

Annex “A”

Supply, Delivery and Installation of Sewage Treatment Plant (STP) System at MCWD Main Office Building

1. DISMANTLING AND DISPOSAL OF EXISTING ROTATING BIOLOGICAL CONTACTOR (RBC) SEWAGE TREATMENT FACILITY

The supplier shall be responsible to dismantle the existing RBC (see As-built Plan). The reusable materials shall be turned over to MCWD. The supplier at his own expense shall dispose the discard materials and provide the necessary transportation to haul the reusable materials to the MCWD Talamban warehouse.

2. INSTALLATION OF MATERIALS FOR SEWAGE TREATMENT PLANT.

The supplier shall provide all the manpower, tools and equipment to install all the materials comprising the proposed SBR sewage treatment plant in accordance with the Plans. The installation works shall be done in close coordination with the MCWD representative/s. All materials including workmanship shall be subject for inspection. The supplier shall provide temporary safety enclosure of the worksite before the supplier shall start the installation activities.

The installation shall be completed within forty-five (45) calendar days.

3. TESTING AND COMMISSIONING

As a background, the influent from the existing MCWD Main Office and Annex Building has the following characteristics:

pH	=	6.0 - 9.0
Total Suspended Solids	=	200 ppm
BOD	=	400 ppm
COD	=	700 ppm
Nitrate	=	30 ppm
Fats and Grease	=	20 ppm

The supplier shall conduct testing and commissioning after the installation of SBR sewage treatment facility. The supplier shall provide the necessary tools, equipment and manpower for this activity. The cost of laboratory tests shall be borne by the supplier.

The supplier must meet the Environmental Management Bureau (EMB) parameters criteria of the effluent in order to evaluate project completion. The effluent shall conform to the following DENR-EMB Standard:

pH	:	6.0-9.0
BOD	:	50 ppm
COD	:	100 ppm

TSD	:	100 ppm
Nitrate	:	14 ppm
Fats and grease	:	10 ppm
Fecal coliform	:	400 MPN/100 L

The supplier shall provide MCWD copy of all effluent laboratory test results.

The testing and commissioning shall be performed within fifteen (15) calendar days. Payment to the supplier shall be made only after the above parameters are met.

4. TRAINING OF MCWD PERSONNEL.

Prior to project turnover, the supplier at his own expense must conduct appropriate training to MCWD assigned personnel on operations and maintenance of sewage treatment plant. The MCWD will provide the venue for the training.

5. DISCHARGE PERMIT

The MCWD shall issue a Certificate of Acceptance to the supplier after the supplier has passed the testing and commissioning. Immediately after, the supplier shall assist MCWD in securing the discharge permit.

The supplier shall assist MCWD in applying the discharge permit with the DENR-EMB. The MCWD however, will be responsible to pay for the permit application fees. The supplier will be responsible for collecting data, providing laboratory reports and sampling results for the application of discharge permit.

The supplier shall assist MCWD personnel in the operation and maintenance of the sewage treatment facility within one (1) year from the issuance of the Certificate of Acceptance.

