.m. 5.5. Floatesting for at least 48 hours. 117.00 sq.m. 10 pps 5.6. Floatesting for at least 48 hours. 117.00 sq.m. 10 pps 6.0. WATERREPORFING MATERIALS AT PENTHOUSE AREA 117.00 sq.m. 10 pps 6.0. WATERREPORFING MATERIALS AT PENTHOUSE AREA 231.00 sq.m. 231.00 sq.m. 6.1. Removal of and hauling the same for proper disposal by the contractor to a designated boats on a destored on of an artification of surface area. Clean, dry, sound surfaces free of boase particles before application of waterprofing materials, have an area disclosed on of contractor to a destargated boats and restored on of surface. Repairasel cracks on contractor to a destargate 231.00 sq.m.		proper disposal by the contractor									
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surface. Repair/seal cracks on concrete, cold joint, construction			201.00	99.00.							
concrete, cold joint, construction											
		and expansion joint.									
6.2 Do alorging repair and look test of											
all storm drain pipes.			9	unit							
6.4. Application or installation of											
			221.00								
waterproofing materials as per 231.00 sq.m. scope of work and specifications.			231.00	sq.m.							
6.5. Replacement of existing brass											
strainers and restoration of 9 pcs			9	pcs							
missing brass strainers with a new				•							
		dome type strainer.	004.00			+					
	1	6.6. Flood testing for at least 48 hours.	231.00	sq.m.							
6.6. Flood testing for at least 48 hours. 231.00 sq.m. Image: sq.m											

CONTRACTOR:
Complete Address:
Name of Authorized Representative and Signature:
Telephone No.:
Email Account:

ANNEX B Detail Unit Price Analysis (DUPA)

Procurement of Supply of Labor, Materials, Supervision and other Consumables for the Waterproofing Works of Roof Deck, Powerhouse, Main Electrical Room, Penthouse and Machine Room of NEA Building

PROJECT: Supply of Labor, Materials, Supervision and other Consumables for the Waterproofing Works of Roof Deck, Powerhouse, Main Electrical Room, Penthouse and Machine Room of NEA Building

PAY ITEM:	1.0. GENERAL REQUIREMENTS	QTY	UNIT	UNIT COST	TOTAL COST
					(Php)
DESCRIPTION:	1.1. Mobilization and Demobilization.	1.00	lot		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				/
	2.				
	3.				
	4. 5.				
	J.				
	TOTAL EQUIPMENT COST				
В.	LABOR	No. of			Total Cost
Ref. No.	Designation of Personnel	Personnel	No. of Days	Unit Cost	(Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
E.	OVERHEAD, CONTINGENCES & MISC.	(TDC)	
F. G.	PROFIT VALUE ADDED TAX	(TDC)	
<u>G.</u> H.	TOTAL COST		D+E+F+G+H	of D+E+F+G)	
n. I.	UNIT COST			/	

SUBJECT: Detail Unit Price Analysis (DUPA)

PAY ITEM:	1.0. GENERAL REQUIREMENTS	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	1.2. Bonds, Permits and Insurances.	1.00	lot		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				(* ··· p /
	2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
		No. of			Total Cost
Ref. No.	Designation of Personnel	Personnel	No. of Days	Unit Cost	(Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST		A+B+C		
<u>D.</u> E.	OVERHEAD, CONTINGENCES & MISC.		AtDtu) TDC)	
F.	PROFIT			TDC)	
G.	VALUE ADDED TAX			of D+E+F+G)	1
H.	TOTAL COST		D+E+F+G+H)	
Ι.	UNIT COST				

SUBJECT: Detail Unit Price Analysis (DUPA)

SUBJECT: Detail Unit Price Analysis (DUPA)

PAY ITEM:	1.0. GENERAL REQUIREMENTS	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	1.3. Environmental, Safety and Health.	1.00	lot		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				(*****
	2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
	1 4000				
<u>B.</u>	LABOR	No. of			Total Cost
Ref. No.	Designation of Personnel	Personnel	No. of Days	Unit Cost	(Php)
	1.				
	2. 3.				
	4.				
	5.				
	•				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	5.				
	TOTAL MATERIALS COST				
-				 	
D.		(A+B+C)	
E. F.	OVERHEAD, CONTINGENCES & MISC. PROFIT	(TDC) TDC)	
<u>F.</u> G.	VALUE ADDED TAX	(of D+E+F+G)	
<u>.</u> Н.	TOTAL COST		D+E+F+G+H		
I.	UNIT COST		5.2	/	

SUBJECT: Detail Unit Price Analy	/sis (E	DUPA)	
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1.0. GENERAL REQUIREMENTS	QTY	UNIT	UNIT COST	TOTAL COST (Php)
1.4. Temporary Facilities.	1.00	lot		
FOURMENT				
	No. of Unite		Unit Coot	Total Cost
	NO. OF UNITS	NO. OF Days	Unit Cost	(Php)
5.				
TOTAL EQUIPMENT COST				
LABOR				
Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
1.				
TOTAL LABOR COST				
Quantity / Total Working Hours				
MATERIALS				
Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
5.				
TOTAL MATERIALS COST				
TOTAL DIRECT COST	(A+B+C)	
OVERHEAD, CONTINGENCES & MISC.	(TDC)	
PROFIT	(
	(of D+E+F+G)	
TOTAL COST UNIT COST	(D+E+F+G+H)	
	1.4. Temporary Facilities. EQUIPMENT Name and Specification of Equipment 1. 2. 3. 4. 5. TOTAL EQUIPMENT COST LABOR Designation of Personnel 1. 2. 3. 4. 5. Uantity / Total Working Hours Quantity / Total Working Hours MATERIALS Designation of Materials 1. 2. 3. 4. 5. TOTAL LABOR COST Quantity / Total Working Hours MATERIALS Designation of Materials 1. 2. 3. 4. 5. TOTAL MATERIALS COST TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC. PROFIT VALUE ADDED TAX TOTAL COST	1.4. Temporary Facilities. 1.00 EQUIPMENT Name and Specification of Equipment No. of Units 1. 2.	1.4. Temporary Facilities. 1.00 lot EQUIPMENT No. of Units No. of Days 1. - - 2. - - 3. - - 4. - - 5. - - TOTAL EQUIPMENT COST - - LABOR - - Designation of Personnel No. of Personnel No. of Days 1. - - - 2. - - - 3. - - - 4. - - - 5. - - - 4. - - - 5. - - - Quantity / Total Working Hours - - MATERIALS - - - Designation of Materials Unit Quantity 1. - - - 3. - - - 5. - - - 7.<	1.4. Temporary Facilities. 1.00 lot EQUIPMENT No. of Units No. of Days Unit Cost 1. 2. 3. 4. 5. TOTAL EQUIPMENT COST LABOR 1. 2. 1. .

	Init Price Analysis (DUPA) 2.0. SURFACE PREPARATION AND INSTALLATION				TOTAL
PAY ITEM:	OF WATERPROOFING MATERIALS AT ROOF DECK AREA	QTY	UNIT	UNIT COST	COST (Php)
DESCRIPTION:	2.1. Removal of all existing waterproofing and concrete topping, and hauling the same for proper disposal by the contractor to a designated location.	1,607.50	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4. 5.				
	J.				
	TOTAL MATERIALS COST				
	TOTAL DIRECT COST	(A+B+C)	
D.	IUTAL DIRECT COST			()	t
	OVERHEAD, CONTINGENCES & MISC.	(TDC)	
D. E. F.	OVERHEAD, CONTINGENCES & MISC. PROFIT			TDC)	
Ε.	OVERHEAD, CONTINGENCES & MISC.		D+E+F+G+H		

SUBJECT: Detail (Jnit Price Analysis (DUPA)				
PAY ITEM:	2.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT ROOF DECK AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	2.2. Temporary removal of garden plants, soil and other items from planters' boxes. All soil and plants shall be put in sacks, plastic plant bags and placed in designated area.	1.00	lot		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	5.				
	5. 				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
	MATERIALO				
C. Ref. No.	MATERIALS Designation of Materials	Unit	Quantity	Unit Cost	Total Cost
	1.		-		(Php)
	2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
<u>D.</u> E.	TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC.	<u> </u>	A+B+C) TDC)	
<u>E.</u> F.	PROFIT			TDC)	
G.	VALUE ADDED TAX	<u> </u>		of D+E+F+G)	
H.	TOTAL COST	(D+E+F+G+H)	
l.	UNIT COST				

PAY ITEM:	Jnit Price Analysis (DUPA) 2.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT ROOF	QTY	UNIT	UNIT COST	TOTAL COST
DESCRIPTION:	DECK AREA 2.3. Preparation of surface area. Clean, dry, sound surfaces free of loose particles before application of waterproofing materials. Including correction of slope to drain and restoration of damage surface. Repair/seal cracks on concrete, cold joint, construction and expansion joint.	1,607.50	sq.m.		(Php)
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	1	A+B+C)	
E.	OVERHEAD, CONTINGENCES & MISC.	() TDC)	
F.	PROFIT	<u> </u>		TDC)	
G.	VALUE ADDED TAX	(of D+E+F+G)	
<u>.</u> Н.	TOTAL COST		D+E+F+G+H		

SUBJECT: Detail L	Jnit Price Analysis (DUPA)				
PAY ITEM:	2.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT ROOF DECK AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	2.4. De-clogging, repair and leak test of all storm drain.	17.00	unit		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D	TOTAL DIRECT COST		A+B+C		
D. E.	OVERHEAD, CONTINGENCES & MISC.		A+D+C) TDC)	
F.	PROFIT	\rightarrow		TDC)	
G.	VALUE ADDED TAX	\rightarrow		of D+E+F+G)	
Н.	TOTAL COST	\dot{i}	D+E+F+G+H)	
l.	UNIT COST	`		· ·	1

	Init Price Analysis (DUPA) 2.0. SURFACE PREPARATION AND INSTALLATION				TOTAL
PAY ITEM:	OF WATERPROOFING MATERIALS AT ROOF DECK AREA	QTY	UNIT	UNIT COST	COST (Php)
DESCRIPTION:	2.5. Application or installation of waterproofing materials as per scope of work and specifications.	1,607.50	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2. 3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				、 1 <i>1</i>
	2.				
	3.				
	<u>4.</u> 5.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	2. 3.				
	2.				
	2. 3. 4.				
	2. 3. 4. 5.				
	2. 3. 4.				
	2. 3. 4. 5.				
	2. 3. 4. 5. TOTAL MATERIALS COST				
	2. 3. 4. 5. TOTAL MATERIALS COST TOTAL DIRECT COST		A+B+C) TDC)	
E.	2. 3. 4. 5. TOTAL MATERIALS COST TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC. PROFIT		A+B+C) TDC) TDC)	
D. E. F. G. H.	2. 3. 4. 5. TOTAL MATERIALS COST TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC.		A+B+C D+E+F+G+H		

SUBJECT: Detail	Unit Price Analysis (DUPA)				
PAY ITEM:	2.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT ROOF DECK AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	2.6. Replacement of existing brass strainers and restoration of missing brass strainers with a new dome type strainer.	17.00	pcs		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	<u>3.</u> 4.				
	5.				
	TOTAL EQUIPMENT COST				
B. Ref. No.	LABOR Designation of Personnel	No. of	No. of Days	Unit Cost	Total Cost
		Personnel			(Php)
	1. 2.				-
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				(******
	2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
Ε.	OVERHEAD, CONTINGENCES & MISC.	Ì		TDC)	
F.	PROFIT	(TDC)	
G.	VALUE ADDED TAX	(of D+E+F+G)	
H.	TOTAL COST	(D+E+F+G+H)	
l.	UNIT COST				

SUBJECT: Detail Unit Price Analysis (DUPA)

	Init Price Analysis (DUPA) 2.0. SURFACE PREPARATION AND INSTALLATION				TOTAL
PAY ITEM:	OF WATERPROOFING MATERIALS AT ROOF DECK AREA	QTY	UNIT	UNIT COST	COST (Php)
DESCRIPTION:	2.7. Flood testing for at least 48 hours.	1,607.50	sq.m.		
۸	EQUIPMENT				
A. Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D. E.	TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC.	(A+B+C) TDC)	
<u>E.</u> F.	PROFIT			TDC)	
<u>r.</u> G.	VALUE ADDED TAX		+	of D+E+F+G)	
н.	TOTAL COST		D+E+F+G+H)	
I.	UNIT COST	† ``		,	1

	Jnit Price Analysis (DUPA) 2.0. SURFACE PREPARATION AND INSTALLATION				TOTAL
PAY ITEM:	OF WATERPROOFING MATERIALS AT ROOF DECK AREA	QTY	UNIT	UNIT COST	COST (Php)
DESCRIPTION:	2.8. Restoration of garden soils, plants and other items removed from the planter box into its original conditions, including cleaning of weep hole drains.	1.00	lot		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	<u>3.</u> 4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				(•••••
	2.				
	3.				
	<u>4.</u> 5.				
	5. 				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
Ε.	OVERHEAD, CONTINGENCES & MISC.	(TDC)	
F.	PROFIT	(TDC)	
G.	VALUE ADDED TAX	(DIFIEROUT	of D+E+F+G)	
Н.	TOTAL COST UNIT COST	(D+E+F+G+H)	

PAY ITEM:	hit Price Analysis (DUPA) 3.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT POWERHOUSE AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	3.1. Removal of all existing waterproofing and concrete topping, and hauling the same for proper disposal by the contractor to a designated location.	45.00	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	<u>4.</u> 5.				
	TOTAL MATERIALS COST				
		1			
			AIRIC)	
D.	TOTAL DIRECT COST	(A+B+C) TDC)	
Ε.	TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC. PROFIT	(A+B+C) TDC) TDC)	
D. E. F. G. H.	OVERHEAD, CONTINGENCES & MISC.		A+B+C		

SUBJECT: Detail U	Jnit Price Analysis (DUPA)				
PAY ITEM:	3.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT POWERHOUSE AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	3.2. Preparation of surface area. Clean, dry, sound surfaces free of loose particles before application of waterproofing materials. Including correction of slope to drain and restoration of damage surface. Repair/seal cracks on concrete, cold joint, construction and expansion joint.	45.00	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2. 3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
0011 01-					
С.	MATERIALS				T (10 (
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC.	(A+B+C)	
<u>E.</u> F.	OVERHEAD, CONTINGENCES & MISC. PROFIT			TDC) TDC)	
G.	VALUE ADDED TAX	\dot{i}		of D+E+F+G)	
Н.	TOTAL COST	(D+E+F+G+H)	<u> </u>
l.	UNIT COST				

	Jnit Price Analysis (DUPA) 3.0. SURFACE PREPARATION AND INSTALLATION				TOTAL
PAY ITEM:	OF WATERPROOFING MATERIALS AT POWERHOUSE AREA	QTY	UNIT	UNIT COST	COST (Php)
DESCRIPTION:	3.3. De-clogging, repair and leak test of all storm drain.	2.00	unit		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
Ε.	OVERHEAD, CONTINGENCES & MISC.	ì	-	TDC)	
F.	PROFIT	Ì		TDC)	T
G.	VALUE ADDED TAX	Ì		of D+E+F+G)	
Н.	TOTAL COST	(D+E+F+G+H)	
Ι.	UNIT COST				

SUBJECT: Detail L	Init Price Analysis (DUPA)				•
PAY ITEM:	3.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT POWERHOUSE AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	3.4. Application or installation of waterproofing materials as per scope of work and specifications.	45.00	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	5.				
	J.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
<u>E.</u>	OVERHEAD, CONTINGENCES & MISC.	(TDC)	
F.	PROFIT	(TDC)	
G. H.	VALUE ADDED TAX TOTAL COST	(D+E+F+G+H	of D+E+F+G)	
<u>п.</u> І.	UNIT COST	()	<u> </u>

SUBJECT: Detail U	Init Price Analysis (DUPA)	l.	1	T	
PAY ITEM:	3.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT POWERHOUSE AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	3.5. Replacement of existing brass strainers and restoration of missing brass strainers with a new dome type strainer.	2.00	pcs		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	5.				
	J.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST		A+B+C		
<u>Б.</u>	OVERHEAD, CONTINGENCES & MISC.	\sim	ATDTC) TDC)	
F.	PROFIT	ì		TDC)	
G.	VALUE ADDED TAX	ì		of D+E+F+G)	
Н.	TOTAL COST	(D+E+F+G+H)	
Ι.	UNIT COST				

PAY ITEM:	Init Price Analysis (DUPA) 3.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT POWERHOUSE AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	3.6. Flood testing for at least 48 hours.	45.00	sq.m.		(
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.	-			
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	5.				
	J.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
C. Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
<u>D.</u>	TOTAL DIRECT COST	(A+B+C)	
<u>E.</u>	OVERHEAD, CONTINGENCES & MISC.	(TDC)	
F.	PROFIT	ļ (TDC)	
G. H.	VALUE ADDED TAX TOTAL COST	<u>-</u>	D+E+F+G+H	of D+E+F+G)	
11.	UNIT COST	(1	

PAY ITEM:	Init Price Analysis (DUPA) 4.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT MAIN ELECTRICAL ROOM AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	4.1. Removal of all existing waterproofing and concrete topping, and hauling the same for proper disposal by the contractor to a designated location.	20.28	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
-					
В.	LABOR	No. of			Total Cost
Ref. No.	Designation of Personnel 1.	Personnel	No. of Days	Unit Cost	(Php)
	2.				
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				Total Cost
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	(Php)
	1.				
	2.				
	3. 4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
Ε.	OVERHEAD, CONTINGENCES & MISC.	(TDC)	
F.	PROFIT	(TDC)	
G.	VALUE ADDED TAX	(of D+E+F+G)	
<u>H.</u> I.	TOTAL COST UNIT COST	(D+E+F+G+H)	

SUBJECT: Detail L	Jnit Price Analysis (DUPA)				
PAY ITEM:	4.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT MAIN ELECTRICAL ROOM AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	4.2. Preparation of surface area. Clean, dry, sound surfaces free of loose particles before application of waterproofing materials. Including correction of slope to drain and restoration of damage surface. Repair/seal cracks on concrete, cold joint, construction and expansion joint.	20.28	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.	-			
	2. 3.				
	3. 4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
C. Ref. No.	MATERIALS Designation of Materials	Unit	Quantity	Unit Cost	Total Cost
Rei. NO.		Onit	Quantity	onit cost	(Php)
	2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
<u>E.</u> F.	OVERHEAD, CONTINGENCES & MISC.	ļ (TDC) TDC)	
<u>F.</u> G.	PROFIT VALUE ADDED TAX			of D+E+F+G)	
Н.	TOTAL COST		D+E+F+G+H)	
Ι.	UNIT COST	, , , , , , , , , , , , , , , , , , ,			

	Init Price Analysis (DUPA) 4.0. SURFACE PREPARATION AND INSTALLATION				TOTAL
PAY ITEM:	OF WATERPROOFING MATERIALS AT MAIN ELECTRICAL ROOM AREA	QTY	UNIT	UNIT COST	COST (Php)
DESCRIPTION:	4.3. Application or installation of waterproofing materials as per scope of work and specifications.	20.28	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	5.	-			
	J.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	5.				
	TOTAL MATERIALS COST				
D. E.	TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC.	· · · · · · ·	A+B+C) TDC)	
<u>E.</u> F.	PROFIT	<u> </u>		TDC)	
G.	VALUE ADDED TAX	\sim		of D+E+F+G)	
<u>н.</u>	TOTAL COST	i i	D+E+F+G+H)	
l.	UNIT COST	ľ í		· ·	

	Init Price Analysis (DUPA) 4.0. SURFACE PREPARATION AND INSTALLATION	071			TOTAL
PAY ITEM:	OF WATERPROOFING MATERIALS AT MAIN ELECTRICAL ROOM AREA	QTY	UNIT	UNIT COST	COST (Php)
DESCRIPTION:	4.4. Flood testing for at least 48 hours.	20.28	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2. 3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
<u>E.</u>	OVERHEAD, CONTINGENCES & MISC.	(TDC)	
F.	PROFIT VALUE ADDED TAX	(TDC)	
G. H.	TOTAL COST		D+E+F+G+H	of D+E+F+G)	
<u>n.</u> I.	UNIT COST	· · · ·		/	

	Init Price Analysis (DUPA) 5.0. SURFACE PREPARATION AND INSTALLATION				TOTAL
PAY ITEM:	OF WATERPROOFING MATERIALS AT MACHINE ROOM AREA	QTY	UNIT	UNIT COST	COST (Php)
DESCRIPTION:	5.1. Removal of all existing waterproofing and concrete topping, and hauling the same for proper disposal by the contractor to a designated location.	117.00	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cos (Php)
	1.				
	2.				
	3.				
	<u>4.</u> 5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cos (Php)
	1.				
	2.				
	3.				
	4.		-		
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4. 5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
E.	OVERHEAD, CONTINGENCES & MISC.	(_	TDC)	
F.	PROFIT	Ì		TDC)	
			1		1
G. H.	VALUE ADDED TAX TOTAL COST	(D+E+F+G+H	of D+E+F+G)	

SUBJECT: Detail L	Jnit Price Analysis (DUPA)				
PAY ITEM:	5.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT MACHINE ROOM AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	5.2. Preparation of surface area. Clean, dry, sound surfaces free of loose particles before application of waterproofing materials. Including correction of slope to drain and restoration of damage surface. Repair/seal cracks on concrete, cold joint, construction and expansion joint.	117.00	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
<u>E.</u>	OVERHEAD, CONTINGENCES & MISC.	<u>(</u>		TDC)	
F. G.	PROFIT VALUE ADDED TAX	· · · · ·		TDC) of D+E+F+G)	
<u>.</u> Н.	TOTAL COST		D+E+F+G+H)	
I.	UNIT COST	`		,	1

PAY ITEM:	Superior Superior	QTY	UNIT	UNIT COST	
DESCRIPTION:	ROOM AREA 5.3. De-clogging, repair and leak test of all storm drain.	10.00	unit		(Php)
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D	TOTAL DIRECT COST		AIRIC	,	
D. E.	OVERHEAD, CONTINGENCES & MISC.	(A+B+C) TDC)	
<u>E.</u> F.	PROFIT			TDC)	
<u>F.</u> G.	VALUE ADDED TAX	(of D+E+F+G)	
<u>G.</u> H.	TOTAL COST		D+E+F+G+H		+
n. I.	UNIT COST	L(/	L

SUBJECT: Detail L	Jnit Price Analysis (DUPA)				
PAY ITEM:	5.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT MACHINE ROOM AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	5.4. Application or installation of waterproofing materials as per scope of work and specifications.	117.00	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	4. 5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
E.	OVERHEAD, CONTINGENCES & MISC.	(TDC)	
F.	PROFIT	(TDC)	
G. H.	VALUE ADDED TAX TOTAL COST	ļ (D+E+F+G+H	of D+E+F+G)	
Π.		1 (1

 5.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT MACHINE ROOM AREA 5.5. Replacement of existing brass strainers and restoration of missing brass strainers with a new dome type strainer. EQUIPMENT 	QTY 10.00	UNIT	UNIT COST	TOTAL COST (Php)
restoration of missing brass strainers with a new dome type strainer.	10.00	pcs		
		1		
Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
<u>1.</u> 2.				
4.				
5.				
TOTAL EQUIPMENT COST				
LABOR				
Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
1.				
5.				
TOTAL LABOR COST				
Quantity / Total Working Hours				
MATERIALS				
Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
1.				
				ł
5.				
IUTAL MATERIALS CUST				
TOTAL DIRECT COST	1	A+B+C		
			/	I
	i		TDC)	
OVERHEAD, CONTINGENCES & MISC. PROFIT			TDC) TDC)	
OVERHEAD, CONTINGENCES & MISC.		D+E+F+G+H		
	5. TOTAL EQUIPMENT COST LABOR Designation of Personnel 1. 2. 3. 4. 5. TOTAL LABOR COST Quantity / Total Working Hours MATERIALS Designation of Materials 1. 2. 3. 4. 5. TOTAL MATERIALS COST TOTAL MATERIALS COST	4. 5	4. 5.	4. 5. TOTAL EQUIPMENT COST LABOR Designation of Personnel No. of Personnel No. of Days Unit Cost 1. 2. 3. .

PAY ITEM:	Init Price Analysis (DUPA) 5.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT MACHINE	QTY	UNIT	UNIT COST	TOTAL COST
DESCRIPTION:	ROOM AREA 5.6. Flood testing for at least 48 hours.	117.00	sq.m.		(Php)
	5.0. Those testing for at least 40 hours.	117.00	3q.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.		-		
	4.				
	5.				
	TOTAL EQUIPMENT COST				
P					
В.	LABOR	No. of			Total Cost
Ref. No.	Designation of Personnel	Personnel	No. of Days	Unit Cost	(Php)
	1.				(
	2.				
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
<u> </u>				,	
D. E.	TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC.	(A+B+C) TDC)	
	PROFIT			TDC)	
<u>F.</u> G.	VALUE ADDED TAX			of D+E+F+G)	
<u>.</u> Н.	TOTAL COST		D+E+F+G+H		<u> </u>
l.	UNIT COST	· · ·		1	

PAY ITEM:	Init Price Analysis (DUPA) 6.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT PENTHOUSE AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	6.1. Removal of all existing waterproofing and concrete topping, and hauling the same for proper disposal by the contractor to a designated location.	231.00	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	5.				
	TOTAL MATERIALS COST				
		1			
			A-B-C	`	
	TOTAL DIRECT COST	(A+B+C) TDC)	
D. E. F.	TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC. PROFIT		A+B+C) TDC) TDC)	
	OVERHEAD, CONTINGENCES & MISC.		A+B+C D+E+F+G+H		

SUBJECT: Detail L	Jnit Price Analysis (DUPA)				
PAY ITEM:	6.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT PENTHOUSE AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	6.2. Preparation of surface area. Clean, dry, sound surfaces free of loose particles before application of waterproofing materials. Including correction of slope to drain and restoration of damage surface. Repair/seal cracks on concrete, cold joint, construction and expansion joint.	231.00	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2. 3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2. 3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
			A+B+C)	
D	TOTAL DIRECT COST	1			
D. E.	TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC.	(A+B+C	, TDC)	
E. F.	OVERHEAD, CONTINGENCES & MISC. PROFIT			TDC)	
E.	OVERHEAD, CONTINGENCES & MISC.		D+E+F+G+H		

SUBJECT: Detail U	Init Price Analysis (DUPA) 6.0. SURFACE PREPARATION AND INSTALLATION				TOTAL
PAY ITEM:	OF WATERPROOFING MATERIALS AT PENTHOUSE AREA	QTY	UNIT	UNIT COST	COST (Php)
DESCRIPTION:	6.3. De-clogging, repair and leak test of all storm drain.	9.00	unit		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	4. 5.				-
	J.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	4. 5.				-
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4. 5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
E.	OVERHEAD, CONTINGENCES & MISC.	(TDC)	
F.	PROFIT	(TDC)	
G. H.	VALUE ADDED TAX TOTAL COST	(D+E+F+G+H	of D+E+F+G)	

	nit Price Analysis (DUPA)	r			
PAY ITEM:	6.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT PENTHOUSE AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	6.4. Application or installation of waterproofing materials as per scope of work and specifications.	231.00	sq.m.		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
_	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2. 3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.			• •	Unit Cost	Total Cost
	Designation of Materials	Unit	Quantity	Unit OUst	(Php)
Noi. No.	1.	Unit	Quantity		(Php)
	1. 2.	Unit	Quantity		(Php)
	1. 2. 3.		Quantity		(Php)
	1. 2.	Unit	Quantity		(Php)
	1. 2. 3. 4.	Unit	Quantity		(Php)
	1. 2. 3. 4. 5.				(Php)
	1. 2. 3. 4.		Quantity		(Php)
	1. 2. 3. 4. 5.		Quantity		(Php)
	1. 2. 3. 4. 5. TOTAL MATERIALS COST				(Php)
D. E.	1. 2. 3. 4. 5. TOTAL MATERIALS COST TOTAL DIRECT COST TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC.	Unit	Quantity) TDC)	(Php)
D. E. F.	1. 2. 3. 4. 5. TOTAL MATERIALS COST TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC. PROFIT	Unit) TDC) TDC)	(Php)
D. E.	1. 2. 3. 4. 5. TOTAL MATERIALS COST TOTAL DIRECT COST TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC.	Unit) TDC)	(Php)

SUBJECT: Detail U	nit Price Analysis (DUPA)	1	T	l.	
PAY ITEM:	6.0. SURFACE PREPARATION AND INSTALLATION OF WATERPROOFING MATERIALS AT PENTHOUSE AREA	QTY	UNIT	UNIT COST	TOTAL COST (Php)
DESCRIPTION:	6.5. Replacement of existing brass strainers and restoration of missing brass strainers with a new dome type strainer.	9.00	pcs		
Α.	EQUIPMENT				
Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1. 2.				
	3.				
	4.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3. 4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Warking Hours				
001P01=	Quantity / Total Working Hours				
С.	MATERIALS				
Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2. 3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D.	TOTAL DIRECT COST	(A+B+C)	
Ε.	OVERHEAD, CONTINGENCES & MISC.	(TDC)	
F.	PROFIT	<u> </u>		TDC)	
G. H.	VALUE ADDED TAX TOTAL COST	<u> </u>	D+E+F+G+H	of D+E+F+G)	
<u>п.</u> І.	UNIT COST	· · · · ·		/	

SUBJECT: Detail U	hit Price Analysis (DUPA) 6.0. SURFACE PREPARATION AND INSTALLATION	1	1		TOTAL
PAY ITEM:	OF WATERPROOFING MATERIALS AT PENTHOUSE AREA	QTY	UNIT	UNIT COST	COST (Php)
DESCRIPTION:	6.6. Flood testing for at least 48 hours.	231.00	sq.m.		
٨	EQUIPMENT				
A. Ref. No.	Name and Specification of Equipment	No. of Units	No. of Days	Unit Cost	Total Cost (Php)
	1.				(*** F /
	2.				
	3.				
	4. 5.				
	5.				
	TOTAL EQUIPMENT COST				
В.	LABOR				
Ref. No.	Designation of Personnel	No. of Personnel	No. of Days	Unit Cost	Total Cost (Php)
	1.				(1.11)
	2.				
	3.				
	4.				
	5.				
	TOTAL LABOR COST				
OUTPUT=	Quantity / Total Working Hours				
С.	MATERIALS				
C. Ref. No.	Designation of Materials	Unit	Quantity	Unit Cost	Total Cost (Php)
	1.				
	2.				
	3.				
	4.				
	5.				
	TOTAL MATERIALS COST				
D. E.	TOTAL DIRECT COST OVERHEAD, CONTINGENCES & MISC.	(A+B+C		
<u>E.</u> F.	PROFIT	· · · · ·		TDC) TDC)	
<u>F.</u> G.	VALUE ADDED TAX			of D+E+F+G)	<u> </u>
<u>н.</u>	TOTAL COST	$\left \right\rangle$	D+E+F+G+H)	
l.	UNIT COST	`		, ,	1