AFP Retirement and Separation Benefits System
424 Capinpin Avenue, Camp General Emilio Aguinaldo, Quezon City

REQUEST FOR QUOTATION

Please quote your lowest price on the project listed below, subject to the Terms of Reference hereto attached. Submit your quotation duly signed by your representative not later than **10:00 a.m.** on **26 March 2021** to this address:

Property Management and Enhancement Department
AFP Retirement and Separation Benefits System
2nd Floor, AFPRSBS Building, 424 Capinpin Ave. Camp General Emilio Aguinaldo
Quezon City

Name of Project/ Brief Description	**INSTALLATION OF FLOW METER, CHECK VALVES, AND CONTROL PANEL FOR RIVIERA RESIDENTIAL ESTATES WATER FACILITIES, SILANG, CAVITE**
Approved Budget for the Contract (ABC)	**SEVEN HUNDRED FIFTY THOUSAND PESOS & 00/100 (Php750,000.00)**

NOTES:

1. All entries in the Quotation Form shall be typewritten.

2. Eligibility requirements shall be submitted in a **separate sealed envelope**, which shall include the following:

   a) ***ELIGIBILITY DOCUMENTS***

   i. Copy of Philippine Government Electronic Procurement System (PhilGEPS) Registration Certificate
   ii. Copy of Department of Trade and Industry (DTI) or Securities and Exchange Commission (SEC) Registration Certificate
   iii. Copy of current Mayor's/Business Permit
   iv. Valid Tax Clearance per Executive Order 398, Series of 2005 as finally reviewed and approved by the BIR.
   v. Resume of the Project Engineer who will handle the project with photocopy of valid and current PRC ID and PTR
   vi. Valid PCAB License with a minimum classification of Category D
   vii. Income /Business Tax Return for the immediate preceding calendar year

viii. Omnibus Sworn Statement in accordance with Section 25.3 of the IRR of RA 9184 and using the prescribed form (Annex "A")

ix. Original copy of the Corporate Secretary's Certificate designating the company's authorized representative to submit and sign the bid and sign any and all the contracts and documents pertaining to the placement and acceptance of order (for corporate bidders)

3. Quotation Form using the prescribed form (Annex "B") shall be submitted in a **separate sealed envelope** which shall include the Bill of Quantities using the prescribed form (Annex "C").

4. **SUBMISSION BY ELECTRONIC or ONLINE MEANS**

In addition to the submission of sealed bids as discussed in the as stated in the foregoing, Bidders can submit bids thru electronic or online means in accordance with the Government Procurement Policy Board (GPPB) Resolution No. 09-2020 as guided by the following procedures:

4.1) All procurement related documents to include the eligibility requirements and bid proposals may be submitted electronically to this e-mail address **afprsbsbacsec@gmail.com** on or before the closing date and time specified in the Bidding Documents as published in the Philippine Government Electronic Procurement System (PhilGEPS). The electronic documents must be sent through the **bidder's valid company e-mail account** or through the **e-mail address of the bidder's duly authorized representative**.

4.2) The receipt of electronic submission shall be acknowledged by the AFPRSBS BAC Secretariat through an e-mailed reply from the official AFPRSBS e-mail account **afprsbsbacsec@gmail.com**. A Bid receipt page for the official time of submission as well as the e-mail acknowledgment of the submission shall be printed by the AFPRSBS BAC representative for reference and audit trail.

4.3) Bid documents to be submitted through electronic means must be saved in two (2) separate compressed archive folders in "**WinRAR**" or "**ZIP**" archive format. These should be sent simultaneously to the **afprsbsbacsec@gmail.com**. The **first compressed archived folder** which shall contain the technical component of the bid, including the eligibility requirements under Section 23.1 of the IRR for the procurement of Goods and Infrastructure Projects shall be labelled as **"Technical Bid"**, while the **second compressed archived folder** which shall contain the financial component of the bid shall be labelled as "**Financial Bid**".

4.4) The electronic Bidding Documents contained in each of the compressed archive folders must be **password-protected**. The passwords for accessing the files will be disclosed by the bidders' duly authorized representatives to the AFPRSBS BAC Secretariat only during the actual bid opening which

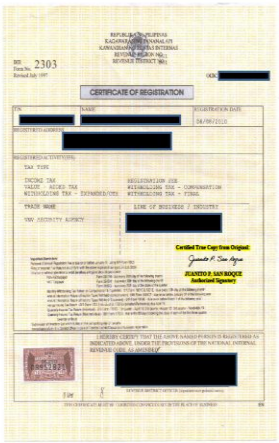
will be done face-to-face through videoconferencing using Google Meet. The invite for the videoconferencing shall be sent to the bidder's valid company e-mail account and/or e-mail address of the bidder's duly authorized representative.

4.5) Electronic Bidding Documents not in compressed archive folders and are not password-protected, shall be rejected. However, submitted bids that are not properly compressed and not password-protected may be accepted provided that the bidder or its duly authorized representative shall acknowledge such condition of the bid as submitted. The BAC shall assume no responsibility for the misplacement of the contents of improperly compressed or not password-protected folder, or for its premature opening.

4.6) The Bidding Documents to be submitted through electronic means should be **scanned copies of the original documents** in PDF/JPEG file format. Each scanned document must bear the markings "**Certified True Copy from Original**" **duly signed by the bidder's authorized signatory**. Each document must be saved in PDF/JPEG file format using this **file name format: "Name of Bidder - Title of the Original Document"**. Examples are shown below:

File Name:

ABC Company –



File Name:

ABC Company –

File Name:

ABC Company –

4.7) As with manual submission, Bidders may modify or withdraw their electronic bid submission at any time before the deadline for the submission and receipt of bids. Where a bidder modifies its Bid, it shall not be allowed to retrieve its original Bid and shall only be allowed to send another Bid equally secured, properly identified, and labelled as "**Technical Bid Modification**" and "**Financial Bid Modification**". The time indicated in the latest Bid receipt page generated shall be the official time of submission. Electronic bids submitted after the deadline shall not be accepted.

4.8) Electronic Bidding Documents, including the eligibility requirements under Section 23.1 of the IRR, submitted after the deadline shall not be accepted by the BAC Secretariat. The BAC Secretariat shall generate a Bid receipt page for the official time of late submission which should be saved and printed for reference and audit trail. The BAC Secretariat shall likewise record in the minutes of bid submission and opening, the bidder's name, its representative and the time the late bid was submitted.

5. The ABC is Seven Hundred Fifty Thousand Pesos **(Php750,000.00)**, any bid exceeding this amount shall not be accepted.

6. Quoted prices shall be inclusive of applicable taxes and shall be firm and valid for a period for at least thirty (30) days from the date of receipt of quotation and shall be binding upon the bidder/company within the period

7. Contract shall be awarded to the bidder with the lowest calculated responsive bid.

8. AFPRSBS reserves the right to post-qualify participating companies and/or to reject any or all submitted quotations without thereby incurring any liabilities to the affected bidder.

9. Request for Quotation may be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) by interested Bidders.

10. For further information, please call at telephone numbers 89124718 / 89124686 and look for Ramon A. Tancio or Engr. Ramoncito R Entendez of the Property Management and Enhancement Department (PMED), AFPRSBS.

AFP RETIREMENT AND SEPARATION BENEFITS SYSTEM
424 Capinpin Avenue, Camp Gen. Emilio Aguinaldo, Quezon City

TERMS OF REFERENCE

PROCUREMENT OF A CONTRACT FOR THE INSTALLATION OF FLOW METER, CHECK VALVES, AND CONTROL PANELS FOR WATER FACILITIES AT RIVIERA RESIDENTIAL ESTATES, SILANG, CAVITE

1.0 Introduction

The intent of this document is to outline the requirements of this project and to solicit full-service proposals for the Installation of Flow meter, Check valves, and Control panels for water facilities located at Riviera Residential Estates, Silang, Cavite, in accordance with Republic Act (R.A.) No. 9184 (The Government Procurement Reform Act) and its implementing rules and Regulations

2.0 The Riviera Residential Estates Water Distribution Facility

The Riviera Residential Estates Residential water supply are currently supplied by Four (4) operational water tanks, Block 14, Block 34, 49, and 51 and a reserved tank at Block 6. Each tank distributes water covering all the water supply requirement of the subdivision.

To monitor water distribution, a flow meter is required. As of the moment, flow meters are not available in each facility. Flow meters allows us to determine the ff: 1. Volume of water flowing thru pipes before distributing to main distribution 2. Amount of water loss before and after distribution, and 3. Allows verification of volume of water in the billing. It is recommended to install Flowmeters for stringent monitoring of water flow running in each facility. In addition, Pump control in Block 6, is also necessary to operate the water distribution at Block 6 water tank.

3.0 The Project

3.1 The project is Installation of Flow meter, Check valves, and Control panels for water facilities located at Riviera Residential Estates, Silang, Cavite.

3.2 Installation works shall be performed based on approved plans and specification.

4.0 Approved Budget for the Contract (ABC)

The procuring entity's Approved Budget for the Contract (ABC) is Seven Hundred Fifty Thousand Pesos (Php 750,000.00). The ABC is inclusive of the value added tax, withholding tax, and other forms of taxes that may be imposed by the Philippine government and/or concerned government agencies in relation to the Installation of Flow meter, Check valves, and Control panels, located at Riviera Residential Estates, Silang, Cavite.

5.0 Scope of Work

5.1 General Requirements

5.1.1 Construction of warehouse with temporary perimeter covering/blue sack enclosure at least 1.50m in height from the sidewalk. Coordinate with the AFPRSBS Engineer for the facility/warehouse location.
5.1.2 The Contractor must clear the working area at all times.
5.1.3 Construction Schedule of the project must be visible at working area at all times. Provide weekly monitoring report of accomplishment.
5.1.4 Submit inventory report of all removed damaged waterline accessories at the end of project.
5.1.5 Secure clearance from the Procuring Entity prior to demobilization.

5.2 Provision of Flowmeter, Check Valve, and Pump Control

5.2.1. Provide Flowmeters and Check valve as indicated

Location (Water facility	Flowmeter size (Flange type)	Swing Check Valve size
Block 14	4"	4"
Block 6	3"	3"
Block 51	3"	3"
Block 49	4"	4"
Block 34	3"	3"

Install equipments as indicated in plans and specification.

5.2.2 Pump Control shall be installed in Block 6 deep well power line control setup.

5.3 Testing and Commissioning

Installed equipments shall comply with the qualifications set in specifications.

6.0 Deliverables

Delivered and installed Flowmeter, Check Valve, and Pump Control according to plans and specifications.

7.0 Contract Duration

The work to be performed by the Contractor should be completed within Ninety (90) calendar days reckoned seven days after receipt of Notice to Proceed.

8.0 Terms of Payment

8.1 The terms of payment shall be as follows:

a. An initial payment equivalent to fifteen percent (15%) of the contract price shall be made within ten (10) working days after the effective date of the contract and submission by the Supplier of a Performance bond.

b. Progress billing every month corresponding to the work accomplished.

8.2 All payments shall be subject to ten percent (10%) retention, expanded withholding taxes and other applicable taxes, and such other deductions as may be mutually agreed upon by both parties.

8.3 The ten percent (10%) retention shall be released by the AFP-RSBS Thirty(30) days after Certificate of Completion(COC) issuance and Final Acceptance.

SCOPE OF WORKS

PROCUREMENT OF A CONTRACT FOR THE INSTALLATION OF FLOW METER, CHECK VALVES, AND CONTROL PANELS FOR WATER FACILITIES AT RIVIERA RESIDENTIAL ESTATES, SILANG, CAVITE

A. General Requirements

1. Construction of warehouse with temporary perimeter covering/blue sack enclosure at least 1.50m in height from the sidewalk. Coordinate with the AFPRSBS Engineer for the facility/warehouse location.
2. The Contractor must clear the working area at all times.
3. Construction Schedule of the project must be visible at working area at all times. Provide weekly monitoring report of accomplishment.
4. Submit inventory report of all removed damaged waterline accessories at the end of project.
5. Secure clearance from the Procuring Entity prior to demobilization.

B. Provision of Flowmeter, Check Valve, and Pump Control

1. Terminate connected water connections of deep well pump and water tank to be rehabilitated prior to commencement of installation.
2. Provide Flowmeters and Check valve as indicated:

Location	Flowmeter size (Flange type)	Swing Check Valve size
Block 14	4”	4”
Block 6	3”	3”
Block 51	3”	3”
Block 49	4”	4”
Block 34	3”	3”

3. Install equipments as indicated in plans and specification.
4. Pump Control shall be installed in Block 6 deep well power line control setup.

C. Testing and Commissioning

Perform Well yield test prior to commissioning of water pump facility with installed Flowmeters and Check valve. Installed equipments shall comply with the qualifications set in specifications.

SPECIFICATIONS

PROCUREMENT OF A CONTRACT FOR THE INSTALLATION OF FLOW METER, CHECK VALVES, AND CONTROL PANELS FOR WATER FACILITIES AT RIVIERA RESIDENTIAL ESTATES, SILANG, CAVITE

I. GENERAL CONDITIONS

1. An ocular inspection of the site shall be made prior to actual installation of Flow meter, Check valves, and Control Panel at site
2. The contractor shall store and protect all its materials at the jobsite from damage and deterioration.
3. All works shall be done by competent workers under the supervision of an Engineer. Ensure strict compliance to the plans and specifications.

II. QUALITY ASSURANCE

1. The contractor shall offer new pumps and electric motors controller suitable for running the pumps from manufacturers specializing in the design and manufacturing of water pumps and electric motors in accordance with International Standards for more than 10years.

2. All materials supplied to this project, flowmeter, control panel, and valves, should pass the quality assurance tests at the factories producing these materials and components in accordance with accepted international standards. The contractor shall supply certificates indicating that the materials supplied have passed such tests.

3. The Contractor shall prove that he has successfully implemented similar works specified in this section in at least 3 other projects.

III. LOCATION OF METER

1. Meters are to be located as close as practical to the point of extraction and preferably on the discharge side of the pump.

2. There must only be permitted off-takes of water between the point of extraction and the meter.

3. The measuring mechanism of the meter must be located in straight clean pipe of uniform, circular cross section and without any fittings or obstructions. In all cases the meter must be installed so that at all flow rates there is a “full pipe of water” on both the intake and discharge sides of the meter.

4. Flowmeters shall be installed 1.5 meters above ground level. A length of 40 inches from upstream and 20 inches downstream where the meter shall be installed, to provided to facilitate easy access for maintenance and reading of meters at all times. Thrust Blocks or equivalent supports shall be provided as support for meter and pipes. See Drawing Plans for reference.

IV. SECURITY

The flow-meter installation shall be sealed (i.e. tamper proof) in such a way there is no possibility of dismantling, altering or removing the flow-meter or any adjacent components (e.g. data loggers, telemetry equipment etc) without visibly damaging the protective devices. This will be by the use of tamper tags fitted through the flow meter mounting bolts or tamper tape on loggers and cable junction boxes.

V. FLOW-METER TECHNICAL SPECIFICATIONS

1. Mechanical Flow Meters Performance Requirements and Operating Conditions

   Technical Specifications:

   ISO4064-1:2005 and/or ISO4064-1999 class B and/or OIML with R49.1:2006 pattern approved. Meter is to have a factory wet calibration certificate stating the calibration date, time and accuracy of the meter, available upon request for minimum period of 6 years after manufacture. Flow-meter accuracy curve of the flowmeter shall be submitted. Meter should have a +/-2% error of the flow-meters accuracy curve throughout the expected flow rates.

2. The meter must be selected and installed to ensure the water quality does not adversely affect the performance and life expectancy of the flow meter. Meter register must remain legible over the life of the meter.

3. Device must be tamperproof and be designed to show signs of tamper Each meter is to have a have a factory wet calibration certificate stating the

calibration date, time and accuracy of the meter, available upon request for minimum period of 6 years after manufacture.

VI. SWING CHECK VALVES

Check valves 100 mm (4 inches) and larger shall have flanged connections and be of the swing type with outside lever and weight. The valve shall be designed for a minimum water working pressure of 1.0 MPs (150 psi), and shall have 125-lb American Standard Flanges. Valve bodies hall be cast iron or steel. The valves shall have bronze gate rings and seat rings and type 18- 8 stainless steel hinge pins. The check valves shall be designed so that disc and body seat may be easily removed without removing valve from the line.

The valves shall be provided with flanges in accordance with ANSI B16.1, Class 125 iron flanges or ANSI B16.42, Class 150 for ductile iron flanges

1. Design

The valve body shall be full flow equal to nominal pipe diameter at all points through the valve. The body seat shall be O-ring sealed and field replaceable without removing the valve from the line. The end flanges shall contain integrally cast mounting pads on sizes 3 inch (80mm) and larger.
The top access port shall be full size, allowing removal of the disc without removing the valve from the line. The access cover shall be domed in shape to provide flushing action over the disc for operating in lines containing high solids content.

The disc shall be of one piece construction and connected to the shaft with a disc arm and two pivot pins to provide pivot action to allow for self-adjusting seating at all pressures. 14 inch and larger discs shall be convex shape for lift stabilization and strength. The disc seat shall be resilient with integral O-ring type sealing surface for drop tight shut-off at high and low pressures and for easy replacement in the field without removing the valve from the line. The shaft seals shall consist of v-type packing in a fixed gland with an adjustable follower designed to prevent over compression of the packing and to meet design parameters of the packing manufacturer. Removable, slotted shims shall be provided under the follower flanges to provide for adjustment and prevent over loading of the packing.

When specified, the valve shall be factory equipped with a lever and weight assembly. The lever shall be equipped with three holes for adjusting the

bolted weight assembly. When the valve is closed, the lever and weight shall be located 30 degrees below horizontal.

When specified, the valve shall be factory equipped with a lever and spring assembly. The spring shall be mounted to a bracket on the side of the valve body with a bolt assembly to adjust the spring tension.

The valve body, cover and disc shall be constructed of ASTM A536 Grade 65-45- 12 ductile iron (sizes 2 inch. (50mm) through 24 inch (600mm) and ASTM A126 class B, gray iron (sizes 30 inch (800mm) through 48 inch (1200mm)). Optional body materials include ASTM A536 Grade 65-45- 12 ductile iron (sizes 30 inch (800mm) through 48 inch (1200mm)).

2. Manufacture

All valves shall be hydrostatically and seal tested per AWWA C508 to demonstrate zero leakage and structural integrity. When requested, the manufacturer shall provide test certificates, dimensional drawings, parts list drawings, and operation and maintenance manuals.

VII. PUMP CONTROLS(MOTOR) SYSTEM

Specifications of the Pump control should comply with the following:

General	
Current Range	23 A ~ 1600 A (nominal)
Motor connection	In-line or inside delta
Bypass	Integrated internal or external
Supply	
Control Voltage	(A1, A2, A3) 110 ~ 220 VAC (+ 10% / -15%) or 230 ~ 440 VAC (+ 10% / -15%)
Mains Frequency	45 Hz to 66 Hz
Inputs	
Inputs	Active 24 VDC, 8 mA approx.
Start (C23, C24)	Normally open
Stop (C31, C32)	Normally closed
Reset (C41, C42)	Normally open or closed
Programmable Inputs	
Input A (C53, C54)	Normally open or closed

Input B (C63, C64)	Normally open or closed
Motor Thermistor (B4, B5)	
PT100 RTD (B6, B7, B8)	
Relay outputs	10 A at 250 VAC resistive
	5 A at 250 VAC, AC15 pf 0.3
Run Relay (23, 24)	Normally Open
Programmable Outputs	
Relay A (13, 14)	Normally Open
Relay B (31, 32, 34)	Changeover
Relay C (41, 42, 44)	Changeover
Analog Output (B10, B11)	0-20 mA or 4-20 mA
24 VDC Output (P24, COM)	200 mA

Environmental

Ingress protection:	IP00- IP20
Operating temperature	-10 °C ~ 60 °C
Storage temperature	- 10 °C ~ 60 °C
Humidity	5% to 95% Relative Humidity

ANNEX "A"

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

A F F I D A V I T

I, *[Name of Affiant]*, of legal age, *[Civil Status]*, *[Nationality]*, and residing at *[Address of Affiant]*, after having been duly sworn in accordance with law, do hereby depose and state that:

1. ***Select one, delete the other:***

   If a sole proprietorship: I am the sole proprietor of *[Name of Bidder]* with office address at *[address of Bidder]*;

   If a partnership, corporation, cooperative, or joint venture: I am the duly authorized and designated representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

2. ***Select one, delete the other:***

   If a sole proprietorship: As the owner and sole proprietor of *[Name of Bidder]*, I have full power and authority to do, execute and perform any and all acts necessary to represent it in the bidding for *[Name of the Project]* of the *[Name of the Procuring Entity]*;

   If a partnership, corporation, cooperative, or joint venture: I am granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the *[Name of Bidder]* in the bidding as shown in the attached *[state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate issued by the corporation or the members of the joint venture)]*;

3. *[Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. ***Select one, delete the rest:***

   If a sole proprietorship: I am not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

   If a partnership or cooperative: None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

   If a corporation or joint venture: None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the following responsibilities as a Bidder:

   a) Carefully examine all of the Bidding Documents;

   b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;

   c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and

   d) Inquire or secure Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any other person or official, personnel or representative of the government in relation to any procurement project or activity.

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

_____
Bidder's Representative/Authorized Signatory

ANNEX "B"

QUOTATION FORM

ITEM No.	ITEM & DESCRIPTION	PRICE
1	**PROCUREMENT OF A CONTRACT FOR THE INSTALLATION OF FLOW METER, CHECK VALVES, AND CONTROL PANELS FOR WATER FACILITIES AT RIVIERA RESIDENTIAL ESTATES, SILANG, CAVITE** ***Note:*** *Please secure copy of the drawings/plans and other necessary documents from the office of the Property Management and Enhancement Department (PMED).*	

Name of Bidder : _____

Delivery Period : 90 calendar days

After having carefully read and accepted your conditions above, I/we quote you on the item at prices noted above.

_____
Print Name / Signature

Tel. No. _____
Fax No. _____
e-mail address _____
Date _____
TIN _____

ANNEX "C"

AFP RETIREMENT AND SEPARATION BENEFITS SYSTEM
424 Capinpin Avenue, Camp Gen. Emilio Aguinaldo, Quezon City

BILL OF QUANTITIES

PROCUREMENT OF A CONTRACT FOR THE INSTALLATION OF FLOW METER, CHECK VALVES, AND CONTROL PANELS FOR WATER FACILITIES AT RIVIERA RESIDENTIAL ESTATES, SILANG, CAVITE

ITEM	MATERIALS/DESCRIPTION	UNIT	QTY	UNIT COST (Php)	TOTAL COST (Php)
I .	**GENERAL REQUIREMENTS**				
	1. Mobilization/Demobilization	lot	1.00		
	2. Bunkhouse & Warehouse	lot	1.00		
	3. Formworks/Scaffolding	lot	1.00		
	Sub-total				
II.	**INSTALLATION OF FLOW METER AND CHECKVALVE**				
	Supply and Installation of Mechanical Flowmeter				
	1. Flowmeter, 4" flange type. Factory cal.	pcs	2.00		
	2. Flowmeter, 3" flange type. Factory cal.	pcs	3.00		
	3. Cast Iron Swing Check Valve 4" flange type	pcs	2.00		
	4. Cast Iron Swing Check Valve 3" flange type	pcs	3.00		
	5. Flowmeter and Check Valves Appurtenances w/ Installation (Flanges, Nipples, Bolts and Nuts	lot	10.00		
	Sub-total				
III.	**INSTALLATION OF CONTROL PANEL**				
	Supply and Installation of Motor Controller for Block 6				
	Soft starter Motor Controller, 30HP, 230 V, 3Phase, 60Hz. with complete accessory	ls	1.00		
	Sub-total				
SUMMARY / RECAPITULATION					
	A. TOTAL MATERIAL COST (ITEM II AND III)				
	B. TOTAL DIRECT COST (ITEM I)				
	C. TOTAL LABOR COST (20% OF A)				
	D. SUB-TOTAL COST (A + B + C)				
	E. OH MISC (5% OF D)				
	F. PROFIT (10% OF D)				
	G. TOTAL COST (D + E + F)				
	H. 12% EVAT (G * 12%)				
	I. TOTAL REHABILITATION COST (G + H)				