MINUTES OF THE PRE-BID CONFERENCE FOR PACKAGE 5: PROCUREMENT OF SUPPLY AND INSTALLATION OF VARIOUS EQUIPMENT AND FACILITIES HELD ON JUNE 17, 2020 AT THE MKWD MESS HALL, LANAO, KIDAPAWAN CITY.

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Present:

Engr. Ramil A. Condez, CE,RMP,MBA	-	BAC 1 Chairman
Engr. Elben S. Daquipa, MBA	-	BAC Vice- Chairman
Esmeraldo P. Dagan, MBA	-	BAC Member
Abraham S. Calawen Jr.	-	BAC Member, Technical Head
Engr. Canuto A. Codilla, Jr.	-	BAC Head Secretariat
Keziah Jemima R. Soriano	-	BAC Working Secretary
Engr. Carl Oniel F. Pastoriza	-	BAC Alternate Working Secretary

Others Present:

1. Jeana A. Acupan	-	Sr. Info Officer A
2. Rodolfo B. Estrella	-	Observer/Tri-Media Association
3. Charlie P. Lumagod	-	Observer/Union of Employees
4. John Benedict G. Fonte	-	Optimus Engr.&Const. /Bidder
5. Fernando M. Maguino	-	888 Sunstar/Bidder
6. Luzviminda J. Tan	-	888 Sunstar/Bidder
7. Patan Karmanza	-	888 Sunstar/Bidder
8. Antonie P. Umali	-	Reftec Industries/Bidder
9. Margie E. Dacuscus	-	Decktop Builders/Bidder
10. John Benedict G. Fonte	-	Optimus Engr.&Const. /Bidder
11. Reynan Pingoy	-	Summa Water Res Inc./ Bidder via videoconference
12. Flordeliz Samson	-	Summa Water Res Inc./ Bidder via videoconference
13. Other Assisting Staffs/MKWD representatives		

The meeting was called to order by the Chairman at ten o'clock in the morning with an opening prayer led by BAC Member, Mr. Canuto A. Codilla. After which, the Vice Chairman, Elben S. Daquipa acknowledged participants per attendance. The BAC 1 Chairman, Ramil A. Condez informed the body that five (5) invitation letters were sent to observers to witness and observe the proceedings of the Pre-bid Conference scheduled on July 06, 2020 10:00AM at MKWD Messhall, MKWD Compound, Lanao, Kidapawan City and the same had been delivered June 30, 2020. The Chairman mentioned that the letter of invitations was addressed to the Commission on Audit (COA), Department of Public Works and Highways, Engr. Rodolfo Estrella of Tri-Media Association and Rev. Cromwell Steve Rabaya representative from NGO/Mediatrix MPC and Chalie P. Lumagod of MKWD Union of Employees. However, there are (2) observer attended the proceedings, Mr. Rodolfo B. Estrella, President Tri-Media Association and Mr. Chalie P. Lumagod, President,MKWD Union of Employees.

I. <u>OVERVIEW OF THE PROJECT:</u>

The Chairman informed the Body that the upcoming Public Bidding is on July 01, 2020 for the **PACKAGE 5: PROCUREMENT OF SUPPLY AND INSTALLATION OF VARIOUS EQUIPMENT AND FACILITIES** and presented all the details in the Invitation to Bid;

The LOCAL WATER UTILITIES ADMINISTRATION has received a Loan from the Asian Development Bank toward the cost of the Water District Development Sector Project, and it intends to apply part of the proceeds of this loan to payments under the contract of the Procurement of Supply and Installation of Various Equipment and Facilities of Metro Kidapawan Water District for Lot A and Lot B.

1. The Metro Kidapawan Water District (MKWD) now invites bids for Package 5 - Procurement of Supply and Installation of Various Equipment and Facilities(**Lot A**-Supply and Installation of six (6) lots Modular Ground Water Impounding Structures and one (1) lot Modular Treatment Plant Facility and **Lot B**-Supply and Installation of Data Loggers, CCTV System and Other Equipment). Delivery of the Goods and Services is required within **ninety (90) calendar days** upon the receipt of Notice to Proceed. Bidders should have completed, within five (5) years from the date of

submission and receipts of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Sub-section 5, Section II. Instructions to Bidders and the corresponding Asian Development Bank Bid Data Sheet.

2. Bidding will be conducted in accordance with relevant procedures for open competitive bidding as specified in the Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the "Government Procurement Reform Act", with some amendments, as stated in these Bidding Documents and is open to all Bidders from eligible source countries as defined in the applicable procurement guidelines of the Asian Development Bank. The contract shall be awarded to the Lowest Calculated Responsive Bidder (LCRB) who was determined as such during post-qualification. The total approved budget for the contract (ABC) for **Package 5** is **PhP 127,140,000.00**(Lot A- PhP79,500,000.00 and Lot B-PhP47,640,000.00).

3. Interested bidders may obtain further information from Metro Kidapawan Water District and inspect the Bidding Documents at the address given below during office hours, 8:00 a.m. – 5:00 p.m. except on weekends and non-working holidays.

4. A complete set of Bidding Documents may be acquired by interested Bidders on 23**June 2020** but before **10:00 a.m. of 21July 2020** from the address below and upon payment of the applicable fee for the Bidding Documents in the amount of **PhP25,000.00**.

   It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

5. The MKWDwill hold a Pre-Bid Conference on **6 July2020, 10:00 a.m.** at the MKWD Office at the address below, which shall beopen to prospective bidders. Pre-bid conference may be conducted in person or face-to-face through videoconferencing, webcasting, or similar technology, or a combination thereof.

6. Bids must be duly received by the BAC Secretariat at the address below on or before **21 July2020, 10:00 a.m.**. All Bids must be accompanied by a Bid Security in any acceptable forms and in the amount stated in ITB Clause 18.

   Bid opening shall be on **21July2020, 10:00 a.m.**at the MKWD Office. Bids will be opened in the presence of the Bidders' representatives who choose to attend at the address below. Late bids shall not be accepted.

7. The MKWDreserves the right to accept or reject any bid, to annul the bidding process, and to reject all bids at any time prior to contract award, in accordance with ADB's Procurement Policy and Regulations, without thereby incurring any liability to the affected bidder or bidders.

The Chairman requested the proponent, Engr. Canuto A. Codilla, Division Manager of the Planning & Design Division to present and discuss the Terms of Reference (TOR). Mr. Codilla presented the TOR through multi-media presentation for the PACKAGE 5: PROCUREMENT OF SUPPLY AND INSTALLATION OF VARIOUS EQUIPMENT AND FACILITIES.

The following were discussed:

Purpose/Aim of the Project:

- ✓ Enhance the system of water supply operations of the district for the next fifteen (15) years.

Development plan:

- ✓ Source Development
- ✓ Facilities
- ✓ Main/Transmission/Distribution Lines
- ✓ System Upgrading

Rehabilitation Projects

Development of Three (3) 200 m³ Ground Water Source at:

- ✓ Brgy. Manubuan, Municipality of Matalam
- ✓ Brgy. Magsaysay, Kidapawan City
- ✓ Brgy. Bulakanon, Municipality of Makilala
- ✓

Development of Seven (7) Water Impounding Structures:

- ✓ Buhay Water Impounding Structure**(1,500 cu.m)**
- ✓ Lapaan Treatment Plant Facilities Water Impounding Structure II **(1,300 cu.m)**
- ✓ Marbel Water Impounding Structure **(300 cu.m)**
- ✓ Magpet Water Impounding Structure **(300 cu.m)**
- ✓ Kalaisan Water Impounding Structure **(300 cu.m)**
- ✓ Taluntalunan Water Impounding Structure **(300 cu.m)**
- ✓ San Vicente Water Impounding Structure **(300 cu.m)**

Facilities:

- ✓ Pumping Facilities with equipment
- ✓ Treatment Facilities
- ✓ Storage/Utility Facilities
- ✓ Guard Houses
- ✓ Comfort Rooms
- ✓ Perimeter Fences

System Facility Improvements:

- ✓ Water Meter Calibration Facility
- ✓ Water Resources and Production Department Office
- ✓ Central Monitoring Station/Engineering and Construction Department Office

APPROVED BUDGET OF THE CONTRACT

Other specifications required is indicated in the Terms of Reference (TOR) and included in the bidding documents based on RA 9184. He also informed the interested bidder that bidding documents must have proper labeling or tabbing for prompt and straightforward checking of documents.

PROJECT COMPOSITION FOR <u>LOT A</u>: (ABC- PhP79,500,000.00)

INSTALLATION OF MODULAR WATER IMPOUNDING STRUCTURES AND TREATMENT FACILITY

Item No	Description	Quantity	Units
1	Modular Mechanical Clarifier and Flocculation Tanks	1	lot
2	Ground Modular Steel Tank - 1,300 cu.m.	1	lot
3	Ground Modular Steel Tank 300 cu.m.	5	lots

PROJECT COMPOSITION FOR <u>LOT B</u>: (ABC- PhP47,640,000.00)

INSTALLATION OF DATA LOGGERS, CCTV SYSTEM AND OTHER EQUIPMENTS

Item No	Description	Quantity	Units
1	Vertical Multistage Centrifugal Booster Pump	6	sets
2	Generator Set 125Kva with Auto-Transfer Switch	6	sets
3	Chlorine Gas Feeder w/ Complete Accessory	6	sets

4	Water Meter Calibration Facility Tester Bench Equipment	2	sets
5	Installation Data Logger (Pressure & Flow Reading)	21	units
6	Installation Data Logger (water level indicator for reservoirs)	21	units
7	Portable Ultrasonic Flow Meter complete set with	2	units
8	Portable Water Quality Monitoring Equipment	2	units
9	Online Water Quality Monitoring Equipment with Data Logger	10	lots
10	Pumping Station Monitoring System	5	units
11	Installation of Central Monitoring Station System Configuration and IT Equipment	1	lot
12	Installation of CCTV Units	12	lots
13	Pneumatic Piercing Tool	1	set

Project Composition For Lot A: (Abc- Php79,500,000.00)
Project Composition For Lot B: (Abc- Php47,640,000.00)
TOTAL APPROVED BUDGET of THE CONTRACT- P 127,140,000.00

Project Composition For Lot A: Installation Of Modular Water Impounding Structures And Treatment Facility

LOCATION 2: BRGY. MARBEL, KIDAPAWAN CITY

INSTALLATION OF:
1. MARBEL WATER IMPOUNDING STRUCTURE (300 CU.M)

13

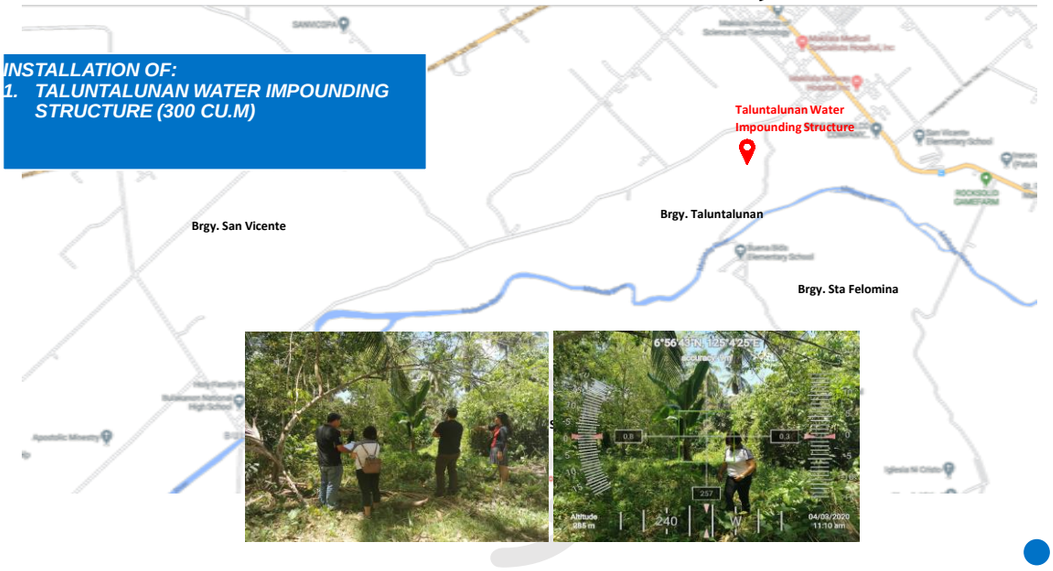
LOCATION 3: BRGY. TAGBAC, MAGPET

INSTALLATION OF:
1. MAGPET WATER IMPOUNDING STRUCTURE (300 CU.M)

14

LOCATION 4: BRGY. TALUNTALUNAN, MAKILALA

INSTALLATION OF:
1. TALUNTALUNAN WATER IMPOUNDING STRUCTURE (300 CU.M)

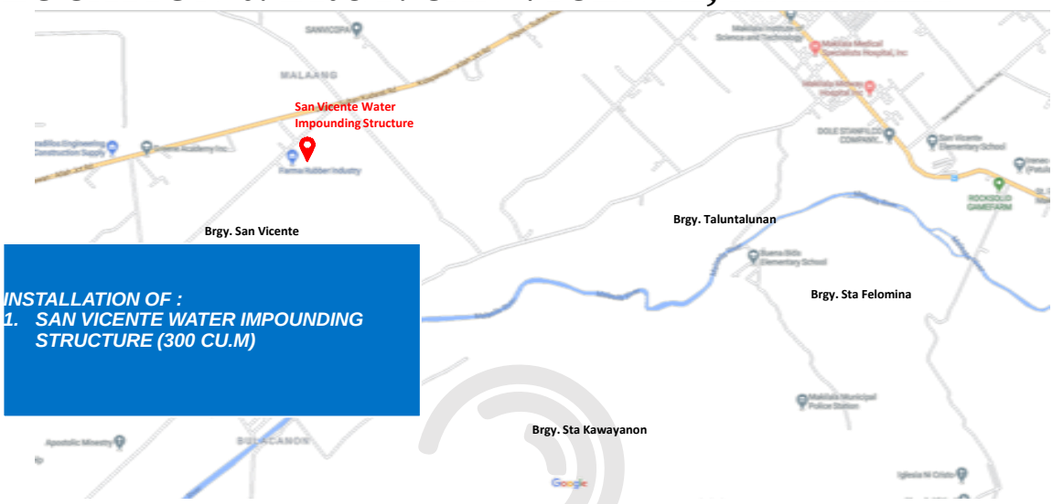


LOCATION 5: BRGY. KALAISAN, KIDAPAWAN CITY

INSTALLATION OF :
1. *KALAISAN WATER IMPOUNDING STRUCTURE (300 CU.M)*

16

LOCATION 6: BRGY. SAN VICENTE, MAKILALA



INSTALLATION OF :
1. *SAN VICENTE WATER IMPOUNDING STRUCTURE (300 CU.M)*

<u>LOT B-</u> INSTALLATION OF DATA LOGGERS, CCTV SYSTEM AND OTHER EQUIPMENTS

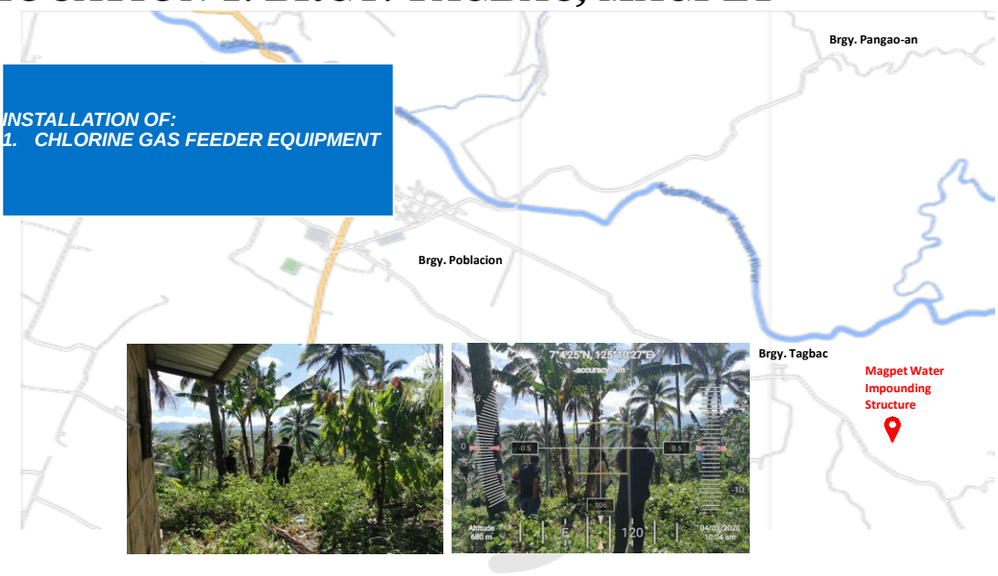
LOCATION 1: BRGY. MARBEL, KIDAPAWAN CITY

INSTALLATION OF:
1. *100HP BOOSTER PUMP AND 125 KVA GEN-SET*
2. *CHLORINE GAS FEEDER EQUIPMENT*

19

LOCATION 2: BRGY. TAGBAC, MAGPET

INSTALLATION OF:
1. *CHLORINE GAS FEEDER EQUIPMENT*



20

LOCATION 4: BRGY. KALAISAN, KIDAPAWAN CITY

INSTALLATION OF :
1. *100HP BOOSTER PUMP AND 125 KVA GEN-SET*
2. *CHLORINE GAS FEEDER EQUIPMENT*

22

LOCATION 3: BRGY. TALUNTALUNAN, MAKILALA

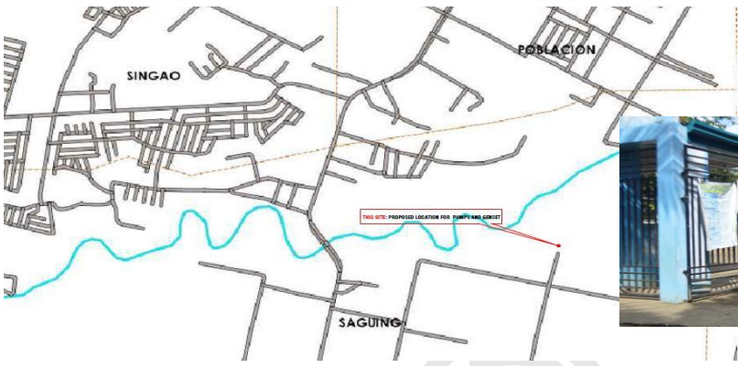
INSTALLATION OF:
1. *100HP BOOSTER PUMP AND 125 KVA GEN-SET*
2. *CHLORINE GAS FEEDER EQUIPMENT*

LOCATION 6 : MKWD MANONGOL RES., BRGY. MANONGOL, KIDAPAWAN CITY

INSTALLATION OF :
1. WATER METER CALIBRATION FACILITY TESTER BENCH EQUIPMENT
2. CENTRAL MONITORING STATION SYSTEM CONFIGURATION AND IT EQUIPMENT

24

LOCATION 7 :SYSTEM BOOSTER PUMP



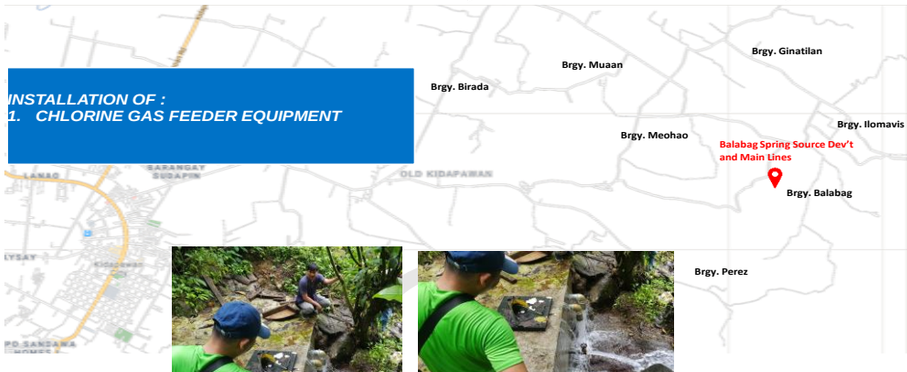
SAGUING RESERVOIR COMPOUND, BRGY. SAGUING, MAKILALA

INSTALLATION OF :
1. *100HP BOOSTER PUMP AND 125 KVA GEN-SET*

25

LOCATION 9: BALABAG SPRING DEVELOPMENT & MAIN LINES- FACILITIES, BRGY. BALABAG, KC

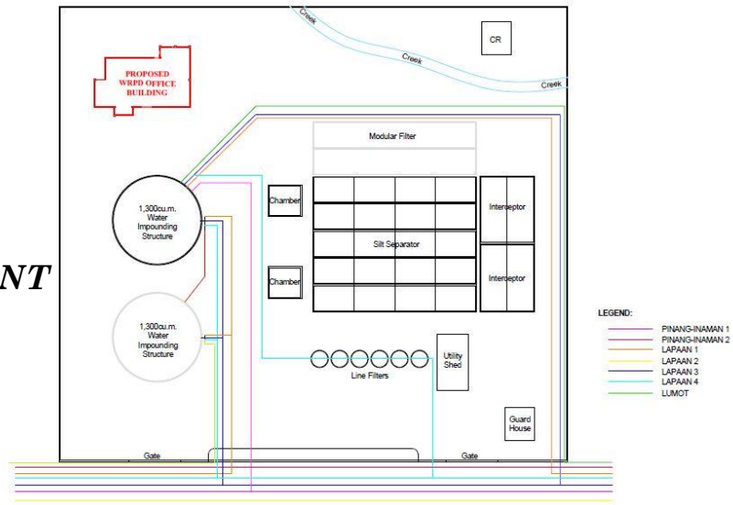
INSTALLATION OF :
1. *CHLORINE GAS FEEDER EQUIPMENT*



22

PROPOSE LTPF PHASE 3 AND PEREZ WATER IMPOUNDING STRUCTURE

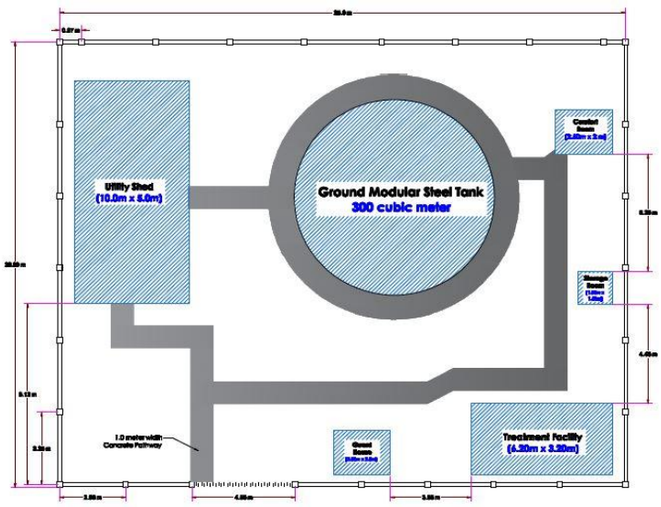
SITE DEVELOPMENT PLAN



29

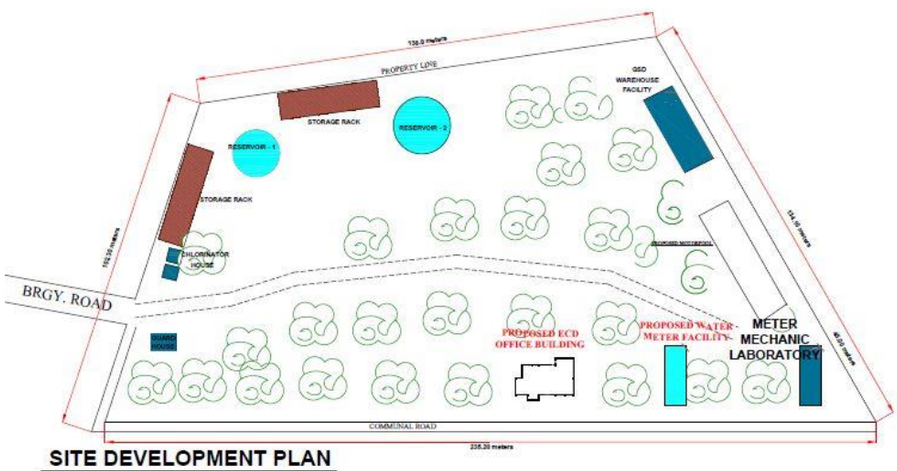
PROPOSE WATER IMPOUNDING STRUCTURE-FACILITIES

SITE DEVELOPMENT PLAN



28

PROPOSE WATER METER CALIBRATION FACILITY AND ECD OFFICE BUILDING



30

INSTALLATION OF DATA LOGGERS FOR EXISTING FLOW METER

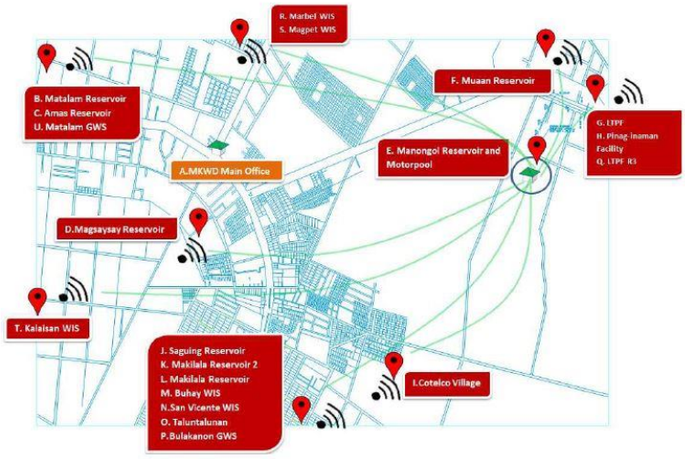
DATA LOGGERS FOR EXISTING FLOW METERS

LEGEND:

Distance of Facilities				
STATION FROM	STATION TO	ROUTE DISTANCE (km)	PLANE AERIAL DISTANCE (km)	No. of Units
K	A	3.50	2.90	
K	B	15.0	14.50	1
K	C	11.0	8.0	2
K	D	12.0	10.50	1
K	E	16.0	12.0	1
K	F	6.50	5.50	1
K	G	6.50	5.0	1
K	H	6.0	4.50	9
K	I	7.50	6.0	1
K	J	10.0	8.50	2

A=MKWD MAIN BUILDING
B=AMAS AREA-SEMI ARC
C=MAKILALA AREA
D=PUWAGAN SOURCE
E=INANAPO SOURCE
F= COTELCO VILLAGE RESERVOIR
G=MAGSAYSAY RESERVOIR
H=LAPAAN TREATMENT PLANT FACILITY
I=PINAG-INAMAN SOURCE
J=BONGOLANON SOURCE
K=MANONGOL RESERVOIR/MAIN STATION

INSTALLATION OF DATA LOGGERS FOR MKWD RESERVOIRS



INSTALLATION OF DATA LOGGERS FOR RESERVOIRS

Distance of Facilities				
STATION FROM	STATION TO	ROUTE DISTANCE (km)	PLANE AERIAL DISTANCE (km)	No. of Units
E	A	3.50	2.90	
E	B	26.5	24.89	2
E	C	15.0	14.10	1
E	D	6.50	5.6	1
E	E	On same site	On same site	1
E	F	8.50	7.00	1
E	G	6.0	4.50	1
E	I	6.50	5.50	1
E	J	10.0	7.6	1
E	K	11.0	8.0	1
E	L	14.0	12.0	1
E	M	36.0	35.0	1
E	N	15.0	13.50	1
E	O	20.0	17.0	1
E	P	23.0	18.0	1
E	Q	6.0	4.50	1
E	R	10.0	9.6	1
E	S	10.0	7.6	1
E	T	7.50	6.0	1
E	U	28.0	26.0	1

LEGEND:
A=MKWD MAIN BUILDING
B=MATALAM RESERVOIR
C=AMAS RESERVOIR
D=MAGSAYSAY RESERVOIR
F=MUAAN RESERVOIR
G= LTPF RESERVOIR 2
I=COTELCO VILLAGE RESERVOIR
J= SAGUING RESERVOIR
K=MAKILALA RESERVOIR 2
L= MAKILALA RESERVOIR
M= BUHAY WATER IMPOUNDING STRUCTURE
N= SAN VICENTE WATER IMPOUNDING STRUCTURE
O= TALUNTALUNAN WATER IMPOUNDING STRUCTURE
P= BULAKANON GROUND WATER SOURCE
Q= LTPF RESERVOIR 3
R= MARBEL WATER IMPOUNDING STRUCTURE
S= MAGPET WATER IMPOUNDING STRUCTURE
T= KALAISAN GROUND WATER SOURCE
U= MATALAM GROUND WATER SOURCE

INSTALLATION OF CCTV UNITS FOR FACILITIES

INSTALLATION OF CCTV SYSTEM

Distance of Facilities				
STATION FROM	STATION TO	ROUTE DISTANCE (km)	PLANE AERIAL DISTANCE (km)	No. of Units
E	B	23.00	21.60	3
E	C	11.60	11.40	2
E	D	2.60	2.10	2
E	E	3.50	2.90	2
E	F	8.50	7.00	2
E	G	9.00	7.80	5
E	H	11.00	10.00	2
E	I	3.50	2.50	2
E	J	7.00	4.00	2
E	K	8.00	5.20	2
E	L	11.00	9.00	2

LEGEND:
A = MKWD main office
B = Matalam Reservoir
C = Amas Reservoir
D = Magsaysay Reservoir
E = Manongol Reservoir and Motorpool
F = Muaan Reservoir
G = Lapaan Treatment Plant Facilities
H = Pinag-inaman Facility
I = Cotelco Village Reservoir
J = Saguing Reservoir
K = Makilala Reservoir 2
L = Makilala Reservoir

SOIL SUB-SURFACE INVESTIGATION for modular tanks

A. SCOPE OF WORK

The exploratory holes are to be drilled at the site of the proposed one (1) -1,300 cu.m and five (5) -300 cu.m modular steel reservoir to determine the general condition of the area for foundation purposes. Such foundation shall consist of concrete ring beam footing as per manufacturer's standard sizes in capacity with an approximate overflow height of 5.0 m above the existing ground surface, weighs approximately 1,300 metric tons and 300 metric tons excluding weight of structure when fully filled with water. All the foregoing structures are to be made of steel, except the foundation footings with the following design criteria:

Soil Bearing Capacity -	3000 psf
Dead Liveload -	15 psf
Working Pressure-	Atmospheric
Basic Design Wind Load-	200 KPH
Earthquake Zone-	Zone 4

B. RESPONSIBILITY OF THE ENGINEER

1. The Engineer is defined as any authorized representative of Metro Kidapawan WD.
2. The Engineer shall secure right of access to and exit from site of the work, including permission of the property owner.

3. The Engineer shall furnish the Contractor with a drawing of the location of the site, to indicate the following information:

   a. Location of the borings,

   b. Location of bench marks to which all elevations shall be referred.

   4. The Engineer shall mark boring locations in the field by stakes and establish elevation of the ground surface.

C. CONTRACTOR RECORDS

The Contractor shall record on tracing paper, which shall contain all pertinent information secured, including, but not limited to:

1. The vertical section describing the soil and rock formations encountered as determined by visual classifications of the soil samples and rock cores;

2. The elevation or depth below ground surface at which the samples were taken;

5. The standard penetration results for each sample;

6. The depth at which core drilling was started;

   7. The depth to which core drilling was carried;

   8. The core recovery;

   9. Information as to water reading in drill hole as read;

   10. Loss of circulating water;

   11. Blows in the casing;

   12. A location plan, prepared in sufficient detail to enable the engineer to re-establish the locations at which the borings were made.

   13. The method used to ascertain the elevation of the water readings.

D. REQUIRED SOIL PARAMETERS

Soil samples from the site of the proposed elevated steel tank should be analyzed to determine the sub-soil identification and characteristics such as cohesion, grain size characteristics, shear, and compressive strengths, consolidation characteristics, proximity or location of earthquakes fault lines in the site area, influence chart for soil pressure, angle of internal friction, weight-volume relationship, plasticity index (Atterberg Tests), moisture content, porosity and whatever additional tests which in the opinion of the soil engineer will be necessary in his evaluation.

E. REPORT

A soil sub-surface investigation report duly signed by a Geotechnical Engineer shall be submitted in five copies. Such report shall contain the investigation results, evaluation and recommendations, including all the necessary exhibits of complete data gathered and investigated such as:

1. Location Map of Actual Boreholes

2. Depth and Logging of Boreholes

3. Laboratory Test Results

The evaluation shall consider the proposed structure to be constructed and any problem which could be anticipated such as groundwater variations, seismic forces, etc. Likewise, structures that are already existing shall also be given due consideration. The minimum distance of new excavation from existing structures without lateral supports or shorings should be stated.

The recommendations shall include the foundation depths and schemes possible and the characteristics parameters for each scheme such as soil bearing capacity, pile friction force, "Z" factor, characteristic site period, soil adhesion or coefficient of friction (for structure

F. STANDARD TEST BORING METHODS

1. Borings shall be made by advancing a pipe casing having a nominal inside diameter not less than 63 mm (2- 1/2 in).
2. Borings shall be advanced by the use of a chopping bit attached to the end of a string of drill pipe.
3. Whenever a change in soil formation is observed, chopping and washing shall cease.
4. After chopping, washing and circulation of water have come to a complete halt, a Standard Penetration Test, as described below, shall be made to secure sample of the material below the bottom of the boring.

G. STANDARD PENETRATION TEST

Standard Penetration Test shall be made, as follows:

1. The spoon shall be standard 50 mm (2 in.) OD split sample spoon, having an inside diameter not less than 36 mm (1- 3/8 in.).

2. The sample spoon shall be lowered to the hole and driven with a 63.5 kg (140 lbs.) weight having free fall 0.75 m (30 in.). The number of blows required to drive the sample spoon every 0.15 m (6 in.) for a total penetration of 0.45 m (18 in.) shall be recorded.
   The sample spoon may be driven further than 0.45 m (18 in.) to secure recovery of the sample. In very dense materials where it is not practicable to drive the sample spoon the full 0.45 m (18 in.), the penetration record shall show the number of blows required to drive the spoon through the distance penetrated.
3. Upon removal of the ample spoon from the boring, a representative section of the sample recovered shall be taken out and placed in a moisture-proof watertight metal container of screw-top glass bottle, and the following shall be legibly printed on the bottle cap:
   a) Borehole number
   b) Number of the sample
   c) Depth at which the sample was taken
   d) Number of blows required to drive the sample
4. The sample container or bottle shall have a capacity of not less than 0.23 kg (8 oz) properly labeled with the foregoing information. Sampling shall be done at intervals of not more than 1.5 meters or whenever a change in formation is indicated by the washwater or cuttings.

1. When it is required that boring be carried into rock, such work shall be done by diamond bit which will recover not less than 25.5 mm (1- 1/8 in.) diameter core. Where unusual difficulties are encountered, smaller cores may be used, with permission of the engineer. Diamond drilling shall be carried to a depth of not less than 1.5 m (5 ft.) into bedrock.
2. Cores obtained from the diamond drilling shall be measured carefully and a record shall be kept of the ratio of the lineal feet of the core recovered to the distance drilled. This ratio is known as the "percentage of core recovery".
3. The core shall be placed in hinged boxes of suitable length and construction so that they may be held in relative position during transportation from the job site to their destination. They shall be so marked that core recovered may be identified as to the hole number, the drill-run number, and depth of the drill-run number. The alignment of the core from top to bottom shall be indicated.

I. DEPTH OF BORINGS

The depth of borings shall be 15 meters unless a sound rock layer is encountered. In such case, the Contractor shall drill not less than 1.5 meters but not greater than 3.0 meters into the rock layer such that the physical properties of the rock can be determined. If after drilling to a depth of 15m., soft formation is still encountered (n-value< 15), drilling should continue to a depth of 20 meters more or until a hard layer is encountered, whichever comes first.

J. UNDISTURBED SAMPLES (WHERE REQUIRED) FROM COHESIVE SOILS USING A PLAIN SHELBY TUBE ADAPTOR

The Contractor shall be equipped to obtain undisturbed samples as follows:

1. In cases where 63 mm (2-1/2 in.) casing is used, or 50mm (2 in.) seamless steel, aluminum, or brass tube, having a wall thickness of approximately 0.75 m. (30 in.) shall be used to obtain undisturbed samples for laboratory tests.
   Engineer may instruct the Contractor where to take 50 mm (2 in.) undisturbed samples. In any case, the contractor shall extract at least one (1) shelby tube sample for each distinct cohesive layer encountered.
2. In cases where 100 mm (4 in.) casing is used, a 75 or 88 mm (3 or 3-1/2 in.) ID seamless steel, aluminum, or brass tube, having a wall thickness of 16 or 18 gauge and a length of approximately 0.75 (30 in.) shall be used to obtain undisturbed samples for laboratory tests.
3. Undisturbed samples from cohesive soils shall be taken by the following method:
   a) The boring shall be prepared by carefully cleaning out the accumulated settled solids, using a jet clean-out auger or a water jet having a nozzle that will direct the flow of water upwards.
   b) After cleaning the boring, the sampling device and tube shall be lowered to the bottom of the hole and forced to undisturbed soil for the full length, if possible. A pull-down device, weights or hydraulic pressure shall be used to force the tube into the soil at a rate sufficiently slow to permit the water in the tube to escape through the ball check valve without creating excessive back pressure.
   c) The sampler shall be rotated one full turn and carefully withdrawn from the boring.
   d) The tube with its contained sample shall be disconnected from adaptor, the upper end of the tube shall be cleaned out of all disturbed materials and filled with hot paraffin. Soil 25 mm (1 in.) up from the cutting edge on the lower end of the tube shall be removed, and the space shall be filled with hot paraffin.
   e) The ends of the tube shall then be capped with an aluminum, brass or plastic cup, and both ends sealed with adhesive tape.
   f) Each sample shall be identified with a label and handled with extreme care to avoid jarring.

K. STANDARD WATER READING

Water level readings shall be taken upon completion of the borehole, at 24 hours and again at 48 hours after removal of the casing.

- ***CONTRACT DURATION***
- *90 (Ninety) Calendar Days*

- **WARRANTY**

  Please refer to GCC Clause 17

- GCC Clause 17.4. The period for correction of defects in the warranty period is fifteen (15) days.

The Chairman informed the Body who were present that the Invitation to Bid was posted in the PhilGEPS and posted at the conspicuous areas of Metro Kidapawan Water District starting June 23, 2020.

The Chairman said that Lot A and Lot B are separate bidding. Interested bidders can join the two (2) biddings and the Bid Documents of the following will be:

PACKAGE 5: PROCUREMENT OF SUPPLY AND INSTALLATION OF VARIOUS EQUIPMENT AND FACILITIES	Approved Budget Cost (ABC)	Cost of Bid Documents
LOT A: INSTALLATION OF MODULAR WATER IMPOUNDING STRUCTURES AND TREATMENT FACILITY	**PhP79,500,000.00**	**PhP 25,000.00**
LOT B: INSTALLATION OF DATA LOGGERS, CCTV SYSTEM AND OTHER EQUIPMENTS	**PhP47,640,000.00**	**PhP 25,000.00**

He added to reaffirmed that the details mentioned was included in the bidding documents which will be available to interested suppliers as indicated in the Invitation to Bid (ITB). For further queries and details, it can be viewed at MKWD website at www.metrokidapawanwd.gov.ph.

Since there being no clarifications raised from the body, the Chairman called for the adjournment of the Pre-bid Conference.

There were no other matters to be discussed the meeting was adjourned at 11:48 in the morning.

X- X

CERTIFICATION

I hereby certify to the correctness of the above transcription of the minutes of the Pre-bid Conference for the **PACKAGE 5: PROCUREMENT OF SUPPLY AND INSTALLATION OF VARIOUS EQUIPMENT AND FACILITIES** held on July 06, 2020 at MKWD Mess Hall, MKWD Compound, Kidapawan City.

SGD. KEZIAH JEMIMA R. SORIANO
BAC1-Working Secretary

CERTIFIED CORRECT:

SGD. ENGR. CANUTO A. CODILLA, JR.
BAC Head Secretariat

SGD. ENGR. ELBEN S. DAQUIPA, MBA
Vice Chairman

SGD. ABRAHAM S. CALAWEN JR.
Technical Head

SGD. ESMERALDO P. DAGAN, MBA
Vice Chairman

ATTESTED:

SGD. ENGR. RAMIL A. CONDEZ, CE/RMP/MBA
BAC1 Chairman