



Water Accessibility - Our Priority!

BIDDING DOCUMENTS

***1 Lot Replacement of Big Mechanical
Meters Installed at Various
Subdivisions in Cagayan de Oro City
with Electromagnetic Flow Meters***

**PR No. 22-06-07-0082
REBIDDING**

October 13, 2022

Owner:

**CAGAYAN DE ORO CITY WATER DISTRICT
Corrales Avenue, Brgy. 27, Cagayan de Oro City**

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the “Works”) through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for admeasurements (unit prices or unit rates in a bill of quantities) types of contract, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv) the obligations, duties, and/or functions of the winning Bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Works to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission*,” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

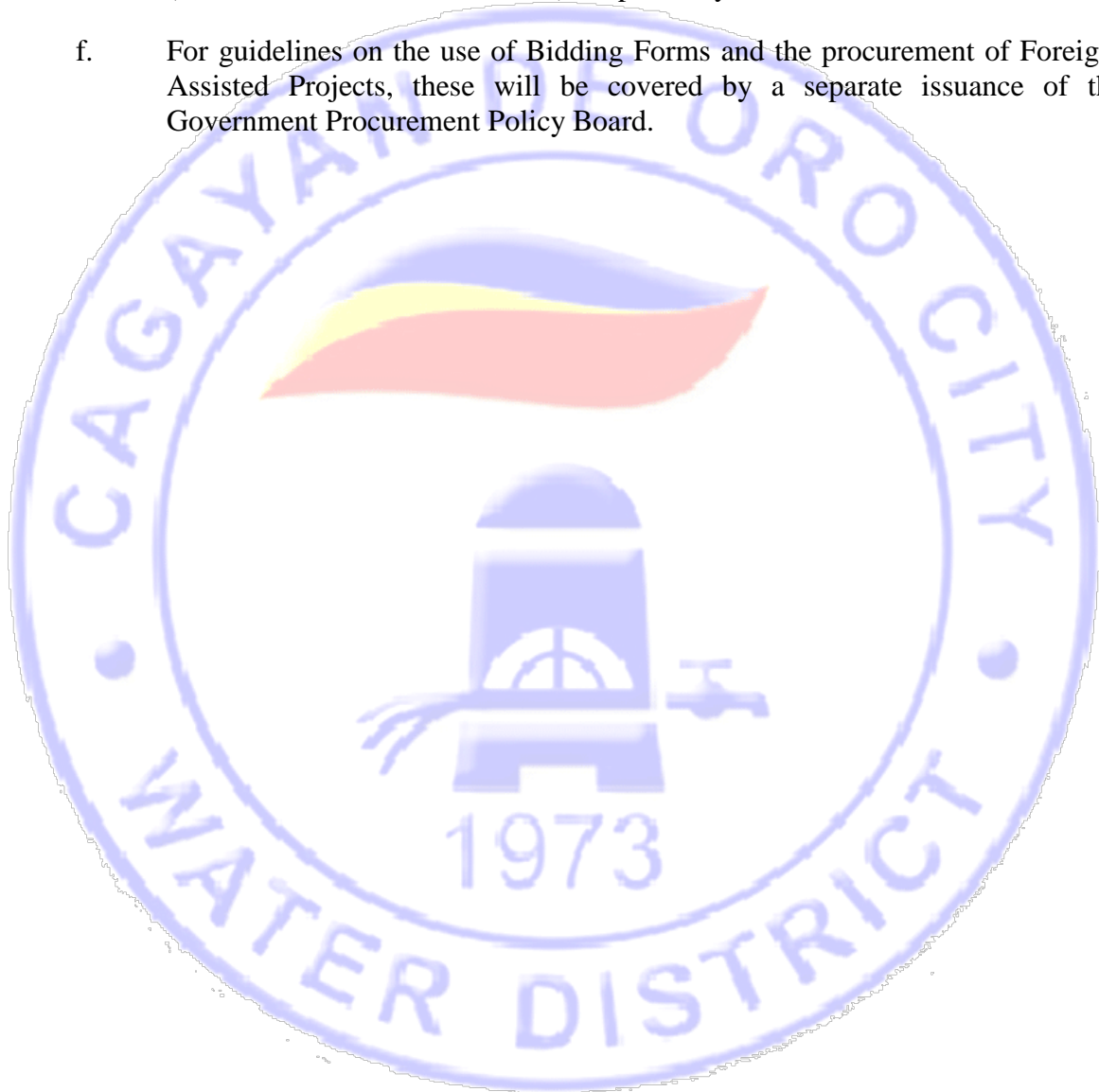
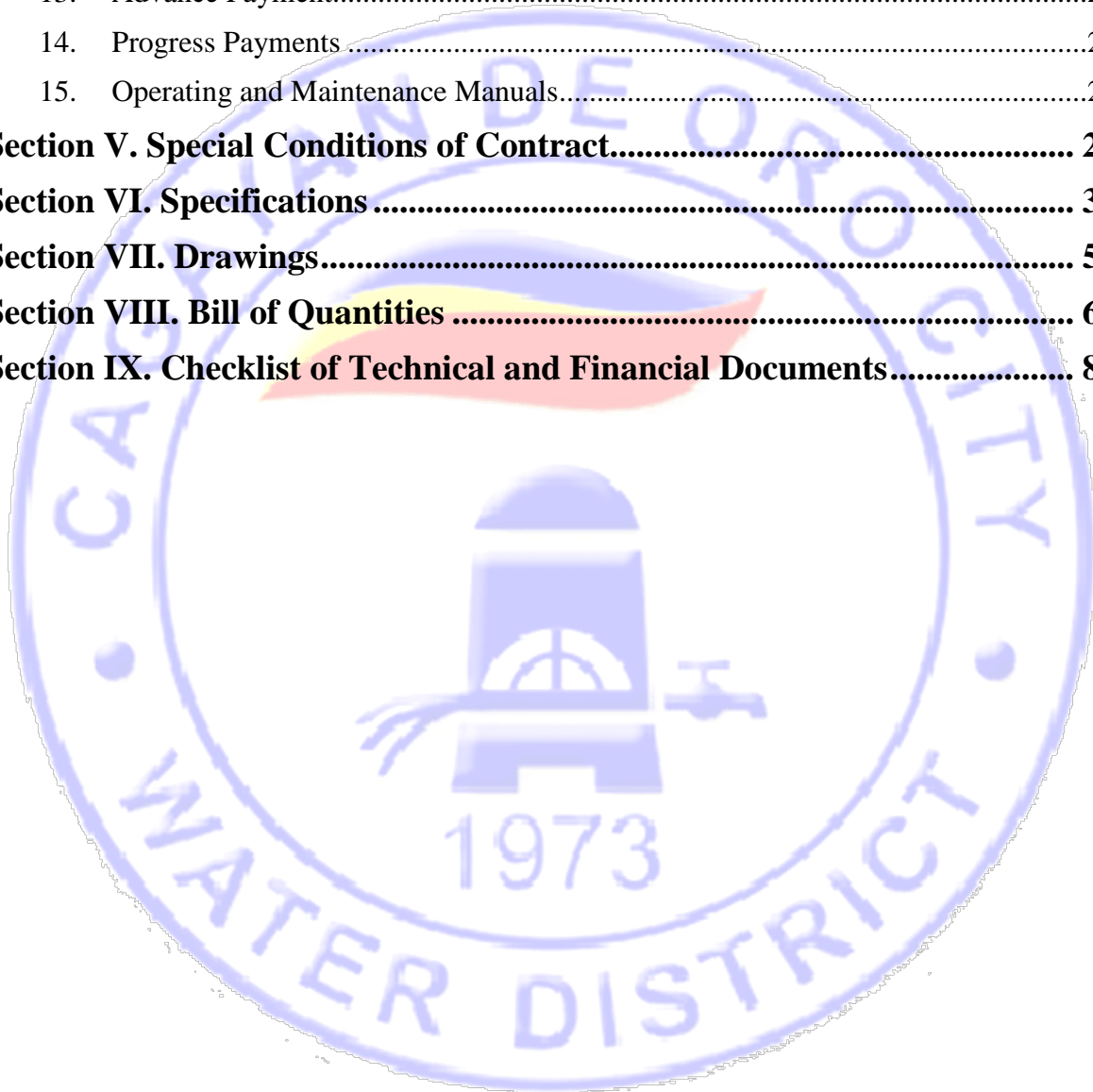


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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

Foreign-funded Procurement or Foreign-Assisted Project – Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

(PR No. 22-06-07-0082-Rebidding, dated 6/1/2022)

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.



Section I. Invitation to Bid

Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria.

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



Republic of the Philippines
CAGAYAN DE ORO CITY WATER DISTRICT
Corrales Avenue, Brgy. 27, Cagayan de Oro City
Telephone No. (088) 555-9850 (Local No. 1414)

**INVITATION TO BID FOR 1 LOT REPLACEMENT OF BIG MECHANICAL METERS
INSTALLED AT VARIOUS SUBDIVISIONS IN CAGAYAN DE ORO CITY WITH
ELECTROMAGNETIC FLOW METERS**

1. The *Cagayan de Oro City Water District*, through the *COWD Approved Budget for 2022* intends to apply the sum of *Three Million Five Hundred Ninety Thousand Nine Hundred Fifty-Nine Pesos and 05/100 (P3,590,959.05)* being the *Approved Budget for the Contract (ABC)* to payments under the contract for *1 Lot Replacement of Big Mechanical Meters Installed at Various Subdivisions in Cagayan de Oro City with Electromagnetic Flow Meters under PR No. 22-06-07-0082-Rebidding*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *Cagayan de Oro City Water District* now invites bids for the above Procurement Project. Completion of the Works is required as follows:

Location	Duration
Fatima West Plain Subdivision, Pagatpat, CDOC	Ninety-Five (95) Calendar Days from receipt of Notice to Proceed
Bloomfields Subdivision, Lumbia, CDOC	
Tuscania Subdivision, Kauswagan, CDOC	

Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “pass/fail” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from *Cagayan de Oro City Water District* and inspect the Bidding Documents at the address given below from 8:00 A.M. – 5:00 P.M. (Mondays to Fridays).
5. A complete set of Bidding Documents may be acquired by interested bidders on *September 20, 2022* from given address and website/s below upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of *Five thousand pesos only (Php5,000.00)*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *in person, by facsimile, or through electronic means*.
6. The *Cagayan de Oro City Water District* will hold a Pre-Bid Conference¹ on *September 27, 2022, 3:00 P.M.* at the given address below through videoconferencing/webcasting via *Zoom Meeting*, which shall be open to prospective bidders.

¹ May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below on or before *October 13, 2022, 9:00 A.M.* Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
9. Bid opening shall be on *October 13, 2022, 9:00 A.M.* at the given address below *via Zoom Meeting*. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. The complete schedule of activities is listed as follows:

Activities	Schedule
1. Pre-Procurement Conference	-
2. Issuance of Bid Documents	September 20, 2022 – October 13, 2022
3. Pre-Bid Conference	September 27, 2022, 3:00 P.M., Tuesday
4. Opening of Bids	October 13, 2022, 9:00 A.M., Thursday
5. Bid Evaluation	October 13, 2022, 9:00 A.M., Thursday
6. Post-Qualification	October 28, 2022, Friday
7. Issuance of Notice of Award	November 25, 2022, Friday
8. Posting of Performance Security & Award of Contract	December 5, 2022, Monday
9. Issuance of Notice to Proceed	December 12, 2022, Monday

11. The *Cagayan de Oro City Water District* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

Joseph A. Magriña
Cagayan de Oro City Water District
Corrales Avenue, Brgy. 27 (Poblacion),
Cagayan de Oro City Water District
Email: bac@cowd.gov.ph / bac.cowd@gmail.com
Telephone No.: (088) 555-9850 (Local No. 1414)

13. You may visit the following website:

For downloading of Bidding Documents:

<https://www.philgeps.gov.ph>

http://www.cowd.gov.ph/view_all_bids

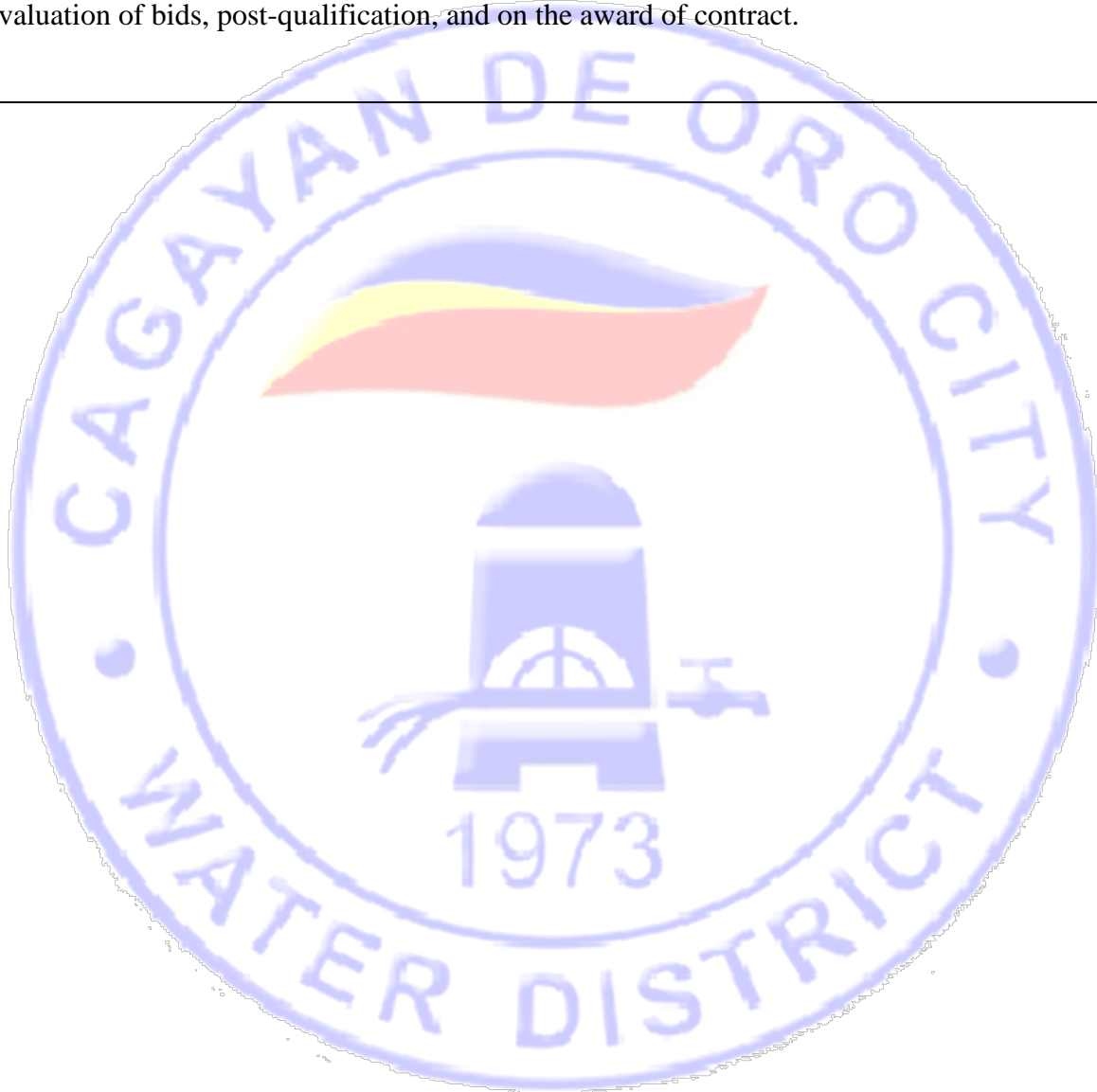
September 20, 2022

ANTONIO B. YOUNG
BAC A Chairman

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.



1. Scope of Bid

The Procuring Entity, *Cagayan de Oro City Water District* invites Bids for the *1 Lot Replacement of Big Mechanical Meters Installed at Various Subdivisions in Cagayan de Oro City with Electromagnetic Flow Meters*, with Project Identification Number *22-06-07-0082-Rebidding*.

The Procurement Project (referred to herein as “Project”) is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for 2022 in the amount of *Three Million Five Hundred Ninety Thousand Nine Hundred Fifty-Nine Pesos and 05/100 (P3,590,959.05)*.

2.2. The source of funding is:

GOCC and GFIs, the Corporate Operating Budget.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that: Subcontracting is not allowed.

- 7.1. *[If Procuring Entity has determined that subcontracting is allowed during the bidding , state:]* The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criterial stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- 7.2. *[If subcontracting is allowed during the contract implementation stage, state:]* The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

- 7.3. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time through videoconferencing/webcasting} as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of

availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

- 14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 14.2. *Payment of the contract price shall be made in Philippine Pesos.*

15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

- 15.2. The Bid and bid security shall be valid until *120 days* from the date of opening of bids. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

18. Opening and Preliminary Examination of Bids

- 18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as

required by **ITB** Clause 16 shall be submitted for each contract (lot) separately.

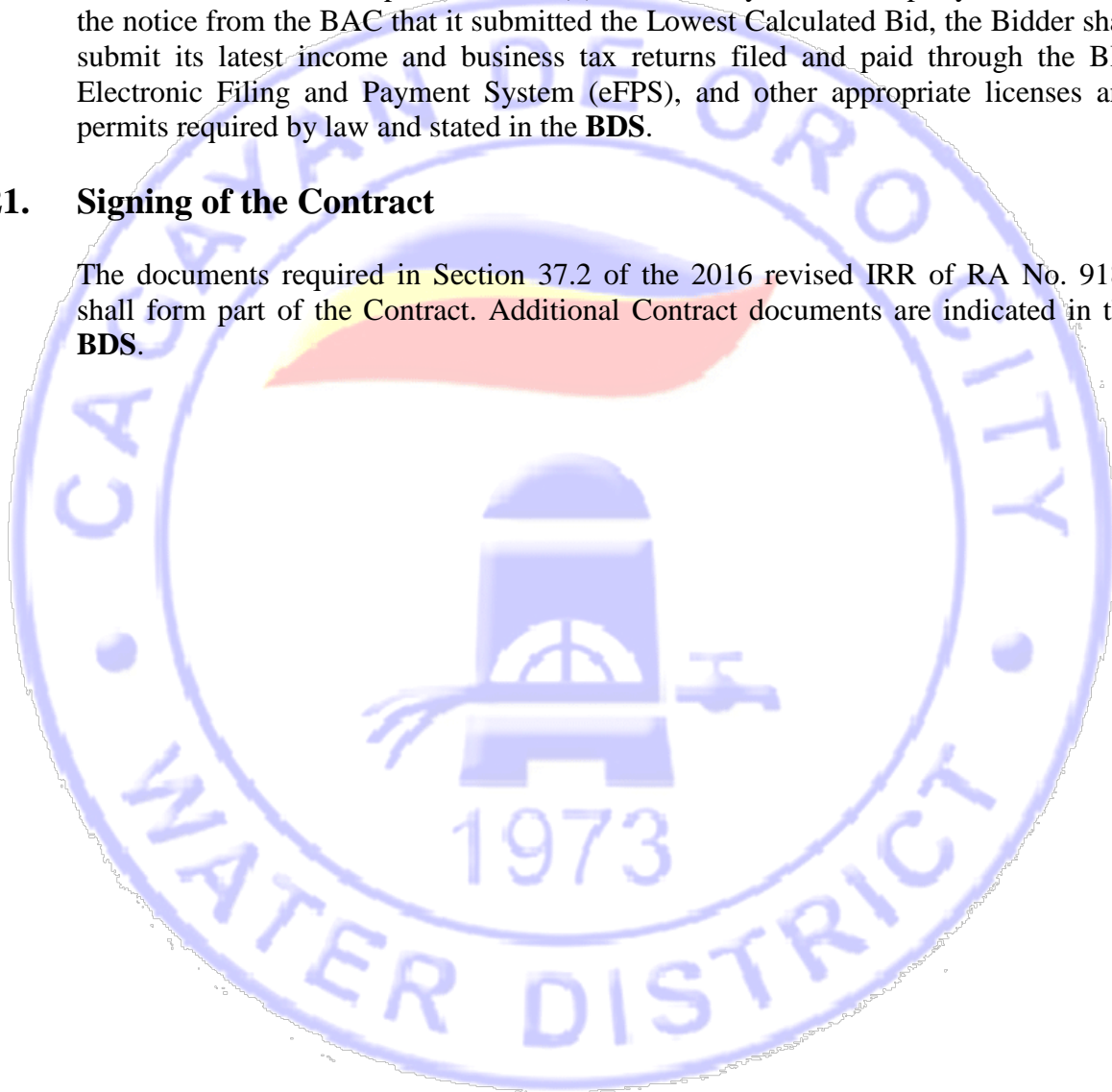
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.



Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

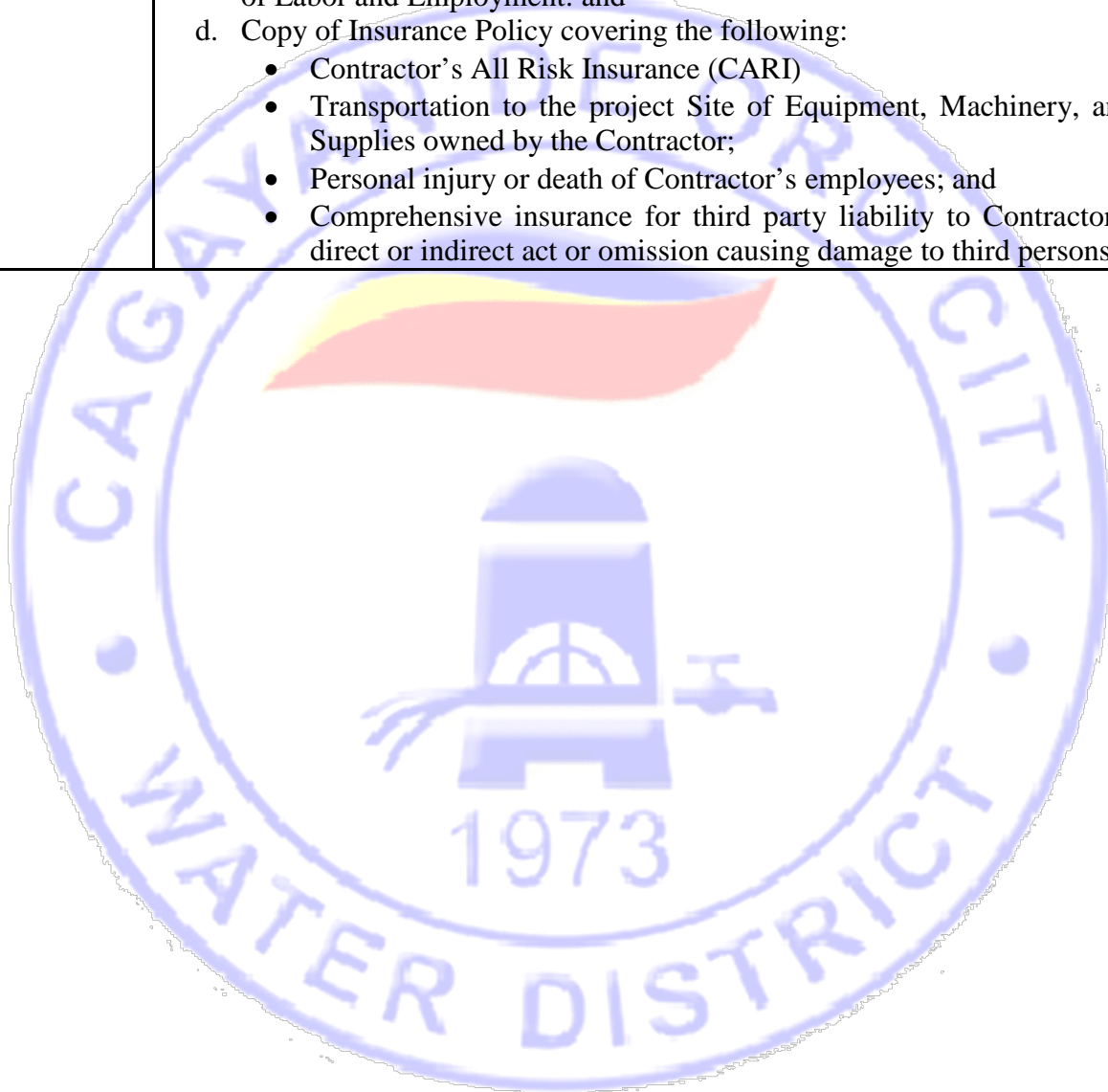
Bid Data Sheet

ITB Clause	
5.2	<p>For this purpose, contracts similar to the Project shall be: <u>Civil Works and Water Supply System.</u></p> <ul style="list-style-type: none">a. Contract should have been completed within five (5) years prior to the deadline for the submission and receipt of bids.b. SLCC must be equal or at least fifty percent (50%) of the ABC.c. It must be supported by the following:<ul style="list-style-type: none">i. NOA and/or NTP; <u>and</u>ii. Certificate of Final Acceptance or Constructors Performance Evaluation System with Final Rating (at least satisfactory);
7.1	Subcontracting is not allowed.
8	COWD will hold a pre-bid conference for this Project on <i>September 27, 2022, 3:00 P.M., Tuesday</i> through videoconferencing.
9	<p>Any request for clarification on the Bidding Documents must be done in writing at least ten (10) calendar days before the opening of bids and must be received through the given address below or through electronic mail:</p> <p>Cagayan de Oro City Water District, Corrales Avenue, Cagayan de Oro City ANTONIO B. YOUNG BAC A Chairman Telephone No.: (088) 555-9850 (Local No. 1414) Email: <u>bac@cowd.gov.ph / bac.cowd@gmail.com</u></p>
10.1	<p><u>Legal Documents: (envelope 1)</u></p> <ul style="list-style-type: none">a. PhilGEPS Platinum Certificate of Registration and Membership with Annex A;b. Statement of bidder's ongoing government and private contracts;c. Statement of bidder's Single Largest Completed Contract (SLCC);d. PCAB License;e. Net Financial Contracting Capacity computation (NFCC);f. Joint Venture Agreement (JVA), if applicable; <p><u>Technical Components</u></p> <ul style="list-style-type: none">a. Bid Security;b. Project Requirements:<ul style="list-style-type: none">i. Organizational Chart for the contract to be bid;ii. List of Contractors Personnel;iii. List of Contractors Major Equipment Units;c. Construction/Implementation Schedule (Gantt Chart or S-curve);d. Site Inspection Certificate issued by Engineering Department;e. Construction Methods;f. Certification for Provision of Signage;g. Certification from Supplier of Aggregates;

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11	<p><u>Financial Component: (envelope 2)</u></p> <p>a. Bid Price in the Bill of Quantities;</p> <p>b. Detailed estimates, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; and</p> <p>c. Cash flow by quarter or payment schedule.</p>
12	<i>No further instructions.</i>
14.2	Payment of the contract price shall be made in Philippine Pesos.
15.1	<p>The bid security shall be in the form of a Notarized Bid Securing Declaration or any of the following forms and amounts:</p> <p>a. The amount of not less than <u>₱71,819.18</u> (2% of ABC), if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</p> <p>b. The amount of not less than <u>₱179,547.95</u> (5% of ABC) if bid security is in Surety Bond. Bidder must attach the Insurance Commissioner's Certificate.</p>
15.2	The bid and bid security shall be valid until 120 days from the date of opening of bids.
16	<p>Each Bidder shall submit in three (3) clear copies sealed and labeled one (1) original and two (2) duplicates of the first and second components of its bid. All copies of the documents shall be certified true copy and signed by the owner or authorized representative.</p> <p>Bidders are requested to properly tag or label each documentary requirements for easy reference during the evaluation.</p>
17	<p>The address for submission of bids is Cagayan de Oro City Water District, Corrales Avenue, Cagayan de Oro City.</p> <p>The deadline for submission of bids is <i>October 13, 2022, 9:00 A.M., Thursday</i>.</p>
18	<p>The address for opening of bids is Cagayan de Oro City Water District, Corrales Avenue, Cagayan de Oro City.</p> <p>The opening of bids will be on <i>October 13, 2022, 9:00 A.M., Thursday</i>, through videoconferencing via Zoom Meeting.</p>
19.2	Partial bids are not allowed.
20	<p>Within a non-extendible period of five (5) calendar days from receipt by the bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit the following additional requirements filed and paid through the BIR Electronic Filing and Payment System (eFPS):</p> <p>1. Latest Annual Income Tax Returns; and</p> <p>2. Business Tax Returns (six [6] months prior to the opening of bids [VAT or Percentage Tax]);</p>

	In case the bidder opted to submit their Class “A” Documents, the Certificate of PhilGEPS Registration (Platinum Membership) shall remain as a post-qualification requirement to be submitted in accordance with Section 34.2 of the 2016 Revised IRR of RA 9184 (Circular 07-2017).
21	<p>The following documents shall form part of the contract:</p> <ol style="list-style-type: none">Construction Schedule or Gantt Chart and S-Curve;Manpower Schedule, Construction Methods, Equipment Utilization Schedule;Construction Safety and Health Program Approved by The Department of Labor and Employment; andCopy of Insurance Policy covering the following:<ul style="list-style-type: none">Contractor’s All Risk Insurance (CARI)Transportation to the project Site of Equipment, Machinery, and Supplies owned by the Contractor;Personal injury or death of Contractor’s employees; andComprehensive insurance for third party liability to Contractor’s direct or indirect act or omission causing damage to third persons



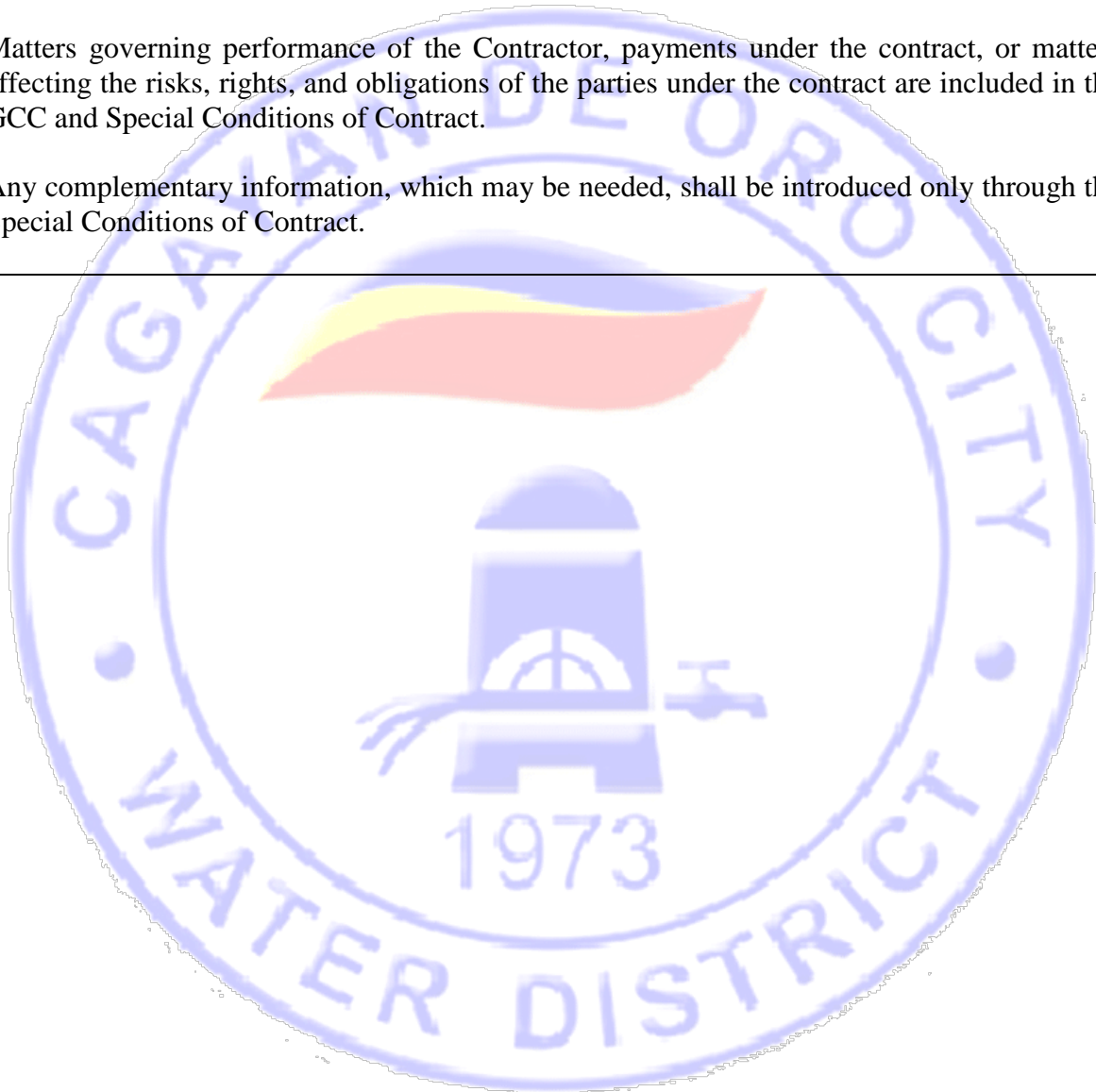
Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Contractor, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.



1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Possession of Site

4.1. The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

4.2. If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

5. Performance Security

5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.

5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the SCC supplemented by any information obtained by the Contractor.

7. Warranty

7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.

7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the SCC.

8. Liability of the Contractor

Subject to additional provisions, if any, set forth in the SCC, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Contractor is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in **ITB** Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex “E” of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the **SCC**, the Dayworks rates in the Contractor’s Bid shall be used for small additional amounts of work only when the Procuring Entity’s Representative has given written instructions in advance for additional work to be paid for in that way.

11. Program of Work

11.1. The Contractor shall submit to the Procuring Entity’s Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.

11.2. The Contractor shall submit to the Procuring Entity’s Representative for approval an updated Program of Work at intervals no longer than the period stated in the **SCC**. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity’s Representative may withhold the amount stated in the **SCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor’s accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

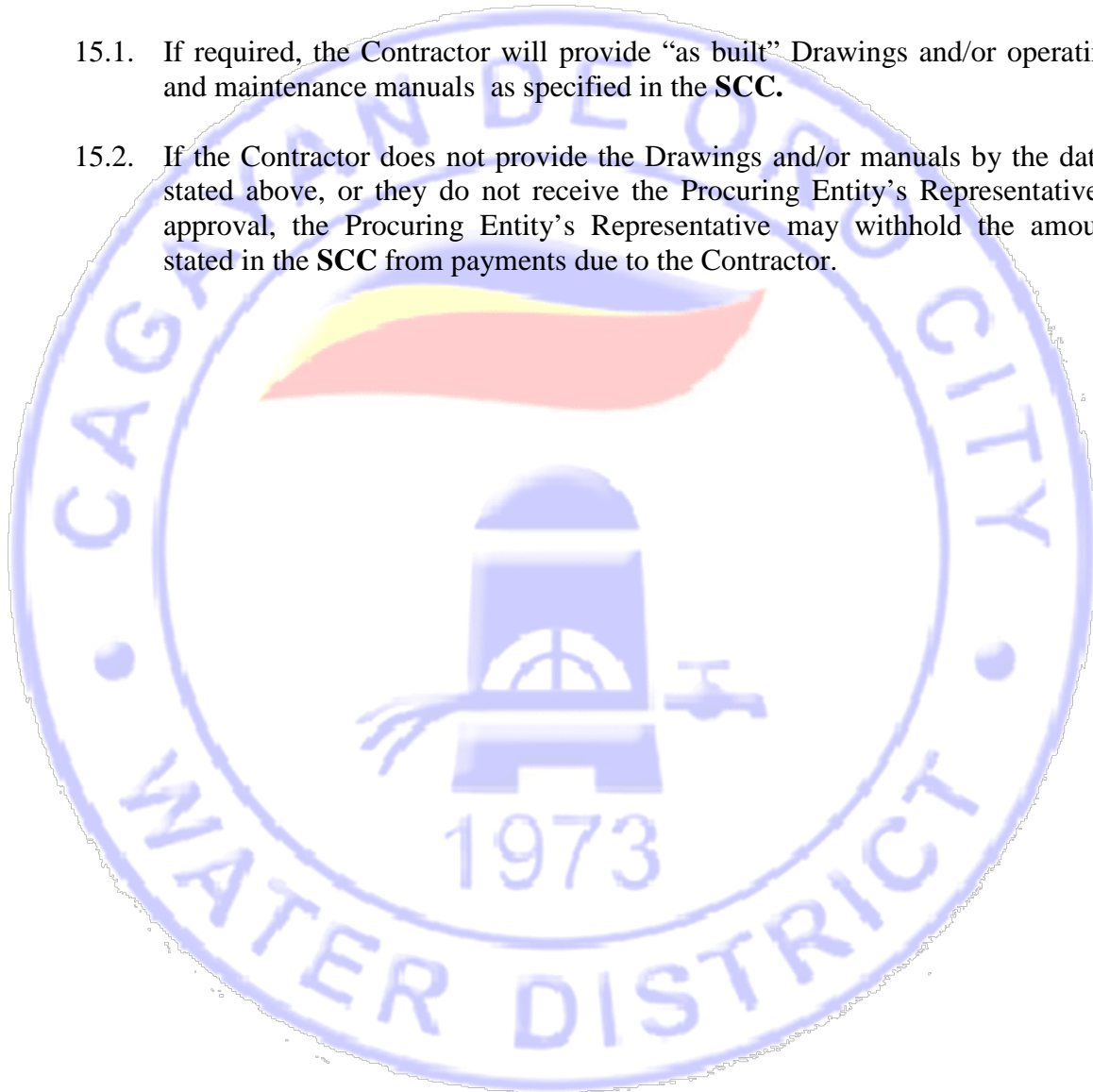
The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the **SCC**, subject to the requirements in Annex “E” of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the SCC, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

15. Operating and Maintenance Manuals

- 15.1. If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the SCC.
- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the SCC from payments due to the Contractor.



Section V. Special Conditions of Contract

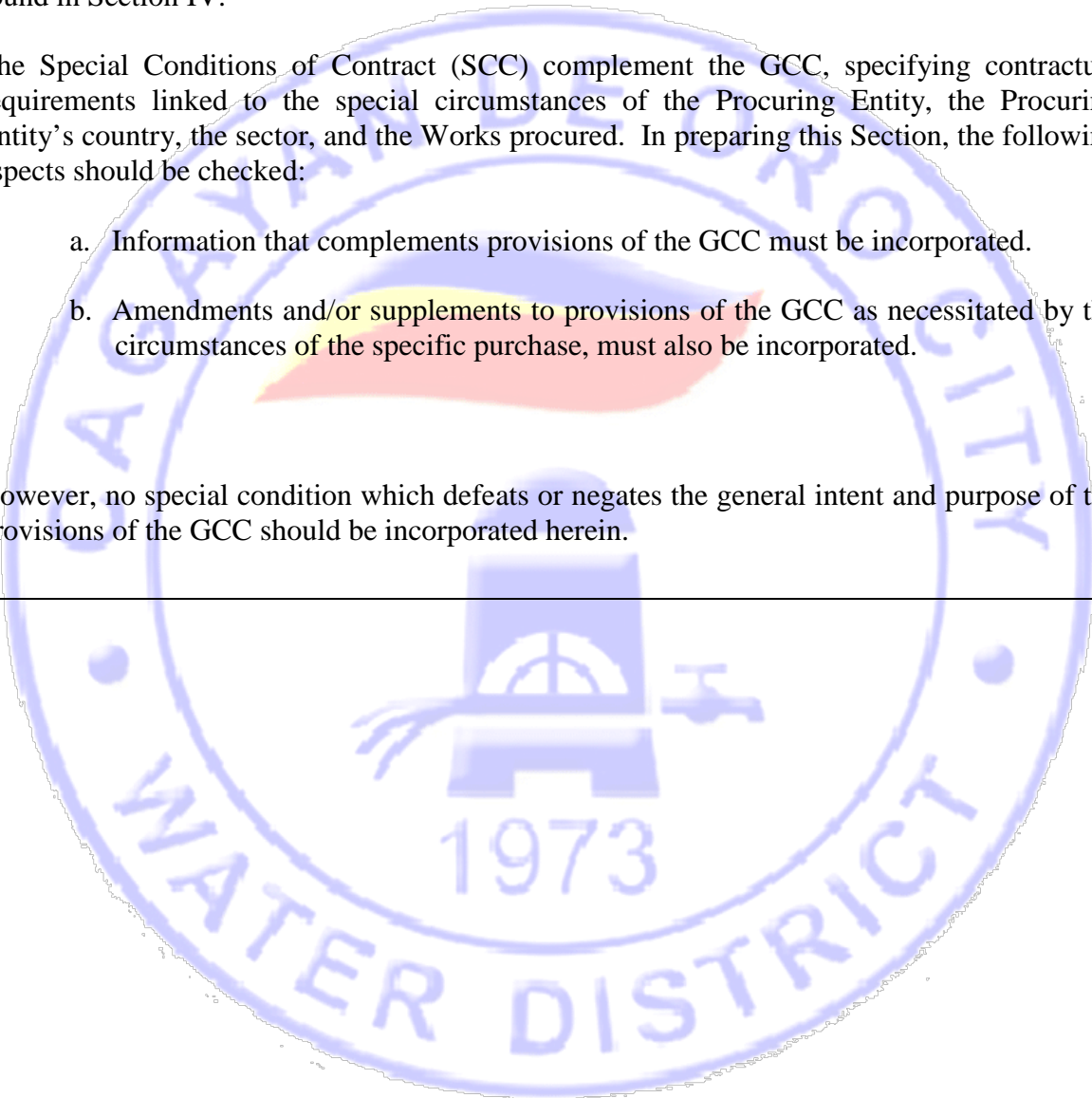
Notes on the Special Conditions of Contract

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Works procured. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.



Special Conditions of Contract

GCC Clause	
1	<p>The Scope of Works consist of the following:</p> <ul style="list-style-type: none">A. Procurement of MaterialsB. Securing Work PermitsC. Site PreparationD. ExcavationE. Installation of By-Pass LineF. Construction of Mother Meter Chamber and PRV ChamberG. Installation of Mother Meter and PRV AssemblyH. Construction of ARV Assembly and Instrumentation BoxI. Backfilling and Pavement RestorationJ. General Cleaning <p>(Refer to <i>Section VIII. Bill of Quantities</i> for the Program of Works.)</p>
3	The Procuring Entity shall give possession of all parts of the Site to the Contractor upon the issuance of the Notice of Award.
4.1	The Intended Completion Date is Ninety-Five (95) calendar days from receipt of Notice to Proceed.
6	The site investigation reports are: <i>none</i>
7.2	Five (5) years
10	No dayworks are applicable to the contract.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within <i>seven (7)</i> days of delivery of the Notice of Proceed.
11.2	<p>The period between Program of Work updates is thirty (30) days.</p> <p>The amount to be withheld for late submission of an updated Program of Work is ten percent (10%) of the Progress Payment.</p>
13	The amount of the advance payment is fifteen percent (15%) of the Total Project Cost.
14	Materials and equipment delivered on the site but not completely put in place shall be included for payment.
15.1	The date by which "as built" drawings are required is <u>Fifteen (15) days after the completion of the project.</u>
15.2	The amount to be withheld for failing to produce "as built" drawings by the date required is ten (10%) percent.

Section VI. Specifications

Notes on Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is mandatory. Most specifications are normally written specially by the Procuring Entity or its representative to suit the Works at hand. There is no standard set of Specifications for universal application in all sectors in all regions, but there are established principles and practices, which are reflected in these PBDs.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addenda should then adapt the General Specifications to the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the SCC.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be

accepted subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These notes are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final Bidding Documents.



Specifications

DESCRIPTION/SPECIFICATIONS				STATEMENT OF COMPLIANCE	
				(State "Comply or not Comply" for each item description and specifications and attach your company shop/drawing and or brochures / and or Literatures)	
PR NO. 22-06-07-0082-REBIDDING – 1 LOT REPLACEMENT OF BIG MECHANICAL METERS INSTALLED AT VARIOUS SUBDIVISIONS IN CAGAYAN DE ORO CITY WITH ELECTROMAGNETIC FLOW METERS					
FATIMA WEST PLAIN SUBDIVISION, PAGATPAT, CDOC					
DESCRIPTION	SIZE	QTY	UNIT		
A. 200mmØ PIPELINE BY-PASS LINE					
Resilient Gate Valve for water, two (2) stages of double O-ring, ductile iron/epoxy coated body, stainless steel shaft, flange type, non-rising stem, complete with accessories	200mmØ	3	pcs		
Universal Adaptor, CI/DI, FE x MJ	200mmØ	4	pcs		
uPVC Pipe, Class 150, Series 8	200mmØ x 6m	2	lgths		
uPVC Elbow, Single Hub w/ O-ring	200mmØ x 90°	2	pcs		
uPVC Pipe Casing	150mmØ x 6m	1	lgth		
Valve Box Cover	150mmØ x 6m x 9.20mm thk.	3	pcs		
Steel Bend w/ Ring Flange @ both ends	200mmØ x 45°	4	pcs		
Steel Nipple w/ Ring Flange @ both ends	200mmØ x 300mm	3	pcs		
	200mmØ x 500mm	2	pcs		
Mechanical Flange Tee	200mmØ x 200mmØ	2	pcs		
Sleeve Type Coupling, MJ X MJ	200mmØ	1	pc		
Capscrew w/ Nut and Lock & Washer, full threaded	¾"Ø x 3"	60	pcs		
Rubber Gasket	¼" thk	20	kgs		
Hard Coal Tar		12	kgs		
Washed Sand (Sand Bedding)		1	cu.m		
Backfill Material		3	cu.m		
B. ONE (1) UNIT 100mmØ MOTHER METER ASSEMBLY					
Steel Reducer w/ Ring Flange @ both ends	200mmØ x 100mmØ	2	pcs		
Steel Nipple w/ Ring Flange @ both ends	100mmØ x 500mm	1	pc		
	100mmØ x 300mm	1	pc		
Electromagnetic Flowmeter Process Connection: Flange ANSI 16.5, C150; Linear Material: EPDM; Electrode Material: Hastelloy w/ 10m remote mounted sensor cables and plugs; Communications: Serial RS 485 Interference Module Modbus RTU; Supply: Internal Battery packed installed and connected 2 D-Cell's inside meter; Flow Unit: m³/h; Volume Unit: m³; Totalizer: Uni-Directional Forward Flowing	100mmØ	1	set	TO BE PROVIDED BY COWD	

Strainer Basket, FE X FE	100mmØ	1	pc	
Capscrew w/ Nut and Lock & Washer, full threaded	5/8"Ø x 3"	40	pcs	
Rubber Gasket	¼" thk	2	kgs	
Quick Dry Enamel	Delft Blue	1	qrt	
Paint Thinner		1	bot	
Paint Brush	4"	1	pc	
C. ONE (1) UNIT 200mmØ PRESSURE REGULATING VALVE (PRV) ASSEMBLY				
Steel Nipple w/ Ring Flange @ both ends	200mmØ x 400mm	2	pcs	
Pressure Regulating Valve (PRV), FE X FE	200mmØ	1	pc	
SMS Data Logger, Two (2) built-in pressure 0-20 bars with programmable resolution/with built-in temperature sensor/two (2) built-in pressure transducer and two (2) signal input, complete with accessories		1	unit	
Saddle Clamp	200mmØ x 50mmØ	2	pcs	
Capscrew w/ Nut and Lock & Washer, full threaded	¾"Ø x 3"	32	pcs	
Rubber Gasket	¼" thk	4	kgs	
D. AIR RELEASE VALVE/ ARV INSTALLATON				
Air Release Valve/Air Valve: Body made of high strength plastic (reinforced nylon), pressure rating- PN 16 (232 psi), base reinforced nylon, connection reinforced nylon	25mmØ	1	pc	
BI Coupling FTE X FTE	25mmØ	1	pc	
Male Adaptor 90° Bend (Push-In), MTE x SE	25mmØ x 90°	1	pc	
Female Adaptor 90° Bend (Push-In), FTE x SE	25mmØ x 90°	1	pc	
PE Tube, SDR 9, ISO	25mmØ	6	m	
GS Nipple, Sch. 40, MTE x MTE	25mmØ x 0.5mm	1	pc	
Brass Straight Ball Valve w/ Lockwing, FTE x FTE	25mmØ	1	pc	
Deformed Bar	12mmØ x 6m	4	lgths	
Stainless Rod		2	pcs	
Welding Rod	E6012	3	kgs	
E. INSTRUMENTATION BOX WITH BARRICADE				
Instrumentation Box (Fiber Reinforced Plastic Box; L=450mm; W= 350mm; H = 500mm); Thickness= 6mm; Electromagnetic meter converter/ data logger adjustable hook and slot in 50mmØ PVC electrical conduit, FRP		1	set	
Pipe Electrical Conduit, PVC, PE X PE	50mmØ x 6m	1	lgth	
G.I. Pipe, Sched. 40	100mmØ x 6m x 7.11mm thk.	1	lgth	
Pipe Electrical Conduit long radius bend, PVC, 90° SE X SE	50mmØ x 90°	1	pc	
Angle Bar	1 ½" x 1 ½" x 6mm x 20'	2	lgths	
Galvanized Square Wire Mesh Screen	50mm x 50mm x 4.5mmØ x 9m	1	roll	
Hinge	75mm x 75mm x 4.76mm thk.	2	pcs	
Heavy Duty Padlock w/ Keys		1	pc	
Flat Bar	1" x ¼" thk. X 20'	1	lgth	
Bolts and Nuts	12mmØ x 50mm	4	pcs	
Deformed Bar	12mmØ x 6m	2	lgths	
	10mmØ x 6m	2	lgths	

G.I. Tie Wire	GA #16	1	kg	
Quick Dry Enamel	Delft Blue	4	qrts	
	Yellow	1	qrt	
	Black	1	qrt	
Latex Paint	Black	1	qrt	
	Yellow	1	qrt	
Paint Thinner		1	qrt	
Concrete Neutralizer		1	qrt	
Paint Brush	3"	2	pcs	
Portland Cement	40kg/bag	3	bags	
Washed Sand		1	cu.m	
Crushed Gravel		1	cu.m	
F. MOTHER METER AND PRV CHAMBER WITH MANHOLE COVER				
Deformed Bar	10mmØ x 6m	7	lgths	
	12mmØ x 6m	265	lgths	
Plain Round Bar	10mmØ x 6m	1	lgth	
G.I. Tie Wire	GA #16	11	kgs	
Portland Cement	40kg/bag	71	bags	
Washed Sand		4	cu.m	
Crushed Gravel	¾"	8	cu.m	
PVC Water Stop	150mm x 100mm	1	lgth	
MS Plate, for Manhole Cover	4' x 8' x ¼" thk.	1	sht	
Heavy Duty Padlock w/ Keys		1	pc	
Angle Bar	2" x 2" x 6mm x 20'	1	lgth	
Welding Rod	E6012	2	kgs	
G.I Pipe	¾"	1	lgth	
Rubber Gasket		2	kgs	
Epoxy A & B Adhesive		1	lit	
Coco Lumber	2" x 2" x 12'	38	lgths	
Ordinary Plywood	4' x 8' x ½" thk.	18	shts	
CWN	3"	6	kgs	
	1"	5	kgs	
Waterproofing Compound	Sahara	20	bags	
G. FOR CONSUMABLES				
Welding Gloves		2	pairs	
Working Gloves / Natural Rubber Gloves		8	pairs	
Chalkstone		8	pcs	
Sand Paper	No. 120	8	sheets	
Grinding Disc	4"	4	pcs	

BLOOMFIELDS SUBDIVISION, LUMBIA, CDOC				
A. 150mmØ PIPELINE BY-PASS LINE				
Resilient Gate Valve for water, two (2) stages of double O-ring, ductile iron/epoxy coated body, stainless steel shaft, flange type, non-rising stem, complete with accessories	150mmØ	3	pcs	
Universal Adaptor, CI/DI, FE x MJ	150mmØ	4	pcs	
uPVC Pipe, Class 150, Series 8	150mmØ x 6m	2	lgths	
uPVC Elbow, Single Hub w/ O-ring	150mmØ x 90°	2	pcs	
uPVC Pipe Casing	150mmØ x 6m	1	lgth	
Valve Box Cover	150mmØ x 6m x 9.20mm thk.	3	pcs	
Steel Bend w/ Ring Flange @ both ends	150mmØ x 45°	4	pcs	
Steel Nipple w/ Ring Flange @ both ends	150mmØ x 300mm	3	pcs	
	150mmØ x 500mm	2	pcs	
Mechanical Flange Tee	150mmØ x 150mmØ	2	pcs	
Sleeve Type Coupling, MJ X MJ	150mmØ	1	pc	
Capscrew w/ Nut and Lock & Washer, full threaded	¾"Ø x 3"	60	pcs	
Rubber Gasket	¼" thk.	14	kgs	
Hard Coal Tar		12	kgs	
Washed Sand (Sand Bedding)		1	cu.m	
Backfill Material		2.5	cu.m	
B. ONE (1) UNIT 50mmØ MOTHER METER ASSEMBLY				
Steel Reducer w/ Ring Flange @ both ends	150mmØ x 50mmØ	2	pcs	
Steel Nipple w/ Ring Flange @ both ends	50mmØ x 250mm	1	pc	
	50mmØ x 150mm	1	pc	
Electromagnetic Flowmeter Process Connection: Flange ANSI 16.5, C150; Linear Material: EPDM; Electrode Material: Hastelloy w/ 10m remote mounted sensor cables and plugs; Communications: Serial RS 485 Interference Module Modbus RTU; Supply: Internal Battery packed installed and connected 2 D-Cell's inside meter; Flow Unit: m³/h; Volume Unit: m³; Totalizer: Uni-Directional Forward Flowing	50mmØ	1	set	TO BE PROVIDED BY COWD
Strainer Basket, FE X FE	50mmØ	1	pc	
Capscrew w/ Nut and Lock & Washer, full threaded	5/8"Ø x 3"	40	pcs	
Rubber Gasket	¼" thk.	2	kgs	
Quick Dry Enamel	Delft Blue	1	qrt	
Paint Thinner		1	bot	
Paint Brush	4"	1	pc	
C. ONE (1) UNIT 150mmØ PRESSURE REGULATING VALVE (PRV) ASSEMBLY				
Steel Nipple w/ Ring Flange @ both ends	150mmØ x 400mm	2	pcs	
Pressure Regulating Valve (PRV), FE X FE	150mmØ	1	pc	
SMS Data Logger, Two (2) built-in pressure 0-20 bars with programmable resolution/with built-in temperature sensor/two (2) built-in pressure transducer and two (2) signal input, complete with accessories		1	unit	
Saddle Clamp	150mmØ x 50mmØ	2	pcs	

Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	32	pcs	
Rubber Gasket	1/4" thk.	3	kgs	
D. AIR RELEASE VALVE/ ARV INSTALLATON				
Air Release Valve/Air Valve: Body made of high strength plastic (reinforced nylon), pressure rating – PN 16 (232 psi), base reinforced nylon, connection reinforced nylon	25mmØ	1	pc	
BI Coupling FTE X FTE	25mmØ	1	pc	
Male Adaptor 90° Bend (Push-In), MTE x SE	25mmØ x 90°	1	pc	
Female Adaptor 90° Bend (Push-In), FTE x SE	25mmØ x 90°	1	pc	
PE Tube, SDR 9, ISO	25mmØ	6	m	
GS Nipple, Sch. 40, MTE x MTE	25mmØ x 0.5mm	1	pc	
Brass Straight Ball Valve w/ Lockwing, FTE x FTE	25mmØ	1	pc	
Deformed Bar	12mmØ x 6m	4	lgths	
Stainless Rod		2	pcs	
Welding Rod	E6012	3	kgs	
E. INSTRUMENTATION BOX WITH BARRICADE				
Instrumentation Box (Fiber Reinforced Plastic Box; L=450mm; W= 350mm; H = 500mm); Thickness= 6mm; Electromagnetic meter converter/ data logger adjustable hook and slot in 50mmØ PVC electrical conduit, FRP		1	set	
Pipe Electrical Conduit, PVC, PE X PE	50mmØ x 6m	1	lgth	
G.I. Pipe, Sched. 40	100mmØ x 6m x 7.11mm thk.	1	lgth	
Pipe Electrical Conduit long radius bend, PVC, 90° SE X SE	50mmØ x 90°	1	pc	
Angle Bar	1 1/2" x 1 1/2" x 6mm x 20'	2	lgths	
Galvanized Square Wire Mesh Screen	50mm x 50mm x 4.5mmØ x 9m	1	roll	
Hinge	75mm x 75mm x 4.76mm thk.	2	pcs	
Heavy Duty Padlock w/ Keys		1	pc	
Flat Bar	1" x 1/4" thk. X 20'	1	lgth	
Bolts and Nuts	12mmØ x 50mm	4	pcs	
Deformed Bar	12mmØ x 6m	2	lgths	
	10mmØ x 6m	2	lgths	
G.I. Tie Wire	GA #16	1	kg	
Quick Dry Enamel	Delft Blue	4	qrts	
	Yellow	1	qrt	
	Black	1	qrt	
Latex Paint	Black	1	qrt	
	Yellow	1	qrt	
Paint Thinner		1	qrt	
Concrete Neutralizer		1	qrt	
Paint Brush	3"	2	pcs	
Portland Cement	40kg/bag	3	bags	
Washed Sand		1	cu.m	
Crushed Gravel		1	cu.m	

F. MOTHER METER AND PRV CHAMBER WITH MANHOLE COVER

Deformed Bar	10mmØ x 6m	7	lgths	
	12mmØ x 6m	255	lgths	
Plain Round Bar	10mmØ x 6m	1	lgth	
G.I. Tie Wire	GA #16	10	kgs	
Portland Cement	40kg/bag	65	bags	
Washed Sand		4	cu.m	
Crushed Gravel	¾"	8	cu.m	
PVC Water Stop	150mm x 100mm	1	lgth	
MS Plate, for Manhole Cover	4' x 8' x ¼" thk.	1	sht	
Heavy Duty Padlock w/ Keys		1	pc	
Angle Bar	2" x 2" x 6mm x 20'	1	lgth	
Welding Rod	E6012	2	kgs	
G.I Pipe	¾"	1	lgth	
Rubber Gasket		2	kgs	
Epoxy A & B Adhesive		1	lit	
Coco Lumber	2" x 2" x 12'	35	lgths	
Ordinary Plywood	4' x 8' x ½" thk.	18	shts	
CWN	3"	6	kgs	
	1"	5	kgs	
Waterproofing Compound	Sahara	20	bags	

G. FOR CONSUMABLES

Welding Gloves		2	pairs	
Working Gloves / Natural Rubber Gloves		8	pairs	
Chalkstone		8	pcs	
Sand Paper	No. 120	8	sheets	
Grinding Disc	4"	4	pcs	

TUSCANIA SUBDIVISION, KAUSWAGAN, CDOC**A. 150mmØ PIPELINE BY-PASS LINE**

Resilient Gate Valve for water, two (2) stages of double O-ring, ductile iron/epoxy coated body, stainless steel shaft, flange type, non-rising stem, complete with accessories	150mmØ	3	pcs	
Universal Adaptor, CI/DI, FE x MJ	150mmØ	4	pcs	
uPVC Pipe, Class 150, Series 8	150mmØ x 6m	2	lgths	
uPVC Elbow, Single Hub w/ O-ring	150mmØ x 90°	2	pcs	
uPVC Pipe Casing	150mmØ x 6m	1	lgth	
Valve Box Cover	150mmØ x 6m x 9.20mm thk.	3	pcs	
Steel Bend w/ Ring Flange @ both ends	150mmØ x 45°	4	pcs	
Steel Nipple w/ Ring Flange @ both ends	150mmØ x 300mm	3	pcs	
	150mmØ x 500mm	2	pcs	
Mechanical Flange Tee	150mmØ x 150mmØ	2	pcs	
Sleeve Type Coupling, MJ X MJ	150mmØ	1	pc	
Capscrew w/ Nut and Lock & Washer, full threaded	¾"Ø x 3"	60	pcs	
Rubber Gasket	¼" thk.	14	kgs	

Hard Coal Tar		12	kgs	
Washed Sand (Sand Bedding)		1	cu.m	
Backfill Material		2.5	cu.m	
B. ONE (1) UNIT 50mmØ MOTHER METER ASSEMBLY				
Steel Reducer w/ Ring Flange @ both ends	150mmØ x 50mmØ	2	pcs	
Steel Nipple w/ Ring Flange @ both ends	50mmØ x 250mm	1	pc	
	50mmØ x 150mm	1	pc	
Electromagnetic Flowmeter Process Connection: Flange ANSI 16.5, C150; Linear Material: EPDM; Electrode Material: Hastelloy w/ 10m remote mounted sensor cables and plugs; Communications: Serial RS 485 Interference Module Modbus RTU; Supply: Internal Battery packed installed and connected 2 D-Cell's inside meter; Flow Unit: m³/h; Volume Unit: m³; Totalizer: Uni-Directional Forward Flowing	50mmØ	1	set	TO BE PROVIDED BY COWD
Strainer Basket, FE X FE	50mmØ	1	pc	
Capscrew w/ Nut and Lock & Washer, full threaded	5/8"Ø x 3"	40	pcs	
Rubber Gasket	¼" thk	2	kgs	
Quick Dry Enamel	Delft Blue	1	qrt	
Paint Thinner		1	bot	
Paint Brush	4"	1	pc	
C. ONE (1) UNIT 150mmØ PRESSURE REGULATING VALVE (PRV) ASSEMBLY				
Steel Nipple w/ Ring Flange @ both ends	150mmØ x 400mm	2	pcs	
Pressure Regulating Valve (PRV), FE X FE	150mmØ	1	pc	
SMS Data Logger, Two (2) built-in pressure 0-20 bars with programmable resolution/with built-in temperature sensor/two (2) built-in pressure transducer and two (2) signal input, complete with accessories		1	unit	
Saddle Clamp	150mmØ x 50mmØ	2	pcs	
Capscrew w/ Nut and Lock & Washer, full threaded	¾"Ø x 3"	32	pcs	
Rubber Gasket	¼" thk.	3	kgs	
D. AIR RELEASE VALVE/ ARV INSTALLATON				
Air Release Valve/Air Valve: Body made of high strength plastic (reinforced nylon), pressure rating- PN 16 (232 psi), base reinforced nylon, connection reinforced nylon	25mmØ	1	pc	
BI Coupling FTE X FTE	25mmØ	1	pc	
Male Adaptor 90° Bend (Push-In), MTE x SE	25mmØ x 90°	1	pc	
Female Adaptor 90° Bend (Push-In), FTE x SE	25mmØ x 90°	1	pc	
PE Tube, SDR 9, ISO	25mmØ	6	m	
GS Nipple, Sch. 40, MTE x MTE	25mmØ x 0.5mm	1	pc	
Brass Straight Ball Valve w/ Lockwing, FTE x FTE	25mmØ	1	pc	
Deformed Bar	12mmØ x 6m	4	lgths	
Stainless Rod		2	pcs	
Welding Rod	E6012	3	kgs	

E. INSTRUMENTATION BOX WITH BARRICADE

Instrumentation Box (Fiber Reinforced Plastic Box; L=450mm; W= 350mm; H = 500mm); Thickness= 6mm; Electromagnetic meter converter/ data logger adjustable hook and slot in 50mmØ PVC electrical conduit, FRP		1	set	
Pipe Electrical Conduit, PVC, PE X PE	50mmØ x 6m	1	lgth	
G.I. Pipe, Sched. 40	100mmØ x 6m x 7.11mm thk.	1	lgth	
Pipe Electrical Conduit long radius bend, PVC, 90 ° SE X SE	50mmØ x 90°	1	pc	
Angle Bar	1 ½" x 1 ½" x 6mm x 20'	2	lgths	
Galvanized Square Wire Mesh Screen	50mm x 50mm x 4.5mmØ x 9m	1	roll	
Hinge	75mm x 75mm x 4.76mm thk.	2	pcs	
Heavy Duty Padlock w/ Keys		1	pc	
Flat Bar	1" x ¼" thk. X 20'	1	lgth	
Bolts and Nuts	12mmØ x 50mm	4	pcs	
Deformed Bar	12mmØ x 6m	2	lgths	
	10mmØ x 6m	2	lgths	
G.I. Tie Wire	GA #16	1	kg	
Quick Dry Enamel	Delft Blue	4	qrts	
	Yellow	1	qrt	
	Black	1	qrt	
Latex Paint	Black	1	qrt	
	Yellow	1	qrt	
Paint Thinner		1	qrt	
Concrete Neutralizer		1	qrt	
Paint Brush	3"	2	pcs	
Portland Cement	40kg/bag	3	bags	
Washed Sand		1	cu.m	
Crushed Gravel		1	cu.m	

F. MOTHER METER AND PRV CHAMBER WITH MANHOLE COVER


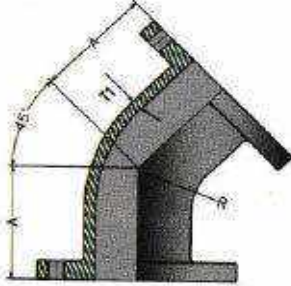
Deformed Bar	10mmØ x 6m	7	lgths	
	12mmØ x 6m	255	lgths	
Plain Round Bar	10mmØ x 6m	1	lgth	
G.I. Tie Wire	GA #16	10	kgs	
Portland Cement	40kg/bag	65	bags	
Washed Sand		4	cu.m	
Crushed Gravel	¾"	8	cu.m	
PVC Water Stop	150mm x 100mm	1	lgth	
MS Plate, for Manhole Cover	4' x 8' x ¼" thk.	1	sht	
Heavy Duty Padlock w/ Keys		1	pc	
Angle Bar	2" x 2" x 6mm x 20'	1	lgth	
Welding Rod	E6012	2	kgs	
G.I Pipe	¾"	1	lgth	
Rubber Gasket		2	kgs	
Epoxy A & B Adhesive		1	lit	

Coco Lumber	2" x 2" x 12'	35	lgths	
Ordinary Plywood	4' x 8' x ½" thk.	18	shts	
CWN	3"	6	kgs	
	1"	5	kgs	
Waterproofing Compound	Sahara	20	bags	
G. FOR CONSUMABLES				
Welding Gloves		2	pairs	
Working Gloves / Natural Rubber Gloves		8	pairs	
Chalkstone		8	pcs	
Sand Paper	No. 120	8	sheets	
Grinding Disc	4"	4	pcs	

TECHNICAL SPECIFICATIONS FOR IDENTIFIED MAJOR ITEMS

The following images are provided for reference only. We are not specifying/endorsing any particular brand of equipment/material/fittings. IT IS STRONGLY ADVISED TO STRICTLY FOLLOW THE TABLE OF MATERIAL (with dimension and end connection specifications) AND MATERIAL SPECIFICATIONS PROVIDED.

BEND 45°

Material Type	Cast Iron/Ductile Iron	
End Connection	FE x FE	
 		

REDUCER

Material Type	Cast Iron / Ductile Iron	
End Connection	FE x FE	
		

SHORT PIPE (FLANGE NIPPLE)

Material Type	Cast Iron / Ductile Iron	
End Connection	FE x FE	
Others	Shall be suitable in contact with potable water and shall comply with the requirements of ANSI/NSF 61	
	Shall be manufactured and tested in accordance with ISO 4427	

Base compound material designation shall be PE 100 as listed in ISO 4427, with corresponding minimum required strength (MRS) at 50 years and 20oC of 10 Mpa and maximum allowable hydrostatic design stress of 8 Mpa	
Pipe density shall be 0.941 g/ml minimum	
Carbon Black Content of the pipe shall be 2.0% minimum	
Pipe Tensile Strength at Break shall be 20.0 Mpa minimum	
Pipe Elongation at Break shall be 350% minimum	
Dimensional requirements shall be as specified in the table below when tested in accordance with ISO 3126:	

Nominal Outside Diameter, mm	Outside Diameter, mm		Wall Thickness, mm		SDR	Pressure Rating
	Min.	Max.	Min.	Max.		
25mm	25.0	25.3	2.3	2.7	SDR 11	PN16
63mm	63.0	63.6	7.1	8.5	SDR 9	PN20

Dimensional Requirements for PE pipes

Shall conform to the hydrostatic strength indicated in the table below under the specified conditions when tested in accordance with ISO1167:

Duration	Temperature, °C	Test Stress, MPa
100 hrs.	20	12.4
165 hrs.	80	5.5
1000 hrs.	80	5.0

Hydrostatic Pressure Test for PE Pipe

The value for the longitudinal reversion shall not be greater than 3% when tested in accordance with ISO 2505-1, method A or B, at 110 ± 2oC for the duration specified in the table below:

	Method A (Using Liquid Bath)	Method B (Using Air Oven)
Duration (min.)	30	60 for $e \leq 8$ 120 for $8 < e \leq 16$ 240 for $e > 16$
e is the wall thickness in mm		

Exposure Duration for Longitudinal Reversion for PE pipes



AIR RELEASE VALVE		
Material Type	Ductile Iron	
Dimension	MTE	
Others	Shall be combination air valve	
	Shall be able to discharge air during filling or charging of the system	
	Shall be able to admits air to the system while being emptied of water	
	Shall be able to discharge accumulated air from the system while the system is under pressure and operating	
	Valve bodies, covers and baffles shall be ductile iron as specified for gate valves	
	Valve is float actuated, floats shall be stainless steel, Type 302, 304 or 306 conforming to ASTM A240/A240M, or foamed polypropylene	
	All interior parts such as float guides, bushings and baffle retaining screws shall be of stainless steel, bronze or nylon fiberglass reinforced	
	Flange end connections of air release valves shall conform with ISO 7005 PN16 while threaded end connections shall conform with ISO 7/ISO 228	
		
GATE VALVE W/ OPERATING NUT		
Material Type	Cast Iron/Ductile Iron	
End Connection	FE x FE	
Others	shall be designed to provide a clear bore through the valve when fully open	
	shall be equipped with a nut and shall open by turning the nut in a counterclockwise direction when viewed from the top after installation	
	shall be in accordance with ISO 7259	
	shall be designed to withstand a minimum working pressure of 16bars	
	shall be resilient seated, non-rising stem, straight through bore unobstructed waterway design and with integrally cast double-flanged bodies	
	shall have a face to face dimensions in accordance with ISO 5752, series 14 / EN 558-1 series 14 and 15	
	body and bonnet shall be made of ductile iron in compliance with ISO 1083 or ASTM A536 or cast iron in accordance with ASTM A126 Class B	
	wedge shall be made of ductile iron in compliance with ISO 1083 or ASTM A536 and shall be fully encapsulated inside and outside with a vulcanized SBR or EPDM rubber	
	body and bonnet shall be assembled with countersunk sealed bolts	
	valve stem with rolled-on thread shall be stainless steel conforming to ASTM A276, Type 316	
	wedge and stem coupling nut shall be made of brass or bronze in accordance with AWWA C509, Grade A, D or E	
	Valves bigger than DN 200 shall have additional axial roller bearings to	

	reduce friction and operating torques to enable an easy manual operation of the valves by one person	
	Gate valves shall be equipped with a 50-mm square-operating nuts with arrow for opening direction and shall open by turning in a counterclockwise direction when viewed from the top	

**UPVC PIPE**

Material Type	uPVC	
End Connection	PO X PE	
Others	With rubber gasket	
	Pipes and fittings, unless otherwise specified, shall conform with PNS 65 and/or ISO 4422.	
	Base compound material shall conform to the applicable requirements of ISO 4422; with minimum required strength (MRS) at 50 years and at 20°C of at least 25 Mpa (3625 psi), and with maximum allowable hydrostatic design stress of 10Mpa (1450 psi).	
	The extracted quantities of lead or tin measured as metals in accordance with ISO 3114 shall not exceed the limits specified in the table below. Likewise, cadmium and mercury shall not be more than the limits indicated in ISO 6992.	

Toxic Substances	Maximum Limits (mg/L)
Lead, mg/L	0.05
Di-alkyl Tin, C4, and other higher monologues measured as tin, mg/L	0.02
Cadmium, mg/L	0.01
Mercury, mg/L	0.001

Limits of Extractable Toxic Substances for uPVC

	Pipes and fittings shall be classified as Series 8 of ISO 4422, with nominal working pressure of 1.25 Mpa (181 psi).	
	Pipe dimensional requirements shall be as specified in table below when tested in accordance with ISO 3126.	

Nominal Pipe Size, mm	Nominal Outside Diameter, mm	Outside Diameter, mm		Wall Thickness, mm		Tolerance on Ovality, mm	Minimum Depth of Engagement, mm
		Min.	Max.	Min.	Max.		
50	63	63	63.3	3.8	4.4	1.5	64
75	90	90	90.3	5.4	6.2	1.8	70
100	110	110	110.4	6.6	7.6	2.2	75
150	160	160	160.5	9.5	10.9	3.2	86
200	225	225	225.7	13.4	15.4	4.5	100
250	280	280	280.9	16.6	19.1	9.8	112
300	355	355	356.1	21.1	24.3	12.4	124

Dimensional Requirements for uPVC pipe

Pipes shall be 6m in length with tolerance of +20mm

No Negative tolerance is allowed

Pipes spigot ends shall be chamfered in accordance with PNS 65

Pipe color shall be extruded blue, nearest to RAL 5012, and shall be uniformly dispersed throughout the entire surface.

Pipes shall not show signs of delamination or disintegration when immersed in acetone

The value for the longitudinal reversion shall not be greater than 5% when tested in accordance with ISO 2505-1, method A or B, at $150 \pm 2^\circ\text{C}$ for the duration specified in the table below.

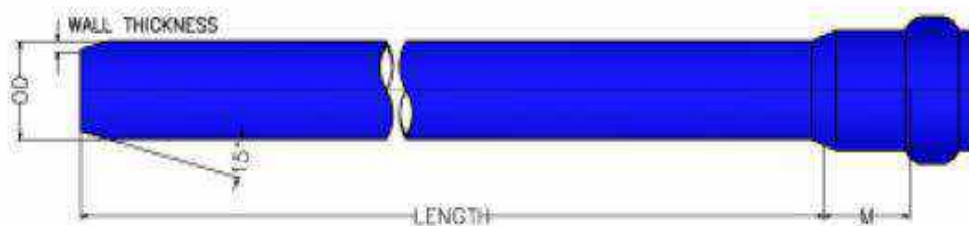
Duration (min.)	Method A (Using Liquid Bath)	Method B (Using Air Oven)
	15 for $e \leq 8$ 30 for $e > 8$	60 for $e \leq 8$ 120 for $8 < e \leq 16$ 240 for $e > 16$

Exposure Duration for Longitudinal Reversion for uPVC pipe

Pipes shall withstand the test pressures indicated in the table below under the specified conditions when tested in accordance with ISO 1167.

Test	Minimum Duration	Temp., $^\circ\text{C}$	Test Pressure MPa (psi)
Burst Pressure Test	60 sec.	28	5.0 (725)
Short Term Pressure Test	1 hr.	28	4.9 (710)
Long Term Pressure Test	100 hrs.	28	4.0 (580)
Sustained Pressure Test	1000 hrs.	60	1.5 (218)

Hydrostatic Pressure Test for uPVC pipe



SURFACE BOX COVER FOR GATE VALVE/VALVE BOX COVER

Material Type	Cast Iron	
Dimension	150mm	

**RING FLANGE**

Material Type	Cast Iron/Ductile Iron	
End Connection	FE x Blank	
Others	All flange-end connections of fittings shall be cast integrally and shall conform to ISO 7005 PN16.	

NOMINAL SIZE	OUTSIDE DIAMETER, A	BOLT CENTER DIAMETER, B	BOLT HOLE DIAMETER, C	NO. OF BOLTS	SIZE OF BOLTS	THICKNESS, D		THICKNESS, E	
						STEEL	CI	STEEL	CI
50	165	125	18	4	15	20	20	20	20
75/80	200	160	18	8	16	20	22	20	22
100	220	180	18	8	16	22	24	22	24
150	285	240	22	8	20	24	26	24	26
200	340	295	22	12	20	26	30	24	30
250	405	355	26	12	24	28	32	26	32
300	460	410	26	12	24	32	32	28	32
350	520	470	26	16	24	33	36	30	36
400	580	525	29.5	16	27	38	38	32	38
450	640	585	29.5	20	27	42	40	40	40
500	715	650	32.5	20	30	46	42	44	42
600	840	770	35.5	20	33	52	48	54	48

NOTE: All dimensions are in millimeters

Flange detail per ISO 7005, PN 16

FLANGE RING WITH THREAD

Material Type	Cast Iron/Ductile Iron	
End Connection	FE x Blank	
Others	All flange-end connections of fittings shall be cast integrally and shall conform to ISO 7005 PN16.	

**TEE**

Material Type	Cast Iron/Ductile Iron	
End Connection	FE x FE	

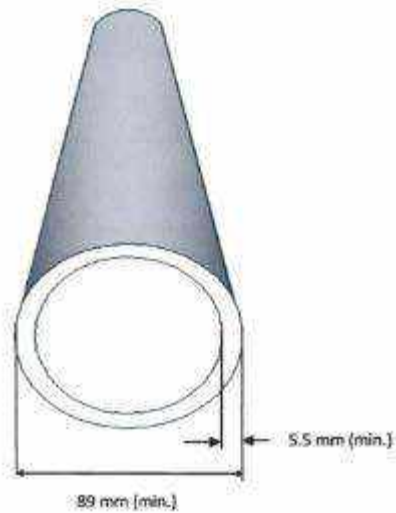
**UNIVERSAL ADAPTOR**

Material Type	Cast Iron/Ductile Iron	
End Connection	FE x MJ	

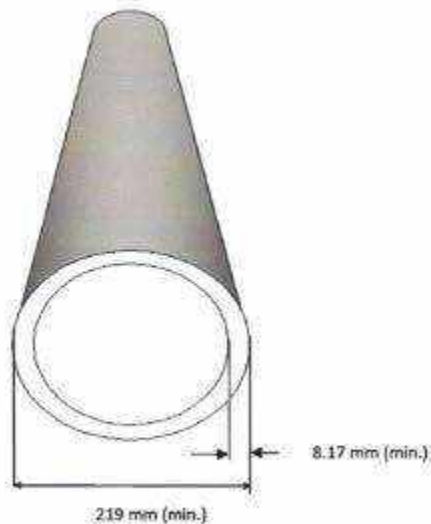
Nominal Size (inch)	Nominal Size (mm)	Outside Diameter Pipe Range (mm)
2	50	49 – 64
3	75	88 – 103
4	100	109 – 128
6	150	159 – 182
8	200	218 – 235
10	250	272 – 289
12	300	335 – 368

**B.I PIPE 75mmØ**

Material Type	Black Iron	
Size	75mmØ	
Outside Diameter	89mm (minimum)	
Wall Thickness	5.5mm (minimum)	
Working Pressure	150 psi	

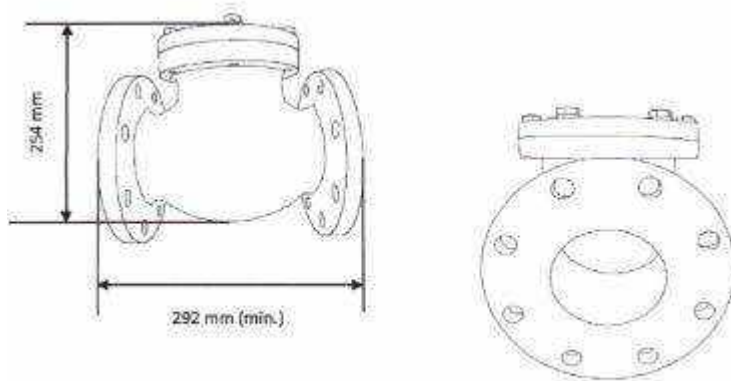
**B.I PIPE 200mmØ**

Material Type	Black Iron	
Size	200mmØ	
Outside Diameter	219 mm (minimum)	
Wall Thickness	8.17 mm (minimum)	
Working Pressure	150 psi	

**CHECK VALVE**

Type	Swing	
End Connection	FE x FE	
Body	Ductile Iron	
Body Markings	Embossed	
Cover	Ductile Iron	

Disc	Bronze/Copper	
Cover Bolt	Stainless Steel	
Length	292 mm (minimum)	
Height	254 mm (minimum)	
No. of Bolt Holes	8 (minimum)	

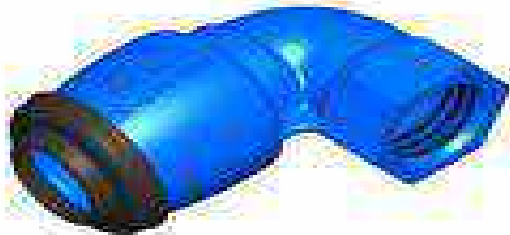

**MALE ADAPTOR, 90° BEND (PUSH-IN)**

Material Type	Ductile Iron	
End Connection	MTE X SE	

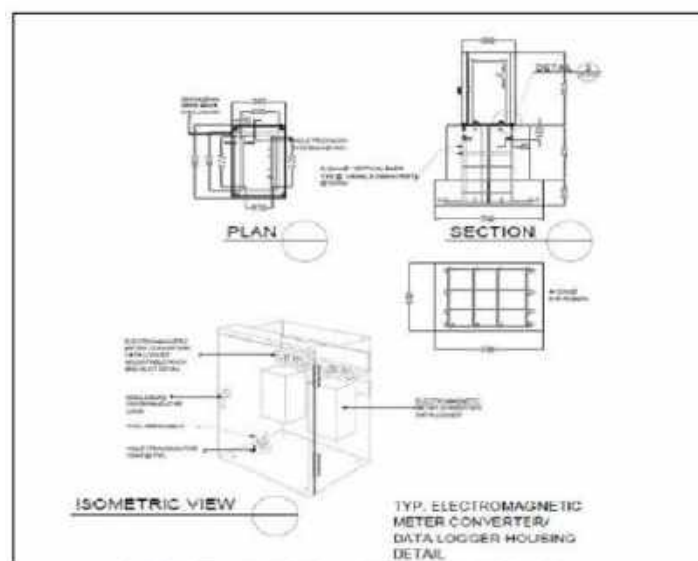
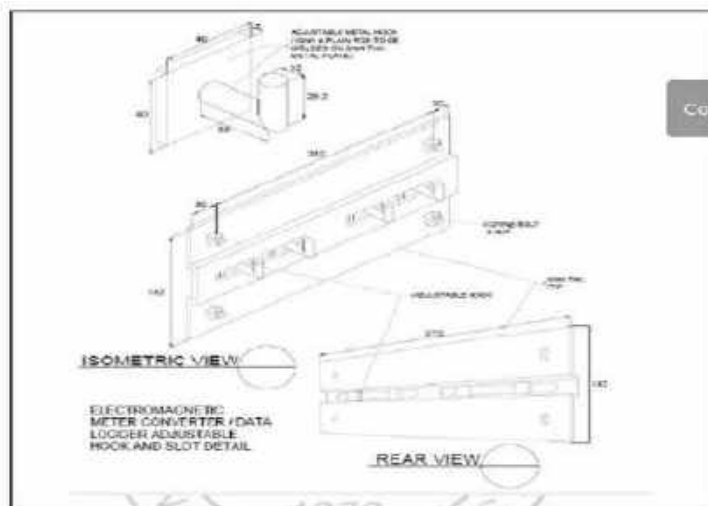
Pipe DN	Pipe OD	Thread
20	25	¾"
25	32	1"
32	40	1 ¼"
40	50	1 ½"
50	63	2"

**FEMALE ADAPTOR, 90° BEND (PUSH-IN)**

Material Type	Ductile Iron	
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End Connection	FTE X SE																			
<table border="1"> <thead> <tr> <th>Pipe DN</th><th>Pipe OD</th><th>Thread</th></tr> </thead> <tbody> <tr> <td>20</td><td>25</td><td>¾"</td></tr> <tr> <td>25</td><td>32</td><td>1"</td></tr> <tr> <td>32</td><td>40</td><td>1 ¼ "</td></tr> <tr> <td>40</td><td>50</td><td>1 ½"</td></tr> <tr> <td>50</td><td>63</td><td>2"</td></tr> </tbody> </table> 			Pipe DN	Pipe OD	Thread	20	25	¾"	25	32	1"	32	40	1 ¼ "	40	50	1 ½"	50	63	2"
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50	63	2"																		
STRAIGHT BALL VALVE WITH LOCKWING																				
Material Type	BRASS																			
End Connection	MTE X FTE																			
<table border="1"> <thead> <tr> <th>Pipe DN</th><th>Pipe OD</th><th>Thread</th></tr> </thead> <tbody> <tr> <td>20</td><td>25</td><td>¾"</td></tr> <tr> <td>25</td><td>32</td><td>1"</td></tr> <tr> <td>32</td><td>40</td><td>1 ¼ "</td></tr> <tr> <td>40</td><td>50</td><td>1 ½"</td></tr> <tr> <td>50</td><td>63</td><td>2"</td></tr> </tbody> </table> 			Pipe DN	Pipe OD	Thread	20	25	¾"	25	32	1"	32	40	1 ¼ "	40	50	1 ½"	50	63	2"
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50	63	2"																		
INSTRUMENTATION BOX																				
Material Type	Fiber Reinforced Plastic Box																			
Size	L=450mm; W= 250mm; H=500mm																			

Thickness	6mm																				
Others	One-50mmØ-hole FRP																				
	Electromagnetic meter converter/data logger adjustable hook and slot																				
	<table><tr><th>Pipe DN</th><th>Pipe OD</th><th>Thread</th></tr><tr><td>20</td><td>25</td><td>¾"</td></tr><tr><td>25</td><td>32</td><td>1"</td></tr><tr><td>32</td><td>40</td><td>1 ¼ "</td></tr><tr><td>40</td><td>50</td><td>1 ½"</td></tr><tr><td>50</td><td>63</td><td>2"</td></tr></table>		Pipe DN	Pipe OD	Thread	20	25	¾"	25	32	1"	32	40	1 ¼ "	40	50	1 ½"	50	63	2"	
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50	63	2"																			

**Saddle Clamp for uPVC/HDPE**

Material Type	Ductile Iron	
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Pipe DN	Pipe OD	Thread
20	25	¾"
25	32	1"
32	40	1 ¼"
40	50	1 ½"
50	63	2"

**MALE ADAPTOR, 45° BEND (PUSH-IN)**

Material Type	Ductile Iron	
End Connection	MTE X SE	

Pipe DN	Pipe OD	Thread
20	25	¾"
25	32	1"
32	40	1 ¼"
40	50	1 ½"
50	63	2"

**STRAIGHT BALL VALVE WITH LOCKWING**

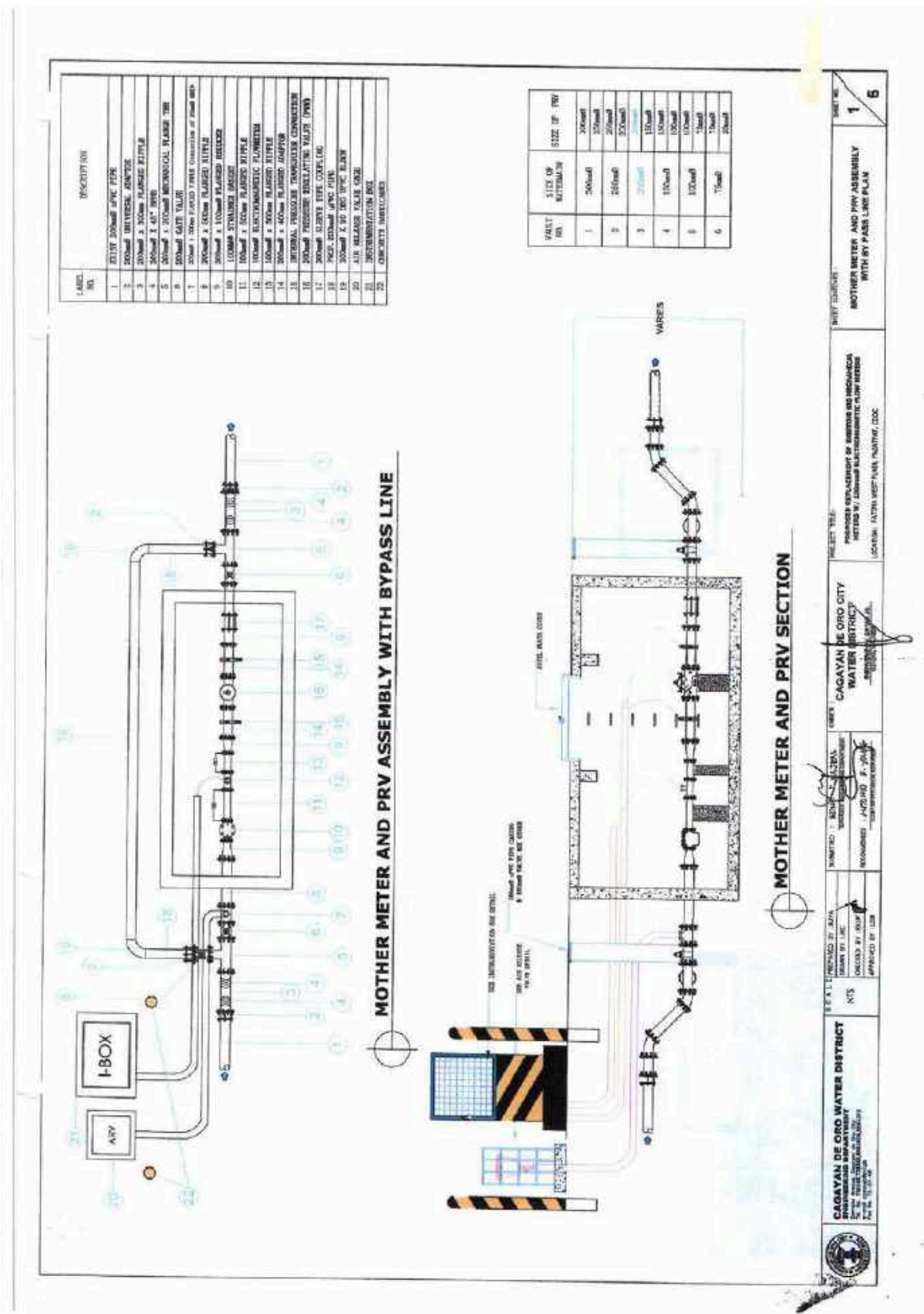
Material Type	BRASS	
End Connection	FTE X FTE	



Section VII. Drawings

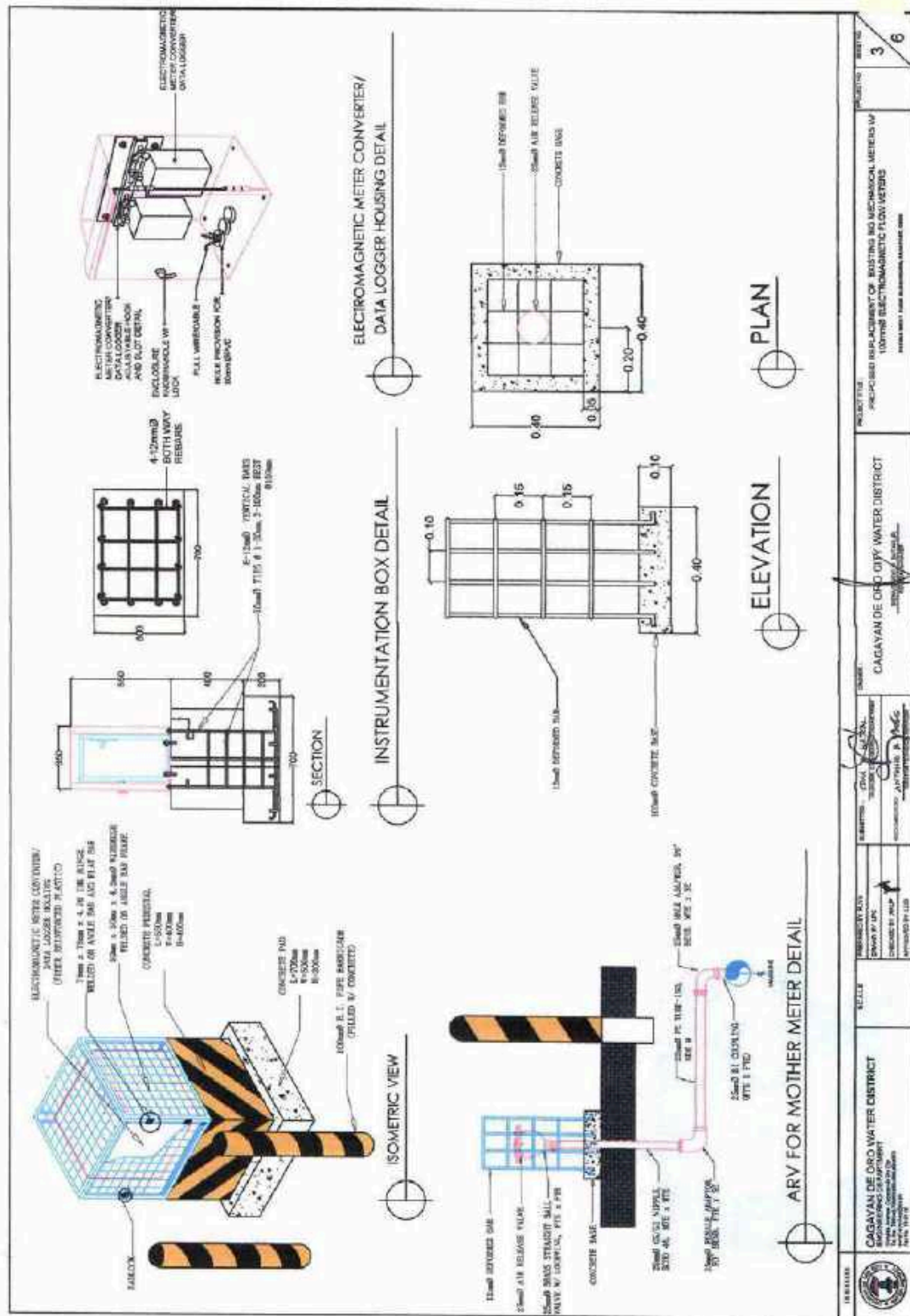


FATIMA WEST PLAIN SUBDIVISION, PAGATPAT





FATIMA WEST PLAIN SUBDIVISION, PAGATPAT







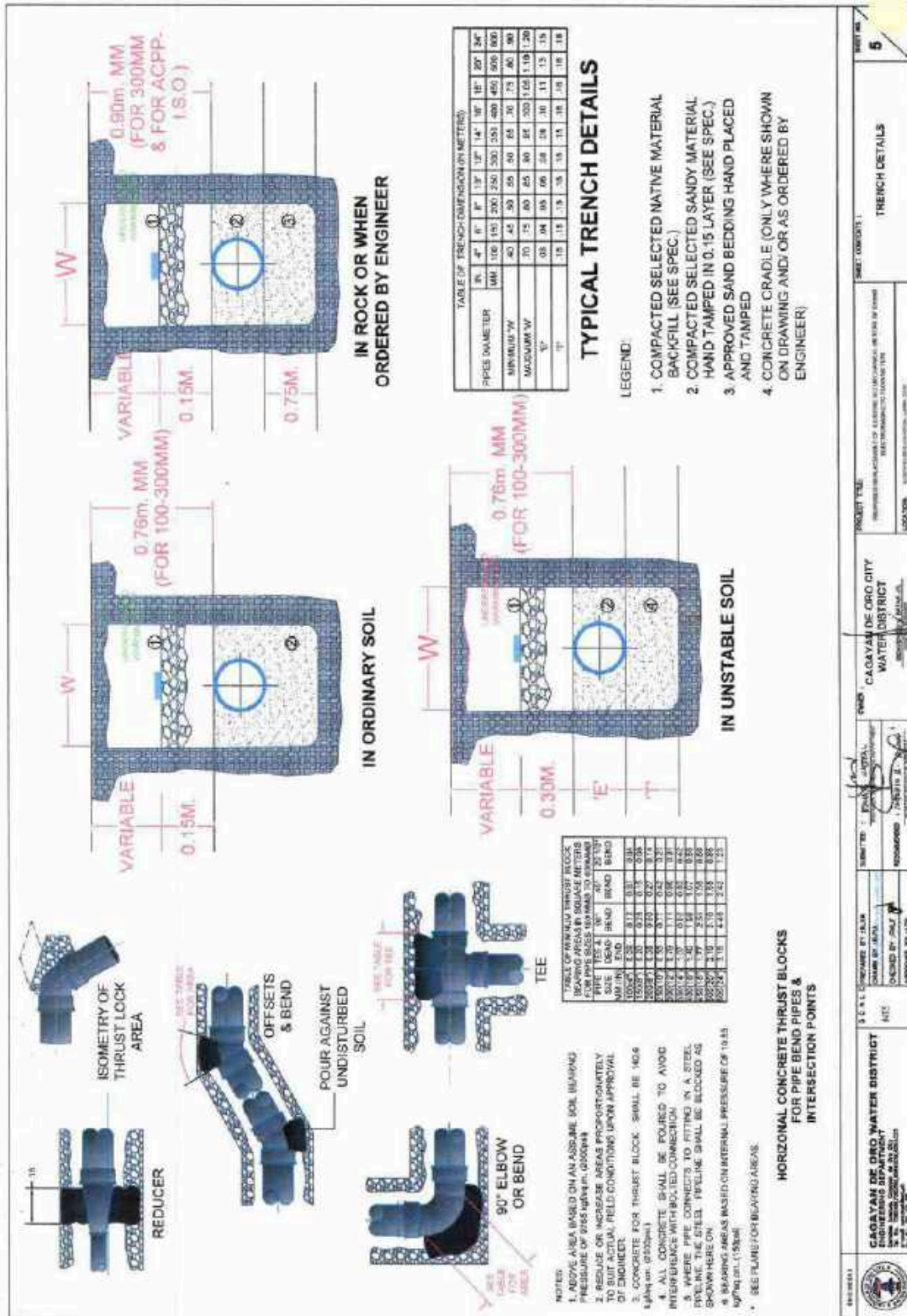








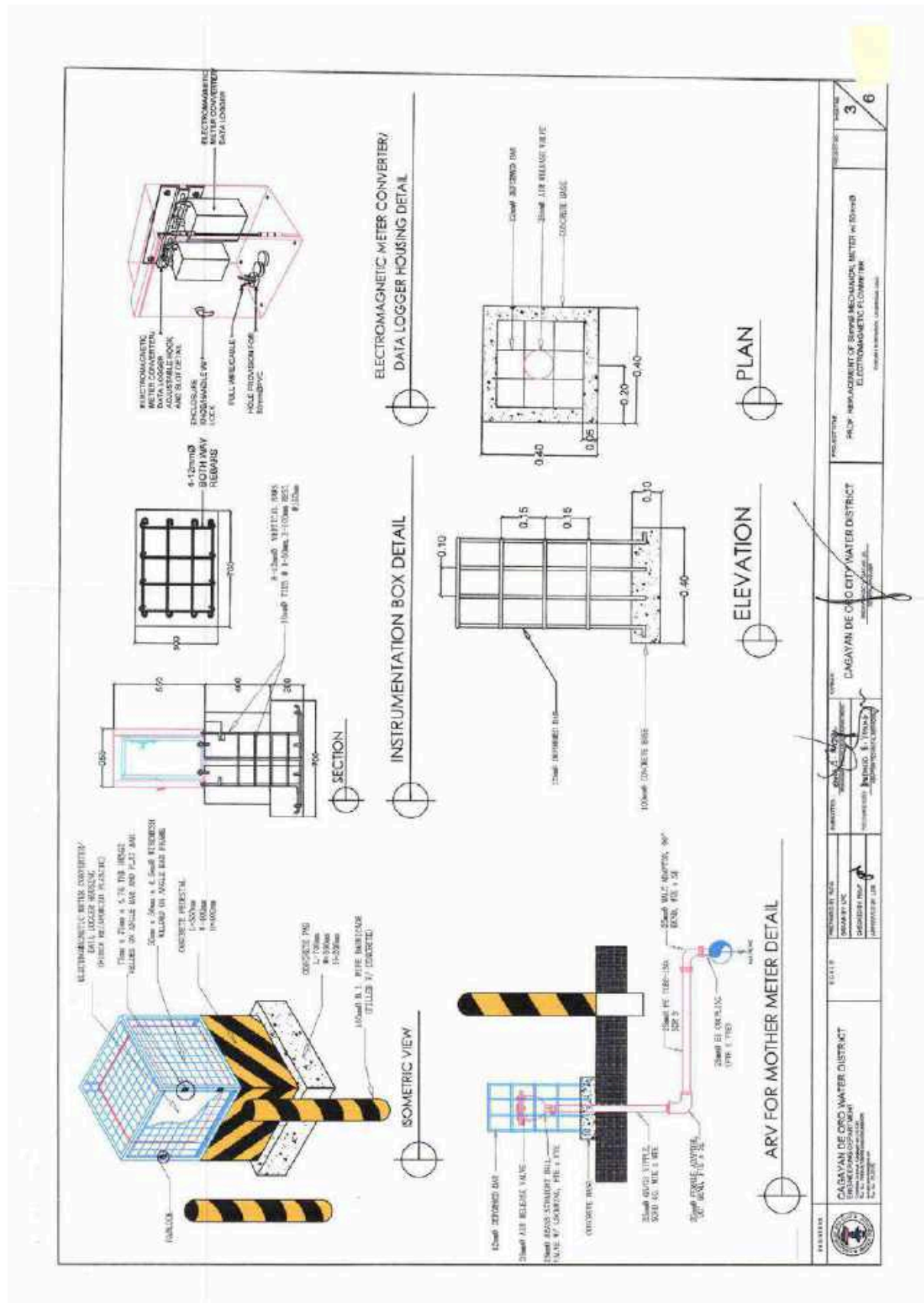
BLOOMFIELDS SUBDIVISION, LUMBIA







TUSCANIA SUBDIVISION, KAUSWAGAN









Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

Daywork Schedule

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

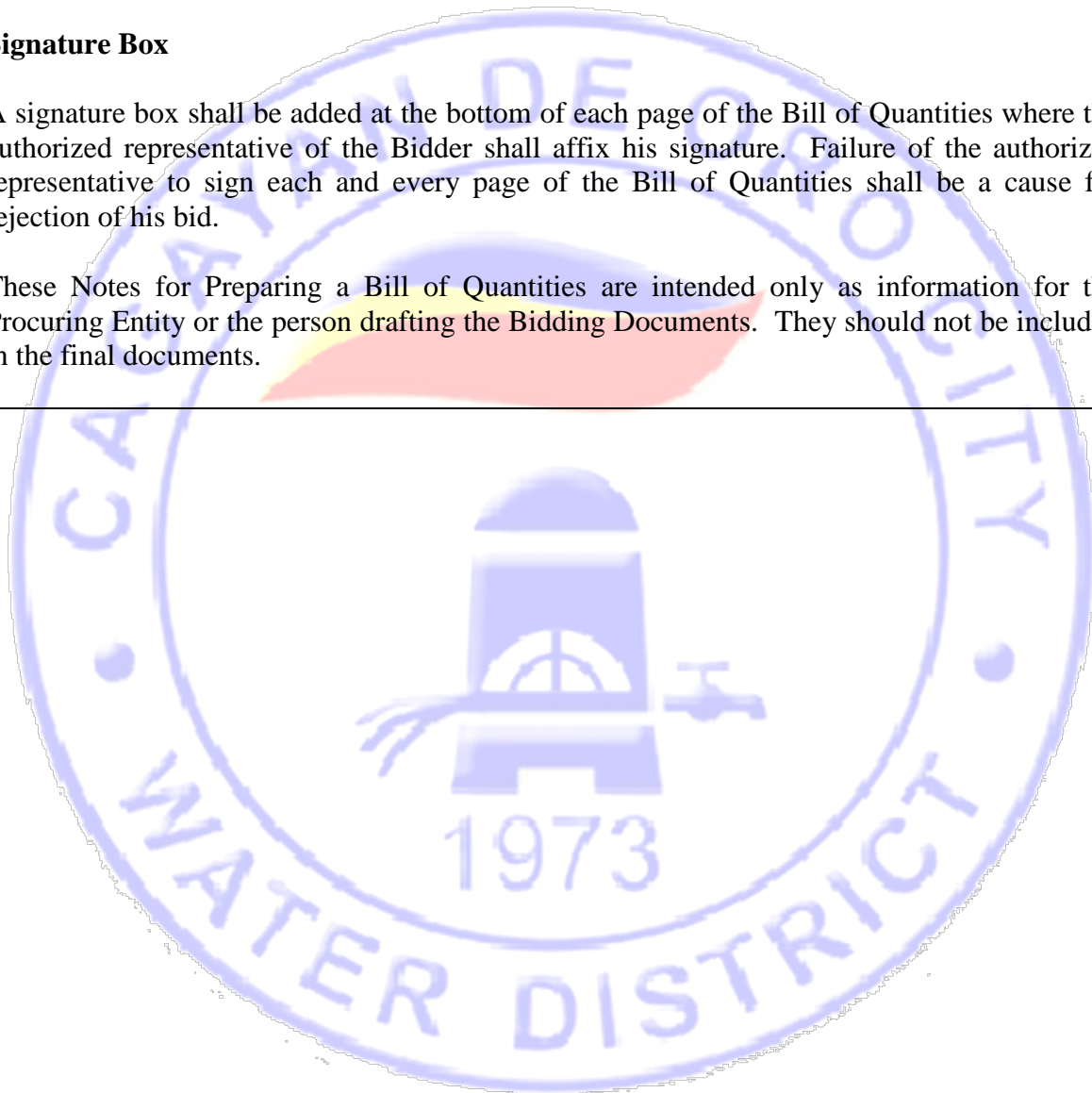
A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

Signature Box

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.



Bill of Quantities

PR NO. 22-06-07-0082-REBIDDING – 1 LOT REPLACEMENT OF BIG MECHANICAL METERS INSTALLED AT VARIOUS SUBDIVISIONS IN CAGAYAN DE ORO CITY WITH ELECTROMAGNETIC FLOW METERS				
FATIMA WEST PLAIN SUBDIVISION, PAGATPAT, CDOC				
DESCRIPTION	SIZE	QTY	UNIT	
A. 200mmØ PIPELINE BY-PASS LINE				
Resilient Gate Valve for water, two (2) stages of double O-ring, ductile iron/epoxy coated body, stainless steel shaft, flange type, non-rising stem, complete with accessories	200mmØ	3	pcs	
Universal Adaptor, CI/DI, FE x MJ	200mmØ	4	pcs	
uPVC Pipe, Class 150, Series 8	200mmØ x 6m	2	lgths	
uPVC Elbow, Single Hub w/ O-ring	200mmØ x 90°	2	pcs	
uPVC Pipe Casing	150mmØ x 6m	1	lgth	
Valve Box Cover	150mmØ x 6m x 9.20mm thk.	3	pcs	
Steel Bend w/ Ring Flange @ both ends	200mmØ x 45°	4	pcs	
Steel Nipple w/ Ring Flange @ both ends	200mmØ x 300mm	3	pcs	
	200mmØ x 500mm	2	pcs	
Mechanical Flange Tee	200mmØ x 200mmØ	2	pcs	
Sleeve Type Coupling, MJ X MJ	200mmØ	1	pc	
Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	60	pcs	
Rubber Gasket	1/4" thk	20	kgs	
Hard Coal Tar		12	kgs	
Washed Sand (Sand Bedding)		1	cu.m	
Backfill Material		3	cu.m	
B. ONE (1) UNIT 100mmØ MOTHER METER ASSEMBLY				
Steel Reducer w/ Ring Flange @ both ends	200mmØ x 100mmØ	2	pcs	
Steel Nipple w/ Ring Flange @ both ends	100mmØ x 500mm	1	pc	
	100mmØ x 300mm	1	pc	
Electromagnetic Flowmeter Process Connection: Flange ANSI 16.5, C150; Linear Material: EPDM; Electrode Material: Hastelloy w/ 10m remote mounted sensor cables and plugs; Communications: Serial RS 485 Interference Module Modbus RTU; Supply: Internal Battery packed installed and connected 2 D-Cell's inside meter; Flow Unit: m³/h; Volume Unit: m³; Totalizer: Uni-Directional Forward Flowing	100mmØ	1	set	TO BE PROVIDED BY COWD
Strainer Basket, FE X FE	100mmØ	1	pc	
Capscrew w/ Nut and Lock & Washer, full threaded	5/8"Ø x 3"	40	pcs	
Rubber Gasket	1/4" thk.	2	kgs	
Quick Dry Enamel	Delft Blue	1	qrt	
Paint Thinner		1	bot	
Paint Brush	4"	1	pc	
C. ONE (1) UNIT 200mmØ PRESSURE REGULATING VALVE (PRV) ASSEMBLY				
Steel Nipple w/ Ring Flange @ both ends	200mmØ x 400mm	2	pcs	
Pressure Regulating Valve (PRV), FE X FE	200mmØ	1	pc	
SMS Data Logger, Two (2) built-in pressure 0-20 bars with programmable resolution/with built-in temperature sensor/two (2) built-in pressure transducer and two (2) signal input, complete with accessories		1	unit	

Saddle Clamp	200mmØ x 50mmØ	2	pcs	
Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	32	pcs	
Rubber Gasket	1/4" thk.	4	kgs	
D. AIR RELEASE VALVE/ ARV INSTALLATON				
Air Release Valve/Air Valve: Body made of high strength plastic (reinforced nylon), pressure rating- PN 16 (232 psi), base reinforced nylon, connection reinforced nylon	25mmØ	1	pc	
BI Coupling FTE X FTE	25mmØ	1	pc	
Male Adaptor 90° Bend (Push-In), MTE x SE	25mmØ x 90°	1	pc	
Female Adaptor 90° Bend (Push-In), FTE x SE	25mmØ x 90°	1	pc	
PE Tube, SDR 9, ISO	25mmØ	6	m	
GS Nipple, Sch. 40, MTE x MTE	25mmØ x 0.5mm	1	pc	
Brass Straight Ball Valve w/ Lockwing, FTE x FTE	25mmØ	1	pc	
Deformed Bar	12mmØ x 6m	4	lgths	
Stainless Rod		2	pcs	
Welding Rod	E6012	3	kgs	
E. INSTRUMENTATION BOX WITH BARRICADE				
Instrumentation Box (Fiber Reinforced Plastic Box; L=450mm; W= 350mm; H = 500mm); Thickness= 6mm; Electromagnetic meter converter/ data logger adjustable hook and slot in 50mmØ PVC electrical conduit, FRP		1	set	
Pipe Electrical Conduit, PVC, PE X PE	50mmØ x 6m	1	lgth	
G.I. Pipe, Sched. 40	100mmØ x 6m x 7.11mm thk.	1	lgth	
Pipe Electrical Conduit long radius bend, PVC, 90° SE X SE	50mmØ x 90°	1	pc	
Angle Bar	1 1/2" x 1 1/2" x 6mm x 20'	2	lgths	
Galvanized Square Wire Mesh Screen	50mm x 50mm x 4.5mmØ x 9m	1	roll	
Hinge	75mm x 75mm x 4.76mm thk.	2	pcs	
Heavy Duty Padlock w/ Keys		1	pc	
Flat Bar	1" x 1/4" thk. x 20'	1	lgth	
Bolts and Nuts	12mmØ x 50mm	4	pcs	
Deformed Bar	12mmØ x 6m	2	lgths	
	10mmØ x 6m	2	lgths	
G.I. Tie Wire	GA #16	1	kg	
Quick Dry Enamel	Delft Blue	4	qrts	
	Yellow	1	qrt	
	Black	1	qrt	
Latex Paint	Black	1	qrt	
	Yellow	1	qrt	
Paint Thinner		1	qrt	
Concrete Neutralizer		1	qrt	
Paint Brush	3"	2	pcs	
Portland Cement	40kg/bag	3	bags	
Washed Sand		1	cu.m	
Crushed Gravel		1	cu.m	

F. MOTHER METER AND PRV CHAMBER WITH MANHOLE COVER

Deformed Bar	10mmØ x 6m	7	lgths	
	12mmØ x 6m	265	lgths	
Plain Round Bar	10mmØ x 6m	1	lgth	
G.I. Tie Wire	GA #16	11	kgs	
Portland Cement	40kg/bag	71	bags	
Washed Sand		4	cu.m	
Crushed Gravel	3/4"	8	cu.m	
PVC Water Stop	150mm x 100mm	1	lgth	
MS Plate, for Manhole Cover	4' x 8' x 1/4" thk.	1	sht	
Heavy Duty Padlock w/ Keys		1	pc	
Angle Bar	2" x 2" x 6mm x 20'	1	lgth	
Welding Rod	E6012	2	kgs	
G.I Pipe	3/4"	1	lgth	
Rubber Gasket		2	kgs	
Epoxy A & B Adhesive		1	lit	
Coco Lumber	2" x 2" x 12'	38	lgths	
Ordinary Plywood	4' x 8' x 1/2"thk.	18	shts	
CWN	3"	6	kgs	
	1"	5	kgs	
Waterproofing Compound	Sahara	20	bags	

G. FOR CONSUMABLES

Welding Gloves		2	pairs	
Working Gloves / Natural Rubber Gloves		8	pairs	
Chalkstone		8	pcs	
Sand Paper	No. 120	8	sheets	
Grinding Disc	4"	4	pcs	

BLOOMFIELDS SUBDIVISION, LUMBIA, CDOC				
A. 150mmØ PIPELINE BY-PASS LINE				
Resilient Gate Valve for water, two (2) stages of double O-ring, ductile iron/epoxy coated body, stainless steel shaft, flange type, non-rising stem, complete with accessories	150mmØ	3	pcs	
Universal Adaptor, CI/DI, FE x MJ	150mmØ	4	pcs	
uPVC Pipe, Class 150, Series 8	150mmØ x 6m	2	lgths	
uPVC Elbow, Single Hub w/ O-ring	150mmØ x 90°	2	pcs	
uPVC Pipe Casing	150mmØ x 6m	1	lgth	
Valve Box Cover	150mmØ x 6m x 9.20mm thk.	3	pcs	
Steel Bend w/ Ring Flange @ both ends	150mmØ x 45°	4	pcs	
Steel Nipple w/ Ring Flange @ both ends	150mmØ x 300mm	3	pcs	
	150mmØ x 500mm	2	pcs	
Mechanical Flange Tee	150mmØ x 150mmØ	2	pcs	
Sleeve Type Coupling, MJ X MJ	150mmØ	1	pc	
Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	60	pcs	
Rubber Gasket	1/4" thk.	14	kgs	
Hard Coal Tar		12	kgs	
Washed Sand (Sand Bedding)		1	cu.m	
Backfill Material		2.5	cu.m	
B. ONE (1) UNIT 50mmØ MOTHER METER ASSEMBLY				
Steel Reducer w/ Ring Flange @ both ends	150mmØ x 50mmØ	2	pcs	
Steel Nipple w/ Ring Flange @ both ends	50mmØ x 250mm	1	pc	
	50mmØ x 150mm	1	pc	
Electromagnetic Flowmeter Process Connection: Flange ANSI 16.5, C150; Linear Material: EPDM; Electrode Material: Hastelloy w/ 10m remote mounted sensor cables and plugs; Communications: Serial RS 485 Interference Module Modbus RTU; Supply: Internal Battery packed installed and connected 2 D-Cell's inside meter; Flow Unit: m ³ /h; Volume Unit: m ³ ; Totalizer: Uni-Directional Forward Flowing	50mmØ	1	set	TO BE PROVIDED BY COWD
Strainer Basket, FE X FE	50mmØ	1	pc	
Capscrew w/ Nut and Lock & Washer, full threaded	5/8"Ø x 3"	40	pcs	
Rubber Gasket	1/4" thk.	2	kgs	
Quick Dry Enamel	Delft Blue	1	qrt	
Paint Thinner		1	bot	
Paint Brush	4"	1	pc	
C. ONE (1) UNIT 150mmØ PRESSURE REGULATING VALVE (PRV) ASSEMBLY				
Steel Nipple w/ Ring Flange @ both ends	150mmØ x 400mm	2	pcs	
Pressure Regulating Valve (PRV), FE X FE	150mmØ	1	pc	
SMS Data Logger, Two (2) built-in pressure 0-20 bars with programmable resolution/with built-in temperature sensor/two (2) built-in pressure transducer and two (2) signal input, complete with accessories		1	unit	

Saddle Clamp	150mmØ x 50mmØ	2	pcs	
Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	32	pcs	
Rubber Gasket	1/4" thk.	3	kgs	
D. AIR RELEASE VALVE/ ARV INSTALLATON				
Air Release Valve/Air Valve: Body made of high strength plastic (reinforced nylon), pressure rating - PN 16 (232 psi), base reinforced nylon, connection reinforced nylon	25mmØ	1	pc	
BI Coupling FTE X FTE	25mmØ	1	pc	
Male Adaptor 90° Bend (Push-In), MTE x SE	25mmØ x 90°	1	pc	
Female Adaptor 90° Bend (Push-In), FTE x SE	25mmØ x 90°	1	pc	
PE Tube, SDR 9, ISO	25mmØ	6	m	
GS Nipple, Sch. 40, MTE x MTE	25mmØ x 0.5mm	1	pc	
Brass Straight Ball Valve w/ Lockwing, FTE x FTE	25mmØ	1	pc	
Deformed Bar	12mmØ x 6m	4	lgths	
Stainless Rod		2	pcs	
Welding Rod	E6012	3	kgs	
E. INSTRUMENTATION BOX WITH BARRICADE				
Instrumentation Box (Fiber Reinforced Plastic Box; L=450mm; W= 350mm; H = 500mm); Thickness= 6mm; Electromagnetic meter converter/ data logger adjustable hook and slot in 50mmØ PVC electrical conduit, FRP		1	set	
Pipe Electrical Conduit, PVC, PE X PE	50mmØ x 6m	1	lgth	
G.I. Pipe, Sched. 40	100mmØ x 6m x 7.11mm thk.	1	lgth	
Pipe Electrical Conduit long radius bend, PVC, 90° SE X SE	50mmØ x 90°	1	pc	
Angle Bar	1 1/2" x 1 1/2" x 6mm x 20'	2	lgths	
Galvanized Square Wire Mesh Screen	50mm x 50mm x 4.5mmØ x 9m	1	roll	
Hinge	75mm x 75mm x 4.76mm thk.	2	pcs	
Heavy Duty Padlock w/ Keys		1	pc	
Flat Bar	1" x 1/4" thk x 20'	1	lgth	
Bolts and Nuts	12mmØ x 50mm	4	pcs	
Deformed Bar	12mmØ x 6m	2	lgths	
	10mmØ x 6m	2	lgths	
G.I. Tie Wire	GA #16	1	kg	
Quick Dry Enamel	Delft Blue	4	qrts	
	Yellow	1	qrt	
	Black	1	qrt	
Latex Paint	Black	1	qrt	
	Yellow	1	qrt	
Paint Thinner		1	qrt	
Concrete Neutralizer		1	qrt	
Paint Brush	3"	2	pcs	
Portland Cement	40kg/bag	3	bags	
Washed Sand		1	cu.m	
Crushed Gravel		1	cu.m	

F. MOTHER METER AND PRV CHAMBER WITH MANHOLE COVER

Deformed Bar	10mmØ x 6m	7	lgths	
	12mmØ x 6m	255	lgths	
Plain Round Bar	10mmØ x 6m	1	lgth	
G.I. Tie Wire	GA #16	10	kgs	
Portland Cement	40kg/bag	65	bags	
Washed Sand		4	cu.m	
Crushed Gravel	3/4"	8	cu.m	
PVC Water Stop	150mm x 100mm	1	lgth	
MS Plate, for Manhole Cover	4' x 8' x 1/4" thk.	1	sht	
Heavy Duty Padlock w/ Keys		1	pc	
Angle Bar	2" x 2" x 6mm x 20'	1	lgth	
Welding Rod	E6012	2	kgs	
G.I Pipe	3/4"	1	lgth	
Rubber Gasket		2	kgs	
Epoxy A & B Adhesive		1	lit	
Coco Lumber	2" x 2" x 12'	35	lgths	
Ordinary Plywood	4' x 8' x 1/2" thk.	18	shts	
CWN	3"	6	kgs	
	1"	5	kgs	
Waterproofing Compound	Sahara	20	bags	

G. FOR CONSUMABLES

Welding Gloves		2	pairs	
Working Gloves / Natural Rubber Gloves		8	pairs	
Chalkstone		8	pcs	
Sand Paper	No. 120	8	sheets	
Grinding Disc	4"	4	pcs	

TUSCANIA SUBDIVISION, KAUSWAGAN, CDOC				
A. 150mmØ PIPELINE BY-PASS LINE				
Resilient Gate Valve for water, two (2) stages of double O-ring, ductile iron/epoxy coated body, stainless steel shaft, flange type, non-rising stem, complete with accessories	150mmØ	3	pcs	
Universal Adaptor, CI/DI, FE x MJ	150mmØ	4	pcs	
uPVC Pipe, Class 150, Series 8	150mmØ x 6m	2	lgths	
uPVC Elbow, Single Hub w/ O-ring	150mmØ x 90°	2	pcs	
uPVC Pipe Casing	150mmØ x 6m	1	lgth	
Valve Box Cover	150mmØ x 6m x 9.20mm thk.	3	pcs	
Steel Bend w/ Ring Flange @ both ends	150mmØ x 45°	4	pcs	
Steel Nipple w/ Ring Flange @ both ends	150mmØ x 300mm	3	pcs	
	150mmØ x 500mm	2	pcs	
Mechanical Flange Tee	150mmØ x 150mmØ	2	pcs	
Sleeve Type Coupling, MJ X MJ	150mmØ	1	pc	
Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	60	pcs	
Rubber Gasket	1/4" thk.	14	kgs	
Hard Coal Tar		12	kgs	
Washed Sand (Sand Bedding)		1	cu.m	
Backfill Material		2.5	cu.m	
B. ONE (1) UNIT 50mmØ MOTHER METER ASSEMBLY				
Steel Reducer w/ Ring Flange @ both ends	150mmØ x 50mmØ	2	pcs	
Steel Nipple w/ Ring Flange @ both ends	50mmØ x 250mm	1	pc	
	50mmØ x 150mm	1	pc	
Electromagnetic Flowmeter Process Connection: Flange ANSI 16.5, C150; Linear Material: EPDM; Electrode Material: Hastelloy w/ 10m remote mounted sensor cables and plugs; Communications: Serial RS 485 Interference Module Modbus RTU; Supply: Internal Battery packed installed and connected 2 D-Cell's inside meter; Flow Unit: m ³ /h; Volume Unit: m ³ ; Totalizer: Uni-Directional Forward Flowing	50mmØ	1	set	TO BE PROVIDED BY COWD
Strainer Basket, FE X FE	50mmØ	1	pc	
Capscrew w/ Nut and Lock & Washer, full threaded	5/8"Ø x 3"	40	pcs	
Rubber Gasket	1/4" thk	2	kgs	
Quick Dry Enamel	Delft Blue	1	qrt	
Paint Thinner		1	bot	
Paint Brush	4"	1	pc	
C. ONE (1) UNIT 150mmØ PRESSURE REGULATING VALVE (PRV) ASSEMBLY				
Steel Nipple w/ Ring Flange @ both ends	150mmØ x 400mm	2	pcs	
Pressure Regulating Valve (PRV), FE X FE	150mmØ	1	pc	
SMS Data Logger, Two (2) built-in pressure 0-20 bars with programmable resolution/with built-in temperature sensor/two (2) built-in pressure transducer and two (2) signal input, complete with accessories		1	unit	

Saddle Clamp	150mmØ x 50mmØ	2	pcs	
Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	32	pcs	
Rubber Gasket	1/4" thk	3	kgs	
D. AIR RELEASE VALVE/ ARV INSTALLATON				
Air Release Valve/Air Valve: Body made of high strength plastic (reinforced nylon), pressure rating- PN 16 (232 psi), base reinforced nylon, connection reinforced nylon	25mmØ	1	pc	
BI Coupling FTE X FTE	25mmØ	1	pc	
Male Adaptor 90° Bend (Push-In), MTE x SE	25mmØ x 90°	1	pc	
Female Adaptor 90° Bend (Push-In), FTE x SE	25mmØ x 90°	1	pc	
PE Tube, SDR 9, ISO	25mmØ	6	m	
GS Nipple, Sch. 40, MTE x MTE	25mmØ x 0.5mm	1	pc	
Brass Straight Ball Valve w/ Lockwing, FTE x FTE	25mmØ	1	pc	
Deformed Bar	12mmØ x 6m	4	lgths	
Stainless Rod		2	pcs	
Welding Rod	E6012	3	kgs	
E. INSTRUMENTATION BOX WITH BARRICADE				
Instrumentation Box (Fiber Reinforced Plastic Box; L=450mm; W= 350mm; H = 500mm); Thickness= 6mm; Electromagnetic meter converter/ data logger adjustable hook and slot in 50mmØ PVC electrical conduit, FRP		1	set	
Pipe Electrical Conduit, PVC, PE X PE	50mmØ x 6m	1	lgth	
G.I. Pipe, Sched. 40	100mmØ x 6m x 7.11mm thk.	1	lgth	
Pipe Electrical Conduit long radius bend, PVC, 90 ° SE X SE	50mmØ x 90°	1	pc	
Angle Bar	1 1/2" x 1 1/2" x 6mm x 20'	2	lgths	
Galvanized Square Wire Mesh Screen	50mm x 50mm x 4.5mmØ x 9m	1	roll	
Hinge	75mm x 75mm x 4.76mm thk.	2	pcs	
Heavy Duty Padlock w/ Keys		1	pc	
Flat Bar	1" x 1/4" thk. x 20'	1	lgth	
Bolts and Nuts	12mmØ x 50mm	4	pcs	
Deformed Bar	12mmØ x 6m	2	lgths	
	10mmØ x 6m	2	lgths	
G.I. Tie Wire	GA #16	1	kg	
Quick Dry Enamel	Delft Blue	4	qrts	
	Yellow	1	qrt	
	Black	1	qrt	
Latex Paint	Black	1	qrt	
	Yellow	1	qrt	
Paint Thinner		1	qrt	
Concrete Neutralizer		1	qrt	
Paint Brush	3"	2	pcs	
Portland Cement	40kg/bag	3	bags	
Washed Sand		1	cu.m	
Crushed Gravel		1	cu.m	

F. MOTHER METER AND PRV CHAMBER WITH MANHOLE COVER

Deformed Bar	10mmØ x 6m	7	lgths	
	12mmØ x 6m	255	lgths	
Plain Round Bar	10mmØ x 6m	1	lgth	
G.I. Tie Wire	GA #16	10	kgs	
Portland Cement	40kg/bag	65	bags	
Washed Sand		4	cu.m	
Crushed Gravel	3/4"	8	cu.m	
PVC Water Stop	150mm x 100mm	1	lgth	
MS Plate, for Manhole Cover	4' x 8' x 1/4" thk.	1	sht	
Heavy Duty Padlock w/ Keys		1	pc	
Angle Bar	2" x 2" x 6mm x 20'	1	lgth	
Welding Rod	E6012	2	kgs	
G.I Pipe	3/4"	1	lgth	
Rubber Gasket		2	kgs	
Epoxy A & B Adhesive		1	lit	
Coco Lumber	2" x 2" x 12'	35	lgths	
Ordinary Plywood	4' x 8' x 1/2" thk.	18	shts	
CWN	3"	6	kgs	
	1"	5	kgs	
Waterproofing Compound	Sahara	20	bags	

G. FOR CONSUMABLES

Welding Gloves		2	pairs	
Working Gloves / Natural Rubber Gloves		8	pairs	
Chalkstone		8	pcs	
Sand Paper	No. 120	8	sheets	
Grinding Disc	4"	4	pcs	

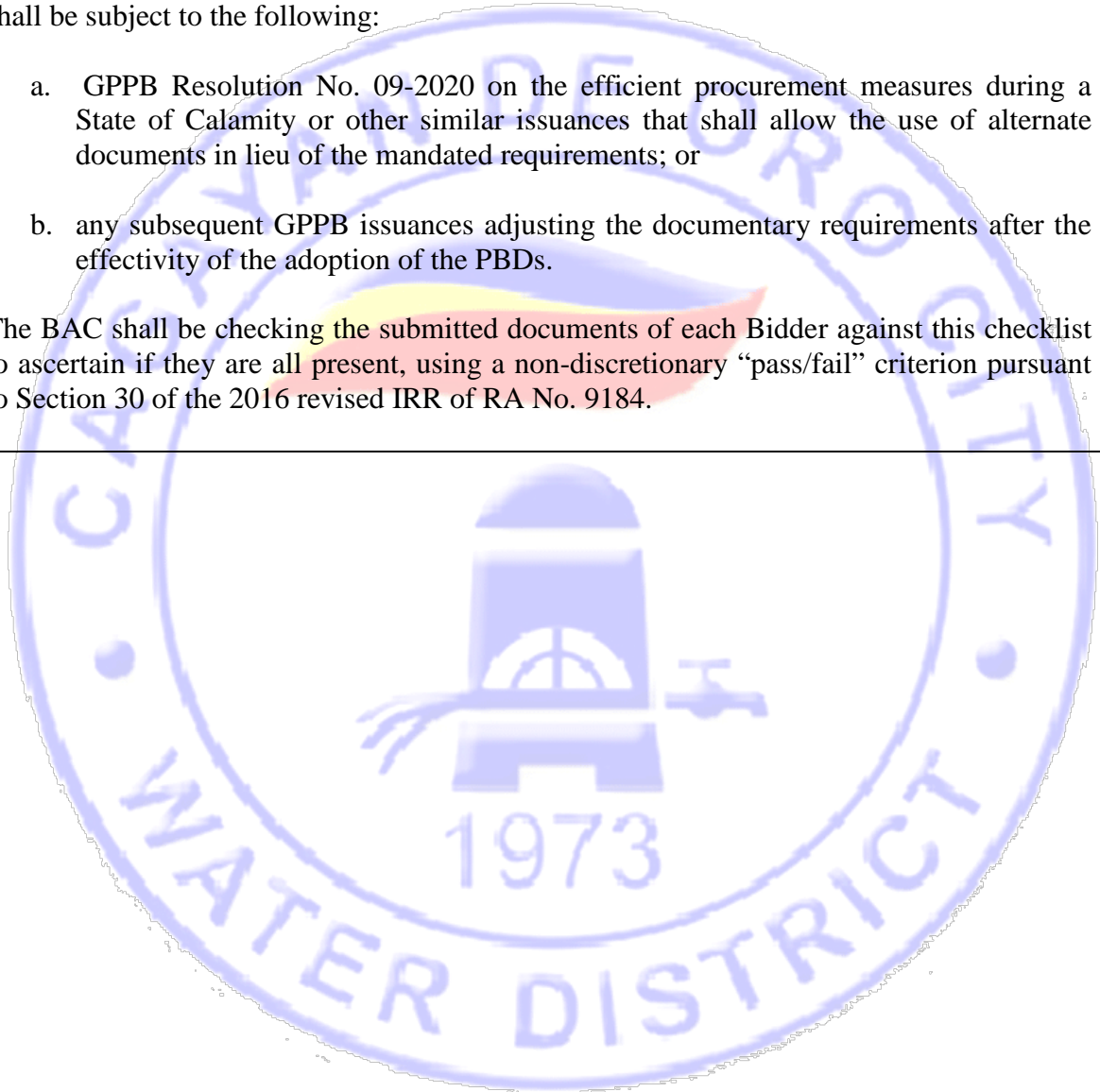
Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary “pass/fail” criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.



Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
or
- ☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
and
- ☐ (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and
- ☐ (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).
- ☐ (f) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**
- ☐ (g) The prospective bidder’s audited financial statements, showing, among others, the prospective bidder’s total and current assets and liabilities, stamped “received” by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**

Technical Documents

- ☐ (h) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- ☐ (i) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**
- ☐ (j) Original copy of Bid Security in any of the following forms:
Notarized Bid Securing Declaration; **or**
The amount of not less than 2% of ABC, if bid security is in cash, cashier’s/manager’s check, bank draft/guarantee or irrevocable letter of credit; **or**
The amount of not less than 5% of ABC, if bid security is in Surety Bond attached with the certification issued by the Insurance Commission; **and**
- ☐ (k) Project Requirements, which shall include the following:
 - ☐ a. Organizational chart for the contract to be bid;
 - ☐ b. List of contractor’s key personnel (e.g., Project Manager, Project

Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;

- ☐ c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**
- ☐ (l) Construction/Implementation Schedule (Gantt Chart or S-Curve); **and**
- ☐ (m) Site Inspection Certificate issued by Engineering Department; **and**
- ☐ (n) Construction Methods; **and**
- ☐ (o) Certification of Provision for Signage; **and**
- ☐ (p) Certification from Supplier of Aggregates; **and**
- ☐ (q) Valid Permit to Quarry from Supplier of Aggregates; **and**
- ☐ (r) Product Brochure for Identified Major Materials (in English) (evaluation of materials to be conducted by the Engineering Department during implementation) - refer to technical specifications of identified major materials; **and**
- ☐ (s) Compliance to Technical Specifications; **and**
- ☐ (t) BIR Certificate of Registration; **and**
- ☐ (u) Original duly signed Omnibus Sworn Statement (OSS);
- ☐ (v) **and** if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder

Financial Documents

- ☐ (w) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

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

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

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

Bidding Forms



Bid Form for the Procurement of Infrastructure Projects
[shall be submitted with the Bid]

BID FORM

Date : _____

Project Identification No. : PR No. 22-06-07-0082-Rebidding

To: *[name and address of Procuring Entity]*

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: *[insert information]*;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines² for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any

² currently based on GPPB Resolution No. 09-2020

other Bid that you may receive.

- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

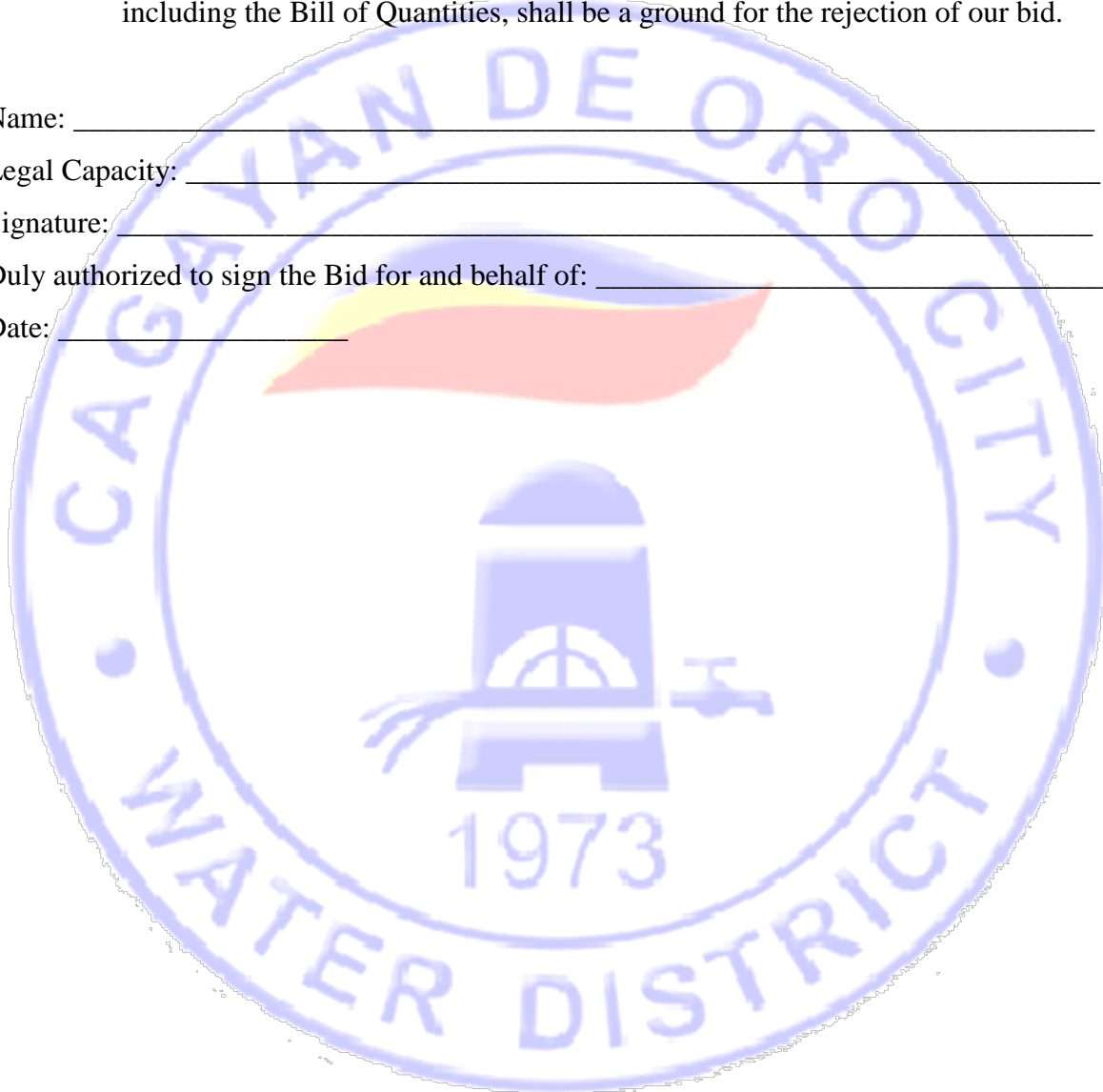
Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____



CAGAYAN DE ORO CITY WATER DISTRICT



Water Accessibility - Our Priority!

PR NO. 22-06-07-0082-Rebidding – 1
Lot Replacement of Big Mechanical
Meters Installed at Various Subdivisions
in Cagayan de Oro City with
Electromagnetic Flow Meters

Bid Form 2

PR No. 22-06-07-0082-Rebidding

DESCRIPTION	QTY	UNIT COST	AMOUNT
REPLACEMENT OF BIG MECHANICAL METERS INSTALLED AT VARIOUS SUBDIVISIONS IN CAGAYAN DE ORO CITY WITH ELECTROMAGNETIC FLOW METERS	1 LOT		
Total Bid Price (in Figures):			
In Words:			
Price Validity:			
Terms: Payment shall be made upon project completion as per schedule.			
Completion of Works: The Intended Completion Date is Ninety-Five (95) calendar days from receipt of Purchase Order and Notice to Proceed.			

Submitted by:

Company Name

Printed Name / Signature

Tel. No. /Cell Phone No.

Date

Bill of Quantities

PR NO. 22-06-07-0082-REBIDDING – 1 LOT REPLACEMENT OF BIG MECHANICAL METERS INSTALLED AT VARIOUS SUBDIVISIONS IN CAGAYAN DE ORO CITY WITH ELECTROMAGNETIC FLOW METERS					
FATIMA WEST PLAIN SUBDIVISION, PAGATPAT, CDOC					
DESCRIPTION	SIZE	QTY	UNIT	UNIT COST	AMOUNT
A. 200mmØ PIPELINE BY-PASS LINE					
Resilient Gate Valve for water, two (2) stages of double O-ring, ductile iron/epoxy coated body, stainless steel shaft, flange type, non-rising stem, complete with accessories	200mmØ	3	pcs		
Universal Adaptor, CI/DI, FE x MJ	200mmØ	4	pcs		
uPVC Pipe, Class 150, Series 8	200mmØ x 6m	2	lgths		
uPVC Elbow, Single Hub w/ O-ring	200mmØ x 90°	2	pcs		
uPVC Pipe Casing	150mmØ x 6m	1	lgth		
Valve Box Cover	150mmØ x 6m x 9.20mm thk.	3	pcs		
Steel Bend w/ Ring Flange @ both ends	200mmØ x 45°	4	pcs		
Steel Nipple w/ Ring Flange @ both ends	200mmØ x 300mm	3	pcs		
	200mmØ x 500mm	2	pcs		
Mechanical Flange Tee	200mmØ x 200mmØ	2	pcs		
Sleeve Type Coupling, MJ X MJ	200mmØ	1	pc		
Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	60	pcs		
Rubber Gasket	1/4" thk.	20	kgs		
Hard Coal Tar		12	kgs		
Washed Sand (Sand Bedding)		1	cu.m		
Backfill Material		3	cu.m		
sub-total:				P	
B. ONE (1) UNIT 100mmØ MOTHER METER ASSEMBLY					
Steel Reducer w/ Ring Flange @ both ends	200mmØ x 100mmØ	2	pcs		
Steel Nipple w/ Ring Flange @ both ends	100mmØ x 500mm	1	pc		
	100mmØ x 300mm	1	pc		
Electromagnetic Flowmeter Process Connection: Flange ANSI 16.5, C150; Linear Material: EPDM; Electrode Material: Hastelloy w/ 10m remote mounted sensor cables and plugs; Communications: Serial RS 485 Interference Module Modbus RTU; Supply: Internal Battery packed installed and connected 2 D-Cell's inside meter; Flow Unit: m³/h; Volume Unit: m³; Totalizer: Uni-Directional Forward Flowing	100mmØ	1	set	TO BE PROVIDED BY COWD	
Strainer Basket, FE X FE	100mmØ	1	pc		
Capscrew w/ Nut and Lock & Washer, full threaded	5/8"Ø x 3"	40	pcs		
Rubber Gasket	1/4" thk.	2	kgs		
Quick Dry Enamel	Delft Blue	1	qrt		
Paint Thinner		1	bot		
Paint Brush	4"	1	pc		
sub-total:				P	

C. ONE (1) UNIT 200mmØ PRESSURE REGULATING VALVE (PRV) ASSEMBLY					
Steel Nipple w/ Ring Flange @ both ends	200mmØ x 400mm	2	pcs		
Pressure Regulating Valve (PRV), FE X FE	200mmØ	1	pc		
SMS Data Logger, Two (2) built-in pressure 0-20 bars with programmable resolution/with built-in temperature sensor/two (2) built-in pressure transducer and two (2) signal input, complete with accessories		1	unit		
Saddle Clamp	200mmØ x 50mmØ	2	pcs		
Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	32	pcs		
Rubber Gasket	1/4" thk.	4	kgs		
			sub-total:	P	
D. AIR RELEASE VALVE/ ARV INSTALLATON					
Air Release Valve/Air Valve: Body made of high strength plastic (reinforced nylon), pressure rating- PN 16 (232 psi), base reinforced nylon, connection reinforced nylon	25mmØ	1	pc		
BI Coupling FTE X FTE	25mmØ	1	pc		
Male Adaptor 90° Bend (Push-In), MTE x SE	25mmØ x 90°	1	pc		
Female Adaptor 90° Bend (Push-In), FTE x SE	25mmØ x 90°	1	pc		
PE Tube, SDR 9, ISO	25mmØ	6	m		
GS Nipple, Sch. 40, MTE x MTE	25mmØ x 0.5mm	1	pc		
Brass Straight Ball Valve w/ Lockwing, FTE x FTE	25mmØ	1	pc		
Deformed Bar	12mmØ x 6m	4	lgths		
Stainless Rod		2	pcs		
Welding Rod	E6012	3	kgs		
			sub-total:	P	
E. INSTRUMENTATION BOX WITH BARRICADE					
Instrumentation Box (Fiber Reinforced Plastic Box; L=450mm; W= 350mm; H = 500mm); Thickness= 6mm; Electromagnetic meter converter/ data logger adjustable hook and slot in 50mmØ PVC electrical conduit, FRP		1	set		
Pipe Electrical Conduit, PVC, PE X PE	50mmØ x 6m	1	lgth		
G.I. Pipe, Sched. 40	100mmØ x 6m x 7.11mm thk.	1	lgth		
Pipe Electrical Conduit long radius bend, PVC, 90° SE X SE	50mmØ x 90°	1	pc		
Angle Bar	1 1/2" x 1 1/2" x 6mm x 20'	2	lgths		
Galvanized Square Wire Mesh Screen	50mm x 50mm x 4.5mmØ x 9m	1	roll		
Hinge	75mm x 75mm x 4.76mm thk.	2	pcs		
Heavy Duty Padlock w/ Keys		1	pc		
Flat Bar	1" x 1/4" thk x 20'	1	lgth		
Bolts and Nuts	12mmØ x 50mm	4	pcs		
Deformed Bar	12mmØ x 6m	2	lgths		
	10mmØ x 6m	2	lgths		
G.I. Tie Wire	GA #16	1	kg		

Quick Dry Enamel	Delft Blue	4	qrts		
	Yellow	1	qrt		
	Black	1	qrt		
Latex Paint	Black	1	qrt		
	Yellow	1	qrt		
Paint Thinner		1	qrt		
Concrete Neutralizer		1	qrt		
Paint Brush	3"	2	pcs		
Portland Cement	40kg/bag	3	bags		
Washed Sand		1	cu.m		
Crushed Gravel		1	cu.m		
sub-total:				P	
F. MOTHER METER AND PRV CHAMBER WITH MANHOLE COVER					
Deformed Bar	10mmØ x 6m	7	lgths		
	12mmØ x 6m	265	lgths		
Plain Round Bar	10mmØ x 6m	1	lgth		
G.I. Tie Wire	GA #16	11	kgs		
Portland Cement	40kg/bag	71	bags		
Washed Sand		4	cu.m		
Crushed Gravel	3/4"	8	cu.m		
PVC Water Stop	150mm x 100mm	1	lgth		
MS Plate, for Manhole Cover	4' x 8' x 1/4" thk.	1	sht		
Heavy Duty Padlock w/ Keys		1	pc		
Angle Bar	2" x 2" x 6mm x 20'	1	lgth		
Welding Rod	E6012	2	kgs		
G.I Pipe	3/4"	1	lgth		
Rubber Gasket		2	kgs		
Epoxy A & B Adhesive		1	lit		
Coco Lumber	2" x 2" x 12'	38	lgths		
Ordinary Plywood	4' x 8' x 1/2"thk	18	shts		
CWN	3"	6	kgs		
	1"	5	kgs		
Waterproofing Compound	Sahara	20	bags		
sub-total:				P	
G. FOR CONSUMABLES					
Welding Gloves		2	pairs		
Working Gloves / Natural Rubber Gloves		8	pairs		
Chalkstone		8	pcs		
Sand Paper	No. 120	8	sheets		
Grinding Disc	4"	4	pcs		
sub-total:				P	
TOTAL MATERIAL COST				P	

PROJECT COST ESTIMATES	
I. GENERAL REQUIREMENTS	
A. Construction & Safety (1 % of DC)	
B. Mobilization & Demobilization (1% of DC)	
C. Contractor's Tax	
Total General Requirement Cost:	P
II. DIRECT COST	
A. Material Cost	
B. Labor Cost	
C. Equipment Cost/Rental	
Total Direct Cost	P
III. INDIRECT COST	
A. Overhead, Contingency & Miscellaneous (Max. of 15 % OF TDC)	
B. Profit (Max. of 10% OF TDC)	
C. EVAT ((TDC + A + B) x 5%)	
Total Indirect Cost:	P
TOTAL PROJECT COST FOR CONTRACT	P

COST ESTIMATE SCHEDULE

TOTAL LABOR COST		P							
Skilled		P							
Laborers		P							
Item No.	MANPOWER	EMPLOYEE		No. of days	Plantilla	Rate/day		AMOUNT	
		Skilled	Laborers			Skilled	Laborer	Skilled	Laborer
1.	Construction Engineer								
2.	Construction Foreman								
3.	Pipe Fitter								
4.	Pipe Welder								
5.	Mason-Carpenter								
6.	Steelman								
7.	Compactor/ Jackhammer Operator								
8.	Skilled Laborer (Painter)								
9.	Driver								
10.	Skilled Laborer								
11.	Laborer								
	TOTAL							P	P
EQUIPMENT COST		P							
					Rental / Day	Plantilla	No. of days	Equipment Rental	Amount
A.	Construction Equipment:								
	Welding Machine	Including fuel, repair							
	Concrete Cutter								

	Oxy-Acetylene Outfit	and maintenance cost, fuel and lubricants							
	Concrete Mixer								
	Compactor								
	Generator Set								
	Dewatering Pump								
	Jackhammer								
	TOTAL							P	

BLOOMFIELDS SUBDIVISION, LUMBIA, CDOC**A. 150mmØ PIPELINE BY-PASS LINE**

Resilient Gate Valve for water, two (2) stages of double O-ring, ductile iron/epoxy coated body, stainless steel shaft, flange type, non-rising stem, complete with accessories	150mmØ	3	pcs		
Universal Adaptor, CI/DI, FE x MJ	150mmØ	4	pcs		
uPVC Pipe, Class 150, Series 8	150mmØ x 6m	2	lgths		
uPVC Elbow, Single Hub w/ O-ring	150mmØ x 90°	2	pcs		
uPVC Pipe Casing	150mmØ x 6m	1	lgth		
Valve Box Cover	150mmØ x 6m x 9.20mm thk.	3	pcs		
Steel Bend w/ Ring Flange @ both ends	150mmØ x 45°	4	pcs		
Steel Nipple w/ Ring Flange @ both ends	150mmØ x 300mm	3	pcs		
	150mmØ x 500mm	2	pcs		
Mechanical Flange Tee	150mmØ x 150mmØ	2	pcs		
Sleeve Type Coupling, MJ X MJ	150mmØ	1	pc		
Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	60	pcs		
Rubber Gasket	1/4" thk.	14	kgs		
Hard Coal Tar		12	kgs		
Washed Sand (Sand Bedding)		1	cu.m		
Backfill Material		2.5	cu.m		
			sub-total:	P	

B. ONE (1) UNIT 50mmØ MOTHER METER ASSEMBLY

Steel Reducer w/ Ring Flange @ both ends	150mmØ x 50mmØ	2	pcs		
Steel Nipple w/ Ring Flange @ both ends	50mmØ x 250mm	1	pc		
	50mmØ x 150mm	1	pc		
Electromagnetic Flowmeter Process Connection: Flange ANSI 16.5, C150; Linear Material: EPDM; Electrode Material: Hastelloy w/ 10m remote mounted sensor cables and plugs; Communications: Serial RS 485 Interference Module Modbus RTU; Supply: Internal Battery packed installed and connected 2 D-Cell's inside meter; Flow Unit: m³/h; Volume Unit: m³; Totalizer: Uni-Directional Forward Flowing	50mmØ	1	set	TO BE PROVIDED BY COWD	
Strainer Basket, FE X FE	50mmØ	1	pc		
Capscrew w/ Nut and Lock & Washer, full threaded	5/8"Ø x 3"	40	pcs		

Rubber Gasket	1/4" thk.	2	kgs		
Quick Dry Enamel	Delft Blue	1	qrt		
Paint Thinner		1	bot		
Paint Brush	4"	1	pc		
sub-total:				P	
C. ONE (1) UNIT 150mmØ PRESSURE REGULATING VALVE (PRV) ASSEMBLY					
Steel Nipple w/ Ring Flange @ both ends	150mmØ x 400mm	2	pcs		
Pressure Regulating Valve (PRV), FE X FE	150mmØ	1	pc		
SMS Data Logger, Two (2) built-in pressure 0-20 bars with programmable resolution/with built-in temperature sensor/two (2) built-in pressure transducer and two (2) signal input, complete with accessories		1	unit		
Saddle Clamp	150mmØ x 50mmØ	2	pcs		
Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	32	pcs		
Rubber Gasket	1/4" thk.	3	kgs		
sub-total:				P	
D. AIR RELEASE VALVE/ ARV INSTALLATON					
Air Release Valve/Air Valve: Body made of high strength plastic (reinforced nylon), pressure rating - PN 16 (232 psi), base reinforced nylon, connection reinforced nylon	25mmØ	1	pc		
BI Coupling FTE X FTE	25mmØ	1	pc		
Male Adaptor 90° Bend (Push-In), MTE x SE	25mmØ x 90°	1	pc		
Female Adaptor 90° Bend (Push-In), FTE x SE	25mmØ x 90°	1	pc		
PE Tube, SDR 9, ISO	25mmØ	6	m		
GS Nipple, Sch. 40, MTE x MTE	25mmØ x 0.5mm	1	pc		
Brass Straight Ball Valve w/ Lockwing, FTE x FTE	25mmØ	1	pc		
Deformed Bar	12mmØ x 6m	4	lgths		
Stainless Rod		2	pcs		
Welding Rod	E6012	3	kgs		
sub-total:				P	
E. INSTRUMENTATION BOX WITH BARRICADE					
Instrumentation Box (Fiber Reinforced Plastic Box; L=450mm; W= 350mm; H = 500mm); Thickness= 6mm; Electromagnetic meter converter/ data logger adjustable hook and slot in 50mmØ PVC electrical conduit, FRP		1	set		
Pipe Electrical Conduit, PVC, PE X PE	50mmØ x 6m	1	lgth		
G.I. Pipe, Sched. 40	100mmØ x 6m x 7.11mm thk.	1	lgth		
Pipe Electrical Conduit long radius bend, PVC, 90° SE X SE	50mmØ x 90°	1	pc		
Angle Bar	1 1/2" x 1 1/2" x 6mm x 20'	2	lgths		
Galvanized Square Wire Mesh Screen	50mm x 50mm x 4.5mmØ x 9m	1	roll		
Hinge	75mm x 75mm x 4.76mm thk.	2	pcs		
Heavy Duty Padlock w/ Keys		1	pc		

Flat Bar	1" x 1/4" thk x 20'	1	lgth		
Bolts and Nuts	12mmØ x 50mm	4	pcs		
Deformed Bar	12mmØ x 6m	2	lgths		
	10mmØ x 6m	2	lgths		
G.I. Tie Wire	GA #16	1	kg		
Quick Dry Enamel	Delft Blue	4	qrts		
	Yellow	1	qrt		
	Black	1	qrt		
Latex Paint	Black	1	qrt		
	Yellow	1	qrt		
Paint Thinner		1	qrt		
Concrete Neutralizer		1	qrt		
Paint Brush	3"	2	pcs		
Portland Cement	40kg/bag	3	bags		
Washed Sand		1	cu.m		
Crushed Gravel		1	cu.m		

sub-total: P

F. MOTHER METER AND PRV CHAMBER WITH MANHOLE COVER

Deformed Bar	10mmØ x 6m	7	lgths		
	12mmØ x 6m	255	lgths		
Plain Round Bar	10mmØ x 6m	1	lgth		
G.I. Tie Wire	GA #16	10	kgs		
Portland Cement	40kg/bag	65	bags		
Washed Sand		4	cu.m		
Crushed Gravel	3/4"	8	cu.m		
PVC Water Stop	150mm x 100mm	1	lgth		
MS Plate, for Manhole Cover	4' x 8' x 1/4" thk.	1	sht		
Heavy Duty Padlock w/ Keys		1	pc		
Angle Bar	2" x 2" x 6mm x 20'	1	lgth		
Welding Rod	E6012	2	kgs		
G.I Pipe	3/4"	1	lgth		
Rubber Gasket		2	kgs		
Epoxy A & B Adhesive		1	lit		
Coco Lumber	2" x 2" x 12'	35	lgths		
Ordinary Plywood	4' x 8' x 1/2"thk.	18	shts		
CWN	3"	6	kgs		
	1"	5	kgs		
Waterproofing Compound	Sahara	20	bags		

sub-total: P

G. FOR CONSUMABLES

Welding Gloves		2	pairs		
Working Gloves / Natural Rubber Gloves		8	pairs		
Chalkstone		8	pcs		

Sand Paper	No. 120	8	sheets		
Grinding Disc	4"	4	pcs		
sub-total:				P	
TOTAL MATERIAL COST				P	
PROJECT COST ESTIMATES					
I. GENERAL REQUIREMENTS					
A. Construction & Safety (1 % of DC)					
B. Mobilization & Demobilization (1% of DC)					
C. Contractor's Tax					
Total General Requirement Cost:				P	
II. DIRECT COST					
A. Material Cost					
B. Labor Cost					
C. Equipment Cost/Rental					
Total Direct Cost				P	
III. INDIRECT COST					
A. Overhead, Contingency & Miscellaneous (Max. of 15 % OF TDC)					
B. Profit (Max. of 10% OF TDC)					
C. EVAT ((TDC + A + B) x 5%)					
Total Indirect Cost:				P	
TOTAL PROJECT COST FOR CONTRACT				P	

COST ESTIMATE SCHEDULE

TOTAL LABOR COST		P							
Skilled		P							
Laborers		P							
Item No.	MANPOWER	EMPLOYEE		No. of days	Plantilla	Rate/day		AMOUNT	
		Skilled	Laborers			Skilled	Laborer	Skilled	Laborer
1.	Construction Engineer								
2.	Construction Foreman								
3.	Pipe Fitter								
4.	Pipe Welder								
5.	Mason-Carpenter								
6.	Steelman								
7.	Compactor/ Jackhammer Operator								
8.	Skilled Laborer (Painter)								
9.	Driver								
10.	Skilled Laborer								
11.	Laborer								
	TOTAL							P	P

EQUIPMENT COST		P							
					Rental / Day	Plantilla	No. of days	Equipment Rental	Amount
A.	Construction Equipment:								
	Welding Machine	Including fuel, repair and maintenance cost, fuel and lubricants							
	Concrete Cutter								
	Oxy-Acetylene Outfit								
	Concrete Mixer								
	Compactor								
	Generator Set								
	Dewatering Pump								
	TOTAL							P	

TUSCANIA SUBDIVISION, KAUSWAGAN, CDOC**A. 150mmØ PIPELINE BY-PASS LINE**

Resilient Gate Valve for water, two (2) stages of double O-ring, ductile iron/epoxy coated body, stainless steel shaft, flange type, non-rising stem, complete with accessories	150mmØ	3	pcs		
Universal Adaptor, CI/DI, FE x MJ	150mmØ	4	pcs		
uPVC Pipe, Class 150, Series 8	150mmØ x 6m	2	lgths		
uPVC Elbow, Single Hub w/ O-ring	150mmØ x 90°	2	pcs		
uPVC Pipe Casing	150mmØ x 6m	1	lgth		
Valve Box Cover	150mmØ x 6m x 9.20mm thk.	3	pcs		
Steel Bend w/ Ring Flange @ both ends	150mmØ x 45°	4	pcs		
Steel Nipple w/ Ring Flange @ both ends	150mmØ x 300mm	3	pcs		
	150mmØ x 500mm	2	pcs		
Mechanical Flange Tee	150mmØ x 150mmØ	2	pcs		
Sleeve Type Coupling, MJ X MJ	150mmØ	1	pc		
Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	60	pcs		
Rubber Gasket	1/4" thk.	14	kgs		
Hard Coal Tar		12	kgs		
Washed Sand (Sand Bedding)		1	cu.m		
Backfill Material		2.5	cu.m		
sub-total:				P	

B. ONE (1) UNIT 50mmØ MOTHER METER ASSEMBLY

Steel Reducer w/ Ring Flange @ both ends	150mmØ x 50mmØ	2	pcs		
Steel Nipple w/ Ring Flange @ both ends	50mmØ x 250mm	1	pc		
	50mmØ x 150mm	1	pc		

Electromagnetic Flowmeter Process Connection: Flange ANSI 16.5, C150; Linear Material: EPDM; Electrode Material: Hastelloy w/ 10m remote mounted sensor cables and plugs; Communications: Serial RS 485 Interference Module Modbus RTU; Supply: Internal Battery packed installed and connected 2 D-Cell's inside meter; Flow Unit: m ³ /h; Volume Unit: m ³ ; Totalizer: Uni-Directional Forward Flowing	50mmØ	1	set	TO BE PROVIDED BY COWD	
Strainer Basket, FE X FE	50mmØ	1	pc		
Capscrew w/ Nut and Lock & Washer, full threaded	5/8"Ø x 3"	40	pcs		
Rubber Gasket	1/4" thk.	2	kgs		
Quick Dry Enamel	Delft Blue	1	qrt		
Paint Thinner		1	bot		
Paint Brush	4"	1	pc		
			sub-total:	P	
C. ONE (1) UNIT 150mmØ PRESSURE REGULATING VALVE (PRV) ASSEMBLY					
Steel Nipple w/ Ring Flange @ both ends	150mmØ x 400mm	2	pcs		
Pressure Regulating Valve (PRV), FE X FE	150mmØ	1	pc		
SMS Data Logger, Two (2) built-in pressure 0-20 bars with programmable resolution/with built-in temperature sensor/two (2) built-in pressure transducer and two (2) signal input, complete with accessories		1	unit		
Saddle Clamp	150mmØ x 50mmØ	2	pcs		
Capscrew w/ Nut and Lock & Washer, full threaded	3/4"Ø x 3"	32	pcs		
Rubber Gasket	1/4" thk.	3	kgs		
			sub-total:	P	
D. AIR RELEASE VALVE/ ARV INSTALLATON					
Air Release Valve/Air Valve: Body made of high strength plastic (reinforced nylon), pressure rating- PN 16 (232 psi), base reinforced nylon, connection reinforced nylon	25mmØ	1	pc		
BI Coupling FTE X FTE	25mmØ	1	pc		
Male Adaptor 90° Bend (Push-In), MTE x SE	25mmØ x 90°	1	pc		
Female Adaptor 90° Bend (Push-In), FTE x SE	25mmØ x 90°	1	pc		
PE Tube, SDR 9, ISO	25mmØ	6	m		
GS Nipple, Sch. 40, MTE x MTE	25mmØ x 0.5mm	1	pc		
Brass Straight Ball Valve w/ Lockwing, FTE x FTE	25mmØ	1	pc		
Deformed Bar	12mmØ x 6m	4	lgths		
Stainless Rod		2	pcs		
Welding Rod	E6012	3	kgs		
			sub-total:	P	

E. INSTRUMENTATION BOX WITH BARRICADE

Instrumentation Box (Fiber Reinforced Plastic Box; L=450mm; W= 350mm; H = 500mm); Thickness= 6mm; Electromagnetic meter converter/ data logger adjustable hook and slot in 50mmØ PVC electrical conduit, FRP		1	set		
Pipe Electrical Conduit, PVC, PE X PE	50mmØ x 6m	1	lgth		
G.I. Pipe, Sched. 40	100mmØ x 6m x 7.11mm thk.	1	lgth		
Pipe Electrical Conduit long radius bend, PVC, 90 ° SE X SE	50mmØ x 90°	1	pc		
Angle Bar	1 1/2" x 1 1/2" x 6mm x 20'	2	lgths		
Galvanized Square Wire Mesh Screen	50mm x 50mm x 4.5mmØ x 9m	1	roll		
Hinge	75mm x 75mm x 4.76mm thk.	2	pcs		
Heavy Duty Padlock w/ Keys		1	pc		
Flat Bar	1" x 1/4" thk. x 20'	1	lgth		
Bolts and Nuts	12mmØ x 50mm	4	pcs		
Deformed Bar	12mmØ x 6m	2	lgths		
	10mmØ x 6m	2	lgths		
G.I. Tie Wire	GA #16	1	kg		
Quick Dry Enamel	Delft Blue	4	qrts		
	Yellow	1	qrt		
	Black	1	qrt		
Latex Paint	Black	1	qrt		
	Yellow	1	qrt		
Paint Thinner		1	qrt		
Concrete Neutralizer		1	qrt		
Paint Brush	3"	2	pcs		
Portland Cement	40kg/bag	3	bags		
Washed Sand		1	cu.m		
Crushed Gravel		1	cu.m		
sub-total:				P	

F. MOTHER METER AND PRV CHAMBER WITH MANHOLE COVER

Deformed Bar	10mmØ x 6m	7	lgths		
	12mmØ x 6m	255	lgths		
Plain Round Bar	10mmØ x 6m	1	lgth		
G.I. Tie Wire	GA #16	10	kgs		
Portland Cement	40kg/bag	65	bags		
Washed Sand		4	cu.m		
Crushed Gravel	3/4"	8	cu.m		
PVC Water Stop	150mm x 100mm	1	lgth		
MS Plate, for Manhole Cover	4' x 8' x 1/4" thk.	1	sht		
Heavy Duty Padlock w/ Keys		1	pc		
Angle Bar	2" x 2" x 6mm x 20'	1	lgth		
Welding Rod	E6012	2	kgs		
G.I Pipe	3/4"	1	lgth		

Rubber Gasket		2	kgs		
Epoxy A & B Adhesive		1	lit		
Coco Lumber	2" x 2" x 12'	35	lgths		
Ordinary Plywood	4' x 8' x 1/2" thk.	18	shts		
CWN	3"	6	kgs		
	1"	5	kgs		
Waterproofing Compound	Sahara	20	bags		
sub-total:				P	
G. FOR CONSUMABLES					
Welding Gloves		2	pairs		
Working Gloves / Natural Rubber Gloves		8	pairs		
Chalkstone		8	pcs		
Sand Paper	No. 120	8	sheets		
Grinding Disc	4"	4	pcs		
sub-total:				P	
TOTAL MATERIAL COST				P	
PROJECT COST ESTIMATES					
I. GENERAL REQUIREMENTS					
A.	Construction & Safety (1 % of DC)				
B.	Mobilization & Demobilization (1% of DC)				
C.	Contractor's Tax				
Total General Requirement Cost:				P	
II. DIRECT COST					
A.	Material Cost				
B.	Labor Cost				
C.	Equipment Cost/Rental				
Total Direct Cost				P	
III. INDIRECT COST					
A.	Overhead, Contingency & Miscellaneous (Max. of 15 % OF TDC)				
B.	Profit (Max. of 10% OF TDC)				
C.	EVAT ((TDC + A + B) x 5%)				
Total Indirect Cost:				P	
TOTAL PROJECT COST FOR CONTRACT				P	

COST ESTIMATE SCHEDULE

TOTAL LABOR COST		P							
Skilled		P							
Laborers		P							
Item No.	MANPOWER	EMPLOYEE		No. of days	Plantilla	Rate/day		AMOUNT	
		Skilled	Laborers			Skilled	Laborer	Skilled	Laborer
1.	Construction Engineer								
2.	Construction Foreman								

3.	Pipe Fitter								
4.	Pipe Welder								
5.	Mason-Carpenter								
6.	Steelman								
7.	Compactor/ Jackhammer Operator								
8.	Skilled Laborer (Painter)								
9.	Driver								
10.	Skilled Laborer								
11.	Laborer								
	TOTAL							P	P
EQUIPMENT COST		P							
					Rental / Day	Plantilla	No. of days	Equipment Rental	Amount
A.	Construction Equipment:								
	Welding Machine	Including fuel, repair and maintenance cost, fuel and lubricants							
	Concrete Cutter								
	Oxy-Acetylene Outfit								
	Concrete Mixer								
	Compactor								
	Generator Set								
	Dewatering Pump								
	TOTAL							P	

Location	Bid Offer
FATIMA WEST PLAIN SUBDIVISION, PAGATPAT, CDOC	
BLOOMFIELDS SUBDIVISION, LUMBIA, CDOC	
TUSCANIA SUBDIVISION, KAUSWAGAN, CDOC	
Grand Total	P

Contract Agreement Form for the Procurement of Infrastructure Projects (Revised)

[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT, made this *[insert date]* day of *[insert month]*, *[insert year]* between *[name and address of PROCURING ENTITY]* (hereinafter called the “Entity”) and *[name and address of Contractor]* (hereinafter called the “Contractor”).

WHEREAS, the Entity is desirous that the Contractor execute *[name and identification number of contract]* (hereinafter called “the Works”) and the Entity has accepted the Bid for *[contract price in words and figures in specified currency]* by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - a. Philippine Bidding Documents (PBDs);
 - i. Drawings/Plans;
 - ii. Specifications;
 - iii. Bill of Quantities;
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins, if any;
 - b. Winning bidder’s bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder’s bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder’s

response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

- c. Performance Security;
 - d. Notice of Award of Contract and the Bidder's conforme thereto; and
 - e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**
3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.
4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

[Insert Name and Signature]

[Insert Name and Signature]

[Insert Signatory's Legal Capacity]

[Insert Signatory's Legal Capacity]

for:

for:

[Insert Name of Supplier]

[Insert Procuring Entity]

Acknowledgment

[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)

CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

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 or authorized representative 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, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[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 to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];

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, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

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:] The owner or sole proprietor is 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 responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

- a. Carefully examining all of the Bidding Documents;
- b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
- c. Making an estimate of the facilities available and needed for the contract to be bid, if

- any; and
- d. Inquiring or securing 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 person or official, personnel or representative of the government in relation to any procurement project or activity.
10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)

CITY OF _____) S.S.

BID SECURING DECLARATION

**Project Identification No.: [PR NO. 22-06-07-0082-REBIDDING: 1 LOT
REPLACEMENT OF BIG MECHANICAL METERS INSTALLED AT VARIOUS
SUBDIVISIONS IN CAGAYAN DE ORO CITY WITH ELECTROMAGNETIC FLOW
METERS]**

To: *[Insert name and address of the Procuring Entity]*

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of [month]
[year] at [place of execution].

*[Insert NAME OF BIDDER OR ITS AUTHORIZED
REPRESENTATIVE]*

[Insert signatory's legal capacity]

Affiant



Date

The Bids and Awards Committee
Cagayan de Oro City Water District
Cagayan de Oro City

MAJOR EQUIPMENT REQUIREMENTS

We commit to provide the following major equipment during the implementation of this project: *(Project Name)*.

EQUIPMENT	CAPACITY	NUMBER OF UNITS	OTHER REMARKS

Signature over Printed Name

Position

**STATEMENT OF ALL ITS ONGOING GOVERNMENT AND PRIVATE
CONTRACTS, INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED,
IF ANY, WHETHER SIMILAR OR NOT SIMILAR IN NATURE**

Business Name: _____
Business Address: _____

[illegible]

Signature over Printed Name

Position

**STATEMENT OF THE BIDDER'S SINGLE LARGEST COMPLETED CONTRACT
(SLCC) SIMILAR TO THE CONTRACT TO BE BID**

Business Name: _____

Business Address: _____

a. Name of the Contract	b. Owner's Name and Address	c. Kinds of Goods	d. Date of Contract e. Contract Duration f. Date of Delivery	g. Amount of Completed Contract	h. Bidder's Role
			TOTAL		

The Single largest Completed Contract (SLCC) must be equal to or at least fifty percent (50%) of the ABC.

*For this purpose, similar contracts shall refer to **Civil Works and Water Supply System.***

Signature over Printed Name

Date _____

**(SUPPLIER OF AGGREGATES' COMPANY LETTER HEAD)
(BUSINESS ADDRESS)**

DATE:

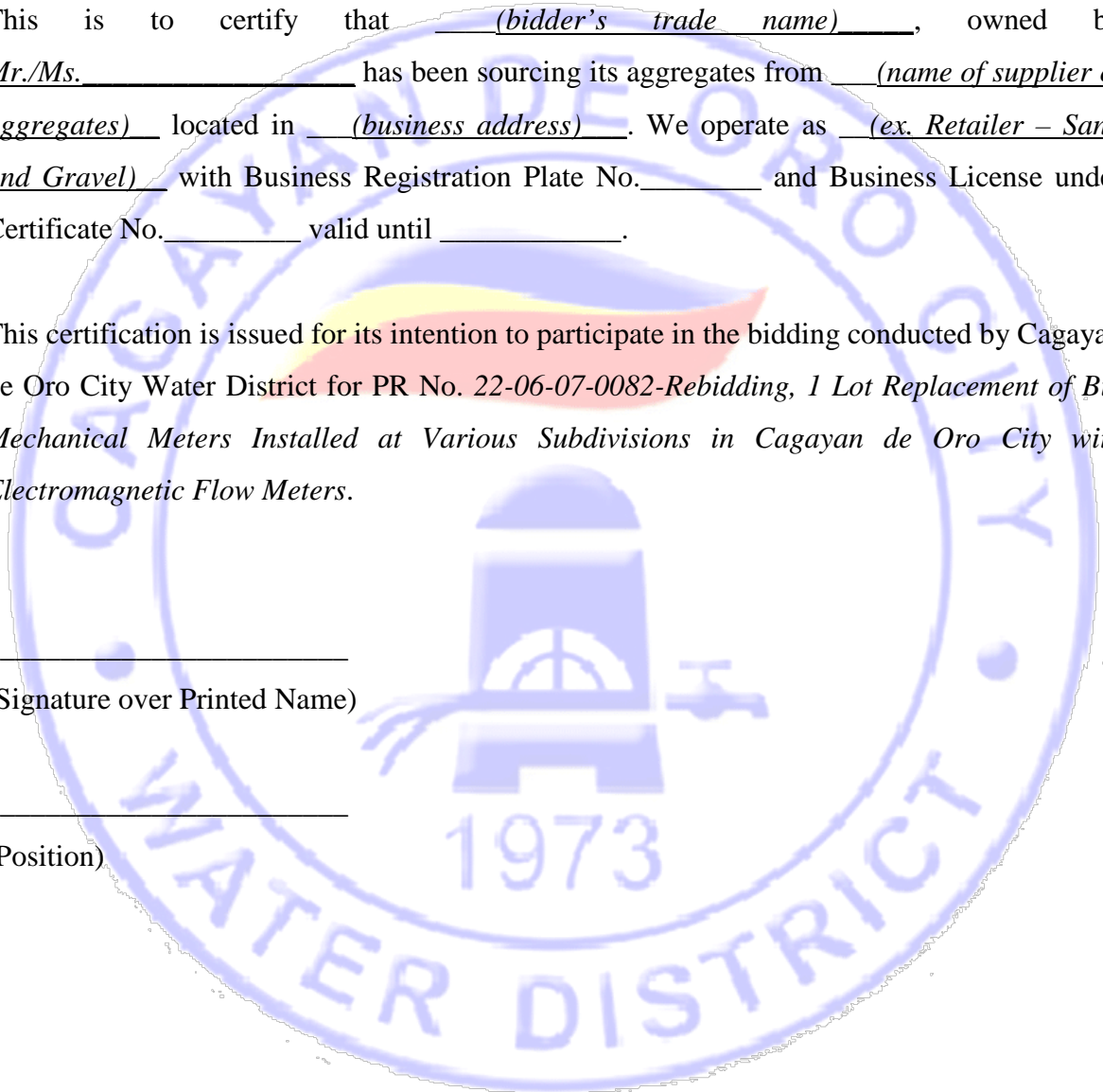
CERTIFICATION

This is to certify that (bidder's trade name), owned by Mr./Ms. has been sourcing its aggregates from (name of supplier of aggregates) located in (business address). We operate as (ex. Retailer – Sand and Gravel) with Business Registration Plate No. _____ and Business License under Certificate No. _____ valid until _____.

This certification is issued for its intention to participate in the bidding conducted by Cagayan de Oro City Water District for PR No. 22-06-07-0082-Rebidding, 1 Lot Replacement of Big Mechanical Meters Installed at Various Subdivisions in Cagayan de Oro City with Electromagnetic Flow Meters.

(Signature over Printed Name)

(Position)



Republic of the Philippines



Government Procurement Policy Board