

Republic of the Philippines CITY GOVERNMENT OF SAN CARLOS

Province of Negros Occidental

BIDS AND AWARDS COMMITTEE (BAC)

BIDDING DOCUMENTS

FOR

PURCHASE REQUEST NO. 4-23-11-1932

APPROVED BUDGET OF THE CONTRACT (ABC): P 31,100,000.00

FOR THE PROCUREMENT OF REHABILITATION AND UPGRADING OF WATER TREATMENT PLANT (DESIGN AND BUILD SCHEME)

WITH TERMS OF REFERENCE (TOR) AND PROJECT PLAN

(First Envelope: Eligibility and Technical Components)

SUBMITTED BY	:	
ADDRESS	:	
CONTACT NO.	:	
EMAIL ADDRESS	:	
		DATE OF SUBMISSION

INSTRUCTIONS TO BIDDERS

- 1. Please submit sets of documents completely in two separate envelopes:

 The First Envelope (Original, Copy 1 and Copy 2) containing Eligibility & Technical Documents
 The Second Envelope (Original, Copy 1 and Copy 2) containing Financial Documents.
- 2. Check that all annexes are in accordance with the prescribed format and submit in chronological order. Non-compliance is ground for disqualification.
- 3. Submit your complete bid documents on or before the time of the opening of bids mentioned below.
- 4. Electronic submission and receipt of bids is not available pending compliance with GPPB Resolutions.

Compliance of the above is for mutual advantage, i.e. to facilitate a complete and thorough evaluation of your bid documents.

SCHEDULES

Schedule/Place of Pre bid Conference:

January 11, 2024 @ 8:30 A.M BAC Secretarial Office 2F City Hall Building

Schedule/Place of Bid Opening:

January 23, 2024 @ 1:30 P.M BAC Secretarial Office 2F City Hall Building

Nonrefundable fee of Bidding Documents @ P 31,100.00

CONTRACT NAME: REHABILITATION AND UPGRADING OF WATER TREATMENT PLANT (DESIGN AND BUILD SCHEME)

LOCATION OF THE CONTRACT: SO. MEDINA, BRGY. RIZAL, SAN CARLOS CITY

CHECKLIST OF ELIGIBILITY AND TECHNICAL PROPOSALS/REQUIREMENTS

- 1. PHILGEPS Certificate of Registration and membership in accordance with Section 8.5.2 of R.A 9184 Platinum Membership
- 2. Joint Venture Agreement (JVA), if applicable
- 3. Net Financial Contracting Capacity (NFCC) based on the data submitted to the BIR thru its EFPS or Committed Line of Credit (CLCC) from a Universal or Commercial Bank
- Duly Notarized Statement of all On-Going Government and Private Contracts
- 5. Duly Notarized Statements of:
 - a. At least three (3) Completed Similar Contracts (Government or Private) for the last three (3) years.
 - b. Single Largest Completed Contract (SLCC) at least 50% of the total ABC.
- 6. PCAB License
- 7. Project Requirements:
 - a. Organizational Chart for the contract to be bid
 - b. List of Contractor's Personnel to be assigned to the contract to be bid with their complete qualification and experience data
 - c. List of Contractor's Equipment (owned, leased and/or under purchase agreements, supported by certification of availability of equipment from the equipment lessor/vendor for the duration of the project) to be assigned to the contract to be bid, with their complete qualification and experience data.
 - d. Duly Notarized Affidavit of Site Inspection (Please see attached Form)
 - e. PERT CPM or Ghantt Chart with S-Curve
- 8. Bid Security in any of the following forms:

a) Cash or cashier's / Manager's Check issued by a Universal or Commercial Bank in favor of the City Treasurer of San Carlos City. Two percent (2%) of the ABC

 Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank.
 Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank. Two percent (2%) of the ABC

c) Surety Bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such

Fiver percent (5%) of the ABC

d) Security.
Any combination of the foregoing

Proportionate to share form with respect to total amount of security

- e) Bid Securing Declaration
- Omnibus Sworn Statement in accordance with Sec. 25.3 (Please see attached Form)

CONTRACT NAME: REHABILITATION AND UPGRADING OF WATER TREATMENT PLANT (DESIGN AND BUILD SCHEME)

LOCATION OF THE CONTRACT: SO. MEDINA, BRGY, RIZAL, SAN CARLOS CITY



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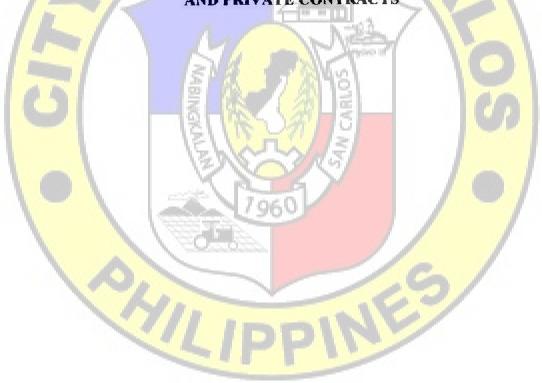
3. NET FINANCIAL CONTRACTING CAPACITY (NFCC) BASED ON THE DATA SUBMITTED TO THE BIR THRU ITS EFPS OR COMMITTED LINE OF CREDIT (CLCC) FROM A UNIVERSAL OR COMMERCIAL BANK



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4. DULY NOTARIZED STATEMENT OF ALL ON - GOING GOVERNMENT AND PRIVATE CONTRACTS



CONTRACT NAME: REHABILITATION AND UPGRADING OF WATER TREATMENT PLANT (DESIGN AND BUILD SCHEME)

LOCATION OF THE CONTRACT: SO. MEDINA, BRGY. RIZAL, SAN CARLOS CITY

5. DULY NOTARIZED STATEMENTS OF:

- A. AT LEAST THREE (3) COMPLETED SIMILAR CONTRACTS (GOVERNMENT OR PRIVATE) FOR THE LAST THREE (3) YEARS
- B. SINGLE LARGEST COMPLETED CONTRACT (SLCC) AT LEAST 50% OF THE TOTAL ABC



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PLANT (DESIGN AND BUILD SCHEME)

LOCATION OF THE CONTRACT: SO. MEDINA, BRGY. RIZAL, SAN CARLOS CITY

7. PROJECT REQUIREMENTS:

- A. ORGANIZATIONAL CHART FOR THE CONTRACT TO BE BID
- B. LIST OF CONTRACTOR'S PERSONNEL TO BE ASSIGNED TO THE CONTRACT TO BE BID WITH THEIR COMPLETE QUALIFICATION AND EXPERIENCE DATA
- C. LIST OF CONTRACTOR'S EQUIPMENT (Owned, Leased and/or Under Purchase Agreements, Supported By Certification of Availability of Equipment from the Equipment Lessor/Vendor for the Duration of the Project) TO BE ASSIGNED TO THE CONTRACT TO BE BID, WITH THEIR COMPLETE QUALIFICATION AND EXPERIENCE DATA.
- D. DULY NOTARIZED AFFIDAVIT OF SITE INSPECTION (Please see Form Below)
- E. PERT CPM or Ghantt Chart with S-Curve

Name of the Procuring Emity

Contract Reference Number Name of the Contract Location of the Contract

Standard Form Number: SF-INFR-51 Revised on: August 11, 2004

	AFFIDAVIT OF SITE INSPECTION	7
Ľ,	(Representative of the Bidder), of legal age, civil stat	us Filipino and residing
at	(Address of the Representative) under oath, hereby depose	and say:
1.	That I am the (Position in the Bidder) of the (Name of t	he Bidder), with office
	at(Address of the Bidder)	
2.	That I have inspected the site for (Name of the Contract)	, located at
	at (Location of the Contract) ;	
3.		
	(Name of the Bidder) for (Name of the Contra	ct)
	AITH WHEREOF, I hereby affix my signature this day of, Philippines.	, 20 at
SI 'BS	CRIBED AND SWORN TO before me this, day of	. 20 . affiant
	iting to me his/her Community Tax Certificate No.	
- 223	at, Philippines.	
		0.11.3
		(Notary Public) Until
		PTR No
		Date Place
		TIN
Docu	ment No.	
Page	No,	
Book Series		
	- Sec. 1	

Republic of the Philippines Republic of the Philippines City Government of San Carlos Province of Negros Occidental

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8. BID SECURITY

 a) Cash or cashier's / Manager's Check issued
 by a Universal or Commercial Bank in favor of City Treasurer of San Carlos City. Two percent (2%) of the ABC (See above)

Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial

- Bank. Provided, however, that is shall be confirmed or authenticated by a Universal or Commercial Bank.
- Two percent (2%) of the ABC (See above)
- c) Surety Bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.

Five percent (5%) of the ABC (See above)

- d) Any combination of the foregoing
 - 11.19
- e) Bid Securing Declaration (Please see Form Below)

Proportionate to share form with respect

REPUBLIC OF THE PHILIPPINES)
CITY OF SAN CARLOS, NEGROS OCCIDENTAL) S.S.

BID SECURING DECLARATION Project Identification No. / Purchase Request (PR) No.: 4-23-11-1932

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

[Jurat]

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

CONTRACT NAME: REHABILITATION AND UPGRADING OF WATER TREATMENT PLANT (DESIGN AND BUILD SCHEME)

LOCATION OF THE CONTRACT: SO. MEDINA, BRGY. RIZAL, SAN CARLOS CITY

9. OMNIBUS SWORN STATEMENT

for

Purchase Request (PR) No. 4-23-11-1932

REPUBLIC OF THE PHILIPPINES)
CITY OF SAN CARLOS, NEGROS OCCIDENTAL) 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:
- I. [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 alfinity 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 h	ereunto se	t my	hand	this	day of	 20	at	 . 4
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]



SUBMITTED BY

Republic of the Philippines CITY GOVERNMENT OF SAN CARLOS

Province of Negros Occidental

BIDS AND AWARDS COMMITTEE (BAC)

BIDDING DOCUMENTS

FOR

PURCHASE REQUEST NO. 4-23-11-1932

APPROVED BUDGET OF THE CONTRACT (ABC): P 31,100,000.00

FOR THE PROCUREMENT OF REHABILITATION AND UPGRADING OF WATER TREATMENT PLANT (DESIGN AND BUILD SCHEME)

WITH TERMS OF REFERENCE (TOR) AND PROJECT PLAN

(Second Envelope: Financial Component)

ADDRESS	:			
CONTACT NO.	i			
EMAIL AD	:			
		DATE OF	SUBMISSION	Ţ

INSTRUCTIONS TO BIDDERS

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SCHEDULES

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January 11, 2024 @ 8:30 A.M BAC Secretarial Office

2F City Hall Building

Schedule/Place of Bid Opening:

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Nonrefundable fee of Bidding Documents @ P 31,100.00

CONTRACT NAME: REHABILITATION AND UPGRADING OF WATER TREATMENT PLANT (DESIGN AND BUILD SCHEME)

LOCATION OF THE CONTRACT: SO. MEDINA, BRGY. RIZAL, SAN CARLOS CITY

CHECKLIST OF FINANCIAL PROPOSALS/REQUIREMENTS

- 1. Duly Signed Bid Form
- 2. Duly Signed Bid Price in the Bill of Quantities (BOQ) containing the total bid amount
- 3. Duly Signed Detailed Estimates
- 4. Duly Signed Cash Flow by Quarter and Payment Schedule

OHILIF

City Government of San Carlos Province of Negros Occidental

CONTRACT NAME: REHABILITATION AND UPGRADING OF WATER TREATMENT PLANT (DESIGN AND BUILD SCHEME)

LOCATION OF THE CONTRACT: SO. MEDINA, BRGY. RIZAL, SAN CARLOS CITY

I DULL DIVITED DID IVE	1	BID FORM
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	100	A	Date:	
Project Identification	Purchase Request No.	4.23.11.1932		

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 guidelines 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 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].
- 1. 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:		75	
Legal Capacity:			
Signature:	1 10-		 <u> </u>
Duly authorized to sign the Bid for and	l behalf of:		
Date:			

CONTRACT NAME: REHABILITATION AND UPGRADING OF WATER TREATMENT PLANT (DESIGN AND BUILD SCHEME)

DULY SIGNED BID PRICE IN THE BILL OF QUANTITIES (BOQ) CONTAINING THE TOTAL BID AMOUNT

(C	olumns (1), (2) and (3) are to be f Entity)	illed up by the	Procuring	(Columns (4) and (5) ar Bidd	
	<u>Description</u>	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
1	Dosing	System with	Acce <mark>ssorie</mark> s a	nd Electrical Contr <mark>ols</mark>	A
	pH Adjustor (NaOH): Dosing Pump – 1 unit -Type: Compression type -Capacity: 120 ml/minDischarge Pressure: 1.0 MPa -Power: 200 W, 220 V, 3 Phase, 60hz. Chemical Drum – 1 unit -Capacity: 200 liters -Tank Size: 0.578 Ø x 0.902 ht. – meters -Tank Material: MDPE Coagulant (PAC): Dosing Pump - 1 unit -Type: Viscosity type	Set	960 960	NES	
	-Capacity:2000 ml/minDischarge Pressure: 1.0 MPa -Power: 200 W, 220 V, 3 Phase, 60hz. Chemical Drum - 1 unit -Capacity: 200 liters -Tank Size: 0.578 Ø x 0.902 ht meters -Tank Material: MDPE Flocculant (Polymer): Dosing Pump - 1 unit -Type: Compression type -Capacity:1000 ml/minDischarge Pressure: 1.0 MPa -Power: 200 W, 220 V, 3 Phase, 60hz.	Set	1		
	Chemical Drum – 1 unit -Capacity: 200 liters -Tank Size: 0.578 Ø x 0.902 ht. – meters -Tank Material: MDPE				

	Chemical Mixing	Set	1		
	Motor Specification -3sets -Type: Vertical Gera Motor Output -Speed: 30-60 RPM -Power: 0.75 kW, 220 V, 3 phase, 60 hz. Mixing Tank- 3 units -Capacity: 370 liters -Size: 0.762 Ø x 0.850 ht meters	S	AI	CA	
2	Flocculation Tank (w/ foundation, pipes and fittings) -Capacity: 20.65 m³ -Tank Size: 1.90 Ø x 7.28 ht. – meters -Materials: 6.4 mm thk. M.S. Plate; Epoxy Coated Pipe size: 8" Ø Manhole: 0.60 Ø - meters	Set MABINGKALLAM	1060	SAW CARLOS	000
3	Clarifier Tank (w/ foundation, pipes and fittings) -Tank Size: 0.246 x 3.812 x 5.888 - meters -Materials: 6.4 mm thk. MS Plate; Epoxy Coated -Type. Inclined Plate Lamella Clarifier -Angle of Inclination: 60° -Pipe Size: 8" Ø Portable Monitoring Devices	Set	PP	INES	
5	Chemical during testing	Lot	1		
6	Labor Cost (installation/commissioning)	Lot	1		
7	Engineering Studies	Lot	1		
11	Water intake pump (use existing controls)	pes	2		
12	MMF booster pump with electrical controls	pes	2		
13	Multi-Media Filter Tanks Rehabilitation	pes	4		

14	Shipment and Mobilization	lot	1			
15	Temporary Facility	lot	A'A			
16	Health and Safety	lot	-1-4		1	
17	Professional Fees and Operations Manual	lot		-7		
18	Accommodation	lot	1	N.E.	71	
	3	MABINGIAN	то	TAL BII	O COST	In words: PHP
	-	THE STATE OF THE S	960	\$ / ·		In figures: PHP
Subi	mitted by:	111	Date:		3	
Nan	ne of the Representative of the I	Bidder		112		
Posi	tion					
Nan	ne of the Bidder Company					

CONTRACT NAME: REHABILITATION AND UPGRADING OF WATER TREATMENT PLANT (DESIGN AND BUILD SCHEME)

LOCATION OF THE CONTRACT: SO. MEDINA, BRGY. RIZAL, SAN CARLOS CITY



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3. DULY SIGNED CASH FLOW BY QUARTER AND PAYMENT SCHEDULE





TERMS OF REFERENCE FOR THE

UPGRADING OF WATER TREATMENT PLANT

(DESIGN AND BUILD SCHEME)

Prepared by:

JERIC F. VILLARINO

Engineer III

Recommended by

ENGR. EDWARD C. SANCHEZ

City Gov't Dept. Head I

Approved:

HON RENAPO Y. GUSTILO

City Mayor



I. PROJECT DESCRIPTION



This project involves the upgrading of the existing water treatment plant with a production capacity of 5.0 MLD to handle and process raw water with turbidity of 6000 NTU, which is located at Eco-Translink Hwy, Medina, Brgy. Rizal, San Carlos City, the Ando-on river being the water source. The injection point where water will be conveyed is a 200 mm diameter pipeline located within the Medina water treatment facility. The intended beneficiary of this water treatment plant is the City Waterworks Department's concessionaire.

II. CONCEPTUAL DESIGN

The project concept is to upgrade and retrofit the existing Medina Water Treatment Plant (WTP) and its intake as source of water to guarantee the potability of the water supply to the different barangays of City of San Carlos using the surface water from Ando-on River. The raw water from the river will be pumped to the Water Treatment Plant (WTP) to undergo series of processes to remove sediments, microbes and other impurities to ensure that the water reaching each barangay or interconnection points complies with the quality set forth in the 2017 Philippine National Standards for Drinking Water (PNSDW). (Kindly see attached image of conceptual design).

III. THE CONTRACTOR

Conduct Inspection of site and issue duly signed Affidavit of Site Inspection as part of the bidding requirement.





IV. PROJECT REQUIREMENTS

a. Pumping Capacity

The Surface Water Abstraction Facility with a capacity of 5.0 MLD that can withstand high water undulation at the designated abstraction point. The Abstraction Facility consists of the following:

A. Pump & Motor

a) Intake Pump

Flowrate - 6,000 cubic meter per day

Head - 24 meters

Power - 37 kW, 440 V, 3 Phase, 60 Hz

b) Booster Pump

Flowrate - 6000 cubic meter per day

Head - 30 meters

Pipe size - 6 inches' diameter

Power - 30 kW, 440 V, 3 Phase, 60 Hz

- c) Spare units of 6.0 MLD pumping equipment
- B. Pipe and fittings
- C. Electrical Systems and Control

b. Turbidity Equipments

The 5.0 MLD Water Treatment Plant that can handle and process incoming raw water with turbidity levels up to 6,000 NTU. Regardless of the quality of the raw water, the product water turbidity shall not exceed 5 NTU. It shall consist of the following:

- A. Tanks and Pipe Lay-out
 - a) Flocculation Tank

Volume – 20.64 cubic meter

Tank size – 1.90 diameter x 7.28 ht meters





Pipe size – 8 inches diameter

b) Clarifier Tank

Tank size - 9.246 x 3.812 x 5.888 meters

Pipe size - 8 inches diameter

- B. Rehabilitation of existing 4 Multi-media Filter (MMF)
- C. Chemical Feeding & Disinfection Facilities
- D. Flow meter (online), Turbidity meter, pH meter, Residual Chlorine
- E. Electrical System & Controls

c. Water Quality

The treatment plant shall produce treated water effluent conforming to the 2017 PNSDW, thus will undergo testing and commissioning and shall be supplied with necessary chemicals and technical training including water analysis for seven (7) weeks probation.

d. Electrical Power Supply and Control System Requirements

- 1. The electrical power supply and control system shall include but not limited to the main and branch circuit overcurrent protective devices, motor controllers including all protective and monitoring relay systems required for the complete operation of the plant and all necessary wiring, conduits and grounding systems. Electrical power and control system shall be wired so that the various items of plant equipment can be operated manually to achieve the intended sequence of operation.
- 2. Factory wired plant components shall be interconnected so as to be an integral part of the plant.
- 3. Provide surge protection to prevent damage to electric motors and all other electrical and electronic components during fluctuation of voltage, during resumption of power supply after a power interruption and from the effects of lightning.





4. The WTP battery limit (excluding intake, product pumping and booster) should not be more than 0.3 kwh/m3, Power to Treated Water Ratio within the plant.

General Requirements

All processes and facilities shall be designed to meet the performance requirements of the proposed WTP. The inter-connectivity between existing plant, support services and structures must be an integrated approach to meet operational performance, flexibility, maintenance and reliability criteria.

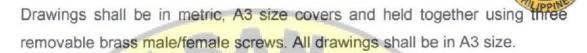
- 1. Design Report, Construction and Shop Drawings
- a. The Design Report shall contain all engineering design details related to the Project including electrical and mechanical design, structural design and Bill of Materials. All design calculations shall be orderly compiled and submitted to the Procuring Entity as an integral part of the Design Report.
- b. The drawings shall show the complete assembly and construction details of the plant with all the equipment and appurtenant components. The layout shall indicate the relative location of the plant with respect to the boundary of the lot.
 - Operation & Maintenance Manuals and List of Spare Parts

Prepare and submit draft Operation and Maintenance Manual with lists of Spare Parts for the plant including all equipment, thirty (30) calendar days before the Intended Completion Date. Submit the completed Operation and Maintenance Manual within two weeks of receiving review comments in the form of two digital copies on CD and four hard copies using the latest versions of Word and AutoCAD with supplementary drawing and image files in PDF format.

Manuals shall be in metric, A4 in size with three ring binders with durable







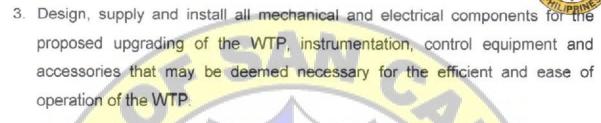
The Operation and Maintenance Manuals shall:

- i. Cover all aspects of the works
- ii. General description (location, site lay-out, design criteria, etc.)
- Principles of Operation shall be prepared by the contractor and should include the necessary information for operators to effectively operate and maintain the works.
- iv. Incorporate safety, environmental and quality issues.
- v. Have detailed indexes and cross referencing.
- vi. Spare parts list (illustrations and schedules)

V. SCOPE OF WORKS

The necessary works for the upgrading of the existing Water Treatment Plant including rehabilitation of existing water filtration shall include but not be limited to the following:

- Upgrade the Water Treatment Plant (WTP) to be able to treat raw water with a
 turbidity of up to 6,000 NTU. The WTP shall include but not limited to raw
 water pump, flocculation tank, clarifier, chlorination, chemical dosing
 equipment and rehabilitation of existing 4 units MMF. The WTP shall be able
 to produce an effluent that meets the parameters prescribed in the 2017
 Philippine National Standards for Drinking Water (PNSDW).
- Upgrade and construct of associated civil works including site development for WTP facilities. The civil works shall include but not be limited to foundation works, formworks, concreting, and painting works.



- 4. The WTP will also be equipped with an on-line monitoring for flowrate and other parameters such as: turbidity, pH, residual chlorine is equipped with portable monitoring devices.
- 5. Provide appropriate electromagnetic (if applicable) flow metering devices for inflow and outflow measurements.
- 6. Design and construct of support facilities such as chemical mixing facilities and chemical injection to the pipe line.
- 7. Commissioning and performance testing of the WTP for one (1) month upon issuance of mechanical completion.

VI. PROJECT DURATION

The Project must be completed within two hundred (200) working days from receipt of Notice to Proceed.

VII. MANPOWER REQUIREMENT

The Contractor must demonstrate that it has designed and constructed similar water treatment facilities and has the personnel for the key positions that meet the following requirements:



The contractor shall provide details of the proposed personnel and their experience records.





VIII. LIST OF EQUIPMENTS

The Contractor must demonstrate that it will have access to the key equipment listed hereafter:

Item /	Equipment Type and Characteristics
1	Dump Truck
2	Backhoe
3	Roller Compactor
4	Concrete Mixer
5	Jackhammer with Compressor
6	Concrete Vibrator
7	Bar Cutter
8	Welding Machine 7960
9	Boom Truck

IX. WARRANTY

Warranty shall be for a period of one (1) year from the turn- over of the completed whole project.

Prepared by:

JERIC F. VILLARINO

Engineer III

Recommended by:

ENGR. EDWARD C. SANCHEZ

City Gov't, Dept. Head I

Approved by:

HON. RENATO Y. GUSTILO

City Mayor

