

## **Section VII. Drawings**

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Republic of the Philippines  
DEPARTMENT OF AGRICULTURE  
PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY  
PCA Annex Building, Elliptical Road, Diliman, Quezon City

## SECTION VIII. BILL OF QUANTITIES



## CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF ILOILO FISH PORT COMPLEX (IFPC)

Iloilo City

OCTOBER 2019



**SCHEMA**  
Eng'rs & Associates

*Joint venture with*



**WSP Philippines, Inc.**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF ILOILO  
FISHPORT COMPLEX**

**PREAMBLE**

**NOTE:**

- 1.0 The items, description and quantities given on the first three columns of this list guides only to the Bidder interpreting the plans and specifications. The PFDA is not responsible for any mistakes, inaccuracies, duplications or omissions in these list special quantities which shall never be a basis for additions nor deletions to the scope of work. Only the entries of the Bidder on the last three columns consisting of his own take off quantities from the plans and his unit cost and corresponding sums shall be considered.
- 2.0 These bill of quantities and costing as prepared by the Bidder cannot be used as basis for claims for any extra work, but may only be used solely by the Owner as aid in judging if bid is a responsive bid.
- 3.0 The unit and total bid prices must include all direct and indirect cost/expenses such as overhead, contingencies and miscellaneous (OCM); profit; value added tax, and other obligations of any kind under which the contract must be borne by the Contractor since they are necessary to install, construct and complete the whole of the contract in accordance with the bid documents.
- 4.0 Use the Form, Detailed Estimate (Detailed Unit Price Analysis) in the preparation of Detailed Cost Estimate (Derivation of Unit Cost and Lump Sum Item) for every work item.



Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
**PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY**  
 PCA Annex Building, Elliptical Road, Diliman, Quezon City

**BID PROPOSAL FORM**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City  
**BID PRICE SUMMARY**

| ITEM NO.   | WORK DESCRIPTION   | BID AMOUNT                 |
|------------|--|----------------------------|
|            |  | <b>EDC + VAT + MARK-UP</b> |
| <b>1.0</b> | <b>GENERAL REQUIREMENTS</b>  |                            |
|            | <b>TOTAL OF 1.0</b>  | _____                      |
| <b>2.0</b> | <b>MARINE AND CIVIL WORKS</b>  |                            |
| 2.1        | Construction of New Breakwater (160 l.m.)                              | _____                      |
| 2.2        | Dredging of Harbor (from level -5.0 m, Surface Area=60,744 sq.m.)      | _____                      |
| 2.3        | Repair of Existing Breakwater  | _____                      |
| 2.4        | Multipurpose Wharf (Accessories)                                       | _____                      |
| 2.5        | Demolition of Existing Structures                                      | _____                      |
|            | <b>TOTAL OF 2.0</b>  | _____                      |
| <b>3.0</b> | <b>ROAD WORKS</b>  |                            |
|            | <b>TOTAL OF 3.0</b>  | _____                      |
| <b>4.0</b> | <b>UTILITIES</b>   |                            |
| 4.1        | Drainage System  | _____                      |
| 4.2        | Construction of Rainwater Tank   | _____                      |
| 4.3        | Water Distribution System  | _____                      |
| 4.3.1      | Provision of New Elevated Stainless Steel Water Tank 100cu.m. capacity | _____                      |
| 4.3.2      | Rehabilitation and Expansion of Water Distribution System              | _____                      |
| 4.3.3      | Leak Detection and Repair  | _____                      |
| 4.4        | Sewerage System  | _____                      |
| 4.5        | Storm Drainage System (from Building to nearest DMH)                   | _____                      |
| 4.6        | Deepwell Development   | _____                      |
| 4.7        | Other Equipment  | _____                      |
| 4.7.1      | Wastewater Treatment Equipment   | _____                      |
| 1          | Wastewater Treatment Equipment (WWTF-1) @ New Market Hall              | _____                      |
| 2          | Wastewater Treatment Equipment (WWTF-2) @ Existing Refrigeration Bldg. | _____                      |
| 4.7.3      | Seawater Treatment @ New Market  | _____                      |
| 4.7.3.1    | Seawater Treatment Equipment   | _____                      |
| 4.7.3.2    | Seawater Intake and Booster Pump                                       | _____                      |
| 4.8        | Power Supply and Electrical System                                     | _____                      |
| 4.9        | Turns Ratio Tester   | _____                      |
| 4.10       | Oil Tester   | _____                      |
|            | <b>TOTAL OF 4.0</b>  | _____                      |
| <b>5.0</b> | <b>MISCELLANEOUS</b>   |                            |
| 5.1        | Security fence   | _____                      |
| 5.2        | Navigational Aids  | _____                      |
| 5.3        | CCTV and Public Address Paging System                                  | _____                      |
| 5.4        | Landscaping  | _____                      |
| 5.5        | Upgrading of Office Tables and   | _____                      |
| 5.6        | Refrigeration System   | _____                      |

| ITEM NO.                          | WORK DESCRIPTION   | BID AMOUNT |
|-----------------------------------|--|------------|
| 5.7                               | Outdoor LED Display  | _____      |
| 5.8                               | Provision for solar complete with Inverter, Panel board, PV module, wires, mounting structure and all necessary item to complete the system. | _____      |
| <b>TOTAL OF 5.0</b>               |  | _____      |
| <b>6.0</b>                        | <b>BUILDING WORKS</b>  |            |
| 6.1                               | Construction of Market   |            |
| 6.1.1                             | Construction of New Market Hall  | _____      |
| 6.1.2                             | Repair /Rehab of Existing Market   | _____      |
| 6.2                               | Construction of Commercial Building (2 Storey Bldg. Roof Slab)   | _____      |
| 6.3                               | Construction of G.A.D. Building  | _____      |
| 6.4                               | Construction of Cold Storage Building  |            |
| 6.4.1                             | Proposed new 8 rooms cold storages   | _____      |
| 6.4.2                             | Repair /Rehab of Refrigeration Building (uPVC Roofing including dismatling)  | _____      |
| 6.5                               | New Construction of Public Toilets   | _____      |
| 6.6                               | Construction of Solid Waste Facility   |            |
| 6.6.1                             | Construction of Solid Waste Facility (SWF-1)   | _____      |
| 6.6.2                             | Construction of Solid Waste Facility (SWF-2)   | _____      |
| 6.7                               | Wastewater Treatment   |            |
| 6.7.1                             | Wastewater Treatment Facility (WWTF-1) @ New Market Hall   | _____      |
| 6.7.2                             | Wastewater Treatment Facility (WWTF-2) @ Existing Refrigeration Bldg.  | _____      |
| 6.8                               | Seawater Treatment @ New Market  |            |
| 6.8.1                             | Seawater Treatment Facility (Seawater Pump House 5 sq. m)  | _____      |
| <b>TOTAL OF 6.0</b>               |  | _____      |
| <b>TOTAL BID PRICE IN FIGURES</b> |  | _____      |

In Words: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Construction Company : \_\_\_\_\_

Contractor's Representative : \_\_\_\_\_

Signature : \_\_\_\_\_



Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
**PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY**  
 PCA Annex Building, Elliptical Road, Diliman, Quezon City

**BILL OF QUANTITIES**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO.   | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|------------|--|------------------|--------------------|-------|---|------------|
|            | <b>S U M M A R Y</b>   |                  |                    |       |   |            |
| <b>1.0</b> | <b>GENERAL REQUIREMENTS</b>  | 1                |                    | l.s.  |   |            |
| <b>2.0</b> | <b>MARINE AND CIVIL WORKS</b>  |                  |                    |       |   |            |
| 2.1        | Construction of New Breakwater (160 l.m.)  | 1                |                    | l.s.  |   |            |
| 2.2        | Dredging of Harbor (from level -5.0 m, Surface Area=60,744 sq.m.)  | 1                |                    | l.s.  |   |            |
| 2.3        | Repair of Existing Breakwater  | 1                |                    | l.s.  |   |            |
| 2.4        | Multipurpose Wharf (Accessories)   | 1                |                    | l.s.  |   |            |
| 2.5        | Demolition of Existing Structures  | 1                |                    | l.s.  |   |            |
| <b>3.0</b> | <b>ROAD WORKS</b>  | 1                |                    | l.s.  |   |            |
| <b>4.0</b> | <b>UTILITIES</b>   |                  |                    |       |   |            |
| 4.1        | Drainage System  | 1                |                    | l.s.  |   |            |
| 4.2        | Construction of Rainwater Tank   | 1                |                    | l.s.  |   |            |
| 4.3        | Water Distribution System  |                  |                    |       |   |            |
| 4.3.1      | Provision of New Elevated Stainless Steel Water Tank 100cu.m. capacity   | 1                |                    | l.s.  |   |            |
| 4.3.2      | Rehabilitation and Expansion of Water Distribution System  | 1                |                    | l.s.  |   |            |
| 4.3.3      | Leak Detection and Repair  | 1                |                    | l.s.  |   |            |
| 4.4        | Sewerage System  | 1                |                    | l.s.  |   |            |
| 4.5        | Storm Drainage System (from Building to nearest DMH)   | 1                |                    | l.s.  |   |            |
| 4.6        | Deepwell Development   | 1                |                    | l.s.  |   |            |
| 4.7        | Other Equipment  |                  |                    |       |   |            |
| 4.7.1      | Wastewater Treatment Equipment   |                  |                    |       |   |            |
| 1          | Wastewater Treatment Equipment (WWTF-1) @ New Market Hall  | 1                |                    | l.s.  |   |            |
| 2          | Wastewater Treatment Equipment (WWTF-2) @ Existing Refrigeration Bldg.   | 1                |                    | l.s.  |   |            |
| 4.7.3      | Seawater Treatment @ New Market  |                  |                    |       |   |            |
| 4.7.3.1    | Seawater Treatment Equipment   | 1                |                    | l.s.  |   |            |
| 4.7.3.2    | Seawater Intake and Booster Pump   | 1                |                    | l.s.  |   |            |
| 4.8        | Power Supply and Electrical System   | 1                |                    | l.s.  |   |            |
| 4.9        | Turns Ratio Tester   | 1                |                    | l.s.  |   |            |
| 4.10       | Oil Tester   | 1                |                    | l.s.  |   |            |
| <b>5.0</b> | <b>MISCELLANEOUS</b>   |                  |                    |       |   |            |
| 5.1        | Security fence   | 1                |                    | l.s.  |   |            |
| 5.2        | Navigational Aids  | 1                |                    | l.s.  |   |            |
| 5.3        | CCTV and Public Address Paging System  | 1                |                    | l.s.  |   |            |
| 5.4        | Landscaping  | 1                |                    | l.s.  |   |            |
| 5.5        | Upgrading of Office Tables and   | NA               |                    | l.s.  |   |            |
| 5.6        | Refrigeration System   | 1                |                    | l.s.  |   |            |
| 5.7        | Outdoor LED Display  | 1                |                    | l.s.  |   |            |
| 5.8        | Provision for solar complete with Inverter, Panel board, PV module, wires, mounting structure and all necessary item to complete the system. | 1                |                    | l.s.  |   |            |

| ITEM NO. | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|----------|---|------------------|--------------------|-------|---|------------|
| 6.0      | <b>BUILDING WORKS</b>   |                  |                    |       |   |            |
| 6.1      | Construction of Market  |                  |                    |       |   |            |
| 6.1.1    | Construction of New Market Hall   | 1                |                    | l.s.  |   |            |
| 6.1.2    | Repair /Rehab of Existing Market  | 1                |                    | l.s.  |   |            |
| 6.2      | Construction of Commercial Building (2 Storey Bldg. Roof Slab)                | 1                |                    | l.s.  |   |            |
| 6.3      | Construction of G.A.D. Building   | 1                |                    | l.s.  |   |            |
| 6.4      | Construction of Cold Storage Building   |                  |                    |       |   |            |
| 6.4.1    | Proposed new 8 rooms cold storages  | 1                |                    | l.s.  |   |            |
| 6.4.2    | Repair /Rehab of Refrigeration<br>Building (uPVC Roofing including dismating) | 1                |                    | l.s.  |   |            |
| 6.5      | New Construction of Public Toilets  | 1                |                    | l.s.  |   |            |
| 6.6      | Construction of Solid Waste Facility  |                  |                    |       |   |            |
| 6.6.1    | Construction of Solid Waste Facility (SWF-1)                                  | 1                |                    | l.s.  |   |            |
| 6.6.2    | Construction of Solid Waste Facility (SWF-2)                                  | 1                |                    | l.s.  |   |            |
| 6.7      | Wastewater Treatment  |                  |                    |       |   |            |
| 6.7.1    | Wastewater Treatment Facility (WWTF-1) @ New Market Hall                      | 1                |                    | l.s.  |   |            |
| 6.7.2    | Wastewater Treatment Facility (WWTF-2) @ Existing Refrigeration Bldg.         | 1                |                    | l.s.  |   |            |
| 6.8      | Seawater Treatment @ New Market   |                  |                    |       |   |            |
| 6.8.1    | Seawater Treatment Facility (Seawater Pump House 5 sq. m)                     | 1                |                    | l.s.  |   |            |
|          |   |                  |                    |       |   |            |
|          | <b>TOTAL CONSTRUCTION COSTS</b>   |                  |                    |       |   |            |
|          | <b>SAY</b>  |                  |                    |       |   |            |



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 Brgy. Tanza, Iloilo City

| ITEM NO.   | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|------------|---|------------------|--------------------|-------|---|------------|
| <b>1.0</b> | <b>GENERAL REQUIREMENTS</b>   |                  |                    |       |   |            |
| A          | FACILITIES FOR THE ENGINEER   |                  |                    |       |   |            |
| A.1.1      | FIELD OFFICE FOR THE ENGINEER/ PFDA STAFF   |                  |                    |       |   |            |
| A.1.1 (1)  | Operate and Maintain of Field Office for the Engineer   | 1                |                    | l.s.  |   |            |
| A.1.1 (2)  | Operate and Maintain of Living Quarters for the Engineer  | 1                |                    | l.s.  |   |            |
| A.1.1 (3)  | Provision of Furniture, Fixtures, Office Equipment and Appliances for the Office and Living Quarters for the Engineer | 1                |                    | l.s.  |   |            |
| A.1.1 (4)  | Provision of Office Supplies and Consumables Stores for the Engineer  | 36               |                    | mo.   |   |            |
| A.1.2      | SERVICE VEHICLE FOR THE ENGINEER/ PFDA STAFF  |                  |                    |       |   |            |
| A(4)a      | Provision of two (2)-unit Brand-new Service Vehicle for the Engineer  | 2                |                    | unit  |   |            |
| A.1.2 (2)  | Operation and Maintenance of two (2) unit Service Vehicle for the Engineer.   | 36               |                    | mo.   |   |            |
| A.1.3      | ASSISTANCE TO THE ENGINEER/ PFDA STAFF  |                  |                    |       |   |            |
| A.1.3 (1)  | Assistance to the Engineer - Provision Survey Equipment and Survey Personnel  | 1                |                    | l.s.  |   |            |
| A.1.4      | PROGRESS PHOTOGRAPHS  |                  |                    |       |   |            |
| A.1.4 (1)  | Progress Photographs  | 36               |                    | mo.   |   |            |
| A.1.5      | COMMUNICATION FACILITY FOR THE ENGINEER/ PFDA STAFF   |                  |                    |       |   |            |
| A.1.5 (1)  | Provision of Radio Communication Equipment for the Engineer   | 1                |                    | l.s.  |   |            |
| B          | OTHER GENERAL REQUIREMENTS  |                  |                    |       |   |            |
| B.1        | Construction Safety and Health  | 1                |                    | l.s.  |   |            |
| B.2        | Environmental and Social Safeguards   | 1                |                    | l.s.  |   |            |
| B.3        | Provide two (2) Project Signboard plus one (1) COA signboard  | 2                |                    | ea.   |   |            |
| B.4        | Mobilization / Demobilization   | 1                |                    | l.s.  |   |            |
|            | <b>Total 1.0 - GENERAL REQUIREMENTS</b>   |                  |                    |       |   |            |



| ITEM NO.   | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS        | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|------------|--|------------------|--------------------|--------------|---|------------|
|            |  |                  |                    |              |   |            |
| <b>2.0</b> | <b>MARINE AND CIVIL WORKS</b>  |                  |                    |              |   |            |
| <b>2.1</b> | <b>Construction of New Breakwater (160 l.m.)</b>   | <b>160</b>       |                    | <b>l.m.</b>  |   |            |
| 2.1.1      | Sea bed Preparation  | 4,981            |                    | sq.m.        |   |            |
| 2.1.2      | Bamboo Sheet Mat   | 4,981            |                    | sq.m.        |   |            |
| 2.1.3      | Geotextile Paving Fabric   | 4,981            |                    | sq.m.        |   |            |
| 2.1.4      | Core Rock 10~100kg/pc  | 13,944           |                    | cu.m.        |   |            |
| 2.1.5      | Stone 100~200kg/pc   | 1,230            |                    | cu.m.        |   |            |
| 2.1.6      | Armour Stone 700~800kg/pc  | 813              |                    | cu.m.        |   |            |
| 2.1.7      | Armour Stone 2T/pc   | 1,490            |                    | cu.m.        |   |            |
| 2.1.8      | Sand fill  | 2,006            |                    | cu.m.        |   |            |
| 2.1.9      | Concrete, 5000psi at 28-day with maximum aggregate size of 3/4" dia.                         | 1,667            |                    | cu.m.        |   |            |
| 2.1.10     | Steel Reinforcement Grade 60 including GI tie wires  | 312,400          |                    | kg           |   |            |
| 2.1.11     | Formwork, 3 uses   | 2,795            |                    | sq.m.        |   |            |
| 2.1.12     | Concrete Block   |                  |                    |              |   |            |
| 2.1.12.1   | Concrete Block 1.5mW x 2.0mL x 0.80mH  | 80               |                    | ea           |   |            |
| 2.1.12.2   | Concrete Block 2.0mW x 2.0mL x 0.80mH  | 103              |                    | ea           |   |            |
|            | <b>Total 2.1 - Construction of New Breakwater</b>  |                  |                    |              |   |            |
|            |  |                  |                    |              |   |            |
| <b>2.2</b> | <b>Dredging of Harbor (from level -5.0 m, Surface Area=60,744 sq.m.)</b>                     | <b>134,075</b>   |                    | <b>cu.m.</b> |   |            |
|            |  |                  |                    |              |   |            |
| <b>2.3</b> | <b>Repair of Existing Breakwater</b>   |                  |                    |              |   |            |
| 2.3.1      | Placing of New Armour Stone 700~800kg/pc   | 2,517            |                    | cu.m.        |   |            |
| 2.3.2      | Placing of New Armour Stone 1~2T/pc  | 1,769            |                    | cu.m.        |   |            |
| 2.3.3      | Placing of New Armour Stone 2T/pc  | 5,841            |                    | cu.m.        |   |            |
| 2.3.4      | Crack Sealing with epoxy injection 5-10mmW x 25-500mmD                                       |                  |                    | l.m.         |   |            |
| 2.3.5      | Epoxy Resin Bonding Agent/(prior to Concrete Surface for Repair of Pothole Patching existing |                  |                    | sq.m.        |   |            |
|            | <b>Total 2.3 - Repair of Existing Breakwater</b>   |                  |                    |              |   |            |
|            |  |                  |                    |              |   |            |
| <b>2.4</b> | <b>Multipurpose Wharf (Accessories)</b>  |                  |                    |              |   |            |
| 2.4.1      | Removed and Replaced of Existing Rubber Fender V 300mmH x 195-600mmW x 1.50mL                | 67               |                    | set          |   |            |
| 2.4.2      | Removed and Replaced of Existing Steel Mouring Bollard                                       | 34               |                    | set          |   |            |
|            | <b>Total 2.4 - Multipurpose Wharf (Accessories)</b>  |                  |                    |              |   |            |
|            |  |                  |                    |              |   |            |
| <b>2.5</b> | <b>Demolition of Existing Structures</b>   |                  |                    |              |   |            |
| 2.5.1      | Existing Old Market Building (1,937 sq.m.)   | 1                |                    | l.s.         |   |            |
| 2.5.2      | Existing Toilet Building -1 (53 sq.m.)   | 1                |                    | l.s.         |   |            |
| 2.5.3      | Existing Toilet Building -2 (13 sq.m.)   | 1                |                    | l.s.         |   |            |
| 2.5.4      | Existing Unfinished Building (1,347 sq.m.)   | 1                |                    | l.s.         |   |            |
|            | <b>Total 2.5 - Demolition of Existing Structures</b>   |                  |                    |              |   |            |
|            |  |                  |                    |              |   |            |
|            | <b>Total 2.0 - MARINE AND CIVIL WORKS</b>  |                  |                    |              |   |            |
|            |  |                  |                    |              |   |            |
| <b>3.0</b> | <b>ROAD WORKS</b>  |                  |                    |              |   |            |
| <b>3.1</b> | <b>Earthworks</b>  |                  |                    |              |   |            |

| ITEM NO.   | DESCRIPTION  | PFDA QUANTITY | BIDDER QUANTITY | UNITS       | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|------------|--|---------------|-----------------|-------------|---|------------|
| 1          | Bulk Excavation , common soil  | 594           |                 | cu.m.       |   |            |
| 2          | Common Backfill, Bulk from excavated materials   | 594           |                 | cu.m.       |   |            |
| 3          | Common Borrow Material (Imported Materials)  | 1,337         |                 | cu.m.       |   |            |
| <b>3.2</b> | <b>Construction of New Roadways along the Processing Plant, ROW=9.70m</b>  | <b>439</b>    |                 | <b>l.m.</b> |   |            |
| 1          | Clearing and Grubbing  | 4,254         |                 | sq.m.       |   |            |
| 2          | Removal and disposal of Topsoil (assume t=0.15m)   | 638           |                 | cu.m.       |   |            |
| 3          | Subgrade Preparation   | 4,254         |                 | sq.m.       |   |            |
| 4          | Subbase Course   | 658           |                 | cu.m.       |   |            |
| 5          | Portland Cement Concrete Pavement, 230mm. Thick  | 2,675         |                 | sq.m.       |   |            |
| 6          | Combination Concrete Curb and Gutter   | 878           |                 | l.m.        |   |            |
| 7          | Portland Cement Concrete Pavement, ( Plain ) 100mm. Thick  | 1,140         |                 | sq.m.       |   |            |
| 8          | Aggregate Surface Course for Sidewalk (t=100mm)  | 114           |                 | cu.m.       |   |            |
| <b>3.3</b> | <b>Remove and Replace Damaged Roadways along old Market Area, ROW=8.10m</b>  | <b>173</b>    |                 | <b>l.m.</b> |   |            |
| 1          | Removal of Existing Concrete Pavement (heavy equipment)  | 1,448         |                 | sq.m.       |   |            |
| 3          | Subgrade Preparation   | 1,448         |                 | sq.m.       |   |            |
| 4          | Subbase Course   | 280           |                 | cu.m.       |   |            |
| 5          | Portland Cement Concrete Pavement, 230mm. Thick  | 1,396         |                 | sq.m.       |   |            |
| 6          | Concrete Curb  | 173           |                 | l.m.        |   |            |
| <b>3.4</b> | <b>Construction of Reinforced Concrete Retaining Wall</b>  | <b>100</b>    |                 | <b>l.m.</b> |   |            |
| 1          | Earthworks   |               |                 |             |   |            |
| 1.1        | Building Layout  | 250           |                 | sq.m.       |   |            |
| 1.2        | Structure Excavation   | 413           |                 | cu.m.       |   |            |
| 1.3        | Backfill   | 242           |                 | cu.m.       |   |            |
| 1.4        | Gravel bedding   | 38            |                 | cu.m.       |   |            |
| 1.5        | Remove Surplus Excavated Material  | 171           |                 | cu.m.       |   |            |
| 2          | Concrete Works   |               |                 |             |   |            |
| 2.1        | Concrete, 3000psi at 28-day with maximum aggregate size of 3/4" dia.   | 195           |                 | cu.m.       |   |            |
| 2.1.6      | Steel Reinforcement Grade 40 including GI tie wires  | 17,100        |                 | kg.         |   |            |
| 2.1.7      | Formwork, 3 uses   | 1,112         |                 | sq.m.       |   |            |
|            | <b>Total 3.0 - ROAD WORKS</b>  |               |                 |             |   |            |
|            |  |               |                 |             |   |            |
| <b>4.0</b> | <b>UTILITIES</b>   |               |                 |             |   |            |
| <b>4.1</b> | <b>Drainage System - Improvement of Existing Drainage System</b>   |               |                 |             |   |            |
| 4.1.1      | Repair/Improvement of Existing Drainage System   |               |                 |             |   |            |
| 4.1.1      | Removal and disposal of Existing Reinforced Concrete Pipe Culvert RCPC   | 3,686         |                 | l.m.        |   |            |
| 4.1.2      | Reinforced Concrete Pipe Culvert RCP, Class II laying including trenching, backfilling, sandbedding and all incidentals to complete (depth based from bottom pipe to top elev) |               |                 |             |   |            |
| 4.1.2.1    | Reinforced Concrete Pipe Culvert, Class II (375mm.Ø)   |               |                 |             |   |            |
| 1          | RCP, Class II (375mm.Ø) (ave depth=1.0m)   | 48            |                 | l.m.        |   |            |
| 2          | RCP, Class II (375mm.Ø) (ave depth=1.25m)  | 244           |                 | l.m.        |   |            |
| 3          | RCP, Class II (375mm.Ø) (ave depth=1.50m)  | 46            |                 | l.m.        |   |            |
| 4.1.2.2    | Reinforced Concrete Pipe Culvert, Class II (450mm.Ø)   |               |                 |             |   |            |
| 1          | RCP, Class II (450mm.Ø) (ave depth=1.0m)   | 41            |                 | l.m.        |   |            |
| 2          | RCP, Class II (450mm.Ø) (ave depth=1.25m)  | 573           |                 | l.m.        |   |            |
| 3          | RCP, Class II (450mm.Ø) (ave depth=1.50m)  | 732           |                 | l.m.        |   |            |
| 4          | RCP, Class II (450mm.Ø) (ave depth=1.75m)  | 221           |                 | l.m.        |   |            |
| 5          | RCP, Class II (450mm.Ø) (ave depth=2.0m)   | 118           |                 | l.m.        |   |            |
| 6          | RCP, Class II (450mm.Ø) (ave depth=2.25m)  | 28            |                 | l.m.        |   |            |

| ITEM NO. | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|----------|---|------------------|--------------------|-------|---|------------|
| 7        | RCP, Class II (450mm.Ø) (ave depth=2.50m)               | 28               |                    | l.m.  |   |            |
| 8        | RCP, Class II (450mm.Ø) (ave depth=3.25m)               | 26               |                    | l.m.  |   |            |
| 4.1.2.3  | Reinforced Concrete Pipe Culvert, Class II (600mm.Ø)    |                  |                    |       |   |            |
| 1        | RCP, Class II (600mm.Ø) (ave depth=1.25m)               | 20               |                    | l.m.  |   |            |
| 2        | RCP, Class II (600mm.Ø) (ave depth=1.50m)               | 302              |                    | l.m.  |   |            |
| 3        | RCP, Class II (600mm.Ø) (ave depth=1.75m)               | 296              |                    | l.m.  |   |            |
| 4        | RCP, Class II (600mm.Ø) (ave depth=2.0m)                | 58               |                    | l.m.  |   |            |
| 5        | RCP, Class II (600mm.Ø) (ave depth=2.25m)               | 63               |                    | l.m.  |   |            |
| 6        | RCP, Class II (600mm.Ø) (ave depth=2.50m)               | 26               |                    | l.m.  |   |            |
| 7        | RCP, Class II (600mm.Ø) (ave depth=2.75m)               | 29               |                    | l.m.  |   |            |
| 8        | RCP, Class II (600mm.Ø) (ave depth=3.0m)                | 103              |                    | l.m.  |   |            |
| 4.1.2.3  | Reinforced Concrete Pipe Culvert, Class II (750mm.Ø)    |                  |                    |       |   |            |
| 1        | RCP, Class II (750mm.Ø) (ave depth=1.50m)               | 11               |                    | l.m.  |   |            |
| 2        | RCP, Class II (750mm.Ø) (ave depth=1.75m)               | 51               |                    | l.m.  |   |            |
| 3        | RCP, Class II (750mm.Ø) (ave depth=2.0m)                | 98               |                    | l.m.  |   |            |
| 4        | RCP, Class II (750mm.Ø) (ave depth=2.25m)               | 73               |                    | l.m.  |   |            |
| 5        | RCP, Class II (750mm.Ø) (ave depth=2.50m)               | 29               |                    | l.m.  |   |            |
| 6        | RCP, Class II (750mm.Ø) (ave depth=2.75m)               | 43               |                    | l.m.  |   |            |
| 4.1.2.4  | Reinforced Concrete Pipe Culvert, Class II ( 910mm.Ø )  |                  |                    |       |   |            |
| 1        | RCP, Class II (910mm.Ø) (ave depth=1.75m)               | 33               |                    | l.m.  |   |            |
| 2        | RCP, Class II (910mm.Ø) (ave depth=2.0m)                | 75               |                    | l.m.  |   |            |
| 3        | RCP, Class II (910mm.Ø) (ave depth=2.25m)               | 119              |                    | l.m.  |   |            |
| 4        | RCP, Class II (910mm.Ø) (ave depth=2.50m)               | 82               |                    | l.m.  |   |            |
| 5        | RCP, Class II (910mm.Ø) (ave depth=2.75m)               | 33               |                    | l.m.  |   |            |
| 6        | RCP, Class II (910mm.Ø) (ave depth=3.50m)               | 16               |                    | l.m.  |   |            |
| 4.1.2.5  | Reinforced Concrete Pipe Culvert, Class II ( 1070mm.Ø ) |                  |                    |       |   |            |
| 1        | RCP, Class II (1070mm.Ø) (ave depth=2.0m)               | 12               |                    | l.m.  |   |            |
| 2        | RCP, Class II (1070mm.Ø) (ave depth=2.25m)              | 85               |                    | l.m.  |   |            |
| 3        | RCP, Class II (1070mm.Ø) (ave depth=2.50m)              | 17               |                    | l.m.  |   |            |
| 4        | RCP, Class II (1070mm.Ø) (ave depth=2.75m)              | 33               |                    | l.m.  |   |            |
| 5        | RCP, Class II (1070mm.Ø) (ave depth=3.25m)              | 22               |                    | l.m.  |   |            |
| 4.1.6    | Cross RCP Pipes   |                  |                    |       |   |            |
| 1        | Reinforced Concrete Pipe Culvert, Class II (375mm.Ø)    | 397              |                    | l.m.  |   |            |
| 2        | Reinforced Concrete Pipe Culvert, Class II (450mm.Ø)    | 44               |                    | l.m.  |   |            |
| 4.1.7    | Drainage Manhole and Area Drain                         |                  |                    |       |   |            |
| 1        | Curb Inlet Manhole for 375mm dia (ave depth=1.50m)      | 11               |                    | ea.   |   |            |
| 2        | Curb Inlet Manhole for 375mm dia (ave depth=1.75m)      | 6                |                    | ea.   |   |            |
| 3        | Curb Inlet Manhole for 375mm dia (ave depth=2.25m)      | 5                |                    | ea.   |   |            |
| 4        | Curb Inlet Manhole for 450mm dia (ave depth=1.25m)      | 1                |                    | ea.   |   |            |
| 5        | Curb Inlet Manhole for 450mm dia (ave depth=1.5m)       | 9                |                    | ea.   |   |            |
| 6        | Curb Inlet Manhole for 450mm dia (ave depth=1.75m)      | 11               |                    | ea.   |   |            |
| 7        | Curb Inlet Manhole for 450mm dia (ave depth=2.0m)       | 3                |                    | ea.   |   |            |
| 8        | Curb Inlet Manhole for 450mm dia (ave depth=2.25m)      | 2                |                    | ea.   |   |            |
| 9        | Curb Inlet Manhole for 450mm dia (ave depth=2.5m)       | 1                |                    | ea.   |   |            |
| 10       | Curb Inlet Manhole for 450mm dia (ave depth=2.75m)      | 1                |                    | ea.   |   |            |
| 11       | Curb Inlet Manhole for 600mm dia (ave depth=1.5m)       | 1                |                    | ea.   |   |            |
| 12       | Curb Inlet Manhole for 600mm dia (ave depth=1.75m)      | 6                |                    | ea.   |   |            |
| 13       | Curb Inlet Manhole for 600mm dia (ave depth=2.0m)       | 12               |                    | ea.   |   |            |
| 14       | Curb Inlet Manhole for 600mm dia (ave depth=2.25m)      | 1                |                    | ea.   |   |            |

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|------------|---|----------------------|--------------------|-------|---|------------|
| 15         | Curb Inlet Manhole for 600mm dia (ave depth=2.5m)   | 2                    |                    | ea.   |   |            |
| 16         | Curb Inlet Manhole for 600mm dia (ave depth=3.0m)   | 1                    |                    | ea.   |   |            |
| 17         | Curb Inlet Manhole for 750mm dia (ave depth=1.75m)  | 2                    |                    | ea.   |   |            |
| 18         | Curb Inlet Manhole for 750mm dia (ave depth=2.0m)   | 2                    |                    | ea.   |   |            |
| 19         | Curb Inlet Manhole for 750mm dia (ave depth=2.25m)  | 3                    |                    | ea.   |   |            |
| 20         | Curb Inlet Manhole for 750mm dia (ave depth=2.5m)   | 2                    |                    | ea.   |   |            |
| 21         | Curb Inlet Manhole for 750mm dia (ave depth=2.75m)  | 1                    |                    | ea.   |   |            |
| 22         | Curb Inlet Manhole for 900mm dia (ave depth=2.0m)   | 1                    |                    | ea.   |   |            |
| 23         | Curb Inlet Manhole for 900mm dia (ave depth=2.25m)  | 5                    |                    | ea.   |   |            |
| 24         | Curb Inlet Manhole for 900mm dia (ave depth=2.5m)   | 2                    |                    | ea.   |   |            |
| 25         | Curb Inlet Manhole for 900mm dia (ave depth=2.75m)  | 2                    |                    | ea.   |   |            |
| 26         | Curb Inlet Manhole for 900mm dia (ave depth=3.5m)   | 1                    |                    | ea.   |   |            |
| 27         | Curb Inlet Manhole for 1050mm dia (ave depth=2.25m) | 1                    |                    | ea.   |   |            |
| 28         | Curb Inlet Manhole for 1050mm dia (ave depth=2.5m)  | 2                    |                    | ea.   |   |            |
| 29         | Curb Inlet Manhole for 1050mm dia (ave depth=2.75m) | 1                    |                    | ea.   |   |            |
| 30         | Curb Inlet Manhole for 1050mm dia (ave depth=3.0m)  | 1                    |                    | ea.   |   |            |
| 31         | Curb Inlet Manhole for 1050mm dia (ave depth=3.75m) | 1                    |                    | ea.   |   |            |
| 4.1.8      | Area Drain  |                      |                    |       |   |            |
| 1          | Area Drain for 375mm dia (ave depth=1.50m)          | 10                   |                    | ea.   |   |            |
| 2          | Area Drain for 375mm dia (ave depth=1.75m)          | 3                    |                    | ea.   |   |            |
| 3          | Area Drain for 375mm dia (ave depth=2.0m)           | 2                    |                    | ea.   |   |            |
| 4          | Area Drain for 375mm dia (ave depth=2.25m)          | 2                    |                    | ea.   |   |            |
| 5          | Area Drain for 375mm dia (ave depth=2.5m)           | 2                    |                    | ea.   |   |            |
| 6          | Area Drain for 375mm dia (ave depth=2.75m)          | 1                    |                    | ea.   |   |            |
| 7          | Area Drain for 375mm dia (ave depth=3.5m)           | 1                    |                    | ea.   |   |            |
| 8          | Area Drain for 375mm dia (ave depth=3.75m)          | 1                    |                    | ea.   |   |            |
| 9          | Area Drain for 450mm dia (ave depth=1.5m)           | 15                   |                    | ea.   |   |            |
| 10         | Area Drain for 450mm dia (ave depth=1.75m)          | 21                   |                    | ea.   |   |            |
| 11         | Area Drain for 450mm dia (ave depth=2.0m)           | 6                    |                    | ea.   |   |            |
| 12         | Area Drain for 450mm dia (ave depth=2.25m)          | 5                    |                    | ea.   |   |            |
| 13         | Area Drain for 450mm dia (ave depth=2.75m)          | 1                    |                    | ea.   |   |            |
| 14         | Area Drain for 450mm dia (ave depth=3.5m)           | 1                    |                    | ea.   |   |            |
| 15         | Area Drain for 600mm dia (ave depth=1.75m)          | 1                    |                    | ea.   |   |            |
| 16         | Area Drain for 600mm dia (ave depth=2.0m)           | 3                    |                    | ea.   |   |            |
| 17         | Area Drain for 600mm dia (ave depth=2.25m)          | 2                    |                    | ea.   |   |            |
| 18         | Area Drain for 600mm dia (ave depth=2.5m)           | 1                    |                    | ea.   |   |            |
| 19         | Area Drain for 600mm dia (ave depth=2.75m)          | 1                    |                    | ea.   |   |            |
| 20         | Area Drain for 600mm dia (ave depth=3.0m)           | 1                    |                    | ea.   |   |            |
| 21         | Area Drain for 600mm dia (ave depth=3.25m)          | 2                    |                    | ea.   |   |            |
| 22         | Area Drain for 600mm dia (ave depth=3.5m)           | 3                    |                    | ea.   |   |            |
| 23         | Area Drain for 750mm dia (ave depth=3.0m)           | 2                    |                    | ea.   |   |            |
| 24         | Area Drain for 750mm dia (ave depth=3.25m)          | 1                    |                    | ea.   |   |            |
| 25         | Area Drain for 900mm dia (ave depth=3.0m)           | 2                    |                    | ea.   |   |            |
| 26         | Area Drain for 900mm dia (ave depth=3.5m)           | 1                    |                    | ea.   |   |            |
| 27         | Area Drain for 1050mm dia (ave depth=4.0m)          | 1                    |                    | ea.   |   |            |
|            | <b>Total 4.1 - Drainage System</b>                  |                      |                    |       |   |            |
|            |   |                      |                    |       |   |            |
| <b>4.2</b> | <b>Construction of Rainwater Tank</b>               |                      |                    |       |   |            |
| 4.2.1      | @ New Market Hall                                   | included in Building |                    |       |   |            |

| ITEM NO.     | DESCRIPTION  | PFDA<br>QUANTITY     | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|--------------|--|----------------------|--------------------|-------|---|------------|
| 4.2.2        | @ Commercial Building  | included in Building |                    |       |   |            |
| 4.2.3        | @ Admin Building - 10cu.m. cap. SS Tank with R.C. Pad  |                      |                    |       |   |            |
| 4.2.3.1      | Stainless Steel Storage Water Tank with installation - 2,642 gallons(10 cu.m.) capacity, complete with airvent and manhole as specified in Mechanical Drawings and Technical Specifications. | 2                    |                    | set   |   |            |
| 4.2.3.2      | Reinforced Concrete Pad 3.10m x 2.70m x 0.20m thk for Stainless Steel Water Tank   | 2                    |                    | set   |   |            |
|              | <b>Total 4.2 - Construction of Rainwater Cistern</b>   |                      |                    |       |   |            |
|              |  |                      |                    |       |   |            |
| <b>4.3</b>   | <b>Water Distribution System</b>   |                      |                    |       |   |            |
| <b>4.3.1</b> | <b>Provision of New Elevated Steel Water Tank 100cu.m. capacity</b>  |                      |                    |       |   |            |
| 1            | Earthworks   |                      |                    |       |   |            |
| 1.1          | Building Layout  | 175                  |                    | sq.m. |   |            |
| 1.2          | Structure Excavation   | 663                  |                    | cu.m. |   |            |
| 1.3          | Backfill   | 515                  |                    | cu.m. |   |            |
| 1.4          | Gravel bedding   | 14                   |                    | cu.m. |   |            |
| 1.5          | Remove Surplus Excavated Material  | 148                  |                    | cu.m. |   |            |
| 2            | Concrete Works   |                      |                    |       |   |            |
| 2.1          | Concrete, 3000psi at 28-day with maximum aggregate size of 3/4" dia.   | 134                  |                    | cu.m. |   |            |
| 2.1.6        | Steel Reinforcement Grade 40 including GI tie wires  | 12,523               |                    | kg.   |   |            |
| 2.1.7        | Formwork, 3 uses   | 163                  |                    | sq.m. |   |            |
| 2.2          | Fabrication, delivery, and erection of structural Stainless Steel Tank including   | 9,872                |                    | kg.   |   |            |
| 2.3          | Fabrication, delivery, and erection of structural steel framing including bolts, plates and other incidentals to complete  | 15,016               |                    | kg.   |   |            |
|              | <b>Total 4.3.1 - Provision of New Elevated Steel Water Tank 100cu.m. capacity</b>  |                      |                    |       |   |            |
|              |  |                      |                    |       |   |            |
| <b>4.3.2</b> | <b>Rehabilitation and Expansion of Water Distribution System</b>   |                      |                    |       |   |            |
| 4.3.2.1      | Replacement of Existing Pipe   |                      |                    |       |   |            |
| 1            | HDPE, 200mm dia.   | 77                   |                    | l.m.  |   |            |
| 2            | HDPE, 150mm dia.   | 29                   |                    | l.m.  |   |            |
| 3            | HDPE, 100mm dia.   | 156                  |                    | l.m.  |   |            |
| 4.3.2.2      | Pipe Extension   |                      |                    |       |   |            |
| 1            | HDPE, 200mm dia.   | 96                   |                    | l.m.  |   |            |
| 2            | HDPE, 150mm dia.   | 99                   |                    | l.m.  |   |            |
| 3            | HDPE, 100mm dia.   | 299                  |                    | l.m.  |   |            |
| 4            | HDPE, 50mm dia.  | 597                  |                    | l.m.  |   |            |
| 5            | HDPE, 40mm dia.  | 9                    |                    | l.m.  |   |            |
| 6            | HDPE, 25mm dia.  | 25                   |                    | l.m.  |   |            |
| 7            | HDPE, 20mm dia.  | 48                   |                    | l.m.  |   |            |
| 4.3.2.3      | 90° Bend   |                      |                    |       |   |            |
| 1            | HDPE 90°Bend 200 mm dia.   | 2                    |                    | ea.   |   |            |
| 2            | HDPE 90°Bend 150 mm dia.   | 4                    |                    | ea.   |   |            |
| 3            | HDPE 90°Bend 100 mm dia.   | 2                    |                    | ea.   |   |            |
| 4            | HDPE 90°Bend 50 mm dia.  | 7                    |                    | ea.   |   |            |
| 5            | HDPE 90°Bend40 mmø   | 1                    |                    | ea.   |   |            |
| 6            | HDPE 90°Bend25 mmø   | 2                    |                    | ea.   |   |            |
| 7            | HDPE 90°Bend20 mmø   | 4                    |                    | ea.   |   |            |
| 4.3.2.4      | Tee  |                      |                    |       |   |            |
| 1            | HDPE Tee 200mm x 200mmø  | 1                    |                    | ea.   |   |            |
| 2            | HDPE Tee 200mm x 150mmø  | 1                    |                    | ea.   |   |            |

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|----------|---|---------------|-----------------|-------|---|------------|
| 3        | HDPE Tee 200mm x 100mmø   | 1             |                 | ea.   |   |            |
| 4        | HDPE Tee 150mm x 150mmø   | 2             |                 | ea.   |   |            |
| 5        | HDPE Tee 100mm x 100mmø   | 1             |                 | ea.   |   |            |
| 6        | HDPE Tee 100mm x 50mmø  | 4             |                 | ea.   |   |            |
| 7        | HDPE Tee 100mm x 38mmø  | 1             |                 | ea.   |   |            |
| 8        | HDPE Tee 100mm x 25mmø  | 1             |                 | ea.   |   |            |
| 9        | HDPE Tee 100mm x 20mmø  | 3             |                 | ea.   |   |            |
| 10       | HDPE Tee 50mm x 25mmø   | 1             |                 | ea.   |   |            |
| 4.3.2.5  | HDPE End Cap  |               |                 |       |   |            |
| 1        | HDPE End Cap, 100mmdia  | 3             |                 | ea.   |   |            |
| 4.3.2.3  | Coupling Adaptor  |               |                 |       |   |            |
| 1        | 100 mm dia.   | 2             |                 | ea.   |   |            |
| 4.3.2.6  | Gate Valve  |               |                 |       |   |            |
| 1        | Gate valve, 150mm dia., cast iron body, flanged type, 150 psi   | 1             |                 | ea.   |   |            |
| 2        | Gate valve, 100mm dia., cast iron body, flanged type, 150 psi   | 1             |                 | ea.   |   |            |
| 3        | Gate valve, 50mm dia., cast bronze body, threaded type, 150 psi   | 4             |                 | ea.   |   |            |
| 4        | Gate valve, 38mm dia., cast bronze body, threaded type, 150 psi   | 1             |                 | ea.   |   |            |
| 5        | Gate valve, 25mm dia., cast bronze body, threaded type, 150 psi   | 1             |                 | ea.   |   |            |
| 6        | Gate valve, 19mm dia., cast bronze body, threaded type, 150 psi   | 4             |                 | ea.   |   |            |
| 7        | Fire Hydrant Assembly, 150 mm dia.  | 3             |                 | ea.   |   |            |
|          | <b>Total 4.3.2 - Rehabilitation and Expansion of Water Distribution System</b>  |               |                 |       |   |            |
|          |   |               |                 |       |   |            |
| 4.3.3    | Leak Detection and Repair   | 1             |                 | l.s.  |   |            |
|          |   |               |                 |       |   |            |
| 4.4      | <b>Sewerage System</b>  |               |                 |       |   |            |
| 1        | Sewer Pipes (Septic Tank Effluent Pipes)  |               |                 |       |   |            |
| 1.1      | PVC Series 1000   |               |                 |       |   |            |
|          | 150 mm dia.   | 54            |                 | l.m.  |   |            |
| 1.2      | Fittings  |               |                 |       |   |            |
| 1.2.1    | Wye   |               |                 |       |   |            |
| 1        | 150 mm dia.   | 3             |                 | ea    |   |            |
| 1.2.2    | Elbow 45 DEG.   |               |                 |       |   |            |
| 1        | 150 mm dia.   | 3             |                 | ea    |   |            |
| 1.2.3    | Clean out   |               |                 |       |   |            |
| 1        | 150 mm dia.   | 4             |                 | ea    |   |            |
|          | <b>Total 4.4 - Sewerage System</b>  |               |                 |       |   |            |
|          |   |               |                 |       |   |            |
| 4.5      | <b>Storm Drainage System (from Building to nearest DMH)</b>   |               |                 |       |   |            |
| 1.0      | uPVC Pipe, Series 1000  |               |                 |       |   |            |
| 1.1      | 250 mm dia.   | 36            |                 | l.m.  |   |            |
| 1.2      | 200 mm dia.   | 48            |                 | l.m.  |   |            |
| 1.3      | 150 mm dia.   | 66            |                 | l.m.  |   |            |
|          | <b>Total 4.5 - Storm Drainage System</b>  |               |                 |       |   |            |
|          |   |               |                 |       |   |            |
| 4.6      | <b>Deepwell Development:</b> (Preliminary Design); Depth: 60 Meter.; Borehole: 300 mm dia. ; Casing: 150 mm dia. spirally welded steel pipe; Discharge Pipe: 50 mm dia. G.I. Pipe schedule 40; Capacity: 50 GPM, 100 FT. Head, 3500 rpm; Pump: approx. 2 Hp, 220 Volts, 1 Phase, 60 Hz; Actual Deepwell Pump Setting is to be verified by the Contractor. |               |                 |       |   |            |

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|----------------|--|------------------|--------------------|-------|---|------------|
| 4.6.1          | Deepwell drilling, piping, casing, supply and installation of submersible pump, testing and commissioning accessories and other incidentals (final design will be based on actual pumping water level) | 1                |                    | lot   |   |            |
| 4.6.2          | 50mm dia G.I. pipe   | 84               |                    | l.m.  |   |            |
| 4.6.3          | 50mm dia G.I. 90deg elbow  | 2                |                    | ea    |   |            |
| 4.6.4          | 50mm dia. G.I. Tee   | 1                |                    | ea    |   |            |
| 4.6.5          | Pressure Relief Valve with single chamber actuator, UL/FM, Class : 125psi, flanged type, 50mm dia.   | 1                |                    | set   |   |            |
| 4.6.6          | 50mm dia. Sleeve Type Coupling   | 1                |                    | ea    |   |            |
| 4.6.7          | Gate valve, 50mm dia., cast bronze body, threaded type, 150 psi  | 2                |                    | ea    |   |            |
| 4.6.8          | Pressure Gauge Assembly, 50mm dia.   | 1                |                    | ea    |   |            |
| 4.6.9          | Flow Meter , UL/FM, Class : 175psi, flanged type, 50mm dia.  | 1                |                    | ea    |   |            |
| 4.6.10         | 50mm dia. Y-Strainer   | 1                |                    | ea    |   |            |
| 4.6.11         | Check valve, 50mm dia., cast bronze body, threaded type, 150 psi   | 2                |                    | ea    |   |            |
| 4.6.12         | Pump base with surface plate assembly with concrete pipe support   | 1                |                    | ea    |   |            |
| 4.6.13         | Deewell Submersible pump 5HP 3PH 60HZ 230V with controller & circuit breaker 50gpm @200ft TDH  | 1                |                    | ea    |   |            |
|                | <b>Total 4.6 - Deepwell Development</b>  |                  |                    |       |   |            |
|                |  |                  |                    |       |   |            |
| <b>4.7</b>     | <b>Other Equipment</b>   |                  |                    |       |   |            |
| 4.7.1          | <b>Design &amp; Installation of Wastewater Treatment System</b> including Manpower, deliveries of materials, electrical system and control panel testing & Commissioning                               |                  |                    |       |   |            |
| 1              | Wastewater Treatment Equipment (WWTF-1) @ New Market Hall  | 1                |                    | l.s.  |   |            |
| 2              | Wastewater Treatment Equipment (WWTF-2) @ Existing Refrigeration Bldg.   | 1                |                    | l.s.  |   |            |
| <b>4.7.2</b>   | <b>Seawater Treatment @ New Market</b>   |                  |                    |       |   |            |
| <b>4.7.2.1</b> | <b>Seawater Treatment Equipment</b>  |                  |                    |       |   |            |
| 1              | SS Pipes   |                  |                    |       |   |            |
|                | 50 mm dia.   | 22               |                    | l.m.  |   |            |
| 2              | Elbow 90 DEG.  |                  |                    |       |   |            |
|                | 50 mm dia.   | 17               |                    | ea    |   |            |
| 3              | Tee  |                  |                    |       |   |            |
|                | 50 mm dia.   | 5                |                    | ea    |   |            |
| 4              | Female Coupling  |                  |                    |       |   |            |
|                | 50 mm dia.   | 2                |                    | ea    |   |            |
| 5              | UnionPatente   |                  |                    |       |   |            |
|                | 50 mm dia.   | 12               |                    | ea    |   |            |
| 6              | Gate Valve   |                  |                    |       |   |            |
|                | 50 mm dia.   | 10               |                    | ea    |   |            |
| 7              | Flange   |                  |                    |       |   |            |
|                | 50 mm dia.   | 9                |                    | ea    |   |            |
| 8              | Multi-media Filter including Tank & Automatic Controller   |                  |                    |       |   |            |
|                | 50 mm dia.   | 1                |                    | set   |   |            |
| 9              | Activated Carbon Filter including Tank & Automatic Controller  |                  |                    |       |   |            |
|                | 50 mm dia.   | 1                |                    | set   |   |            |
| 10             | Sea water UV   |                  |                    |       |   |            |
|                | 25 GPM   | 3                |                    | set   |   |            |
|                | <b>Total 4.7.2.1 - Seawater Treatment Equipment</b>  |                  |                    |       |   |            |
| <b>4.7.2.2</b> | <b>Seawater Intake and Booster Pump</b>  |                  |                    |       |   |            |
| 1.0            | Potable Water Lines  |                  |                    |       |   |            |
| 1.1            | PE Pipes   |                  |                    |       |   |            |

| ITEM NO.   | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|------------|--|------------------|--------------------|-------|---|------------|
| 1          | 50 mm dia.   | 12               |                    | l.m.  |   |            |
| 1.2        | Fittings   |                  |                    |       |   |            |
| 1.2.1      | Male Elbow 90 Deg. Adaptor   |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 3                |                    | ea    |   |            |
| 1.2.2      | Tee  |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 1                |                    | ea    |   |            |
| 1.2.3      | Elbow 90 Deg. Adaptor  |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 3                |                    | ea    |   |            |
| 1.2.4      | Male Adaptor   |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 3                |                    | ea    |   |            |
|            |  |                  |                    |       |   |            |
| 1.2.5      | Stainless Steel Pipes  |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 9                |                    | l.m.  |   |            |
| 2          | 12 mm dia.   | 0.1              |                    | l.m.  |   |            |
| 1.2.5.1    | Elbow 90 Deg. Adaptor  |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 8                |                    | ea    |   |            |
| 1.2.5.2    | Tee  |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 4                |                    | ea    |   |            |
| 1.2.5.3    | Reducer  |                  |                    |       |   |            |
| 1          | 50 mm x 12 mm dia.   | 1                |                    | ea    |   |            |
| 1.2.5.4    | Female Adaptor   |                  |                    |       |   |            |
| 1          | 12mm dia.  | 1                |                    | ea    |   |            |
| 1.2.5.5    | Unionpatente   |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 2                |                    | ea    |   |            |
| 1.2.5.6    | Swivel Joint   |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 1                |                    | ea    |   |            |
| 1.2.5.7    | Pressure Relief Valve  |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 1                |                    | ea    |   |            |
| 1.2.5.8    | Check valve  |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 2                |                    | ea    |   |            |
| 1.2.5.9    | Float valve  |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 2                |                    | ea    |   |            |
| 1.2.5.10   | Flange Coupling  |                  |                    |       |   |            |
| 1          | 50 mm dia.   | 2                |                    | ea    |   |            |
| 1.2.6      | Hydroneumatic Bladder Tank (Stainless Steel) Cap. 500 Liters / 122 gallons   | 1                |                    | ea    |   |            |
| 1.2.7      | Stainless Steel Horizontal End Suction Centrifugal Seawater Booster Pump (1-normal duty / 1-stand by unit) cap. 50 gpm x 120 ft. tdh, approx. 4.0 hp | 2                |                    | unit  |   |            |
| 1.2.8      | Controller 4.35Hp, 3Ph, 230V including circuit breaker 50gpm @120ft TDH  | 1                |                    | unit  |   |            |
|            | <b>Total 4.7.2.2 - Seawater Intake and Booster Pump</b>  |                  |                    |       |   |            |
|            |  |                  |                    |       |   |            |
| <b>4.8</b> | <b>Power Supply and Electrical System</b>  |                  |                    |       |   |            |
| 4.8.1      | Site Development   |                  |                    |       |   |            |
| 1          | Electric pole with mounting bracket and communication box to be relocated  | 2                |                    | set   |   |            |
| 2          | Electric pole complete with suspension type insulator, pin insulator, fuse cut-out, lightning arrester and crossarm to be relocated                  | 1                |                    | set   |   |            |
| 3          | Supply and install electric pole complete with suspension type insulator with cross arm  | 9                |                    | set   |   |            |



| ITEM NO.   | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|------------|---|------------------|--------------------|-------|---|------------|
| 4          | Supply and install electric pole complete with suspension type insulator, cross arm, fuse cut out, Lightning Arrester and transformer mounting bracket.   | 5                |                    | set   |   |            |
| 5          | Lighting fixtures complete with associated lamps and all necessary supports and fixing materials, as specified in the Luminaire Schedule in Electrical Drawings and Technical Specifications.   |                  |                    |       |   |            |
| 4.8.2      | Street Lighting luminaire; with 100watts LED lamp on 7.6M hot dipped galvanized tapered steel pole complete with baseplate, anchorbolt, PV module, battery and wires to complete the system.  | 42               |                    | set   |   |            |
| 4.8.3      | Street Lighting luminaire; with 100watts LED lamp, PV module, battery and wires to complete the system.   | 22               |                    | set   |   |            |
| 4.8.4      | Flood Lighting luminaire; with 2 x 600watts HPS or LED equivalent on 15M hot dipped galvanized tapered steel pole complete with baseplate, anchorbolt, ladder or climbing rungs, PV module, battery and wires to complete the system. | 2                |                    | set   |   |            |
| 4.8.5      | Removal Works   |                  |                    |       |   |            |
| 1          | Removal of Double arm lamp post.  | 7                |                    | set   |   |            |
| 2          | Removal of Single arm lamp post.  | 7                |                    | set   |   |            |
| 3          | Removal of Beacon light.  | 1                |                    | set   |   |            |
| 4          | Removal of Break water light  | 3                |                    | set   |   |            |
| 4.8.6      | Wires   |                  |                    |       |   |            |
| 1          | 3.5mm <sup>2</sup> THHN   | 2,757            |                    | l.m.  |   |            |
| 2          | 3.5mm <sup>2</sup> TW   | 1,378            |                    | l.m.  |   |            |
| 3          | 336.4MCM (170mm <sup>2</sup> /) ACSR  | 1,392            |                    | l.m.  |   |            |
| 4.8.7      | Equipment   |                  |                    |       |   |            |
| 1          | 3 PHASE CURRENT TRANSFORMER CABINET   | 3                |                    | set   |   |            |
| 2          | ECB 3P 600AT 600AF<br>400/230V 65KAIC<br>NEMA-3R ENCLOSURE  | 1                |                    | set   |   |            |
| 3          | 3 PHASE KILOWATT HOUR METER   | 4                |                    | set   |   |            |
| 4          | 1 PHASE KILOWATT HOUR METER   | 4                |                    | set   |   |            |
| 4.8.8      | Concrete foundation for street/road lights including excavation, backfilling, disposal, and other incidentals to complete installation.   | 42               |                    | lot   |   |            |
| 4.8.9      | Concrete foundation for flood lights including excavation, backfilling, disposal, and other incidentals to complete installation.   | 2                |                    | lot   |   |            |
|            | <b>Total 4.8 - Power Supply and Electrical System</b>   |                  |                    |       |   |            |
|            |   |                  |                    |       |   |            |
| 4.9        | Turns Ratio Tester  | 1                |                    | l.s.  |   |            |
|            |   |                  |                    |       |   |            |
| 4.10       | Oil Tester  | 1                |                    | l.s.  |   |            |
|            |   |                  |                    |       |   |            |
|            | <b>Total 4.0 - UTILITIES</b>  |                  |                    |       |   |            |
|            |   |                  |                    |       |   |            |
| <b>5.0</b> | <b>MISCELLANEOUS</b>  |                  |                    |       |   |            |
| <b>5.1</b> | <b>Security fence</b>   |                  |                    |       |   |            |
| 5.1.1      | Perimeter fence for New Market - Movable Galvanized Steel Railing Fence H=1.50m x 2.50m width   | 254              |                    | l.m.  |   |            |
| 5.1.2      | Perimeter fence for Admin bldg - Chainlink fence with Barbed and Concertina wire on top including foundation & pedestal, excavation, backfill, gravel base and all incidentals to complete H=1.80m                                    | 345              |                    | l.m.  |   |            |
| 5.1.3      | Rehabilitation of Damaged Existing Perimeter Masonry Wall and Additional Cyclone Fence 1.20mH with Barbed and Concertina wire on top  | 63               |                    | l.m.  |   |            |
| 5.1.4      | Additional Cyclone Fence 1.20mH with Barbed and Concertina wire on top of Existing Perimeter Masonry Wall   | 1080             |                    | l.m.  |   |            |
|            | <b>Total 5.1 - Security fence</b>   |                  |                    |       |   |            |
|            |   |                  |                    |       |   |            |

| ITEM NO.   | DESCRIPTION  | PFDA QUANTITY | BIDDER QUANTITY | UNITS       | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|------------|--|---------------|-----------------|-------------|---|------------|
| <b>5.2</b> | <b>Navigational Aids</b>   |               |                 |             |   |            |
| 5.2.1      | Supply and Install Beacon light with PV module and battery   | 1             |                 | set         |   |            |
| 5.2.2      | Break Water Lighting luminaire; with 100watts LED lamp on 4.2M hot dipped galvanized tapered steel pole complete with baseplate, anchorbolt, PV module, battery and wires to complete the system.  | 20            |                 | set         |   |            |
|            | <b>Total 5.2 - Navigational Aids</b>   |               |                 |             |   |            |
| <b>5.3</b> | <b>CCTV and Public Address Paging System</b>   | <b>1</b>      |                 | <b>l.s.</b> |   |            |
| <b>5.4</b> | <b>Landscaping Works</b>   |               |                 |             |   |            |
| 5.4.1      | <b>Softscape Works</b>   |               |                 |             |   |            |
| 5.4.1.1    | <b>Earthwork</b>   |               |                 |             |   |            |
| 1          | Cutting , clearing thin jungle including vegetation and grass and removal of roots, weeds, and unwanted material.  | 1,800         |                 | sq.m.       |   |            |
| 2          | Trenching in ordinary soil upto a depth of 50cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling and making up the trenched area to proper levels by filling with earth and FYM(farm yard manure) in 2:1 proportion and flooding trench with water (excluding cost of imported earth, or FYM).  | 750           |                 | sq.m.       |   |            |
| 3          | Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto site (earth measured in stacks will be reduced by 20% for payment).   | 700           |                 | sq.m.       |   |            |
| 4          | Supplying and stacking at site well decayed FYM (farm yard manure), including loading, unloading and carriage upto site (manure measured in stacks will be reduced by 8% for payment):   | 600           |                 | sq.m.       |   |            |
| 5          | Supplying and executing anti termite treatment with chloropyriphos chemical , drenching the Planting area at 10lts/sq.m. (Mixing Ratio of 3ml/litre)   | 1,300         |                 | sq.m.       |   |            |
| 6          | Mound Making - Supplying and contouring of good earth at site including royalty, loading, unloading and carriage upto site (earth measured in stacks will be reduced by 20% for payment).  | 500           |                 | cu.m.       |   |            |
| 5.4.1.2    | <b>Grass Planting Work</b>   |               |                 |             |   |            |
| 1          | Suplying and Grassing with specified grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately).   | 379           |                 | sq.m.       |   |            |
| 2          | Grass Variety - Quote / sq.m.  |               |                 |             |   |            |
| 2.1        | Carabao grass  | 496           |                 | sq.m.       |   |            |
| 2.2        | Bermuda grass  | 120           |                 | sq.m.       |   |            |
| 5.4.1.3    | <b>Ground Cover / Planting Works</b>   |               |                 |             |   |            |
| 1          | Planting Ground cover in prepared beds for low shrubbery, watering, maintaining them, and freeing them from weeds, and disposal of rubbish as directed, including supplying good earth if needed ( planting density assumed as 25 nos /sq.m. ( plant cost to be quoted in ref--Item 5.4.1.8.01--5.4.1.8.02)  | 379           |                 | sq.m.       |   |            |
| 5.4.1.4    | <b>SHRUB PLANTING WORKS</b>  |               |                 |             |   |            |
| 1          | Planting shrubs by Digging holes (0.45 x0.45 x 0.45 ) in ordinary soil and refilling the same with the excavated earth mixed with manure in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately) : ( plant cost to be quoted in ref--Item 5.4.1.8.04--5.4.1.8.08 ) | 226           |                 | sq.m.       |   |            |
| 5.4.1.5    | <b>Tree Planting Works</b>   |               |                 |             |   |            |

| ITEM NO. | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|----------|---|---------------|-----------------|-------|---|------------|
| 1        | Planting TREES by Digging holes(.6x.6x.6) in ordinary soil and refilling the same with the excavated earth mixed with manure in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately) :( plant cost to be quoted in ref--Item 5.4.1.8.09--5.4.1.8.12 )   | 236           |                 | sq.m. |   |            |
| 5.4.1.6  | <b>Climbers Planting Works</b>  |               |                 |       |   |            |
| 1        | Planting CLIMBERS by Digging holes (0.45 x0.45 x 0.45 ) in ordinary soil and refilling the same with the excavated earth mixed with manure in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately): (plant cost to be quoted in ref--Item 5.4.1.8.03)   | 8             |                 | sq.m. |   |            |
| 5.4.1.7  | <b>Maintenance Works</b>  |               |                 |       |   |            |
| 1        | Maintenance of Trees, shrubs,, groundcover, Lawn for a period of 12(Twelve) month maintenance period (TIME STARTS AFTER HANDOVER OF SITE TO CLIENT) the plants should be maintained by regular watering, weeding, replacing dead plants, applying pesticides etc. so as to grow them vigorously. b) Trees & plants: should show regular healthy growth through regular maintenance by manuring, fertilizing. Use of plant protection measures, adequate watering etc. 1. Maintenance of all developed features ground cover, hedges and shrubs etc. Maintenance work includes timely pruning, weeding and cutting of ground cover plants, hedges, edges, plants planted in the areas mentioned above. Application of fertilizers, manure, etc to the lawn, plant and spraying pesticide etc. as and when required. 2. Removal of wild grass normally found growing in rainy season by cutting and/or uprooting so as to keep the areas free of grass. | 1,075         |                 | sq.m. |   |            |
| 5.4.1.8  | <b>Supplying of Plant Material</b>  |               |                 |       |   |            |
|          | <b>Ground Covers</b>  |               |                 |       |   |            |
| 1        | Carabao Grass / Paspalum Renggeri   | 286           |                 | sq.m. |   |            |
| 2        | Bermuda Grass / Cynodon Dactylon  | 120           |                 | sq.m. |   |            |
|          | <b>Climbers</b>   |               |                 |       |   |            |
| 3        | Bougainvillea / Bougainvillea Glabra  | 8             |                 | each  |   |            |
|          | <b>Shrubs</b>   |               |                 |       |   |            |
| 4        | Santan / Ixora Coccinea   | 60            |                 | each  |   |            |
| 5        | Rhapis / Rhapis Excelsa   | 21            |                 | each  |   |            |
| 6        | Spider Lily / Crinum Asiaticum  | 47            |                 | each  |   |            |
| 7        | Picara / Excoacaria Cochichinensis  | 40            |                 | each  |   |            |
| 8        | Selloum / Philodendron Seloum   | 58            |                 | each  |   |            |
|          | <b>Trees</b>  |               |                 |       |   |            |
| 9        | Foxtail Palm / Wodyetia Bifurcate   | 190           |                 | each  |   |            |
| 1        | Anahaw / Saribus Rotundifolius  | 30            |                 | each  |   |            |
| 11       | Aratiles / Muntingia Calabura   | 7             |                 | each  |   |            |
| 12       | Yellow Elder / Tecoma Stans   | 9             |                 | each  |   |            |
| 5.4.1.9  | <b>Annual Tree Maintenance Schedule</b>   |               |                 |       |   |            |
|          | Tree Existing on Site - 1) Watering every alternate days @ 20 litres/watering cycle; 2) Applying FYM @ 10kg/ tree/ annum; 3) The Trees should have proper staking so as the tree should stand erect till the Tree settles with no possibility of bending due to Wind or Rain; 4) Trimming, pruning as & when required.  | 86            |                 | each  |   |            |
|          | <b>Sub Total 5.4.1 - Softscape Works</b>  |               |                 |       |   |            |
| 5.4.2    | <b>Hardscape Works</b>  |               |                 |       |   |            |
| 5.4.2.1  | Irrigation Work Providing, Laying, Joining & Commissioning of Rigid PVC pipe following sizes with necessary fittings, adhesives etc.  |               |                 |       |   |            |

| ITEM NO. | DESCRIPTION  | PFDA QUANTITY | BIDDER QUANTITY | UNITS  | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|----------|--|---------------|-----------------|--------|---|------------|
| 5.4.2.2  | PVC Pipe 75 mm X 6 kg/cm2  | 250           |                 | mts.   |   |            |
| 5.4.2.3  | PVC Pipe 63 mm X 6 kg/cm2  | 250           |                 | mts.   |   |            |
| 5.4.2.4  | PVC Pipe 63 mm X 6 kg/cm2  | 250           |                 | mts.   |   |            |
| 5.4.2.5  | PVC Pipe 25 mm X 10 kg/cm2   | 150           |                 | mts.   |   |            |
| 5.4.2.6  | PVC Pipe 20 mm X 10 kg/cm2   | 100           |                 | mts.   |   |            |
| 5.4.2.7  | Providing, Laying, Joining and Commissioning 50mm Flush Valve with Assembly with necessary fittings, adhesives etc.complete  | 15            |                 | nos.   |   |            |
| 5.4.2.8  | LLDPE Tubing 16 mm Size / 2.5 Kg/Cm2 as per IS 12786 I.S.I/With all necessary fittings likeVolve/bend/Joiner etc   | 1,500         |                 | mts.   |   |            |
| 5.4.2.9  | Providing, Laying, Joining and Commissioning of Screen Filter 40 m3 Metal type, with necessary fittings, adhesives etc complete  | 1             |                 | mts.   |   |            |
| 5.4.2.1  | Digging trenches in all types of strata for laying done pipes preparing soft bedding for pipes, refilling etc.complete (Depth 450 mm & Width 300 mm)   | 2,500         |                 | mts.   |   |            |
|          | Soft Strata only   |               |                 |        |   |            |
| 5.4.2.2  | <b>Plain Concrete Works</b>  |               |                 |        |   |            |
|          | Providing and laying in position plain cement concrete 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 40 mm nominal size) excluding the cost of centering and shuttering - All work upto plinth level.                             | 490           |                 | cu.m.  |   |            |
| 5.4.2.3  | <b>Reinforced Concrete Works</b>   |               |                 |        |   |            |
|          | Providing & laying in position reinforced cement concrete 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size) excluding the cost of centering, shuttering and reinforcement - Concrete planters and seating etc | 490           |                 | cu.m.  |   |            |
| 5.4.2.3  | <b>Brick Masonry Works</b>   |               |                 |        |   |            |
|          | Providing & laying Second-Class Brick work for garden pavements - In cement mortar 1:4   | 490           |                 | sq.m.  |   |            |
|          | Brick Variety - Quote / sq.m.  |               |                 |        |   |            |
|          | Decorative stamped concrete  | 490           |                 | sq.m.  |   |            |
| 5.4.2.4  | <b>Plastering</b>  |               |                 |        |   |            |
|          | Providing & laying 20mm cement plaster including a raise band or projection in - Cement Mixture 1:3  | 490           |                 | cu.m.  |   |            |
| 5.4.2.5  | <b>Painting Work</b>   |               |                 |        |   |            |
|          | Providing and applying finishing coats - Acrylic washable distemper, two coats on new work, including cement primer coat   | 490           |                 | Liters |   |            |
|          | <b>Sub Total 5.4.2 - Hardscape Works</b>   |               |                 |        |   |            |
|          | <b>Total 5.4 - Landscaping Works</b>   |               |                 |        |   |            |
|          |  |               |                 |        |   |            |
| 5.5      | <b>Upgrading of Office Tables and</b>  | 1             |                 | l.s.   |   |            |
| 5.6      | <b>Refrigeration System</b>  |               |                 |        |   |            |
| 5.6.1    | <b>Refrigeration Equipment</b>   |               |                 |        |   |            |
|          | Supply & installation of refrigeration units complete with control wirings, conduit, fittings, support, hangers, base and all necessary accessories.   |               |                 |        |   |            |
|          | Condensing Unit- Air-Cooled, Capacity: 21.8 KW,(CU-1 to 8)   | 8             |                 | set    |   |            |
|          | Condensing Unit- Air-Cooled, Capacity: 19.7 KW,(CU-9 to 10)  | 2             |                 | set    |   |            |
|          | Condensing Unit- Air-Cooled, Capacity: 3.2 KW,(CU-11)  | 1             |                 | set    |   |            |
|          | <b>Unit Cooler- Electric Defrost</b>   |               |                 |        |   |            |
|          | Unit Cooler, Capacity: 21.8 KW, (UC-1 to 8)  | 8             |                 | set    |   |            |
|          | Unit Cooler, Capacity: 19.7 KW,(UC-9 to 10)  | 2             |                 | set    |   |            |
|          | Unit Cooler, Capacity: 3.2 KW,(UC-11)  | 1             |                 | set    |   |            |
|          | Controls System  | 1             |                 | lot    |   |            |
|          | Hauling  | 1             |                 | lot    |   |            |
|          | <b>Total 5.6.1 - Refrigeration Equipment</b>   |               |                 |        |   |            |
| 5.6.2    | <b>Refrigerant Line System</b>   |               |                 |        |   |            |
|          | Refrigerant Copper Pipe type L, hard drawn including refrigerant pipe connections and other miscellaneous to complete.   |               |                 |        |   |            |
|          | 41.28mm (1 5/8") dia. Copper Pipe type L, hard drawn   | 126           |                 | l.m.   |   |            |

| ITEM NO.     | DESCRIPTION  | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|--------------|--|---------------|-----------------|-------|---|------------|
|              | 28.58mm (1 1/8") dia. Copper Pipe type L, hard drawn   | 82            |                 | l.m.  |   |            |
|              | 22.2mm (7/8") dia. Copper Pipe type L, hard drawn  | 44            |                 | l.m.  |   |            |
|              | 15.88mm (5/8") dia. Copper Pipe type L, hard drawn   | 23            |                 | l.m.  |   |            |
|              | 12.70mm (1/2") dia. Copper Pipe type L, hard drawn   | 23            |                 | l.m.  |   |            |
|              | Refrigerant Copper Pipe Fittings including refrigerant fittings connections and other miscellaneous to complete.   |               |                 |       |   |            |
|              | 41.28mm (1 5/8") dia. Copper Elbow 90°   | 86            |                 | ea.   |   |            |
|              | 28.58mm (1 1/8") dia. Copper Elbow 90°   | 48            |                 | ea.   |   |            |
|              | 22.2mm (7/8") dia. Copper Elbow 90°  | 38            |                 | ea.   |   |            |
|              | 15.88mm (5/8") dia. Copper Elbow 90°   | 24            |                 | ea.   |   |            |
|              | 12.70mm (1/2") dia. Copper Elbow 90°   | 24            |                 | ea.   |   |            |
|              | 28.58mm (1/2") dia. Strainer Drier   | 8             |                 | ea.   |   |            |
|              | 22.20mm (1/2") dia. Strainer Drier   | 2             |                 | ea.   |   |            |
|              | 12.70mm (1/2") dia. Strainer Drier   | 1             |                 | ea.   |   |            |
|              | Refrigerant Copper Pipe Hangers / Support including clamp, bolts & nuts, unistrut channel , angle bar, u-bolts and other miscellaneous to complete.            | 1             |                 | lot   |   |            |
|              | <b>Total 5.6.2 - Refrigerant Line System</b>   |               |                 |       |   |            |
| <b>5.6.3</b> | <b>Mechanical Insulation</b>   |               |                 |       |   |            |
|              | Refrigerant Copper Pipe Insulation with complete adhesive, polyethelene tape and other miscellaneous to complete.  |               |                 |       |   |            |
|              | 41.28mm dia. 'x 1" thk Flexible elastomeric rubber insulation  | 126           |                 | l.m.  |   |            |
|              | 28.18mm dia. 'x 1" thk Flexible elastomeric rubber insulation  | 82            |                 | l.m.  |   |            |
|              | 22.23mm dia. 'x 1" thk Flexible elastomeric rubber insulation  | 44            |                 | l.m.  |   |            |
|              | 15.8mm dia. 'x 1" thk Flexible elastomeric rubber insulation   | 23            |                 | l.m.  |   |            |
|              | 12.7mm dia. 'x 1" thk Flexible elastomeric rubber insulation   | 23            |                 | l.m.  |   |            |
|              | Charging of nitrogen gas, leak testing and gas evacuation  | 298           |                 | l.m.  |   |            |
|              | <b>Total 5.6.3 - Mechanical Insulation</b>   |               |                 |       |   |            |
| <b>5.6.4</b> | <b>Testing and Commissioning</b>   | 1             |                 | lot   |   |            |
| <b>5.6.5</b> | <b>Frost Heave Ventilation</b>   |               |                 |       |   |            |
|              | Supply, perforation and installation of buried ventilation PVC pipe under the cold storage flooring.   |               |                 |       |   |            |
|              | PVC Pipe 100mmØ x 3m   | 810           |                 | l.m.  |   |            |
|              | Miscellaneous  | 1             |                 | l.m.  |   |            |
|              | <b>Total 5.6.5 - Frost Heave Ventilation</b>   |               |                 |       |   |            |
|              | <b>Total 5.6 - Refrigeration System</b>  |               |                 |       |   |            |
|              |  |               |                 |       |   |            |
| <b>5.7</b>   | <b>Outdoor LED Display</b>   |               |                 |       |   |            |
| 5.7.1        | Outdoor LED Display Fixed Type, 3.0m(h) x 4.0m(w) with structural framing with all accessories to complete   | 1             |                 | lot   |   |            |
|              |  |               |                 |       |   |            |
| 5.8          | Provision for solar complete with Inverter, Panel board, PV module, wires, mounting structure and all necessary item to complete the system.                   |               |                 |       |   |            |
| 5.8.1        | GAD  | 26.64         |                 | KWp   |   |            |
| 5.8.2        | Market   | 333           |                 | KWp   |   |            |
| 5.8.3        | Commercial   | 13.32         |                 | KWp   |   |            |
| 5.8.4        | Cold storage   | 39.36         |                 | KWp   |   |            |
| 5.8.5        | Toilet   | 13.32         |                 | KWp   |   |            |
| 5.8.6        | Electric pole complete with suspension type insulator, pin insulator, lightning arrester, crossarm, current transformer, potential transformer and zero export | 1             |                 | set   |   |            |
|              | <b>Total 5.8 - Solar System</b>  |               |                 |       |   |            |
|              | <b>Total 5.0 - MISCELLANEOUS</b>   |               |                 |       |   |            |
|              |  |               |                 |       |   |            |



Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
**PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY**  
 PCA Annex Building, Elliptical Road, Diliman, Quezon City

**BILL OF QUANTITIES**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO.     | DESCRIPTION                     | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|--------------|---------------------------------|------------------|--------------------|-------|---|------------|
| <b>6.0</b>   | <b>BUILDING WORKS</b>           |                  |                    |       |   |            |
| <b>6.1.1</b> | <b>MARKET HALL</b>              |                  |                    |       |   |            |
| DIV-02       | SITE CONSTRUCTION               | 1                |                    | l.s.  |   |            |
| DIV-03       | CONCRETE WORKS                  | 1                |                    | l.s.  |   |            |
| DIV-04       | MASONRY WORKS                   | 1                |                    | l.s.  |   |            |
| DIV-05       | METAL WORKS                     | 1                |                    | l.s.  |   |            |
| DIV-06       | WOOD AND PLASTIC                | 1                |                    | l.s.  |   |            |
| DIV-07       | THERMAL AND MOISTURE PROTECTION | 1                |                    | l.s.  |   |            |
| DIV-08       | DOORS AND WINDOWS               | 1                |                    | l.s.  |   |            |
| DIV-09       | FINISHES                        | 1                |                    | l.s.  |   |            |
| DIV-13       | SPECIAL CONSTRUCTION            |                  |                    |       |   |            |
| 13.1         | Fire Detection And Alarm System | 1                |                    | l.s.  |   |            |
| 13.2         | Fire Protection Works           | 1                |                    | l.s.  |   |            |
| DIV-15       | MECHANICAL WORKS                |                  |                    |       |   |            |
| 15.1         | PLUMBING WORKS                  | 1                |                    | l.s.  |   |            |
| DIV 16       | ELECTRICAL WORKS                | 1                |                    | l.s.  |   |            |
|              |                                 |                  |                    |       |   |            |
|              | <b>Total "6.1.1" - MARKET</b>   |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               |   |                  |                    |       |   |            |
| <b>6.0</b>    | <b>BUILDING WORKS</b>   |                  |                    |       |   |            |
| <b>6.1.1</b>  | <b>MARKET HALL</b>  |                  |                    |       |   |            |
| <b>DIV-02</b> | <b>SITE CONSTRUCTION</b>  |                  |                    |       |   |            |
| 2.1           | Building Layout   | 3,065            |                    | sq.m. |   |            |
| 2.2           | Structure Excavation  | 5,675            |                    | cu.m. |   |            |
| 2.3           | Backfilling and filling   |                  |                    |       |   |            |
| 2.3.1         | Backfill excavations with suitable excavated materials  | 4,394            |                    | cu.m. |   |            |
| 2.3.2         | Gravel base   | 702              |                    | cu.m. |   |            |
| 2.3.3         | Backfill ( from borrow materials)   | 2,943            |                    | cu.m. |   |            |
| 2.4           | Soil Disposal   |                  |                    |       |   |            |
| 2.4.1         | Remove surplus excavated material from site   | 1,281            |                    | cu.m. |   |            |
| 2.5           | Subgrade Preparation  | 3,065            |                    | sq.m. |   |            |
| 2.6           | Anti-termite treatment to surfaces of ground and sides and bottoms of excavations                             | 4,707            |                    | sq.m. |   |            |
|               | <b>Total "DIV-02" - SITE CONSTRUCTION</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-03</b> | <b>CONCRETE WORKS</b>   |                  |                    |       |   |            |
| <b>3.1</b>    | <b>Cast-In-Place Structural Concrete</b>  |                  |                    |       |   |            |
| 3.1.1         | Reinforced concrete; 280 kg/cm2 or 4000 psi or 27.60 Mpa  |                  |                    |       |   |            |
| 1             | Foundation  | 803              |                    | cu.m. |   |            |
| 2             | Footing Tie Beam  | 174              |                    | cu.m. |   |            |
| 3             | Columns and Pedestal  | 268              |                    | cu.m. |   |            |
| 4             | Beams   | 381              |                    | cu.m. |   |            |
| 5             | Suspended Slab  | 504              |                    | cu.m. |   |            |
| 6             | Slab-on-grade   | 521              |                    | cu.m. |   |            |
| 7             | Stairs  | 58               |                    | cu.m. |   |            |
| 8             | Water Tank  | 12               |                    | cu.m. |   |            |
| 3.1.2         | Reinforced concrete; 3000 psi or 21 Mpa   |                  |                    |       |   |            |
| 1             | Non-Structural RC Walls/ Parapet/ Canopy  | 36               |                    | cu.m. |   |            |
| <b>3.2</b>    | <b>Reinforcement in concrete</b>  |                  |                    |       |   |            |
| 3.2.1         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 60 |                  |                    |       |   |            |
| 1             | Foundation  | 111,066          |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 19,529           |                    | kg.   |   |            |
| 3             | Columns and Pedestal  | 51,758           |                    | kg.   |   |            |
| 4             | Beams   | 76,630           |                    | kg.   |   |            |
| 5             | Stairs  | 5,779            |                    | kg.   |   |            |
| 3.2.2         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 40 |                  |                    |       |   |            |
| 1             | Foundation  | 3,397            |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 11,442           |                    | kg.   |   |            |
| 3             | Columns and Pedestal  | 18,546           |                    | kg.   |   |            |
| 4             | Beams   | 35,122           |                    | kg.   |   |            |
| 5             | Suspended Slab  | 35,595           |                    | kg.   |   |            |
| 6             | Slab on Grade   | 25,554           |                    | kg.   |   |            |
| 7             | Stairs  | 3,700            |                    | kg.   |   |            |
| 8             | Water Tank  | 768              |                    | kg.   |   |            |
| 9             | Non-Structural RC Walls/ Parapet/ Canopy  | 2,830            |                    | kg.   |   |            |
| <b>3.3</b>    | <b>Formwork</b>   |                  |                    |       |   |            |
| 1             | Foundation  | 964              |                    | sq.m. |   |            |
| 2             | Footing Tie Beam  | 1,502            |                    | sq.m. |   |            |
| 3             | Columns and Pedestal  | 2,244            |                    | sq.m. |   |            |
| 4             | Beams   | 3,589            |                    | sq.m. |   |            |
| 5             | Suspended Slab  | 3,351            |                    | sq.m. |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| 6             | Stairs  | 447              |                    | sq.m. |   |            |
| 7             | Water Tank  | 76               |                    | sq.m. |   |            |
| 8             | Non-Structural RC Walls/ Parapet/ Canopy  | 672              |                    | sq.m. |   |            |
|               | <b>Total "DIV-03" - CONCRETE WORKS</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-04</b> | <b>MASONRY WORKS</b>  |                  |                    |       |   |            |
| 4.1           | Masonry Grout   |                  |                    |       |   |            |
| 1             | Concrete Block Cores, 2500 PSI  | 272              |                    | cu.m. |   |            |
| 4.2           | Concrete stiffener columns and bond / lintel beams inclusive of formworks and steel reinforcement, Grade 275 (Grade 40)   | 50               |                    | cu.m. |   |            |
| 4.3           | CHB Steel Reinforcement, Grade 40 PNS 275 with Ga.16 G.I. Tie Wire  | 12,676           |                    | kg.   |   |            |
| 4.4           | Concrete Masonry Units  |                  |                    |       |   |            |
| 1             | CHB, 150mm thk. Load Bearing (700 psi)- exterior  | 2,827            |                    | sq.m. |   |            |
| 2             | CHB, 100mm thk. Load Bearing (350 psi)  | 754              |                    | sq.m. |   |            |
|               | <b>Total "DIV-04" - MASONRY WORKS</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-05</b> | <b>METAL WORKS</b>  |                  |                    |       |   |            |
| 5.1           | Miscellaneous Metals  |                  |                    |       |   |            |
| 5.1.1         | Handrails and Railings  |                  |                    |       |   |            |
| 1             | Ramp railing; 50mm dia. SS Pipe Handrail railing vertical and horizontal members including all incidentals to complete (supply and installation)                              | 40               |                    | l.m.  |   |            |
| 5.1.2         | Steel Ladder  |                  |                    |       |   |            |
| 1             | Steel Ladder with 38mm dia. G.I Handrail and ladder rungs including painting and all incidentals to complete (@ Water Tank to Roof Deck)                                      | 1                |                    | lot   |   |            |
| 2             | Steel Ladder ( @ GL A1-B/21 Roof Deck level)  | 1                |                    | lot   |   |            |
|               | <b>Total "DIV-05" - METAL WORKS</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-06</b> | <b>WOOD AND PLASTIC</b>   |                  |                    |       |   |            |
| 6.1           | Finish Carpentry  |                  |                    |       |   |            |
| 1             | fr. 100 x 200mm wooden stair handrail   | 162              |                    | l.m.  |   |            |
|               | <b>Total "DIV-06" - WOOD AND PLASTIC</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-07</b> | <b>THERMAL AND MOISTURE PROTECTION</b>  |                  |                    |       |   |            |
| 7.1           | <b>Dampproofing and Waterproofing</b>   |                  |                    |       |   |            |
| 7.1.1         | Dampproofing vapor barriers, 1 layer 6 mils thick   | 3,065            |                    | sq.m. |   |            |
| 7.1.2         | Waterproofing   |                  |                    |       |   |            |
| 7.1.2.1       | for Rain Water Collection Tank  |                  |                    |       |   |            |
| 1             | Liquid applied, cementitious membrane, non-trafficable waterproofing  | 215              |                    | sq.m. |   |            |
| 2             | Epoxy tank lining   | 215              |                    | sq.m. |   |            |
| 7.2           | Insulation  |                  |                    |       |   |            |
| 1             | Roof Sprayed Polyurethane Foam Insulation system Seamless type with Flexible Acrylic Waterproofing including Surface Preparation and other consumable accessories to complete | 3,122            |                    | sq.m. |   |            |
|               | <b>Total "DIV-07"-THERMAL AND MOISTURE PROTECTION</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-08</b> | <b>DOORS AND WINDOWS</b>  |                  |                    |       |   |            |
| <b>8.1</b>    | <b>DOORS</b>  |                  |                    |       |   |            |
| 8.1.1         | WOODEN DOORS  |                  |                    |       |   |            |
| 8.1.1.1       | Fromm 25mm thick tanguile door panel with 50 x 150mm KD door frame and 50 x 100mm Yakal KD door jamb  |                  |                    |       |   |            |
| 1             | D-3, 900mm x 2100mm   | 37               |                    | set   |   |            |
| 2             | D-4, 800mm x 2100mm   | 1                |                    | set   |   |            |



| ITEM NO.      | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|---------------|---|---------------|-----------------|-------|---|------------|
| 8.1.1.2       | Double leaf flush type hollow core marine plywood wood door including Yakal door jamb, painted finish               |               |                 |       |   |            |
| 1             | D-1, 1050mm x 950mm   | 37            |                 | set   |   |            |
| 2             | D-2, 650mm x 1800mm   | 1             |                 | set   |   |            |
| 8.1.2         | WPC LOUVER DOORS  |               |                 |       |   |            |
| 8.1.2.1       | Louvered wood plastic composite (WPC) door on metal frame including WPC door jamb                                   |               |                 |       |   |            |
| 1             | PD-1, 2000mm x 2100mm (double-leaf)   | 1             |                 | set   |   |            |
| 2             | PD-2, 1800mm x 2100mm (double-leaf)   | 1             |                 | set   |   |            |
| 3             | PD-3, 800mm x 2100mm  | 1             |                 | set   |   |            |
|               | <b>Sub-total 8.1 - Doors</b>  |               |                 |       |   |            |
| <b>8.2</b>    | <b>WINDOWS</b>  |               |                 |       |   |            |
| 8.2.1         | Glass Aluminum Window with 6mm thick clear glass on Aluminum Powder coated frame including all complete accessories |               |                 |       |   |            |
| 1             | AW-2, 3000mm x 1200mm (fixed, 5 panels)   | 37            |                 | set   |   |            |
| 2             | AW-3, 4800mm x 1200mm (fixed, 5 panels)   | 1             |                 | set   |   |            |
| 3             | AW-4, 1000mm x 1200mm (3 awning panels)   | 2             |                 | set   |   |            |
| 4             | AW-5, 1600mm x 600mm (fixed, 1 panel)   | 2             |                 | set   |   |            |
| 8.2.2         | Glass Louver Window with 6mm thick clear glass on Aluminum Powder coated frame including all complete accessories   |               |                 |       |   |            |
| 1             | AW-1, 650mm x 1200mm (3 awning panels)  | 74            |                 | set   |   |            |
| 2             | AW-4, 1000mm x 1200mm (3 awning panels)   | 37            |                 | set   |   |            |
| 8.2.3         | WPC Fixed Sun Shade Louver incuding Steel Tubular Frame and complete accessories                                    |               |                 |       |   |            |
| 1             | WPC, 2275mm x 3450mm high (L-type)  | 1             |                 | set   |   |            |
| 2             | Steel Tubular Frame   | 55            |                 | kg.   |   |            |
|               | <b>Sub-total 8.2 - Windows</b>  |               |                 |       |   |            |
| <b>8.3</b>    | <b>Hardwarees</b>   |               |                 |       |   |            |
| 8.3.1         | Lockset   |               |                 |       |   |            |
| 1             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 1, UL Certified, 6-Pins, satin chrome finish                    | 4             |                 | set   |   |            |
| 2             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 2, UL Certified, 6-Pins, satin chrome finish                    | 3             |                 | set   |   |            |
| 3             | Entry Key To Thumbturn Cylinder in rose plate , SSS   | 42            |                 | set   |   |            |
| 4             | Deadbolt, one way, blank plate inside, US32D, ANSI G2 UL 3HRFR  | 38            |                 | set   |   |            |
| 8.3.2         | HINGES:   |               |                 |       |   |            |
| 1             | BA4F 4.5 x 4 x 3.4 x 4BB Full Mortise ANSI Templated Hinge High Frequency, 304 SSS                                  | 214           |                 | pair  |   |            |
| 8.3.3         | CLOSER:   |               |                 |       |   |            |
| 1             | Overhead cam action door closer in slide channel arm, silver finish   | 41            |                 | set   |   |            |
| 2             | Surface mounted door closer with standard arm, silver finish  | 12            |                 | set   |   |            |
| 8.3.4         | Accessories   |               |                 |       |   |            |
| 1             | Flush door handle, stainless steel recessed cup handle  | 149           |                 | set   |   |            |
| 2             | Manual Flushbolt, L-shape, 6" long, SSS   | 76            |                 | set   |   |            |
| 3             | Manual Flushbolt, L-shape, 12" long, SSS  | 8             |                 | set   |   |            |
| 4             | Dust proof socket-floor mounted, satin chrome finish  | 41            |                 | set   |   |            |
|               | <b>Sub-total 8.3 - Hardwarees</b>   |               |                 |       |   |            |
|               | <b>Total "DIV-08" - DOORS AND WINDOWS</b>   |               |                 |       |   |            |
| <b>DIV-09</b> | <b>FINISHES</b>   |               |                 |       |   |            |
| 9.1           | <b>Floor Finishes</b>   |               |                 |       |   |            |
| 9.1.1         | Vinyl Tiles, Light Gray/ Ivory White, 465 x 465mm   | 349           |                 | sq.m. |   |            |
| 9.1.2         | Concrete surface hardener; natural aggregate; colored (7 kgs/sm)  | 2,866         |                 | sq.m. |   |            |
| 9.1.3         | Plain cement concrete steel trowel finish (to receive viny, hardener flooring)                                      | 3,215         |                 | sq.m. |   |            |
|               | <b>Sub-total - Floor Finishes</b>   |               |                 |       |   |            |
| <b>9.2</b>    | <b>Wall Finishes</b>  |               |                 |       |   |            |
| 9.2.1         | Plain Cement Wall Finish (exterior)   | 2,294         |                 | sq.m. |   |            |
| 9.2.2         | Plain Cement Wall Finish (interior)   | 8,119         |                 | sq.m. |   |            |

| ITEM NO.      | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|--|------------------|--------------------|-------|---|------------|
| 9.2.3         | Decorative Insulation Panel System   | 900              |                    | sq.m. |   |            |
|               | <b>Sub-total - Wall Finishes</b>   |                  |                    |       |   |            |
| <b>9.3</b>    | <b>Ceiling Finishes</b>  |                  |                    |       |   |            |
| 9.3.1         | 6mm thk. Fiber cement board ceiling on metal frame system                                  | 331              |                    | sq.m. |   |            |
| 9.3.2         | Rubbed concrete ceiling finish   | 2,878            |                    | sq.m. |   |            |
|               | <b>Sub-total - Ceiling Finishes</b>  |                  |                    |       |   |            |
| <b>9.4</b>    | <b>Baseboard Finishes/ Stair Nosing</b>  |                  |                    |       |   |            |
| 9.4.1         | Baseboard Finishes   |                  |                    |       |   |            |
| 1             | 100mm thick painted strip base   | 2,052            |                    | l.m.  |   |            |
| 9.4.2         | Stair Nosing   |                  |                    |       |   |            |
| 1             | PVC stair nosing   | 1,076            |                    | l.m.  |   |            |
|               | <b>Sub-total - Baseboard Finishes</b>  |                  |                    |       |   |            |
| <b>9.5</b>    | <b>Painting Works</b>  |                  |                    |       |   |            |
| 9.5.1         | At Wall  |                  |                    |       |   |            |
| 1             | Painting of Masonry/Concrete Surfaces, interior, plain finish                              | 8,119            |                    | sq.m. |   |            |
| 2             | Painting on Exterior Wall Surfaces, textured finish  | 1,394            |                    | sq.m. |   |            |
| <b>9.5.2</b>  | <b>At Ceiling</b>  |                  |                    |       |   |            |
| 1             | Painting on fiber cement board ceiling surfaces  | 331              |                    | sq.m. |   |            |
| 2             | Painting on exposed concrete ceiling surfaces  | 2,878            |                    | sq.m. |   |            |
| 9.5.3         | Painting on wooden surfaces (wood doors, railings, etc.)                                   | 70               |                    | sq.m. |   |            |
|               | <b>Sub-total - Painting</b>  |                  |                    |       |   |            |
|               | <b>Total "DIV-09" - FINISHES</b>   |                  |                    |       |   |            |
| <b>DIV-13</b> | <b>SPECIAL CONSTRUCTION</b>  |                  |                    |       |   |            |
| <b>13.1</b>   | <b>Fire Detection and Alarm System</b>   |                  |                    |       |   |            |
| 13.1.1        | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials |                  |                    |       |   |            |
| 1             | 20mm dia. IMC with coupling  | 618              |                    | l.m.  |   |            |
| 2             | 20mm dia. IMC Locknut & Bushing  | 114              |                    | pair  |   |            |
| 3             | 20mm dia. Flexible Metallic Conduit  | 76               |                    | l.m.  |   |            |
| 4             | 20mm dia. Straight and Angle connector   | 76               |                    | pair  |   |            |
| 13.1.2        | Boxes/Pull Boxes   |                  |                    |       |   |            |
| 1             | Junction Box   | 38               |                    | ea    |   |            |
| 13.1.3        | Wires and Cables drawn into conduit including splices, terminations, etc.                  |                  |                    |       |   |            |
| 1             | 1.25mm <sup>2</sup> Twisted Shielded Pair  | 649              |                    | l.m.  |   |            |
| 2             | 2.0mm <sup>2</sup> TW  | 261              |                    | l.m.  |   |            |
| 13.1.4        | Wiring Devices   |                  |                    |       |   |            |
| 1             | Addressable Fire Alarm Control Panel with back-up battery                                  | 1                |                    | set   |   |            |
| 2             | Addressable Smoke Detector   | 38               |                    | set   |   |            |
| 3             | Addressable Manual Pull Station  | 38               |                    | set   |   |            |
| 4             | Horn Strobe / Fire Alarm Horn unit   | 6                |                    | set   |   |            |
| 5             | Testing and Commissioning  | 1                |                    | lot   |   |            |
|               | <b>Total 13.1 - Fire Detection and Alarm System</b>  |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>13.2</b>   | <b>Fire Protection Works</b>   |                  |                    |       |   |            |
| 13.2.1        | Fire Protection Equipment  |                  |                    |       |   |            |
| 13.2.1.1      | Fire Extinguisher  |                  |                    |       |   |            |
| 1             | Multi-purpose ABC Dry Chemical Fire Extinguisher 4.5kg (FE-01)                             | 10               |                    | ea    |   |            |
| 2             | AFFF Fire Extinguisher 50 lbs (FE-04)  | 1                |                    | ea    |   |            |
|               | <b>Total 13.2 - Fire Protection Works</b>  |                  |                    |       |   |            |
|               | <b>TOTAL DIV-13 - SPECIAL CONSTRUCTION</b>   |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-15</b> | <b>MECHANICAL WORKS</b>  |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION                                   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| <b>15.1</b>   | <b>PLUMBING WORKS</b>                         |                  |                    |       |   |            |
| <b>15.1.1</b> | <b>Plumbing Fixtures and Accessories</b>      |                  |                    |       |   |            |
| 1             | Grease Trap                                   | 1                |                    | set   |   |            |
| 2             | 20mm dia. Hosebibb                            | 21               |                    | set   |   |            |
| 3             | 15mm dia. Faucet                              | 8                |                    | ea    |   |            |
|               | <b>TOTAL DIV 15.1.1 - Plumbing Fixtures</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.2</b> | <b>Potable Water Lines</b>                    |                  |                    |       |   |            |
| 15.1.2.1      | PE Pipes                                      |                  |                    |       |   |            |
| 1             | 50 mm dia.                                    | 8                |                    | l.m.  |   |            |
| 2             | 32 mm dia.                                    | 7                |                    | l.m.  |   |            |
| 3             | 25 mm dia.                                    | 29               |                    | l.m.  |   |            |
| 4             | 20 mm dia.                                    | 182              |                    | l.m.  |   |            |
| 5             | 15 mm dia.                                    | 20               |                    | l.m.  |   |            |
|               | Fittings                                      |                  |                    |       |   |            |
| 15.1.2.2      | Elbow 90 DEG.                                 |                  |                    |       |   |            |
| 1             | 50 mm dia.                                    | 9                |                    | ea    |   |            |
| 2             | 32 mm dia.                                    | 3                |                    | ea    |   |            |
| 3             | 25 mm dia.                                    | 3                |                    | ea    |   |            |
| 4             | 20 mm dia.                                    | 23               |                    | ea    |   |            |
| 15.1.2.3      | Tee Reducer                                   |                  |                    |       |   |            |
| 1             | 50 mm x 32 mm dia.                            | 1                |                    | ea    |   |            |
| 2             | 32 mm x 25mm dia.                             | 2                |                    | ea    |   |            |
| 3             | 25 mm x 20mm dia.                             | 6                |                    | ea    |   |            |
| 4             | 25 mm x 12 mm dia.                            | 8                |                    | ea    |   |            |
| 5             | 20mm x 12mm dia.                              | 8                |                    | ea    |   |            |
| 6             | 25 mm dia.                                    | 1                |                    | ea    |   |            |
| 7             | 20 mm dia.                                    | 7                |                    | ea    |   |            |
| 8             | 12 mm dia.                                    | 4                |                    | ea    |   |            |
| 15.1.2.4      | Reducer                                       |                  |                    |       |   |            |
| 1             | 25 mm x 20 mm dia.                            | 1                |                    | ea    |   |            |
| 2             | 32 mm x 20 mm dia.                            | 1                |                    | ea    |   |            |
| 15.1.2.5      | Female Adaptor                                |                  |                    |       |   |            |
| 1             | 20 mm dia.                                    | 2                |                    | ea    |   |            |
| 2             | 12 mm dia.                                    | 11               |                    | ea    |   |            |
| 15.1.2.6      | Male Adaptor                                  |                  |                    |       |   |            |
| 1             | 50 mm dia.                                    | 2                |                    | ea    |   |            |
| 2             | 25 mm dia.                                    | 2                |                    | ea    |   |            |
| 15.1.2.7      | Gate Valve                                    |                  |                    |       |   |            |
| 1             | 50 mm dia.                                    | 2                |                    | ea    |   |            |
| 2             | 25 mm dia.                                    | 1                |                    | ea    |   |            |
| 15.1.2.8      | Faucet  |                  |                    |       |   |            |
| 1             | 12 mm dia.                                    | 9                |                    | ea    |   |            |
| 15.1.2.9      | House Bibb                                    |                  |                    |       |   |            |
| 1             | 20 mm dia.                                    | 9                |                    | ea    |   |            |
|               | <b>TOTAL DIV 15.1.2 - Potable Water Lines</b> |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.3</b> | <b>Non-Potable Water Lines</b>                |                  |                    |       |   |            |
| 15.1.3.1      | PE Pipes                                      |                  |                    |       |   |            |
| 1             | 50 mm dia.                                    | 43               |                    | l.m.  |   |            |
| 2             | 25 mm dia.                                    | 62               |                    | l.m.  |   |            |
| 3             | 20 mm dia.                                    | 88               |                    | l.m.  |   |            |
|               | Fittings                                      |                  |                    |       |   |            |
| 15.1.3.2      | Tee Reducer                                   |                  |                    |       |   |            |
| 1             | 50 mm x 25 mm dia.                            | 1                |                    |       |   |            |
| 2             | 25 mm x 20mm dia.                             | 3                |                    | ea    |   |            |
| 3             | 25 mm x 20 mm dia.                            | 2                |                    | ea    |   |            |

| ITEM NO.      | DESCRIPTION                                       | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|---------------|---|---------------|-----------------|-------|---|------------|
| 4             | 25 mm dia.  | 14            |                 | ea    |   |            |
| 15.1.3.3      | Reducer   |               |                 |       |   |            |
| 1             | 50 mm x 25 mm dia.                                | 1             |                 | ea    |   |            |
| 2             | 25 mm x 20 mm dia.                                | 2             |                 | ea    |   |            |
| 15.1.3.4      | Female Adaptor                                    |               |                 |       |   |            |
| 1             | 20 mm dia.  | 5             |                 | ea    |   |            |
| 15.1.3.5      | Male Adaptor                                      |               |                 |       |   |            |
| 1             | 50 mm dia.  | 4             |                 | ea    |   |            |
| 15.1.3.6      | Gate Valve  |               |                 |       |   |            |
| 1             | 50 mm dia.  | 2             |                 | ea    |   |            |
|               | <b>TOTAL DIV 15.1.3 - Non-Potable Water Lines</b> |               |                 |       |   |            |
|               |   |               |                 |       |   |            |
| <b>15.1.4</b> | <b>Sea Water Lines</b>                            |               |                 |       |   |            |
| 15.1.4.1      | PPR Pipes   |               |                 |       |   |            |
| 1             | 50 mm dia.  | 10            |                 | l.m.  |   |            |
| 2             | 38 mm dia.  | 47            |                 | l.m.  |   |            |
| 3             | 32 mm dia.  | 40            |                 | l.m.  |   |            |
| 4             | 25 mm dia.  | 40            |                 | l.m.  |   |            |
| 5             | 20 mm dia.  | 56            |                 | l.m.  |   |            |
|               | Fittings  |               |                 |       |   |            |
| 15.1.4.2      | Tee   |               |                 |       |   |            |
| 1             | 20 mm dia.  | 8             |                 | ea    |   |            |
| 15.1.4.3      | Tee Reducer                                       |               |                 |       |   |            |
| 1             | 50 mm x 38 mm dia.                                | 1             |                 | ea    |   |            |
| 2             | 38 mm x 20 mm dia.                                | 2             |                 | ea    |   |            |
| 3             | 32 mm x 20 mm dia.                                | 2             |                 | ea    |   |            |
| 4             | 25 mm x 20mm dia.                                 | 2             |                 | ea    |   |            |
| 15.1.4.4      | Reducer/ Increaser                                |               |                 |       |   |            |
| 1             | 50 mm x 38 mm dia.                                | 1             |                 | ea    |   |            |
| 2             | 38 mm x 32mm dia.                                 | 2             |                 | ea    |   |            |
| 3             | 32 mm x 25 mm dia.                                | 2             |                 | ea    |   |            |
| 4             | 25 mm x 20 mm dia.                                | 2             |                 | ea    |   |            |
| 15.1.4.5      | Elbow 90 DEG.                                     |               |                 |       |   |            |
| 1             | 50 mm dia.  | 2             |                 | l.m.  |   |            |
| 2             | 38 mm dia.  | 1             |                 | l.m.  |   |            |
| 3             | 20 mm dia.  | 41            |                 | ea    |   |            |
| 15.1.4.6      | Female Adaptor                                    |               |                 |       |   |            |
| 1             | 20 mm dia.  | 16            |                 | ea    |   |            |
| 15.1.4.7      | Male Adaptor                                      |               |                 |       |   |            |
| 1             | 50 mm dia.  | 2             |                 | ea    |   |            |
| 15.1.4.8      | Gate Valve  |               |                 |       |   |            |
| 1             | 50 mm dia.  | 1             |                 | ea    |   |            |
|               | <b>TOTAL DIV 15.1.4 - Sea Water Lines</b>         |               |                 |       |   |            |
|               |   |               |                 |       |   |            |
| <b>15.1.5</b> | <b>Waste Drainage</b>                             |               |                 |       |   |            |
| 15.1.5.1      | uPVC Pipe, Series 1000                            |               |                 |       |   |            |
| 1             | 200 mm dia.                                       | 15            |                 | l.m.  |   |            |
| 2             | 150 mm dia.                                       | 144           |                 | l.m.  |   |            |
| 3             | 100 mm dia.                                       | 6             |                 | l.m.  |   |            |
|               | Fittings  |               |                 |       |   |            |
| 15.1.5.2      | Wye   |               |                 |       |   |            |
| 1             | 150 mm dia.                                       | 2             |                 | ea    |   |            |
| 15.1.5.3      | Wye Reducer                                       |               |                 |       |   |            |
| 1             | 150 mm x 100 mm dia.                              | 1             |                 | ea    |   |            |
| 15.1.5.4      | Elbow 45 DEG.                                     |               |                 |       |   |            |
| 1             | 150 mm dia.                                       | 4             |                 | ea    |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| 2             | 100 mm dia.   | 6                |                    | ea    |   |            |
| 15.1.5.5      | Clean out   |                  |                    |       |   |            |
| 1             | 150 mm dia.   | 11               |                    | ea    |   |            |
| 15.1.5.6      | Trench Drain W/ C.I. Cover  |                  |                    |       |   |            |
| 1             | 300 mm W x 100 mm H   | 94               |                    | l.m.  |   |            |
| 2             | 100 mm W x 300 mm H   | 6                |                    | l.m.  |   |            |
| 15.1.5.7      | Open Trench Drain   |                  |                    |       |   |            |
| 1             | 100 mm W x 300 mm H   | 231              |                    | l.m.  |   |            |
| 15.1.5.8      | Catch Basin   |                  |                    |       |   |            |
| 1             | 600 mm x 600 mm   | 8                |                    | ea    |   |            |
| 15.1.5.9      | Drainage Collector  |                  |                    |       |   |            |
| 1             | 2100 mm x 800 mm  | 2                |                    | ea    |   |            |
|               | <b>TOTAL DIV 15.1.5 - Waste Drainage</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.6</b> | <b>Storm Pipes</b>  |                  |                    |       |   |            |
| 15.1.6.1      | uPVC Pipe, Series 1000  |                  |                    |       |   |            |
| 1             | 150 mm dia.   | 185              |                    | l.m.  |   |            |
| 2             | 100 mm dia.   | 23               |                    | l.m.  |   |            |
|               | Fittings  |                  |                    |       |   |            |
| 15.1.6.2      | Elbow 45 DEG.   |                  |                    |       |   |            |
| 1             | 150 mm dia.   | 20               |                    | ea    |   |            |
| 2             | 100 mm dia.   | 1                |                    | ea    |   |            |
| 15.1.6.3      | Elbow 90 DEG.   |                  |                    |       |   |            |
| 1             | 150 mm dia.   | 34               |                    | ea    |   |            |
| 2             | 100 mm dia.   | 3                |                    | ea    |   |            |
| 15.1.6.4      | Wye   |                  |                    |       |   |            |
| 1             | 150 mm dia.   | 20               |                    | ea    |   |            |
| 15.1.6.5      | Deck Drain  |                  |                    |       |   |            |
| 1             | 150 mm dia.   | 12               |                    | ea    |   |            |
|               | Storm Drainage Pipes (Exterior Installation), including excavation, backfill, removal of surplus excavated, sandbedding, concrete breaking and restoration, and other incidentals to complete as specified in Mechanical Drawings and Technical Specifications. |                  |                    |       |   |            |
| 15.1.6.6      | Trench Drain w/ Concrete Cover  |                  |                    |       |   |            |
| 1             | 600 mm W  | 189              |                    | l.m.  |   |            |
| 2             | Concrete Cover  | 189              |                    | l.m.  |   |            |
| 15.1.6.7      | PVC Storm Drainage Pipes, Series 1000   |                  |                    |       |   |            |
| 1             | 200 mm dia.   | 146              |                    | ea    |   |            |
| 15.1.6.8      | Catch Basin   |                  |                    |       |   |            |
| 1             | 600 mm x 600 mm   | 14               |                    | ea    |   |            |
|               | <b>TOTAL DIV 15.1.6 - Storm Pipes</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.7</b> | <b>Water Tank</b>   |                  |                    |       |   |            |
| 15.1.7.1      | Floor Drain   |                  |                    |       |   |            |
| 1             | 200 mm dia.   | 6                |                    | ea    |   |            |
| 2             | 150 mm dia.   | 4                |                    | ea    |   |            |
| 15.1.7.2      | Gate Valve  |                  |                    |       |   |            |
| 1             | 150 mm dia.   | 1                |                    | ea    |   |            |
| 2             | 50 mm dia.  | 5                |                    | ea    |   |            |
| 15.1.7.3      | Float Valve   |                  |                    |       |   |            |
| 1             | 50 mm dia.  | 1                |                    | ea    |   |            |
| 15.1.7.4      | uPVC Pipe, Series 1000  |                  |                    |       |   |            |
| 1             | 150 mm dia.   | 10               |                    | l.m.  |   |            |
| 2             | 100 mm dia.   | 5                |                    | l.m.  |   |            |
| 15.1.7.5      | Floor Clean Out Pvc   |                  |                    |       |   |            |
| 1             | 150 mm dia.   | 1                |                    | ea    |   |            |
| 15.1.7.6      | Elbow 45 DEG. Pvc   |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|--|------------------|--------------------|-------|---|------------|
| 1             | 150 mm dia.  | 2                |                    | l.m.  |   |            |
| 15.1.7.7      | Wye Reducer Pvc  |                  |                    |       |   |            |
| 1             | 150 mm x 100 mm dia.   | 2                |                    | ea    |   |            |
| 15.1.7.9      | Union Patente  |                  |                    |       |   |            |
| 1             | 50 mm dia.   | 3                |                    | ea    |   |            |
| 15.1.7.10     | S.S. Paddle Flange   |                  |                    |       |   |            |
| 1             | 150 mm dia.  | 1                |                    | ea    |   |            |
| 2             | 100 mm dia.  | 2                |                    | ea    |   |            |
| 3             | 50 mm dia.   | 3                |                    | ea    |   |            |
| 15.1.7.11     | Pipes G.I.   |                  |                    |       |   |            |
| 1             | 200 mm dia.  | 18               |                    | l.m.  |   |            |
| 2             | 150 mm dia.  | 19               |                    | l.m.  |   |            |
| 3             | 100 mm dia.  | 22               |                    | l.m.  |   |            |
| 4             | 50 mm dia.   | 28               |                    | l.m.  |   |            |
|               | Fittings   |                  |                    |       |   |            |
| 15.1.7.12     | Elbow 90 DEG.  |                  |                    |       |   |            |
| 1             | 200 mm dia.  | 14               |                    | ea    |   |            |
| 2             | 150 mm dia.  | 6                |                    | ea    |   |            |
| 3             | 100 mm dia.  | 4                |                    | ea    |   |            |
| 4             | 50 mm dia.   | 13               |                    | ea    |   |            |
| 15.1.7.13     | Miscellaneous @ Cistern  |                  |                    |       |   |            |
| 1             | 600 mm x 600 mm Man Hole Cover   | 2                |                    | ea    |   |            |
| 2             | 300 mm x 200 mm x 20mm diameter Stainless Steel Ladder rung  | 12               |                    | ea    |   |            |
| 3             | 150 mm dia. Air Vent on Assembly   | 2                |                    | ea    |   |            |
| 4             | Water Level Indicator  | 1                |                    | ea    |   |            |
| 15.1.7.14     | Plumbing Fixtures and Accessories  |                  |                    |       |   |            |
| 1             | Grease Trap  | 1                |                    | set   |   |            |
| 2             | 20mm dia. Hosebibb   | 21               |                    | set   |   |            |
| 3             | 15mm dia. Faucet   | 8                |                    | ea    |   |            |
|               | <b>TOTAL DIV 15.1.7 - Water Tank</b>   |                  |                    |       |   |            |
|               | <b>TOTAL DIV 15.1 - PLUMBING WORKS</b>   |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-16</b> | <b>ELECTRICAL WORKS</b>  |                  |                    |       |   |            |
| <b>16.1</b>   | <b>LIGHTNING PROTECTION SYSTEM</b>   |                  |                    |       |   |            |
| 16.1.1        | Supply and Installation of Early Streamer Emission Lightning Conductor Terminal, Non-radioactive Lightning Protection System (112M RADIUS @ Level 4) with complete PVC roughing - ins and support, Bare Copper wire conductor, Lightning Stroke Counter, 16mFabricated G.I. Mast with support, and grounding system with complete 3 pcs. of interconnected copper clad rod and concrete pit & cover. | 1                |                    | lot   |   |            |
| 16.1.2        | Concrete foundation for lightning protection pole including excavation, backfilling, disposal, and other incidentals to complete installation.   | 1                |                    | lot   |   |            |
|               | <b>Total 16.1 - LIGHTNING PROTECTION SYSTEM</b>  |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>16.2</b>   | <b>GROUNDING SYSTEM</b>  |                  |                    |       |   |            |
| 16.2.1        | Ground Well (320x320x190 mm)   | 2                |                    | ea    |   |            |
| 16.2.2        | Ground Rod Copper Clad Steel 20mm DIA x 3m LONG  | 25               |                    | ea    |   |            |
| 16.2.3        | 100mm <sup>2</sup> Bare Copper Wire  | 309              |                    | l.m.  |   |            |
| 16.2.4        | 50mm <sup>2</sup> Bare Copper Wire   | 194              |                    | l.m.  |   |            |
| 16.2.5        | Exothermic Weld Kit (100-50)   |                  |                    |       |   |            |
| 1             | A) Exothermic Mold 100/50  | 6                |                    | ea    |   |            |
| 2             | B) Powder #90  | 47               |                    | ea    |   |            |
| 16.2.6        | Exothermic Weld Kit (WIRE-ROD)   |                  |                    |       |   |            |
| 1             | A) Exothermic Mold 20/100  | 3                |                    | ea    |   |            |
| 2             | B) Powder #115   | 25               |                    | ea    |   |            |
|               | <b>Total 16.2 - GROUNDING SYSTEM</b>   |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |

| ITEM NO.    | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|-------------|---|------------------|--------------------|-------|---|------------|
| <b>16.3</b> | <b>INTERIOR DISTRIBUTION SYSTEM</b>   |                  |                    |       |   |            |
| 16.3.1      | Conduit & Fittings  |                  |                    |       |   |            |
| 1           | 100mm dia Weather Cap   | 2                |                    | ea    |   |            |
| 2           | 100mm dia IMC with coupling   | 12               |                    | l.m.  |   |            |
| 3           | 32mm dia IMC with coupling  | 3                |                    | l.m.  |   |            |
| 4           | 25mm dia IMC with coupling  | 153              |                    | l.m.  |   |            |
| 5           | 20mm dia PVC with coupling  | 3,018            |                    | l.m.  |   |            |
| 6           | 100mm dia Locknut and Bushing   | 6                |                    | pair  |   |            |
| 7           | 32mm dia Locknut and Bushing  | 4                |                    | pair  |   |            |
| 8           | 25mm dia Locknut and Bushing  | 4                |                    | pair  |   |            |
| 16.3.2      | Wires and Cables  |                  |                    |       |   |            |
| 1           | 150mm <sup>2</sup> THWN   | 56               |                    | l.m.  |   |            |
| 2           | 30mm <sup>2</sup> THWN  | 16               |                    | l.m.  |   |            |
| 3           | 14mm <sup>2</sup> THWN  | 612              |                    | l.m.  |   |            |
| 4           | 3.5mm <sup>2</sup> THWN   | 7,543            |                    | l.m.  |   |            |
| 5           | 38mm <sup>2</sup> TW  | 28               |                    | l.m.  |   |            |
| 6           | 8mm <sup>2</sup> TW   | 4                |                    | l.m.  |   |            |
| 7           | 5.5mm <sup>2</sup> TW   | 153              |                    | l.m.  |   |            |
| 16.3.3      | Boxes   |                  |                    |       |   |            |
| 1           | Utility box   | 155              |                    | ea    |   |            |
| 2           | Condulet (100mm Dia IMC)  | 2                |                    | ea    |   |            |
| 16.3.4      | Wiring Devices  |                  |                    |       |   |            |
| 1           | Duplex Receptacle, 2P, 16A, 3W, 250V, flush mounted grounding type, complete with plate cover and other incidentals | 155              |                    | set   |   |            |
| 16.3.5      | Panelboards and Protective Devices (With Solid Neutral and Ground Bus)  |                  |                    |       |   |            |
| 1           | PNL '2DP' NEMA-1 ENCLOSURE  | 1                |                    | set   |   |            |
|             | Main : 4P, 600AT 600AF 65 KAIC  |                  |                    |       |   |            |
|             | Brs: 5- 3P, 100AT 100AF   |                  |                    |       |   |            |
|             | 1 - 3P, SPACE   |                  |                    |       |   |            |
|             | 1 - 3P, 70AT 100AF  |                  |                    |       |   |            |
|             | 1 - 3P, 60AT 100AF  |                  |                    |       |   |            |
|             | 2 - 3P, 100AT 100AF   |                  |                    |       |   |            |
| 2           | PNL '2PP1' NEMA-3R ENCLOSURE  | 1                |                    | set   |   |            |
|             | Main : 3P, 70AT 100AF 18KAIC  |                  |                    |       |   |            |
|             | Brs: 2 - 1P, 50AT 100AF   |                  |                    |       |   |            |
|             | 1 - 1P, 30AT 100AF  |                  |                    |       |   |            |
|             | 4 - 1P, 20AT 100AF  |                  |                    |       |   |            |
|             | 2 - 1P, SPACE   |                  |                    |       |   |            |
| 3           | PNL '2PP2' NEMA-1 ENCLOSURE   | 1                |                    | set   |   |            |
|             | Main : Lugs Only  |                  |                    |       |   |            |
|             | Brs: 1 - 1P, 30AT 100AF   |                  |                    |       |   |            |
|             | 9 - 1P, 20AT 100AF  |                  |                    |       |   |            |
|             | 2 - 1P, SPACE   |                  |                    |       |   |            |
| 4           | PNL '2LP1' NEMA-1 ENCLOSURE   | 1                |                    | set   |   |            |
|             | Main : 3P, 60AT 100AF 18KAIC  |                  |                    |       |   |            |
|             | Brs: 12 - 1P, 20AT 100AF  |                  |                    |       |   |            |
| 5           | ECB 2P 30AT 100AF 240V 10KAIC NEMA-3R ENCLOSURE   | 37               |                    | set   |   |            |
| 16.3.6      | INTERIOR LIGHTING   |                  |                    |       |   |            |
| 16.3.6.1    | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials                          |                  |                    |       |   |            |
| 1           | 20mm dia IMC conduit with coupling  | 524              |                    | l.m.  |   |            |
| 2           | 20mm dia Locknut & Bushing  | 955              |                    | pair  |   |            |
| 3           | 20mm dia FMC  | 173              |                    | l.m.  |   |            |
| 4           | 20mm dia Straight & Angle connector   | 173              |                    | ea    |   |            |
| 16.3.6.2    | Boxes/Pull Boxes  |                  |                    |       |   |            |
| 1           | Utility Box   | 160              |                    | ea    |   |            |
| 2           | Junction Box  | 227              |                    | ea    |   |            |

| ITEM NO.    | DESCRIPTION  | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|-------------|--|---------------|-----------------|-------|---|------------|
| 16.3.6.3    | Wires and Cables drawn into conduit including splices, terminations, etc.  |               |                 |       |   |            |
| 1           | 3.5mm <sup>2</sup> THHN  | 2,012         |                 | l.m.  |   |            |
| 16.3.6.4    | Wiring Devices   |               |                 |       |   |            |
| 1           | Light Switch, flush mounted, 1pole in one gang, 15A, 250V  | 78            |                 | set   |   |            |
| 2           | Light Switch, flush mounted, 3pole in one gang, 15A, 250V  | 3             |                 | set   |   |            |
| 3           | Three Way Light Switch, flush mounted, 2pole in one gang, 15A, 250V  | 79            |                 | set   |   |            |
| 16.3.6.5    | Lighting Fixtures  |               |                 |       |   |            |
| 1           | 150W High Intensity Discharge Lamp or LED Equivalent with Aluminum, Self Cleaning Ventilating Reflector  | 54            |                 | set   |   |            |
| 2           | 1 x 36W Linear Fluorescent or LED Equivalent with Steel Housing And Aluminum Louver (Recessed)   | 90            |                 | set   |   |            |
| 3           | 1 x 36W Fluorescent or Led Equivalent, Industrial Type (Recessed)  | 2             |                 | set   |   |            |
| 4           | 1 x 18W CFL Or LED Equivalent Downlight with Aluminum Reflector (Recessed)   | 81            |                 | set   |   |            |
|             | <b>Total 16.3 - INTERIOR DISTRIBUTION SYSTEM</b>   |               |                 |       |   |            |
|             |  |               |                 |       |   |            |
| <b>16.4</b> | <b>CCTV SYSTEM</b>   |               |                 |       |   |            |
| 16.4.1      | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials   |               |                 |       |   |            |
| 1           | 20mm dia. IMC with coupling  | 1,023         |                 | l.m.  |   |            |
| 2           | 20mm dia. IMC Locknut & Bushing  | 42            |                 | pair  |   |            |
| 3           | 20mm dia. Flexible Metallic Conduit  | 28            |                 | l.m.  |   |            |
| 4           | 20mm dia. Straight and Angle connector   | 28            |                 | pair  |   |            |
| 16.4.2      | Boxes/Pull Boxes   |               |                 |       |   |            |
| 1           | Junction Box   | 14            |                 | ea    |   |            |
| 2           | Pullbox 300 x 300 x 300mm  | 1             |                 | ea    |   |            |
| 16.4.3      | Wires and Cables drawn into conduit including splices, terminations, etc.  |               |                 |       |   |            |
| 1           | RG-6 Coaxial signal cable  | 831           |                 | l.m.  |   |            |
| 16.4.4      | Wiring Devices and Equipments  |               |                 |       |   |            |
| 1           | Indoor Camera PTZ Speed Dome with 24 VAC power supply, Ceiling Mounted   | 2             |                 | set   |   |            |
| 2           | Fixed Outdoor bullet type Camera 3-9.6mm Lens with 24 VAC power supply, Wall Mounted   | 12            |                 | set   |   |            |
| 3           | Digital Video Recorder "DVR", including Pushbutton control keypad with 3-axis variable speed joystick, Equipment Rack, and other incidentals to complete as specified in Electrical Drawings and Technical Specifications. | 1             |                 | set   |   |            |
| 16.4.5      | Wires and Cables drawn into conduit including splices, terminations, etc.  |               |                 |       |   |            |
| 1           | 3.5mm <sup>2</sup> THHN  | 573           |                 | l.m.  |   |            |
|             | <b>Total 16.4 - CCTV SYSTEM</b>  |               |                 |       |   |            |
|             |  |               |                 |       |   |            |
| <b>16.5</b> | <b>STRUCTURE CABLING SYSTEM</b>  |               |                 |       |   |            |
| 16.5.1      | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials   |               |                 |       |   |            |
| 1           | 20mm dia. IMC with coupling  | 114           |                 | l.m.  |   |            |
| 2           | 20mm dia. IMC Locknut & Bushing  | 76            |                 | pair  |   |            |
| 3           | 150mm x 100mm Cable Tray   | 230           |                 | ea    |   |            |
| 16.5.2      | Boxes  |               |                 |       |   |            |
| 1           | Utility Box  | 38            |                 | ea    |   |            |
| 16.5.3      | Wires and Cables drawn into conduit including splices, terminations, etc.  |               |                 |       |   |            |
| 1           | CAT6   | 3,960         |                 | l.m.  |   |            |



| ITEM NO.    | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|-------------|---|------------------|--------------------|-------|---|------------|
| 16.5.4      | Wiring Devices and Equipments   |                  |                    |       |   |            |
| 2           | Two gang Telephone outlet   | 38               |                    | set   |   |            |
| 3           | Telephone Terminal Cabinet  | 1                |                    | lot   |   |            |
|             | <b>Total 16.5 - STRUCTURE CABLING SYSTEM</b>  |                  |                    |       |   |            |
|             |   |                  |                    |       |   |            |
| <b>16.6</b> | <b>BGM/PA SYSTEM</b>  |                  |                    |       |   |            |
| 16.6.1      | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials  |                  |                    |       |   |            |
| 1           | 20mm dia. x 3m IMC with coupling  | 288              |                    | l.m.  |   |            |
| 2           | 20mm dia. IMC Locknut & Bushing   | 72               |                    | pair  |   |            |
| 3           | 20mm dia. Flexible Metallic Conduit   | 48               |                    | l.m.  |   |            |
| 4           | 20mm dia. Straight and Angle connector  | 48               |                    | pair  |   |            |
| 16.6.2      | Boxes/Pull Boxes  |                  |                    |       |   |            |
| 1           | Junction Box  | 24               |                    | ea    |   |            |
| 16.6.3      | Wires and Cables drawn into conduit including splices, terminations, etc.   |                  |                    |       |   |            |
| 1           | 1.25mm <sup>2</sup> TF Wire   | 288              |                    | l.m.  |   |            |
| 16.6.4      | Wiring Devices and Equipments   |                  |                    |       |   |            |
| 1           | Ceiling Mounted Speaker   | 24               |                    | set   |   |            |
| 2           | Remote Microphone   | 1                |                    | set   |   |            |
| 3           | BGM/PA Equipments including distributor, pre-amplifier, amplifier 650w, tuner, emergency panel, DVD player, AVR 1000w, equipment rack and all incidentals to complete as specified in Electrical Drawings and Technical Specifications. | 1                |                    | lot   |   |            |
|             | <b>Total 16.6 - BGM/PA SYSTEM</b>   |                  |                    |       |   |            |
|             | <b>TOTAL DIV-16 - ELECTRICAL WORKS</b>  |                  |                    |       |   |            |
|             |   |                  |                    |       |   |            |



Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
**PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY**  
 PCA Annex Building, Elliptical Road, Diliman, Quezon City

**BILL OF QUANTITIES**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO. | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|----------|---|------------------|--------------------|-------|---|------------|
| 6.0      | BUILDING WORKS  |                  |                    |       |   |            |
| 6.1.2    | REPAIR/ REHABILITATION OF EXISTING MARKET (A= 400.00 SM)  |                  |                    |       |   |            |
| DIV-02   | SITE CONSTRUCTION   | 1                |                    | l.s.  |   |            |
| DIV-03   | CONCRETE WORKS  | 1                |                    | l.s.  |   |            |
| DIV-09   | FINISHES  | 1                |                    | l.s.  |   |            |
|          |   |                  |                    |       |   |            |
|          |   |                  |                    |       |   |            |
|          | Total "6.1.2" - REPAIR/ REHABILITATION OF EXISTING MARKET |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               |   |                  |                    |       |   |            |
| <b>6.0</b>    | <b>BUILDING WORKS</b>   |                  |                    |       |   |            |
| <b>6.1.2</b>  | <b>REPAIR/ REHABILITATION OF EXISTING MARKET</b>  |                  |                    |       |   |            |
| <b>DIV-02</b> | <b>SITE CONSTRUCTION</b>  |                  |                    |       |   |            |
| 2.1           | Removal/ Demolition Works (including disposal)  |                  |                    |       |   |            |
| 2.1.1         | Removal of existing pavement  | 400              |                    | sq.m. |   |            |
| 2.1.2         | Removal os existing CHB wall  | 175              |                    | sq.m. |   |            |
| 2.3           | Backfilling and filling   |                  |                    |       |   |            |
| 2.3.1         | Gravel base   | 60               |                    | cu.m. |   |            |
| 2.3.2         | Backfill ( from borrow materials)   | 144              |                    | cu.m. |   |            |
| 2.5           | Subgrade Preparation  | 400              |                    | sq.m. |   |            |
| 2.6           | Anti-termite treatment to surfaces of ground and sides and bottoms of excavations                             | 400              |                    | sq.m. |   |            |
|               | <b>Total "DIV-02" - SITE CONSTRUCTION</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-03</b> | <b>CONCRETE WORKS</b>   |                  |                    |       |   |            |
| 3.1           | Cast-In-Place Structural Concrete   |                  |                    |       |   |            |
| 3.1.1         | Reinforced concrete; 280 kg/cm2 or 4000 psi or 27.60 Mpa  |                  |                    |       |   |            |
| 1             | Slab-on-grade   | 66               |                    | cu.m. |   |            |
| 3.2           | Reinforcement in concrete   |                  |                    |       |   |            |
| 3.2.1         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 60 |                  |                    |       |   |            |
| 1             | Foundation  | 4,094            |                    | kg.   |   |            |
| 3.3           | Formwork  |                  |                    |       |   |            |
| 1             | Foundation  | 14               |                    | sq.m. |   |            |
|               | <b>Total "DIV-03"-CONCRETE WORKS</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-09</b> | <b>FINISHES</b>   |                  |                    |       |   |            |
| 9.1           | Floor Finishes  |                  |                    |       |   |            |
| 9.1.1         | Plain Cement Floor Finish   | 400              |                    | sq.m. |   |            |
|               | <b>Sub-total - Floor Finishes</b>   |                  |                    |       |   |            |
|               | <b>Total "DIV-09" - FINISHES</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |



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**BILL OF QUANTITIES**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO.   | DESCRIPTION                      | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|------------|----------------------------------|------------------|--------------------|-------|---|------------|
| <b>6.0</b> | <b>BUILDING WORKS</b>            |                  |                    |       |   |            |
| <b>6.2</b> | <b>COMMERCIAL (A= 500.00 SM)</b> |                  |                    |       |   |            |
| DIV-02     | SITE CONSTRUCTION                | 1                |                    | l.s.  |   |            |
| DIV-03     | CONCRETE WORKS                   | 1                |                    | l.s.  |   |            |
| DIV-04     | MASONRY WORKS                    | 1                |                    | l.s.  |   |            |
| DIV-05     | METAL WORKS                      | 1                |                    | l.s.  |   |            |
| DIV-06     | WOOD AND PLASTIC                 | 1                |                    | l.s.  |   |            |
| DIV-07     | THERMAL AND MOISTURE PROTECTION  | 1                |                    | l.s.  |   |            |
| DIV-08     | DOORS AND WINDOWS                | 1                |                    | l.s.  |   |            |
| DIV-09     | FINISHES                         | 1                |                    | l.s.  |   |            |
| DIV-10     | SPECIALTIES                      | 1                |                    | l.s.  |   |            |
| DIV-13     | SPECIAL CONSTRUCTION             |                  |                    |       |   |            |
| 13.1       | Fire Detection And Alarm System  | 1                |                    | l.s.  |   |            |
| 13.2       | Fire Protection Works            | 1                |                    | l.s.  |   |            |
| DIV-15     | MECHANICAL WORKS                 |                  |                    |       |   |            |
| 15.1       | PLUMBING WORKS                   | 1                |                    | l.s.  |   |            |
| DIV 16     | ELECTRICAL WORKS                 | 1                |                    | l.s.  |   |            |
|            |                                  |                  |                    |       |   |            |
|            | <b>Total "6.2" - COMMERCIAL</b>  |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               |   |                  |                    |       |   |            |
| 6.0           | <b>BUILDING WORKS</b>   |                  |                    |       |   |            |
| 6.2           | <b>COMMERCIAL</b>   |                  |                    |       |   |            |
| <b>DIV-02</b> | <b>SITE CONSTRUCTION</b>  |                  |                    |       |   |            |
| 2.1           | Building Layout   | 292              |                    | sq.m. |   |            |
| 2.2           | Structure Excavation  | 1,022            |                    | cu.m. |   |            |
| 2.3           | Backfilling and filling   |                  |                    |       |   |            |
| 2.3.1         | Backfill excavations with suitable excavated materials  | 898              |                    | cu.m. |   |            |
| 2.3.2         | Gravel base   | 94               |                    | cu.m. |   |            |
| 2.4           | Soil Disposal   |                  |                    |       |   |            |
| 2.4.1         | Remove surplus excavated material from site   | 124              |                    | cu.m. |   |            |
| 2.5           | Subgrade Preparation  | 292              |                    | sq.m. |   |            |
| 2.6           | Anti-termite treatment to surfaces of ground and sides and bottoms of excavations                             | 944              |                    | sq.m. |   |            |
|               | <b>Total "DIV-02" - SITE CONSTRUCTION</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-03</b> | <b>CONCRETE WORKS</b>   |                  |                    |       |   |            |
| 3.1           | <b>Cast-In-Place Structural Concrete</b>  |                  |                    |       |   |            |
| 3.1.1         | Reinforced concrete; 280 kg/cm2 or 4000 psi or 27.60 Mpa  |                  |                    |       |   |            |
| 1             | Foundation  | 196              |                    | cu.m. |   |            |
| 2             | Footing Tie Beam  | 76               |                    | cu.m. |   |            |
| 3             | Columns and Pedestal  | 32               |                    | cu.m. |   |            |
| 4             | Beams   | 76               |                    | cu.m. |   |            |
| 5             | Suspended Slab  | 70               |                    | cu.m. |   |            |
| 6             | Slab-on-grade   | 41               |                    | cu.m. |   |            |
| 7             | Stairs  | 6                |                    | cu.m. |   |            |
| 8             | Water Tank  | 11               |                    | cu.m. |   |            |
| 3.1.2         | Reinforced concrete; 3000 psi or 21 Mpa   |                  |                    |       |   |            |
| 1             | Non-Structural RC Walls/ Parapet/ Canopy  | 9                |                    | cu.m. |   |            |
| 3.2           | <b>Reinforcement in concrete</b>  |                  |                    |       |   |            |
| 3.2.1         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 60 |                  |                    |       |   |            |
| 1             | Foundation  | 23,735           |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 4,025            |                    | kg.   |   |            |
| 3             | Columns and Pedestal  | 11,557           |                    | kg.   |   |            |
| 4             | Beams   | 12,880           |                    | kg.   |   |            |
| 5             | Water Tank  | 652              |                    | kg.   |   |            |
| 3.2.2         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 40 |                  |                    |       |   |            |
| 1             | Foundation  | 1,066            |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 980              |                    | kg.   |   |            |
| 3             | Columns and Pedestal  | 6,555            |                    | kg.   |   |            |
| 4             | Beams   | 2,780            |                    | kg.   |   |            |
| 5             | Suspended Slab  | 6,393            |                    | kg.   |   |            |
| 6             | Slab on Grade   | 2,142            |                    | kg.   |   |            |
| 7             | Stairs  | 289              |                    | kg.   |   |            |
| 8             | Water Tank  | 843              |                    | kg.   |   |            |
| 9             | Non-Structural RC Walls/ Parapet/ Canopy  | 926              |                    | kg.   |   |            |
| 3.3           | <b>Formwork</b>   |                  |                    |       |   |            |
| 1             | Foundation  | 214              |                    | sq.m. |   |            |
| 2             | Footing Tie Beam  | 179              |                    | sq.m. |   |            |
| 3             | Columns and Pedestal  | 489              |                    | sq.m. |   |            |
| 4             | Beams   | 179              |                    | sq.m. |   |            |
| 5             | Suspended Slab  | 420              |                    | sq.m. |   |            |
| 6             | Stairs  | 39               |                    | sq.m. |   |            |
| 7             | Water Tank  | 23               |                    | sq.m. |   |            |
| 8             | Non-Structural RC Walls/ Parapet/ Canopy  | 7                |                    | sq.m. |   |            |
|               | <b>Total "DIV-03" - CONCRETE WORKS</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| <b>DIV-04</b> | <b>MASONRY WORKS</b>  |                  |                    |       |   |            |
| 4.1           | Masonry Grout   |                  |                    |       |   |            |
| 1             | Concrete Block Cores, 2500 PSI  | 44               |                    | cu.m. |   |            |
| 4.2           | Concrete stiffener columns and bond / lintel beams inclusive of formworks and steel reinforcement, Grade 275 (Grade 40)   | 24               |                    | cu.m. |   |            |
| 4.3           | CHB Steel Reinforcement, Grade 40 PNS 275 with Ga.16 G.I. Tie Wire  | 2,240            |                    | kg.   |   |            |
| 4.4           | Concrete Masonry Units  |                  |                    |       |   |            |
| 1             | CHB, 150mm thk. Load Bearing (700 psi)- exterior  | 322              |                    | sq.m. |   |            |
| 2             | CHB, 150mm thk. Load Bearing (350 psi)  | 374              |                    | sq.m. |   |            |
| 3             | CHB, 100mm thk. Load Bearing (350 psi)  | 17               |                    | sq.m. |   |            |
|               | <b>Total "DIV-04" - MASONRY WORKS</b>   |                  |                    |       |   |            |
| <b>DIV-05</b> | <b>METAL WORKS</b>  |                  |                    |       |   |            |
| 5.1           | Fabrication, delivery and erection of structural steel including bolts, plates and all other incidentals to complete  |                  |                    |       |   |            |
| 5.1.1         | Roofing   | 3,657            |                    | kg.   |   |            |
| 5.2           | Miscellaneous Metals  |                  |                    |       |   |            |
| 5.2.1         | Steel Ladder  |                  |                    |       |   |            |
| 1             | Steel Ladder ( @ GL -B/2-3 Roof Deck level)   | 1                |                    | lot   |   |            |
| 2             | Steel Ladder ( @ GL -C/2, To Rain water tank roof deck)   | 1                |                    | lot   |   |            |
|               | <b>Total "DIV-05" - METAL WORKS</b>   |                  |                    |       |   |            |
| <b>DIV-06</b> | <b>WOOD AND PLASTIC</b>   |                  |                    |       |   |            |
| 6.1           | Finish Carpentry  |                  |                    |       |   |            |
| 1             | fr. 50 x 200mm wooden handrail (on top of chb stair wall )  | 20               |                    | l.m.  |   |            |
|               | <b>Total "DIV-06" - WOOD AND PLASTIC</b>  |                  |                    |       |   |            |
| <b>DIV-07</b> | <b>THERMAL AND MOISTURE PROTECTION</b>  |                  |                    |       |   |            |
| 7.1           | Dampproofing and Waterproofing  |                  |                    |       |   |            |
| 7.1.1         | Dampproofing vapor barriers, 1 layer 6 mils thick   | 292              |                    | sq.m. |   |            |
| 7.1.2         | Waterproofing   |                  |                    |       |   |            |
| 7.1.2.1       | for Toilets   |                  |                    |       |   |            |
| 1             | Polyurethane based liquid applied waterproofing   | 40               |                    | sq.m. |   |            |
| 7.1.2.2       | for Rain Water Collection Tank  |                  |                    |       |   |            |
| 1             | Liquid applied, cementitious membrane, non-trafficable waterproofing  | 76               |                    | sq.m. |   |            |
| 2             | Epoxy tank lining   | 76               |                    | sq.m. |   |            |
| 7.2           | Insulation  |                  |                    |       |   |            |
| 1             | Roof Sprayed Polyurethane Foam Insulation system Seamless type with Flexible Acrylic Waterproofing including Surface Preparation and other consumable accessories to complete | 237              |                    | sq.m. |   |            |
| 7.3           | Skylight Roofing  |                  |                    |       |   |            |
| 1             | Solid Polycarbonate Skylight Roofing including sub-framing, sheets and all incidentals to complete  | 100              |                    | sq.m. |   |            |
|               | <b>Total "DIV-07"-THERMAL AND MOISTURE PROTECTION</b>   |                  |                    |       |   |            |
| <b>DIV-08</b> | <b>DOORS AND WINDOWS</b>  |                  |                    |       |   |            |
| <b>8.1</b>    | <b>DOORS</b>  |                  |                    |       |   |            |
| 8.1.1         | METAL DOORS   |                  |                    |       |   |            |
| 8.1.1.1       | Roll-up Door w/ Hardware & Accessories Aluminum Shutters (Supply and Install)   |                  |                    |       |   |            |
| 1             | D-4, 1600mm x 2100mm  | 25               |                    | set   |   |            |
| 8.1.2         | ALUMINUM DOORS  |                  |                    |       |   |            |
| 8.1.2.1       | Aluminum Doors with 6mm thick smoke tempered glass on aluminum frame powdercoated finish, including hardwares and all incidentals to complete                                 |                  |                    |       |   |            |
| 1             | AD-3, 1600mm x 2100mm   | 1                |                    | set   |   |            |
| 8.1.3         | WOODEN DOORS  |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|---------------|---|---------------|-----------------|-------|---|------------|
| 8.1.3.1       | Fromm 25mm thick tanguile door panel with 50 x 150mm KD door frame and 50 x 100mm Yalkal KD door jamb               |               |                 |       |   |            |
| 1             | D-2, 900mm x 2100mm   | 2             |                 | set   |   |            |
| 8.1.3.2       | Fromm 25mm thick tanguile door panel with louver; with 50 x 150mm KD door frame and 50 x 100mm Yalkal KD door jamb  |               |                 |       |   |            |
| 1             | TD-1, 800mm x 2100mm  | 4             |                 | set   |   |            |
| 2             | TD-2, 600mm x 2100mm  | 2             |                 | set   |   |            |
| 8.1.3.3       | Single leaf flush type hollow core marine plywood wood door including Yakal door jamb, painted finish               |               |                 |       |   |            |
| 1             | D-1, 1000mm x 2100mm  | 2             |                 | set   |   |            |
|               | <b>Sub-total 8.1 - Doors</b>  |               |                 |       |   |            |
| <b>8.2</b>    | <b>WINDOWS</b>  |               |                 |       |   |            |
| 8.2.1         | Glass Louver Window with 6mm thick smoked glass on Aluminum Powder coated frame including all complete accessories  |               |                 |       |   |            |
| 1             | AW-1, 650mm x 600mm ( 1 panel)  | 3             |                 | set   |   |            |
| 2             | AW-3, 1000mm x 600mm ( 1 panel)   | 6             |                 | set   |   |            |
| 8.2.2         | Glass/Aluminum Window with 6mm thick clear glass on Aluminum Powder coated frame including all complete accessories |               |                 |       |   |            |
| 1             | AW-2, 1000mm x 600mm ( 1 panel awning)  | 26            |                 | set   |   |            |
| 2             | AW-4, 1000mm x 1200mm ( 2 panels casement)  | 1             |                 | set   |   |            |
| 3             | AW-5, 2000mm x 1025mm ( 8 fixed panels)   | 3             |                 | set   |   |            |
| 8.2.3         | Glass/Aluminum Window with 6mm thick clear glass on Aluminum Powder coated frame including all complete accessories |               |                 |       |   |            |
| 1             | AW-6, 2225mm x 2400mm ( 1 fixed panel)  | 3             |                 | set   |   |            |
|               | <b>Sub-total 8.2 - Windows</b>  |               |                 |       |   |            |
| <b>8.3</b>    | <b>Hardwares</b>  |               |                 |       |   |            |
| 8.3.1         | Lockset   |               |                 |       |   |            |
| 1             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 1, UL Certified, 6-Pins, satin chrome finish                    | 14            |                 | set   |   |            |
| 3             | Entry Key To Thumbturn Cylinder in rose plate , SSS   | 2             |                 | set   |   |            |
| 8.3.2         | HINGES:   |               |                 |       |   |            |
| 1             | BA4F 4.5 x 4 x 3.4 x 4BB Full Mortise ANSI Templated Hinge High Frequency, 304 SSS                                  | 27            |                 | pair  |   |            |
| 8.3.3         | CLOSER:   |               |                 |       |   |            |
| 1             | Overhead cam action door closer in slide channel arm, silver finish   | 12            |                 | set   |   |            |
| 2             | Surface mounted door closer with standard arm, silver finish  | 2             |                 | set   |   |            |
| 8.3.4         | Accessories   |               |                 |       |   |            |
| 4             | Wall mounted door stop, 100MM long with rubber bumper, satin stainless steel finish                                 | 2             |                 | set   |   |            |
|               | <b>Sub-total 8.3 - Hardwares</b>  |               |                 |       |   |            |
|               | <b>Total "DIV-08" - DOORS AND WINDOWS</b>   |               |                 |       |   |            |
| <b>DIV-09</b> | <b>FINISHES</b>   |               |                 |       |   |            |
| 9.1           | <b>Floor Finishes</b>   |               |                 |       |   |            |
| 9.1.1         | 400 x 400mm Unglazed Ceramic Tiles, non-skid  | 33            |                 | sq.m. |   |            |
| 9.1.2         | Homogeneous Granite Floor Tiles, 600 x 600mm, polished  | 492           |                 | sq.m. |   |            |
|               | <b>Sub-total - Floor Finishes</b>   |               |                 |       |   |            |
| 9.2           | <b>Wall Finishes</b>  |               |                 |       |   |            |
| 9.2.1         | Plain Cement Wall Finish (exterior)   | 468           |                 | sq.m. |   |            |
| 9.2.2         | Plain Cement Wall Finish (interior)   | 906           |                 | sq.m. |   |            |
| 9.2.3         | Ceramic Glazed Wall Tiles, 400 x 400mm  | 171           |                 | sq.m. |   |            |
| 9.2.4         | Decorative Insulation Panel System  | 40            |                 | sq.m. |   |            |
| 9.2.5         | Fiber cement board drywall partition  | 12            |                 | sq.m. |   |            |
|               | <b>Sub-total - Wall Finishes</b>  |               |                 |       |   |            |
| 9.3           | <b>Ceiling Finishes</b>   |               |                 |       |   |            |
| 9.3.1         | 6mm thk. Fiber cement board ceiling on metal frame system   | 276           |                 | sq.m. |   |            |
| 9.3.2         | 600 x 600mm Aluminum square perforated clip-in metal ceiling panel with concealed suspension grid system            | 61            |                 | sq.m. |   |            |
| 9.3.3         | Rubbed concrete ceiling finish  | 196           |                 | sq.m. |   |            |
| 9.3.4         | 150mm x 150mm Light Cove on metal frame system including all incidentals to complete                                | 12            |                 | l.m.  |   |            |
|               | <b>Sub-total - Ceiling Finishes</b>   |               |                 |       |   |            |
| 9.4           | <b>Baseboard Finishes/ Stair Nosing</b>   |               |                 |       |   |            |
| 9.4.1         | Baseboard Finishes  |               |                 |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| 1             | 100mm thick painted strip base  | 358              |                    | l.m.  |   |            |
| 9.4.2         | Stair Nosing  |                  |                    |       |   |            |
| 1             | PVC stair nosing  | 54               |                    | l.m.  |   |            |
|               | <b>Sub-total - Baseboard Finishes</b>   |                  |                    |       |   |            |
| <b>9.5</b>    | <b>Painting Works</b>   |                  |                    |       |   |            |
| 9.5.1         | At Wall   |                  |                    |       |   |            |
| 1             | Painting of Masonry/Concrete Surfaces, interior, plain finish   | 906              |                    | sq.m. |   |            |
| 2             | Painting on Exterior Wall Surfaces, textured finish   | 428              |                    | sq.m. |   |            |
| 9.5.2         | At Ceiling  |                  |                    |       |   |            |
| 1             | Painting on fiber cement board ceiling surfaces   | 312              |                    | sq.m. |   |            |
| 2             | Painting on exposed concrete ceiling surfaces   | 196              |                    | sq.m. |   |            |
| 9.5.3         | Painting on wooden surfaces (wood doors, railings, etc.)  | 61               |                    | sq.m. |   |            |
| 9.5.4         | Painting on metal surfaces (metal doors, railings, grilles, etc.) - Epoxy Paint   | 220              |                    | sq.m. |   |            |
|               | <b>Sub-total - Painting</b>   |                  |                    |       |   |            |
|               | <b>Total "DIV-09" - FINISHES</b>  |                  |                    |       |   |            |
| <b>DIV-10</b> | <b>SPECIALTIES</b>  |                  |                    |       |   |            |
| 10.1          | Toilet Cubicle/Compartments   |                  |                    |       |   |            |
| 1             | Overhead braced floor mounted system solid compact laminate toilet partition and doors including all hardware and accessories to complete | 21               |                    | sq.m. |   |            |
| 10.2          | 6mm thick Facial mirror on 6mm thick marine plywood backing inclusive all incidentals to complete   |                  |                    |       |   |            |
| 1             | 1200 x 1000mm   | 2                |                    | set   |   |            |
| 2             | 1800 x 1000mm   | 2                |                    | set   |   |            |
| 10.3          | Countertop  |                  |                    |       |   |            |
| 1             | Granite finish countertop   | 6                |                    | sq.m. |   |            |
| 10.4          | Protective Covers   |                  |                    |       |   |            |
| 1             | Fiber Tensile Fabric Caonpy inclusive of PVC fabric, BI Steel Structure and all accessories to complete (Supply and Installation)         | 138              |                    | sq.m. |   |            |
|               | <b>Total "DIV-10" - SPECIALTIES</b>   |                  |                    |       |   |            |
| <b>DIV-13</b> | <b>SPECIAL CONSTRUCTION</b>   |                  |                    |       |   |            |
| <b>13.1</b>   | <b>Fire Detection and Alarm System</b>  |                  |                    |       |   |            |
| 13.1.1        | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials  |                  |                    |       |   |            |
| 1             | 20mm dia. IMC with coupling   | 153              |                    | l.m.  |   |            |
| 2             | 20mm dia. IMC Locknut & Bushing   | 120              |                    | pair  |   |            |
| 3             | 20mm dia. Flexible Metallic Conduit   | 80               |                    | l.m.  |   |            |
| 4             | 20mm dia. Straight and Angle connector  | 80               |                    | pair  |   |            |
| 13.1.2        | Boxes/Pull Boxes  |                  |                    |       |   |            |
| 1             | Junction Box  | 40               |                    | ea    |   |            |
| 13.1.3        | Wires and Cables drawn into conduit including splices, terminations, etc.   |                  |                    |       |   |            |
| 1             | 1.25mm <sup>2</sup> Twisted Shielded Pair   | 151              |                    | l.m.  |   |            |
| 2             | 2.0mm <sup>2</sup> TW   | 151              |                    | l.m.  |   |            |
| 13.1.4        | Wiring Devices  |                  |                    |       |   |            |
| 1             | Addressable Fire Alarm Control Panel with back-up battery   | 1                |                    | set   |   |            |
| 2             | Heat Detector (Addressable Heat Sensor Head with Base)  | 25               |                    | set   |   |            |
| 3             | Addressable Smoke Detector  | 11               |                    | set   |   |            |
| 4             | Addressable Manual Pull Station   | 2                |                    | set   |   |            |
| 5             | Horn Strobe / Fire Alarm Horn unit  | 2                |                    | set   |   |            |
| 6             | Testing and Commissioning   | 1                |                    | lot   |   |            |
|               | <b>Total 13.1 - Fire Detection and Alarm System</b>   |                  |                    |       |   |            |
| <b>13.2</b>   | <b>Fire Protection Works</b>  |                  |                    |       |   |            |
| <b>13.2.1</b> | <b>Fire Protection Equipment</b>  |                  |                    |       |   |            |
| 13.2.1.1      | Fire Extinguisher   |                  |                    |       |   |            |



| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| 1             | Multi-purpose ABC Dry Chemical Fire Extinguisher 4.5kg (FE-01)  | 1                |                    | ea    |   |            |
| 2             | Potassium Bicarbonate 4.5kg (FE-02)   | 5                |                    | ea    |   |            |
| 3             | CO2 Type self expelling 4.5kg (FE-03)   | 1                |                    | ea    |   |            |
|               | <b>Total 13.2 - Fire Protection Works</b>   |                  |                    |       |   |            |
|               | <b>TOTAL DIV-13 - SPECIAL CONSTRUCTION</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-15</b> | <b>MECHANICAL WORKS</b>   |                  |                    |       |   |            |
| <b>15.0</b>   | <b>PLUMBING WORKS</b>   |                  |                    |       |   |            |
| <b>15.1.1</b> | <b>Plumbing Fixtures</b>  |                  |                    |       |   |            |
| 1             | American Standard Acacia E; One Piece Elongated Toilet (with Proguard) 2007   | 6                |                    | ea    |   |            |
| 2             | American Standard Concept Cube; 560mm under counter wash basin D451 with standard accessories and Active extended mixer faucet 3902                                       | 6                |                    | ea    |   |            |
| 3             | American Standard New Washbrook Urinal; Top Inlet 6502  | 2                |                    | set   |   |            |
| 4             | Kitchen Sink (U.S Brand), stainless steel, double bowl with drain board complete with standard accessories and Cascade Kitchen Faucet with pull-out spray Model No. 1802. | 31               |                    | set   |   |            |
| 5             | American Standard Concept Round Robe Hook   | 8                |                    | ea    |   |            |
| 6             | American Standard Concept Round Paper Holder with cover   | 8                |                    | set   |   |            |
| 7             | 20mm dia. Hosebibb  | 1                |                    | set   |   |            |
|               | <b>Sub-total "15.1.1" - Plumbing Fixtures</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.2</b> | <b>Cold Water Lines</b>   |                  |                    |       |   |            |
| 15.1.2.1      | PPR Pipes   |                  |                    |       |   |            |
| 1             | 65 mm dia.  | 11               |                    | l.m.  |   |            |
| 2             | 50 mm dia.  | 15               |                    | l.m.  |   |            |
| 3             | 32 mm dia.  | 84               |                    | l.m.  |   |            |
| 4             | 25 mm dia.  | 3                |                    | l.m.  |   |            |
| 5             | 20 mm dia.  | 22               |                    | l.m.  |   |            |
| 6             | 15 mm dia.  | 107              |                    | l.m.  |   |            |
|               | Fittings  |                  |                    |       |   |            |
| 15.1.2.2      | Tee   |                  |                    |       |   |            |
| 1             | 20 mm dia.  | 14               |                    | ea    |   |            |
| 2             | 12 mm dia.  | 2                |                    | ea    |   |            |
| 15.1.2.3      | Tee Reducer   |                  |                    |       |   |            |
| 1             | 65 mm x 50 mm dia.  | 1                |                    | ea    |   |            |
| 2             | 50 mm x 32 mm dia.  | 1                |                    | ea    |   |            |
| 3             | 50 mm x 25 mm dia.  | 2                |                    | ea    |   |            |
| 4             | 32 mm x 25 mm dia.  | 2                |                    | ea    |   |            |
| 5             | 32 mm x 12mm dia.   | 31               |                    | ea    |   |            |
| 6             | 20mm x 12mm dia.  | 6                |                    | ea    |   |            |
| 15.1.2.4      | Reducer/ Increaser  |                  |                    |       |   |            |
| 1             | 65 mm x 50 mm dia.  | 1                |                    | ea    |   |            |
| 2             | 50 mm x 32 mm dia.  | 3                |                    | ea    |   |            |
| 3             | 25 mm x 20 mm dia.  | 4                |                    | ea    |   |            |
| 4             | 20 mm x 12 mm dia.  | 5                |                    | ea    |   |            |
| 15.1.2.5      | Elbow 90 DEG.   |                  |                    |       |   |            |
| 1             | 65 mm dia.  | 1                |                    | ea    |   |            |
| 2             | 50 mm dia.  | 1                |                    | ea    |   |            |
| 3             | 32 mm dia.  | 4                |                    | ea    |   |            |
| 4             | 20 mm dia.  | 6                |                    | ea    |   |            |

| ITEM NO.      | DESCRIPTION                                   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| 5             | 12 mm dia.                                    | 53               |                    | ea    |   |            |
| 15.1.2.6      | Gate Valve                                    |                  |                    |       |   |            |
| 1             | 25 mm dia.                                    | 4                |                    | ea    |   |            |
| 2             | 12 mm dia.                                    | 31               |                    | ea    |   |            |
| 15.1.2.7      | Air Cap Chamber                               | 46               |                    | set   |   |            |
|               | <b>Sub-total "15.1.2" - 'Cold Water Lines</b> |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.3</b> | <b>Sewer Pipes</b>                            |                  |                    |       |   |            |
| 15.1.3.1      | Cast Iron Pipe Hubless                        |                  |                    |       |   |            |
| 1             | 100 mm dia.                                   | 26               |                    | l.m.  |   |            |
| 2             | 75 mm dia.                                    | 66               |                    | l.m.  |   |            |
| 3             | 50 mm dia.                                    | 32               |                    | l.m.  |   |            |
|               | Fittings                                      |                  |                    |       |   |            |
| 15.1.3.2      | Wye   |                  |                    |       |   |            |
| 1             | 100 mm dia.                                   | 8                |                    | ea    |   |            |
| 2             | 75 mm dia.                                    | 2                |                    | ea    |   |            |
| 15.1.3.3      | Wye Reducer                                   |                  |                    |       |   |            |
| 1             | 100 mm x 75 mm dia.                           | 2                |                    | ea    |   |            |
| 2             | 100 mm x 50 mm dia.                           | 14               |                    | ea    |   |            |
| 3             | 75 mm x 50 mm dia.                            | 31               |                    | ea    |   |            |
| 15.1.3.4      | Elbow 45 DEG.                                 |                  |                    |       |   |            |
| 1             | 100 mm dia.                                   | 6                |                    | ea    |   |            |
| 2             | 50 mm dia.                                    | 10               |                    | ea    |   |            |
| 15.1.4.5      | P-trap  |                  |                    |       |   |            |
| 1             | 50 mm dia.                                    | 45               |                    | ea    |   |            |
| 2             | 75 mm dia.                                    | 3                |                    | ea    |   |            |
| 3             | 100 mm dia.                                   | 4                |                    | ea    |   |            |
| 15.1.4.6      | Floor drain (FD)                              |                  |                    |       |   |            |
| 1             | 50 mm dia.                                    | 4                |                    | ea    |   |            |
| 15.1.4.7      | Sanitary Tee                                  |                  |                    |       |   |            |
| 1             | 50 mm dia.                                    | 39               |                    | ea    |   |            |
| 15.1.4.8      | Clean out                                     |                  |                    |       |   |            |
| 1             | 100 mm dia.                                   | 4                |                    | ea    |   |            |
| 2             | 75 mm dia.                                    | 3                |                    | ea    |   |            |
| 15.1.4.9      | Septic Tank                                   |                  |                    |       |   |            |
| 1             | 6300 mm L x 2000 mm W x 1300 mm D             | 1                |                    | lot   |   |            |
|               | <b>Sub-total "15.1.3" - Sewer Pipes</b>       |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.4</b> | <b>Vent Pipes</b>                             |                  |                    |       |   |            |
| 15.1.4.1      | uPVC Pipe, Series 1000                        |                  |                    |       |   |            |
| 1             | 100 mm dia.                                   | 6                |                    | l.m.  |   |            |
| 2             | 75 mm dia.                                    | 81               |                    | l.m.  |   |            |
| 3             | 50 mm dia.                                    | 124              |                    | l.m.  |   |            |
|               | Fittings                                      |                  |                    |       |   |            |
| 15.1.4.2      | Tee   |                  |                    |       |   |            |
| 1             | 75 mm dia.                                    | 1                |                    | ea    |   |            |
| 2             | 50 mm dia.                                    | 8                |                    | ea    |   |            |
| 15.1.4.3      | Tee Reducer                                   |                  |                    |       |   |            |
| 1             | 100 mm x 75 mm dia.                           | 2                |                    | ea    |   |            |

| ITEM NO.      | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|--|------------------|--------------------|-------|---|------------|
| 2             | 75 mm x 50 mm dia.   | 34               |                    | ea    |   |            |
| 15.1.4.4      | Elbow 90 DEG.  |                  |                    |       |   |            |
| 1             | 50 mm dia.   | 36               |                    | ea    |   |            |
| 15.1.4.5      | VSTR   |                  |                    |       |   |            |
| 1             | 100 mm dia.  | 1                |                    | ea    |   |            |
|               | <b>Sub-total "15.1.4" - Vent Pipes</b>   |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>15.1.5</b> | <b>Storm Pipes</b>   |                  |                    |       |   |            |
| 15.1.5.1      | uPVC Pipe, Series 1000   |                  |                    |       |   |            |
| 1             | 150 mm dia.  | 41               |                    | l.m.  |   |            |
| 2             | 100 mm dia.  | 42               |                    | l.m.  |   |            |
|               | Fittings   |                  |                    |       |   |            |
| 15.1.5.2      | Elbow 45 DEG.  |                  |                    |       |   |            |
| 1             | 100 mm dia.  | 28               |                    | ea    |   |            |
| 15.1.5.3      | Roof Strainer  |                  |                    |       |   |            |
| 1             | 100 mm dia.  | 5                |                    | ea    |   |            |
| 15.1.5.4      | Deck Drain   |                  |                    |       |   |            |
| 1             | 100 mm dia.  | 8                |                    | ea    |   |            |
| 15.1.5.5      | Scupper Drain  |                  |                    |       |   |            |
| 1             | 100 mm dia.  | 1                |                    | ea    |   |            |
|               | Storm Drainage Pipes (Exterior Installation), including excavation, backfill, removal of surplus excavated, sandbedding, concrete breaking and restoration, and other incidentals to complete as specified in Mechanical Drawings and Technical Specifications.  |                  |                    |       |   |            |
| 15.1.5.6      | Reinforce Concrete Pipes   |                  |                    |       |   |            |
| 1             | 250 mm dia.  | 11               |                    | ea    |   |            |
| 2             | 200 mm dia.  | 22               |                    | ea    |   |            |
| 15.1.5.7      | Catch Basin  |                  |                    |       |   |            |
| 1             | 400 mm W x 400 mm L x 1000 mm H  | 14               |                    | ea    |   |            |
|               | <b>Sub-total "15.1.5" - Storm Pipes</b>  |                  |                    |       |   |            |
|               | <b>Total "15.1" - PLUMBING WORKS</b>   |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-16</b> | <b>ELECTRICAL WORKS</b>  |                  |                    |       |   |            |
| <b>16.1</b>   | <b>LIGHTNING PROTECTION SYSTEM</b>   |                  |                    |       |   |            |
| 16.1.1        | Supply and Installation of Early Streamer Emission Lightning Conductor Terminal, Non-radioactive Lightning Protection System (112M RADIUS @ Level 4) with complete PVC roughing - ins and support, Bare Copper wire conductor, Lightning Stroke Counter, 16mFabricated G.I. Mast with support, and grounding system with complete 3 pcs. of interconnected copper clad rod and concrete pit & cover. | 1                |                    | lot   |   |            |
| 16.1.2        | Concrete foundation for lightning protection pole including excavation, backfilling, disposal, and other incidentals to complete installation.   | 1                |                    | lot   |   |            |
|               | <b>Total 16.1 - LIGHTNING PROTECTION SYSTEM</b>  |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| 16.2          | <b>GROUNDING SYSTEM</b>  |                  |                    |       |   |            |
| 16.2.1        | Ground Well (320x320x190 mm)   | 4                |                    | ea    |   |            |
| 16.2.2        | Ground Rod Copper Clad Steel 20mm DIA x 3m LONG  | 15               |                    | ea    |   |            |
| 16.2.3        | 100mm <sup>2</sup> Bare Copper Wire  | 136              |                    | l.m.  |   |            |
| 16.2.4        | 50mm <sup>2</sup> Bare Copper Wire   | 45               |                    | l.m.  |   |            |
| 16.2.5        | Exothermic Weld Kit (100-50)   |                  |                    |       |   |            |
| 1             | A) Exothermic Mold 100/50  | 2                |                    | ea    |   |            |
| 2             | B) Powder #90  | 14               |                    | ea    |   |            |
| 16.2.6        | Exothermic Weld Kit (WIRE-ROD)   |                  |                    |       |   |            |
| 1             | A) Exothermic Mold 20/100  | 1                |                    | ea    |   |            |
| 2             | B) Powder #115   | 15               |                    | ea    |   |            |
|               | <b>Total 16.2 - GROUNDING SYSTEM</b>   |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |

| ITEM NO.    | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|-------------|--|------------------|--------------------|-------|---|------------|
| <b>16.3</b> | <b>INTERIOR DISTRIBUTION SYSTEM</b>  |                  |                    |       |   |            |
| 16.3.1      | Conduit & Fittings   |                  |                    |       |   |            |
| 1           | 50mm dia Weather Cap   | 1                |                    | ea    |   |            |
| 2           | 50mm dia IMC with coupling   | 9                |                    | l.m.  |   |            |
| 3           | 25mm dia IMC with coupling   | 9                |                    | l.m.  |   |            |
| 4           | 20mm dia PVC with coupling   | 612              |                    | l.m.  |   |            |
| 5           | 50mm dia Locknut and Bushing   | 5                |                    | pair  |   |            |
| 6           | 25mm dia Locknut and Bushing   | 6                |                    | pair  |   |            |
| 7           | 20mm dia Locknut and Bushing   | 238              |                    | pair  |   |            |
| 16.3.2      | Wires and Cables   |                  |                    |       |   |            |
| 1           | 50mm <sup>2</sup> THWN   | 36               |                    | l.m.  |   |            |
| 2           | 14mm <sup>2</sup> THWN   | 36               |                    | l.m.  |   |            |
| 3           | 3.5mm <sup>2</sup> THWN  | 1,225            |                    | l.m.  |   |            |
| 4           | 14mm <sup>2</sup> TW   | 9                |                    | l.m.  |   |            |
| 5           | 8mm <sup>2</sup> TW  | 9                |                    | l.m.  |   |            |
| 16.3.3      | Boxes  |                  |                    |       |   |            |
| 1           | Utility box  | 117              |                    | ea    |   |            |
| 2           | 200 x 200 x 150mm PULLBOX NEMA-1 ENCLOSURE   | 2                |                    | ea    |   |            |
| 16.3.4      | Wiring Devices   |                  |                    |       |   |            |
| 1           | Duplex Receptacle, 2P, 16A, 3W, 250V, flush mounted grounding type, complete with plate cover and other incidentals                          | 90               |                    | set   |   |            |
| 2           | Duplex Receptacle, Weatherproof, with GFCI, 2P, 16A, 3W, 250V, flush mounted grounding type, complete with plate cover and other incidentals | 23               |                    | set   |   |            |
| 3           | Special Purpose Outlet, 16A, 250V, 3W, Grounding Type  | 4                |                    | set   |   |            |
| 16.3.5      | Panelboards and Protective Devices (With Solid Neutral and Ground Bus)   |                  |                    |       |   |            |
| 1           | PNL '3MDP' NEMA-1 ENCLOSURE  | 1                |                    | set   |   |            |
|             | Main : 3P, 150AT 225AF 25 KAIC   |                  |                    |       |   |            |
|             | Brs: 4- 3P, 70AT 100AF   |                  |                    |       |   |            |
|             | 2 - 1P, 30AT 100AF   |                  |                    |       |   |            |
|             | 2 - 1P, 20AT 100AF   |                  |                    |       |   |            |
|             | 2 - 1P, SPACE  |                  |                    |       |   |            |
| 2           | PNL '3LP' NEMA-1 ENCLOSURE   | 1                |                    | set   |   |            |
|             | Main : Lugs Only   |                  |                    |       |   |            |
|             | Brs: 20 - 1P, 20AT 100AF   |                  |                    |       |   |            |
|             | 4 - 1P, SPACE  |                  |                    |       |   |            |
| 3           | PNL '3DP1' NEMA-1 ENCLOSURE  | 1                |                    | set   |   |            |
|             | Main : Lugs Only   |                  |                    |       |   |            |
|             | Brs: 16 - 1P, 30AT 100AF   |                  |                    |       |   |            |
|             | 2 - 1P, SPACE  |                  |                    |       |   |            |
| 4           | PNL '5LP' NEMA-1 ENCLOSURE   | 1                |                    | set   |   |            |
|             | Main : 3P, 60AT 100AF 18KAIC   |                  |                    |       |   |            |
|             | Brs: 12 - 1P, 20AT 100AF   |                  |                    |       |   |            |
| 5           | ECB 2P 30AT 100AF 240V 10KAIC NEMA-3R ENCLOSURE  | 25               |                    | set   |   |            |
| 16.3.6      | INTERIOR LIGHTING  |                  |                    |       |   |            |
| 16.3.6.1    | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials   |                  |                    |       |   |            |
| 1           | 20mm dia IMC conduit with coupling   | 203              |                    | l.m.  |   |            |
| 2           | 20mm dia Locknut & Bushing   | 462              |                    | pair  |   |            |
| 3           | 20mm dia FMC   | 154              |                    | l.m.  |   |            |
| 4           | 20mm dia Straight & Angle connector  | 154              |                    | ea    |   |            |
| 16.3.6.2    | Boxes/Pull Boxes   |                  |                    |       |   |            |
| 1           | Utility Box  | 53               |                    | ea    |   |            |
| 2           | Junction Box   | 154              |                    | ea    |   |            |
| 16.3.6.3    | Wires and Cables drawn into conduit including splices, terminations, etc.  |                  |                    |       |   |            |
| 1           | 3.5mm <sup>2</sup> THHN  | 1,624            |                    | l.m.  |   |            |
| 16.3.6.4    | Wiring Devices   |                  |                    |       |   |            |
| 1           | Light Switch, flush mounted, 1pole in one gang, 15A, 250V  | 44               |                    | set   |   |            |
| 2           | Light Switch, flush mounted, 2pole in one gang, 15A, 250V  | 4                |                    | set   |   |            |
| 3           | Three Way Light Switch, flush mounted, 2pole in one gang, 15A, 250V  | 5                |                    | set   |   |            |
| 16.3.6.5    | Lighting Fixtures  |                  |                    |       |   |            |

| ITEM NO.    | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|-------------|--|------------------|--------------------|-------|---|------------|
| 1           | 1 x 36W Linear Fluorescent or LED Equivalent with Steel Housing And Aluminum Louver (Recessed)   | 31               |                    | set   |   |            |
| 2           | 1 x 36w Linear Fluorescent or LED Equivalent with Steel Housing And Aluminum Louver (Surfaced)   | 2                |                    | set   |   |            |
| 3           | 1 x 18W CFL or LED Equivalent Downlight with Aluminum Reflector (Recessed)   | 93               |                    | set   |   |            |
| 4           | Exit Light   | 2                |                    | set   |   |            |
|             | <b>Total 16.3 - INTERIOR DISTRIBUTION SYSTEM</b>   |                  |                    |       |   |            |
| <b>16.4</b> | <b>CATV SYSTEM</b>   |                  |                    |       |   |            |
| 16.4.1      | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials   |                  |                    |       |   |            |
| 1           | 20mm dia. IMC with coupling  | 60               |                    | l.m.  |   |            |
| 2           | 20mm dia. IMC Locknut & Bushing  | 8                |                    | pair  |   |            |
| 16.4.2      | Boxes  |                  |                    |       |   |            |
| 1           | Utility Box  | 4                |                    | ea    |   |            |
| 16.4.3      | Wires and Cables drawn into conduit including splices, terminations, etc.  |                  |                    |       |   |            |
| 1           | RG-6 Coaxial signal cable  | 58               |                    | l.m.  |   |            |
| 16.4.4      | Wiring Devices and Equipments  |                  |                    |       |   |            |
| 1           | One gang TV terminal wall outlet   | 4                |                    | set   |   |            |
| 2           | CATV Equipments and all incidentals to complete as specified in Electrical Drawings and Technical Specifications.  | 1                |                    | lot   |   |            |
|             | <b>Total 16.4 - CATV SYSTEM</b>  |                  |                    |       |   |            |
| <b>16.5</b> | <b>CCTV SYSTEM</b>   |                  |                    |       |   |            |
| 16.5.1      | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials   |                  |                    |       |   |            |
| 1           | 20mm dia. IMC with coupling  | 138              |                    | l.m.  |   |            |
| 2           | 20mm dia. IMC Locknut & Bushing  | 24               |                    | pair  |   |            |
| 3           | 20mm dia. Flexible Metallic Conduit  | 16               |                    | l.m.  |   |            |
| 4           | 20mm dia. Straight and Angle connector   | 16               |                    | pair  |   |            |
| 16.5.2      | Boxes/Pull Boxes   |                  |                    |       |   |            |
| 1           | Junction Box   | 8                |                    | ea    |   |            |
| 16.5.3      | Wires and Cables drawn into conduit including splices, terminations, etc.  |                  |                    |       |   |            |
| 1           | RG-6 Coaxial signal cable  | 55               |                    | l.m.  |   |            |
| 16.5.4      | Wiring Devices and Equipments  |                  |                    |       |   |            |
| 1           | Indoor Camera PTZ Speed Dome with 24 VAC power supply, Ceiling Mounted   | 8                |                    | set   |   |            |
| 2           | Wireless antenna for data transmission   | 1                |                    | set   |   |            |
| 3           | Digital Video Recorder "DVR", including Pushbutton control keypad with 3-axis variable speed joystick, Equipment Rack, and other incidentals to complete as specified in Electrical Drawings and Technical Specifications. | 1                |                    | set   |   |            |
| 16.5.5      | Wires and Cables drawn into conduit including splices, terminations, etc.  |                  |                    |       |   |            |
| 1           | 3.5mm <sup>2</sup> THHN  | 153              |                    | l.m.  |   |            |
|             | <b>Total 16.5 - CCTV SYSTEM</b>  |                  |                    |       |   |            |
| <b>16.6</b> | <b>STRUCTURE CABLING SYSTEM</b>  |                  |                    |       |   |            |
| 16.6.1      | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials   |                  |                    |       |   |            |
| 1           | 20mm dia. IMC with coupling  | 18               |                    | l.m.  |   |            |
| 2           | 20mm dia. IMC Locknut & Bushing  | 12               |                    | pair  |   |            |
| 16.6.2      | Boxes  |                  |                    |       |   |            |
| 1           | Utility Box  | 6                |                    | ea    |   |            |
| 2           | Pullbox 200 x 200 x 150mm  | 1                |                    | ea    |   |            |
| 16.6.3      | Wires and Cables drawn into conduit including splices, terminations, etc.  |                  |                    |       |   |            |
| 1           | CAT6   | 36               |                    | l.m.  |   |            |
| 16.6.4      | Wiring Devices and Equipments  |                  |                    |       |   |            |
| 1           | Two gang Telephone outlet  | 2                |                    | set   |   |            |
|             | <b>Total 16.6 - STRUCTURE CABLING SYSTEM</b>   |                  |                    |       |   |            |
|             | <b>TOTAL DIV-16 - ELECTRICAL WORKS</b>   |                  |                    |       |   |            |
|             |  |                  |                    |       |   |            |



Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
**PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY**  
 PCA Annex Building, Elliptical Road, Diliman, Quezon City

**BILL OF QUANTITIES**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO.   | DESCRIPTION                        | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|------------|------------------------------------|------------------|--------------------|-------|---|------------|
| <b>6.0</b> | <b>BUILDING WORKS</b>              |                  |                    |       |   |            |
| <b>6.3</b> | <b>GAD BUILDING (A= 586.00 SM)</b> |                  |                    |       |   |            |
| DIV-02     | SITE CONSTRUCTION                  | 1                |                    | l.s.  |   |            |
| DIV-03     | CONCRETE WORKS                     | 1                |                    | l.s.  |   |            |
| DIV-04     | MASONRY WORKS                      | 1                |                    | l.s.  |   |            |
| DIV-05     | METAL WORKS                        | 1                |                    | l.s.  |   |            |
| DIV-06     | WOOD AND PLASTIC                   | 1                |                    | l.s.  |   |            |
| DIV-07     | THERMAL AND MOISTURE PROTECTION    | 1                |                    | l.s.  |   |            |
| DIV-08     | DOORS AND WINDOWS                  | 1                |                    | l.s.  |   |            |
| DIV-09     | FINISHES                           | 1                |                    | l.s.  |   |            |
| DIV-10     | SPECIALTIES                        | 1                |                    | l.s.  |   |            |
| DIV-13     | SPECIAL CONSTRUCTION               |                  |                    |       |   |            |
| 13.1       | Fire Detection And Alarm System    | 1                |                    | l.s.  |   |            |
| 13.2       | Fire Protection Works              | 1                |                    | l.s.  |   |            |
| DIV-15     | MECHANICAL WORKS                   |                  |                    |       |   |            |
| 15.1       | PLUMBING WORKS                     | 1                |                    | l.s.  |   |            |
| DIV 16     | ELECTRICAL WORKS                   | 1                |                    | l.s.  |   |            |
|            |                                    |                  |                    |       |   |            |
|            | <b>Total "6.3" - GAD BUILDING</b>  |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               |   |                  |                    |       |   |            |
| <b>6.0</b>    | <b>BUILDING WORKS</b>   |                  |                    |       |   |            |
| <b>6.3</b>    | <b>GAD BUILDING (A= 586.00 SM)</b>  |                  |                    |       |   |            |
| <b>DIV-02</b> | <b>SITE CONSTRUCTION</b>  |                  |                    |       |   |            |
| 2.1           | Building Layout   | 275              |                    | sq.m. |   |            |
| 2.2           | Structure Excavation  | 563              |                    | cu.m. |   |            |
| 2.3           | Backfilling and filling   |                  |                    |       |   |            |
| 2.3.1         | Backfill excavations with suitable excavated materials  | 427              |                    | cu.m. |   |            |
| 2.3.2         | Gravel base   | 69               |                    | cu.m. |   |            |
| 2.3.3         | Backfill ( from borrow materials)   | 330              |                    | cu.m. |   |            |
| 2.4           | Soil Disposal   |                  |                    |       |   |            |
| 2.4.1         | Remove surplus excavated material from site   | 136              |                    | cu.m. |   |            |
| 2.5           | Subgrade Preparation  | 275              |                    | sq.m. |   |            |
| 2.6           | Anti-termite treatment to surfaces of ground and sides and bottoms of excavations                                       | 691              |                    | sq.m. |   |            |
|               | <b>Total "DIV-02" - SITE CONSTRUCTION</b>   |                  |                    |       |   |            |
| <b>DIV-03</b> | <b>CONCRETE WORKS</b>   |                  |                    |       |   |            |
| <b>3.1</b>    | <b>Cast-In-Place Structural Concrete</b>  |                  |                    |       |   |            |
| 3.1.1         | Reinforced concrete; 280 kg/cm2 or 4000 psi or 27.60 Mpa  |                  |                    |       |   |            |
| 1             | Foundation  | 76               |                    | cu.m. |   |            |
| 2             | Footing Tie Beam  | 100              |                    | cu.m. |   |            |
| 3             | Columns and Pedestal  | 49               |                    | cu.m. |   |            |
| 4             | Beams   | 100              |                    | cu.m. |   |            |
| 5             | Suspended Slab  | 89               |                    | cu.m. |   |            |
| 6             | Slab-on-grade   | 38               |                    | cu.m. |   |            |
| 7             | Stairs  | 5                |                    | cu.m. |   |            |
| 3.1.2         | Reinforced concrete; 3000 psi or 21 Mpa   |                  |                    |       |   |            |
| 1             | Non-Structural RC Walls/ Parapet/ Canopy  | 14               |                    | cu.m. |   |            |
| <b>3.2</b>    | <b>Reinforcement in concrete</b>  |                  |                    |       |   |            |
| 3.2.1         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 60           |                  |                    |       |   |            |
| 1             | Foundation  | 6,743            |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 3,996            |                    | kg.   |   |            |
| 3             | Columns and Pedestal  | 8,287            |                    | kg.   |   |            |
| 4             | Beams   | 11,118           |                    | kg.   |   |            |
| 3.2.2         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 40           |                  |                    |       |   |            |
| 1             | Foundation  | 782              |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 882              |                    | kg.   |   |            |
| 3             | Columns and Pedestal  | 3,885            |                    | kg.   |   |            |
| 4             | Beams   | 8,289            |                    | kg.   |   |            |
| 5             | Suspended Slab  | 7,632            |                    | kg.   |   |            |
| 6             | Slab on Grade   | 2,009            |                    | kg.   |   |            |
| 7             | Stairs  | 671              |                    | kg.   |   |            |
| 8             | Non-Structural RC Walls/ Parapet/ Canopy  | 1,444            |                    | kg.   |   |            |
| <b>3.3</b>    | <b>Formwork</b>   |                  |                    |       |   |            |
| 1             | Foundation  | 126              |                    | sq.m. |   |            |
| 2             | Footing Tie Beam  | 210              |                    | sq.m. |   |            |
| 3             | Columns and Pedestal  | 388              |                    | sq.m. |   |            |
| 4             | Beams   | 210              |                    | sq.m. |   |            |
| 5             | Suspended Slab  | 534              |                    | sq.m. |   |            |
| 6             | Stairs  | 35               |                    | sq.m. |   |            |
| 7             | Non-Structural RC Walls/ Parapet/ Canopy  | 184              |                    | sq.m. |   |            |
|               | <b>Total "DIV-03" - CONCRETE WORKS</b>  |                  |                    |       |   |            |
| <b>DIV-04</b> | <b>MASONRY WORKS</b>  |                  |                    |       |   |            |
| 4.1           | Masonry Grout   |                  |                    |       |   |            |
| 1.0           | Concrete Block Cores, 2500 PSI  | 28               |                    | cu.m. |   |            |
| 4             | Concrete stiffener columns and bond / lintel beams inclusive of formworks and steel reinforcement, Grade 275 (Grade 40) | 24               |                    | cu.m. |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|---------------|---|---------------|-----------------|-------|---|------------|
| 4.3           | CHB Steel Reinforcement, Grade 40 PNS 275 with Ga.16 G.I. Tie Wire  | 1,530         |                 | kg.   |   |            |
| 4.4           | Concrete Masonry Units  |               |                 |       |   |            |
| 1.0           | CHB, 150mm thk. Load Bearing (700 psi)- exterior  | 213           |                 | sq.m. |   |            |
| 2             | CHB, 150mm thk. Load Bearing (350 psi)  | 219           |                 | sq.m. |   |            |
| 3             | CHB, 100mm thk. Load Bearing (350 psi)  | 361           |                 | sq.m. |   |            |
|               | <b>Total "DIV-04" - MASONRY WORKS</b>   |               |                 |       |   |            |
| <b>DIV-05</b> | <b>METAL WORKS</b>  |               |                 |       |   |            |
| 5.10          | Miscellaneous Metals  |               |                 |       |   |            |
| 5.1.1         | Handrails and Railings  |               |                 |       |   |            |
| 1.0           | PWD ramp railing; 50mm dia. G.I. Pipe Handrail railing vertical/horizontal members and 12mm dia. Pipe horizontal member including all incidentals to complete (supply and installation) | 72            |                 | l.m.  |   |            |
| 2             | Parapet Stainless steel railing; 75mm dia. Stainless steel pipe railing (anchored to top of parapet) including all incidentals to complete (supply and installation)                    | 70            |                 | l.m.  |   |            |
|               | <b>Total "DIV-05" - METAL WORKS</b>   |               |                 |       |   |            |
|               |   |               |                 |       |   |            |
| <b>DIV-06</b> | <b>WOOD AND PLASTIC</b>   |               |                 |       |   |            |
| 6.10          | Finish Carpentry  |               |                 |       |   |            |
| 6.1.1         | Wooden Railings   |               |                 |       |   |            |
| 1.0           | fr. 50 x 200mm wooden handrail (on top of chb stair wall )  | 11            |                 | l.m.  |   |            |
|               | <b>Total "DIV-06" - WOOD AND PLASTIC</b>  |               |                 |       |   |            |
|               |   |               |                 |       |   |            |
| <b>DIV-07</b> | <b>THERMAL AND MOISTURE PROTECTION</b>  |               |                 |       |   |            |
| 7.1           | Dampproofing and Waterproofing  |               |                 |       |   |            |
| 7.1.1         | Dampproofing vapor barriers, 1 layer 6 mils thick   | 275           |                 | sq.m. |   |            |
| 7.1.2         | Waterproofing   |               |                 |       |   |            |
| 7.1.2.1       | Polyurethane based liquid applied waterproofing   |               |                 |       |   |            |
| 1.0           | for Toilets   | 105           |                 | sq.m. |   |            |
| 7             | Insulation  |               |                 |       |   |            |
| 1.0           | Roof Sprayed Polyurethane Foam Insulation system Seamless type with Flexible Acrylic Waterproofing including Surface Preparation and other consumable accessories to complete           | 321           |                 | sq.m. |   |            |
|               | <b>Total "DIV-07"-THERMAL AND MOISTURE PROTECTION</b>   |               |                 |       |   |            |
|               |   |               |                 |       |   |            |
| <b>DIV-08</b> | <b>DOORS AND WINDOWS</b>  |               |                 |       |   |            |
| <b>8.1</b>    | <b>DOORS</b>  |               |                 |       |   |            |
| 8.1.1         | ALUMINUM DOORS  |               |                 |       |   |            |
| 8.1.1.1       | Aluminum Doors with 6mm thick tempered lass on aluminum frame powder coated finish, including hardwares and all incidentals to complete   |               |                 |       |   |            |
| 1             | AD-1, 1400mm x 2100mm (1 sliding panel/ 1 fixed panel)  | 2             |                 | set   |   |            |
| 8.1.1.2       | 12mm thick Tempered Frameless Door including hardwares and all incidentals to complete  |               |                 |       |   |            |
| 1             | TD-4, 900mm x 1500mm (1 swing panel Toilet Door)  | 4             |                 | set   |   |            |
| 2             | TD-5, 800mm x 1500mm (1 swing panel Toilet Door)  | 4             |                 | set   |   |            |
| 8.1.2         | WOODEN DOORS  |               |                 |       |   |            |
| 8.1.2.1       | Fromm 25mm thick tanguile door panel with 50 x 150mm KD door frame and 50 x 100mm Yalkal KD door jamb   |               |                 |       |   |            |
| 1             | D-1, 1000mm x 2100mm  | 6             |                 | set   |   |            |
| 2             | D-2, 800mm x 2100mm   | 8             |                 | set   |   |            |
| 3             | D-4, 700mm x 2100mm   | 2             |                 | set   |   |            |
| 8.1.2.2       | Double leaf flush type hollow core marine plywood wood door including Yalkal door jamb, painted finish  |               |                 |       |   |            |
| 1             | D-3, 1000mm x 2100mm  | 1             |                 | set   |   |            |
| 2             | D-5, 750mm x 2100mm   | 1             |                 | set   |   |            |
| 8.1.2.3       | Fromm 25mm thick tanguile door panel with louver; with 50 x 150mm KD door frame and 50 x 100mm Yalkal KD door jamb  |               |                 |       |   |            |
| 1             | TD-1, 900mm x 2100mm  | 1             |                 | set   |   |            |
| 2             | TD-2, 600mm x 2100mm  | 4             |                 | set   |   |            |
| 3             | TD-3, 800mm x 2100mm  | 10            |                 | set   |   |            |
|               | <b>Sub-total 8.1 - Doors</b>  |               |                 |       |   |            |



| ITEM NO.      | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|---------------|---|---------------|-----------------|-------|---|------------|
| <b>8.2</b>    | <b>WINDOWS</b>  |               |                 |       |   |            |
| 8.2.1         | Glass/Aluminum Window with 6mm thick clear glass on Aluminum Powder coated frame including all complete accessories                       |               |                 |       |   |            |
| 1             | AW-1, 1000mm x 7400mm ( 5 fixed panels)   | 2             |                 | set   |   |            |
| 2             | AW-2, 2000mm x 1200mm ( 2 fixed panels)   | 3             |                 | set   |   |            |
| 3             | AW-3, 1000mm x 900mm ( 1 fixed panel)   | 1             |                 | set   |   |            |
| 4             | AW-4, 1400mm x 1200mm ( 1 fixed panel)  | 1             |                 | set   |   |            |
| 5             | AW-5, 2100mm x 1200mm ( 2 fixed panels)   | 3             |                 | set   |   |            |
| 6             | AW-6, 4000mm x 1200mm ( 4 fixed panels)   | 3             |                 | set   |   |            |
| 7             | AW-9, 4500mm x 1500mm ( 4 fixed panels)   | 1             |                 | set   |   |            |
| 8             | AW-13, 1000mm x 1200mm ( 1 fixed panel)   | 1             |                 | set   |   |            |
| 9             | AW-14, 1500mm x 1200mm ( 1 fixed panel)   | 1             |                 | set   |   |            |
| 10            | AW-18, 2650mm x 1200mm ( 2 fixed panels, L-shape)   | 1             |                 | set   |   |            |
| 11            | AW-20, 2150mm x 2150mm ( 2 fixed panels)  | 1             |                 | set   |   |            |
| 8.2.2         | Glass Louver Window with 6mm thick clear glass on Aluminum Powder coated frame including all complete accessories                         |               |                 |       |   |            |
| 1             | AW-7, 1500mm x 600mm ( 2 panels)  | 3             |                 | set   |   |            |
| 2             | AW-8, 1000mm x 600mm ( 1 panel)   | 2             |                 | set   |   |            |
| 3             | AW-12, 1200mm x 600mm ( 1 panel)  | 2             |                 | set   |   |            |
| 4             | AW-16, 900mm x 600mm ( 1 panel)   | 2             |                 | set   |   |            |
| 5             | AW-19, 900mm x 1000mm ( 1 panel)  | 2             |                 | set   |   |            |
| 8.2.3         | Glass/Aluminum Window with 6mm thick clear glass on Aluminum Powder coated frame including all complete accessories (Fixed & Louver type) |               |                 |       |   |            |
| 1             | AW-10, 3000mm x 1200mm ( 2 louver panels/ 1 fixed panel )   | 2             |                 | set   |   |            |
| 2             | AW-11, 3600mm x 1200mm ( L-shape, 1 louver panels/ 2 fixed panel )  | 2             |                 | set   |   |            |
| 3             | AW-15, 4650mm x 1200mm ( L-shape, 2 louver panels/ 1 fixed panel )  | 1             |                 | set   |   |            |
|               | <b>Sub-total 8.2 - Windows</b>  |               |                 |       |   |            |
| <b>8.3</b>    | <b>Hardwares</b>  |               |                 |       |   |            |
| 8.3.1         | Lockset   |               |                 |       |   |            |
| 1.0           | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 1, UL Certified, 6-Pins, satin chrome finish  | 5             |                 | set   |   |            |
| 2             | Mortise Lockset 55MM B/S, cylinder in escutcheon plate, SSS   | 2             |                 | set   |   |            |
| 3             | Entry Key To Thumbturn Cylinder in rose plate , SSS   | 16            |                 | set   |   |            |
| 4             | Deadbolt, single cylinder, blank plate inside, US32D, ANSI G2, UL 6-pins, SSS   | 1             |                 | set   |   |            |
| 8.3.2         | HINGES:   |               |                 |       |   |            |
| 1.0           | BA4F 4.5 x 4 x 3.4 x 4BB Full Mortise ANSI Templated Hinge High Frequency   | 58            |                 | pair  |   |            |
| 8.3.3         | CLOSER:   |               |                 |       |   |            |
| 1.0           | Overhead cam action door closer in slide channel arm, silver finish   | 3             |                 | set   |   |            |
| 2             | Concealed cam action door closer in slide channel arm, silver finish  | 16            |                 | set   |   |            |
| 3             | Surface mounted door closer with standard arm, silver finish  | 1             |                 | set   |   |            |
| 8.3.4         | Accessories   |               |                 |       |   |            |
| 1             | Rectangular Flush Pull Handle, satin stainless steel (Size: C: 50MM; H: 15MM; L: 150MM)   | 4             |                 | set   |   |            |
| 2             | Pull Handle with rose cover plate, 19MM dia. X 250MM long x 70MM projection, satin stainless steel  | 2             |                 | set   |   |            |
| 3             | Push Plate, radius corner; size: 100MMx300x1.5MM, satin stainless steel   | 1             |                 | set   |   |            |
| 4             | Manual Flushbolt, L-shape, 6" long, SSS   | 2             |                 | set   |   |            |
| 5             | Dust proof socket-floor mounted, satin chrome finish  | 1             |                 | set   |   |            |
|               | <b>Sub-total 8.3 - Hardwares</b>  |               |                 |       |   |            |
|               | <b>Total "DIV-08" - DOORS AND WINDOWS</b>   |               |                 |       |   |            |
| <b>DIV-09</b> | <b>FINISHES</b>   |               |                 |       |   |            |
| <b>9.1</b>    | <b>Floor Finishes</b>   |               |                 |       |   |            |
| 9.1.1         | 400 x 400mm Unglazed Ceramic Tiles, non-skid  | 87            |                 | sq.m. |   |            |
| 9.1.2         | 200 x 200mm Unglazed Ceramic Tiles  | 14            |                 | sq.m. |   |            |
| 9.1.3         | Homogeneous Granite Floor Tiles, 600 x 600mm, polished  | 384           |                 | sq.m. |   |            |
| 9.1.4         | Vinyl Tiles, Light Gray/ Ivory White, 465 x 465mm   | 11            |                 | sq.m. |   |            |
| 9.1.5         | Concrete surface hardener; natural aggregate; colored (7 kgs/sm)  | 24            |                 | sq.m. |   |            |
| 9.1.6         | Plain cement concrete steel trowel finish (to receive viny, hardener flooring)  | 35            |                 | sq.m. |   |            |

| ITEM NO.      | DESCRIPTION  | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|---------------|--|---------------|-----------------|-------|---|------------|
|               | <b>Sub-total - Floor Finishes</b>  |               |                 |       |   |            |
| <b>9.2</b>    | <b>Wall Finishes</b>   |               |                 |       |   |            |
| 9.2.1         | Plain Cement Wall Finish (exterior)  | 606           |                 | sq.m. |   |            |
| 9.2.2         | Plain Cement Wall Finish (interior)  | 867           |                 | sq.m. |   |            |
| 9.2.3         | Ceramic Glazed Wall Tiles, 400 x 400mm   | 241           |                 | sq.m. |   |            |
| 9.2.4         | Decorative Insulation Panel System   | 129           |                 | sq.m. |   |            |
| 9.2.5         | Fiber cement board drywall partition   | 16            |                 | sq.m. |   |            |
|               | <b>Sub-total - Wall Finishes</b>   |               |                 |       |   |            |
| <b>9.3</b>    | <b>Ceiling Finishes</b>  |               |                 |       |   |            |
| 9.3.1         | 6mm thk. Fiber cement board ceiling on metal frame system  | 325           |                 | sq.m. |   |            |
| 9.3.2         | 300 x 300mm Aluminum clip-in metal ceiling panel (Round Mould) in suspended light steel frame system                                       | 51            |                 | sq.m. |   |            |
| 9.3.3         | 600 x 600mm Aluminum square perforated clip-in metal ceiling panel with concealed suspension grid system                                   | 92            |                 | sq.m. |   |            |
| 9.3.4         | Rubbed concrete ceiling finish   | 21            |                 | sq.m. |   |            |
| 9.3.5         | 150mm x 150mm Light Cove on metal frame system including all incidentals to complete   | 34            |                 | l.m.  |   |            |
|               | <b>Sub-total - Ceiling Finishes</b>  |               |                 |       |   |            |
| <b>9.4</b>    | <b>Baseboard Finishes/ Stair Nosing</b>  |               |                 |       |   |            |
| 9.4.1         | Baseboard Finishes   |               |                 |       |   |            |
| 1.0           | 100mm thick painted strip base   | 251           |                 | l.m.  |   |            |
| 9.4.2         | Stair Nosing   |               |                 |       |   |            |
| 1.0           | PVC stair nosing   | 1             |                 | l.m.  |   |            |
|               | <b>Sub-total - Baseboard Finishes</b>  |               |                 |       |   |            |
| <b>9.5</b>    | <b>Painting Works</b>  |               |                 |       |   |            |
| 9.5.1         | At Wall  |               |                 |       |   |            |
| 1             | Painting of Masonry/Concrete Surfaces, interior, plain finish  | 867           |                 | sq.m. |   |            |
| 2             | Painting on Exterior Wall Surfaces, textured finish  | 477           |                 | sq.m. |   |            |
| 9.5.2         | At Ceiling   |               |                 |       |   |            |
| 1             | Painting on fiber cement board ceiling surfaces  | 359           |                 | sq.m. |   |            |
| 2             | Painting on exposed concrete ceiling surfaces  | 92            |                 | sq.m. |   |            |
| 9.5.3         | Painting on wooden surfaces (wood doors, railings, etc.)   | 170           |                 | sq.m. |   |            |
|               | <b>Sub-total - Painting</b>  |               |                 |       |   |            |
|               | <b>Total "DIV-09" - FINISHES</b>   |               |                 |       |   |            |
| <b>DIV-10</b> | <b>SPECIALTIES</b>   |               |                 |       |   |            |
| 10.1          | Toilet Cubicle/Compartments  |               |                 |       |   |            |
| 1             | Overhead braced floor mounted system solid compact laminate toilet partition and doors including all hardwares and accessories to complete | 13            |                 | sq.m. |   |            |
| 10.2          | 6mm thick Facial mirror on 6mm thick marine plywood backing inclusive all incidentals to complete  |               |                 |       |   |            |
| 1             | 500 x 1000mm   | 11            |                 | set   |   |            |
| 2             | 1300 x 1000mm  | 1             |                 | set   |   |            |
| 3             | 1900 x 1000mm  | 6             |                 | set   |   |            |
| 4             | 2000 x 1000mm  | 1             |                 | set   |   |            |
| 10.3          | Countertop   |               |                 |       |   |            |
| 1             | Granite finish countertop  | 12            |                 | sq.m. |   |            |
| 10.4          | Stainless Steel Grab bar at PWD Toilet   | 1             |                 | set   |   |            |
|               | <b>Total "DIV-10" - SPECIALTIES</b>  |               |                 |       |   |            |
| <b>DIV-13</b> | <b>SPECIAL CONSTRUCTION</b>  |               |                 |       |   |            |
| <b>13.1</b>   | <b>Fire Detection and Alarm System</b>   |               |                 |       |   |            |
| 13.1.1        | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials   |               |                 |       |   |            |
| 1             | 20mm dia. IMC with coupling  | 198           |                 | l.m.  |   |            |
| 2             | 20mm dia. IMC Locknut & Bushing  | 78            |                 | pair  |   |            |
| 3             | 20mm dia. Flexible Metallic Conduit  | 52            |                 | l.m.  |   |            |
| 4             | 20mm dia. Straight and Angle connector   | 52            |                 | pair  |   |            |
| 13.1.2        | Boxes/Pull Boxes   |               |                 |       |   |            |
| 1             | Junction Box   | 29            |                 | ea    |   |            |
| 2             | Pullbox 200 x 200 x 150mm  | 3             |                 | ea    |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| 13.1.3        | Wires and Cables drawn into conduit including splices, terminations, etc.                                     |                  |                    |       |   |            |
| 1             | 1.25mm <sup>2</sup> Twisted Shielded Pair   | 154              |                    | l.m.  |   |            |
| 2             | 2.0mm <sup>2</sup> TW   | 197              |                    | l.m.  |   |            |
| 13.1.4        | Wiring Devices  |                  |                    |       |   |            |
| 1             | Addressable Fire Alarm Control Panel with back-up battery   | 1                |                    | set   |   |            |
| 2             | Heat Detector (Addressable Heat Sensor Head with Base)  | 1                |                    | set   |   |            |
| 3             | Addressable Smoke Detector  | 25               |                    | set   |   |            |
| 4             | Addressable Manual Pull Station   | 3                |                    | set   |   |            |
| 5             | Horn Strobe / Fire Alarm Horn unit  | 3                |                    | set   |   |            |
| 6             | Rectangular Annunciator 10 Zones  | 3                |                    | set   |   |            |
| 7             | Testing and Commissioning   | 1                |                    | lot   |   |            |
|               | <b>Total 13.1 - Fire Detection and Alarm System</b>   |                  |                    |       |   |            |
| <b>13.2</b>   | <b>Fire Protection Works</b>  |                  |                    |       |   |            |
| 13.2.1        | Fire Protection Equipment   |                  |                    |       |   |            |
| 13.2.1.1      | Fire Extinguisher   |                  |                    |       |   |            |
| 1             | Multi-purpose ABC Dry Chemical Fire Extinguisher 4.5kg (FE-01)  | 4                |                    | ea    |   |            |
| 2             | Potassium Bicarbonate 4.5kg (FE-02)   | 1                |                    | ea    |   |            |
| 3             | CO2 Type self expelling 4.5kg (FE-03)   | 1                |                    | ea    |   |            |
|               | <b>Total 13.2 - Fire Protection Works</b>   |                  |                    |       |   |            |
|               | <b>TOTAL DIV-13 - SPECIAL CONSTRUCTION</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-15</b> | <b>MECHANICAL WORKS</b>   |                  |                    |       |   |            |
| <b>15.1</b>   | <b>PLUMBING WORKS</b>   |                  |                    |       |   |            |
| <b>15.1.1</b> | <b>Plumbing Fixtures</b>  |                  |                    |       |   |            |
| 1             | American Standard Acacia E; One Piece Elongated Toilet (with Proguard) 2007                                   | 10               |                    | ea    |   |            |
| 2             | American Standard Active Wall Hung Basin 0451 with standard accessories and Active extended mixer faucet 3902 | 12               |                    | ea    |   |            |
| 3             | American Standard New Washbrook Urinal; Top Inlet 6502  | 1                |                    | set   |   |            |
| 4             | American Standard Image direct mount mixer shower system D20S   | 6                |                    | set   |   |            |
| 5             | Slop Sink Faucet / Hosebibb   | 1                |                    | set   |   |            |
| 6             | American Standard Concept Round Robe Hook   | 9                |                    | ea    |   |            |
| 7             | American Standard Concept Round Paper Holder with cover   | 7                |                    | set   |   |            |
|               | <b>Sub-total "15.1.1" - Plumbing Fixtures</b>   |                  |                    |       |   |            |
| <b>15.1.2</b> | <b>Cold Water Lines</b>   |                  |                    |       |   |            |
| 15.1.2.1      | PPR Pipes   |                  |                    |       |   |            |
| 1             | 32 mm dia.  | 11               |                    | l.m.  |   |            |
| 2             | 25 mm dia.  | 11               |                    | l.m.  |   |            |
| 3             | 20 mm dia.  | 26               |                    | l.m.  |   |            |
| 4             | 15 mm dia.  | 46               |                    | l.m.  |   |            |
|               | Fittings  |                  |                    |       |   |            |
| 15.1.2.2      | Tee   |                  |                    |       |   |            |
| 1             | 12 mm dia.  | 28               |                    | l.m.  |   |            |
| 15.1.2.3      | Tee Reducer   |                  |                    |       |   |            |
| 1             | 50 mm x 25 mm dia.  | 1                |                    | ea    |   |            |
| 2             | 20mm x 12mm dia.  | 15               |                    | ea    |   |            |
| 15.1.2.4      | Reducer/ Increaser  |                  |                    |       |   |            |
| 1             | 32 mm x 25 mm dia.  | 2                |                    | ea    |   |            |
| 2             | 25 mm x 20 mm dia.  | 6                |                    | ea    |   |            |
| 3             | 20 mm x 12 mm dia.  | 13               |                    | ea    |   |            |
| 15.1.2.5      | Elbow 90 DEG.   |                  |                    |       |   |            |
| 1             | 20 mm dia.  | 3                |                    | ea    |   |            |
| 2             | 12 mm dia.  | 46               |                    | ea    |   |            |

| ITEM NO.      | DESCRIPTION                                   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| 15.1.2.6      | Gate Valve                                    |                  |                    |       |   |            |
| 1             | 32 mm dia.                                    | 2                |                    | ea    |   |            |
| 2             | 25 mm dia.                                    | 6                |                    | ea    |   |            |
| 15.1.2.7      | Air Cap Chamber                               | 30               |                    | set   |   |            |
|               | <b>Sub-total "15.1.2" - 'Cold Water Lines</b> |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.3</b> | <b>Sewer Pipes</b>                            |                  |                    |       |   |            |
| 15.1.3.1      | Cast Iron Pipe Hubless                        |                  |                    |       |   |            |
| 1             | 100 mm dia.                                   | 53               |                    | l.m.  |   |            |
| 2             | 50 mm dia.                                    | 40               |                    | l.m.  |   |            |
|               | Fittings                                      |                  |                    |       |   |            |
| 15.1.3.2      | Wye   |                  |                    |       |   |            |
| 1             | 100 mm dia.                                   | 14               |                    | ea    |   |            |
| 2             | 50 mm dia.                                    | 11               |                    | l.m.  |   |            |
| 15.1.3.3      | Wye Reducer                                   |                  |                    |       |   |            |
| 1             | 100 mm x 50 mm dia.                           | 19               |                    | ea    |   |            |
| 15.1.3.4      | Elbow 45 DEG.                                 |                  |                    |       |   |            |
| 1             | 100 mm dia.                                   | 13               |                    | ea    |   |            |
| 2             | 50 mm dia.                                    | 17               |                    | ea    |   |            |
| 15.1.3.5      | P-trap  |                  |                    |       |   |            |
| 1             | 50 mm dia.                                    | 25               |                    | ea    |   |            |
| 2             | 100 mm dia.                                   | 7                |                    | ea    |   |            |
| 15.1.3.6      | Floor drain (FD)                              |                  |                    |       |   |            |
| 1             | 50 mm dia.                                    | 18               |                    | ea    |   |            |
| 15.1.3.7      | Sanitary Tee                                  |                  |                    |       |   |            |
| 1             | 50 mm dia.                                    | 13               |                    | ea    |   |            |
| 15.1.3.8      | Clean out                                     |                  |                    |       |   |            |
| 1             | 100 mm dia.                                   | 8                |                    | ea    |   |            |
| 2             | 50 mm dia.                                    | 4                |                    | ea    |   |            |
| 15.1.3.9      | Septic Tank                                   |                  |                    |       |   |            |
| 1             | 5600 mm L x 1500 mm W x 1300 mm D             | 1                |                    | lot   |   |            |
|               | <b>Sub-total "15.1.3" - Sewer Pipes</b>       |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.4</b> | <b>Vent Pipes</b>                             |                  |                    |       |   |            |
| 15.1.4.1      | uPVC Pipe, Series 1000                        |                  |                    |       |   |            |
| 1             | 75 mm dia.                                    | 4                |                    | l.m.  |   |            |
| 2             | 50 mm dia.                                    | 82               |                    | l.m.  |   |            |
|               | Fittings                                      |                  |                    |       |   |            |
| 15.1.4.2      | Tee   |                  |                    |       |   |            |
| 1             | 75 mm dia.                                    | 1                |                    | ea    |   |            |
| 2             | 50 mm dia.                                    | 25               |                    | ea    |   |            |
| 15.1.4.3      | Elbow 90 DEG.                                 |                  |                    |       |   |            |
| 1             | 50 mm dia.                                    | 36               |                    | ea    |   |            |
| 15.1.4.4      | Reducer                                       |                  |                    |       |   |            |
| 1             | 75 mm x 50 mm dia.                            | 2                |                    | ea    |   |            |
|               | <b>Sub-total "15.1.4" - Vent Pipes</b>        |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.5</b> | <b>Storm Pipes</b>                            |                  |                    |       |   |            |
| 15.1.5.1      | uPVC Pipe, Series 1000                        |                  |                    |       |   |            |
| 1             | 150 mm dia.                                   | 25               |                    | l.m.  |   |            |
| 2             | 100 mm dia.                                   | 93               |                    | l.m.  |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               | Fittings  |                  |                    |       |   |            |
| 15.1.5.2      | Elbow 45 DEG.   |                  |                    |       |   |            |
| 1             | 100 mm dia.   | 28               |                    | ea    |   |            |
| 15.1.5.3      | Deck Drain  |                  |                    |       |   |            |
| 1             | 100 mm dia.   | 13               |                    | ea    |   |            |
| 15.1.5.4      | Scupper Drain   |                  |                    |       |   |            |
| 1             | 100 mm dia.   | 1                |                    | ea    |   |            |
|               | Storm Drainage Pipes (Exterior Installation), including excavation, backfill, removal of surplus excavated, sandbedding, concrete breaking and restoration, and other incidentals to complete as specified in Mechanical Drawings and Technical Specifications. |                  |                    |       |   |            |
| 15.1.5.5      | Reinforce Concrete Pipes  |                  |                    |       |   |            |
| 1             | 250 mm dia.   | 17               |                    | ea    |   |            |
| 2             | 200 mm dia.   | 21               |                    | ea    |   |            |
| 15.1.5.6      | Catch Basin   |                  |                    |       |   |            |
| 1             | 400 mm W x 400 mm L x 1000 mm H   | 3                |                    | ea    |   |            |
|               | <b>Sub-total "15.1.5" - Storm Pipes</b>   |                  |                    |       |   |            |
|               | <b>Total "15.1" - PLUMBING WORKS</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-16</b> | <b>ELECTRICAL</b>   |                  |                    |       |   |            |
| <b>16.1</b>   | <b>GROUNDING SYSTEM</b>   |                  |                    |       |   |            |
| 16.1.1        | Ground Well (320x320x190 mm)  | 2                |                    | ea    |   |            |
| 16.1.2        | Ground Rod Copper Clad Steel 20mm DIA x 3m LONG   | 15               |                    | ea    |   |            |
| 16.1.3        | 100mm <sup>2</sup> Bare Copper Wire   | 197              |                    | l.m.  |   |            |
| 16.1.4        | 50mm <sup>2</sup> Bare Copper Wire  | 18               |                    | l.m.  |   |            |
| 16.1.5        | Exothermic Weld Kit (100-50)  |                  |                    |       |   |            |
| 1             | A) Exothermic Mold 100/50   | 3                |                    | ea    |   |            |
| 2             | B) Powder #90   | 22               |                    | ea    |   |            |
| 16.1.6        | Exothermic Weld Kit (WIRE-ROD)  |                  |                    |       |   |            |
| 1             | A) Exothermic Mold 20/100   | 1                |                    | ea    |   |            |
| 2             | B) Powder #115  | 6                |                    | ea    |   |            |
|               | <b>Total 16.1 - GROUNDING SYSTEM</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>16.2</b>   | <b>INTERIOR DISTRIBUTION SYSTEM</b>   |                  |                    |       |   |            |
| 16.2.1        | Conduit & Fittings  |                  |                    |       |   |            |
| 1             | 50mm dia Weather Cap  | 1                |                    | ea    |   |            |
| 2             | 50mm dia IMC with coupling  | 36               |                    | l.m.  |   |            |
| 3             | 32mm dia PVC with coupling  | 9                |                    | l.m.  |   |            |
| 4             | 20mm dia PVC with coupling  | 249              |                    | l.m.  |   |            |
| 5             | 50mm dia Locknut and Bushing  | 8                |                    | pair  |   |            |
| 6             | 32mm dia Locknut and Bushing  | 4                |                    | pair  |   |            |
| 7             | 20mm dia Locknut and Bushing  | 110              |                    | pair  |   |            |
| 8             | C-Clamp with Screw, Expansion Bolt, Channel Support and other accessories   | 1                |                    | lot   |   |            |
| 16.2.2        | Wires and Cables  |                  |                    |       |   |            |
| 1             | 30mm <sup>2</sup> THWN  | 48               |                    | l.m.  |   |            |
| 2             | 14mm <sup>2</sup> THWN  | 9                |                    | l.m.  |   |            |
| 3             | 5.5mm <sup>2</sup> THWN   | 206              |                    | l.m.  |   |            |
| 4             | 3.5mm <sup>2</sup> THWN   | 354              |                    | l.m.  |   |            |
| 5             | 14mm <sup>2</sup> TW  | 12               |                    | l.m.  |   |            |
| 6             | 8mm <sup>2</sup> TW   | 3                |                    | l.m.  |   |            |
| 7             | 3.5mm <sup>2</sup> TW   | 82               |                    | l.m.  |   |            |
| 16.2.3        | Boxes   |                  |                    |       |   |            |
| 1             | Utility box   | 44               |                    | ea    |   |            |

| ITEM NO.    | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|-------------|---|------------------|--------------------|-------|---|------------|
| 2           | 300 x 500 x 200 WIRE GUTTER NEMA-3R ENCLOSURE   | 1                |                    | ea    |   |            |
| 3           | 300 x 300x 200 PULLBOX  | 1                |                    | ea    |   |            |
| 4           | Condulet (50mm Dia IMC)   | 2                |                    | ea    |   |            |
| 16.2.4      | Wiring Devices  |                  |                    |       |   |            |
| 1.0         | Duplex Receptacle, 1P, 16A, 3W, 250V, flush mounted grounding type, complete with plate cover and other incidentals | 8                |                    | set   |   |            |
| 2.0         | Duplex Receptacle, 2P, 16A, 3W, 250V, flush mounted grounding type, complete with plate cover and other incidentals | 36               |                    | set   |   |            |
| 16.2.5      | Panelboards and Protective Devices (With Solid Neutral and Ground Bus)  |                  |                    |       |   |            |
| 1           | PNL '1DP' NEMA-1 ENCLOSURE  | 1                |                    | set   |   |            |
|             | Main : 4P, 100AT 100AF 18 KAIC  |                  |                    |       |   |            |
|             | Brs: 1- 3P, 70AT 100AF  |                  |                    |       |   |            |
|             | 2 - 3P, 60AT 100AF  |                  |                    |       |   |            |
|             | 1 - 3P, SPACE   |                  |                    |       |   |            |
| 2           | PNL '1LP' NEMA-1 ENCLOSURE  | 1                |                    | set   |   |            |
|             | Main : 4P, LUGS ONLY  |                  |                    |       |   |            |
|             | Brs: 17- 2P, 20AT 100AF   |                  |                    |       |   |            |
|             | 1 - 2P, SPACE   |                  |                    |       |   |            |
| 3           | PNL '1LP' NEMA-1 ENCLOSURE  | 1                |                    | set   |   |            |
|             | Main : 4P, LUGS ONLY  |                  |                    |       |   |            |
|             | Brs: 8- 2P, 30AT 100AF  |                  |                    |       |   |            |
|             | 7- 2P, 20AT 100AF   |                  |                    |       |   |            |
|             | 3 - 2P, SPACE   |                  |                    |       |   |            |
| 16.2.6      | INTERIOR LIGHTING   |                  |                    |       |   |            |
| 16.2.6.1    | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials                          |                  |                    |       |   |            |
| 1           | 20mm dia IMC conduit with coupling  | 59               |                    | l.m.  |   |            |
| 2           | 20mm dia PVC conduit with coupling  | 85               |                    | l.m.  |   |            |
| 3           | 20mm dia Locknut & Bushing  | 445              |                    | pair  |   |            |
| 4           | 20mm dia FMC  | 91               |                    | l.m.  |   |            |
| 5           | 20mm dia Straight & Angle connector   | 91               |                    | ea    |   |            |
| 16.2.6.2    | Boxes/Pull Boxes  |                  |                    |       |   |            |
| 1           | Utility Box   | 44               |                    | ea    |   |            |
| 2           | Junction Box  | 148              |                    | ea    |   |            |
| 16.2.6.3    | Wires and Cables drawn into conduit including splices, terminations, etc.   |                  |                    |       |   |            |
| 1           | 3.5mm <sup>2</sup> THHN   | 786              |                    | l.m.  |   |            |
| 16.2.6.4    | Wiring Devices  |                  |                    |       |   |            |
| 1           | Light Switch, flush mounted, 1pole in one gang, 15A, 250V   | 24               |                    | set   |   |            |
| 2           | Light Switch, flush mounted, 2pole in one gang, 15A, 250V   | 13               |                    | set   |   |            |
| 3           | Light Switch, flush mounted, 3pole in one gang, 15A, 250V   | 1                |                    | set   |   |            |
| 4           | Three Way Light Switch, flush mounted, 1pole in one gang, 15A, 250V   | 4                |                    | set   |   |            |
| 5           | Three Way Light Switch, flush mounted, 1pole in one gang, 15A, 250V   | 2                |                    | set   |   |            |
| 16.2.6.5    | Lighting Fixtures   |                  |                    |       |   |            |
| 1           | 1 x 36W Linear Fluorescent or LED Equivalent with Steel Housing and Aluminum Louver (Recessed)                      | 29               |                    | set   |   |            |
| 2           | 1 x 36w Linear Fluorescent or LED Equivalent with Steel Housing and Aluminum Louver (Surfaced)                      | 3                |                    | set   |   |            |
| 3           | 1 x 18W CFL or LED Equivalent Downlight with Aluminum Reflector (Recessed)  | 62               |                    | set   |   |            |
| 4           | 1 x 18W CFL or LED Equivalent Downlight with Aluminum Reflector (Surfaced)  | 29               |                    | set   |   |            |
| 5           | Exit Light Wall Mounted   | 8                |                    | set   |   |            |
|             | <b>Total 16.2 - INTERIOR DISTRIBUTION SYSTEM</b>  |                  |                    |       |   |            |
|             |   |                  |                    |       |   |            |
| <b>16.3</b> | <b>CATV SYSTEM</b>  |                  |                    |       |   |            |
| 16.3.1      | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials                          |                  |                    |       |   |            |
| 1           | 20mm dia. IMC with coupling   | 102              |                    | l.m.  |   |            |

| ITEM NO.    | DESCRIPTION  | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|-------------|--|---------------|-----------------|-------|---|------------|
| 2           | 20mm dia. IMC Locknut & Bushing  | 32            |                 | pair  |   |            |
| 16.3.2      | Boxes  |               |                 |       |   |            |
| 1           | Junction Box   | 8             |                 | ea    |   |            |
| 16.3.3      | Wires and Cables drawn into conduit including splices, terminations, etc.  |               |                 |       |   |            |
| 1           | RG-6 Coaxial signal cable  | 142           |                 | l.m.  |   |            |
| 16.3.4      | Wiring Devices and Equipments  |               |                 |       |   |            |
| 1           | One gang TV terminal wall outlet   | 8             |                 | set   |   |            |
| 2           | CATV Equipments and all incidentals to complete as specified in Electrical Drawings and Technical Specifications.  | 1             |                 | lot   |   |            |
|             | <b>Total 16.3 - CATV SYSTEM</b>  |               |                 |       |   |            |
|             |  |               |                 |       |   |            |
| <b>16.4</b> | <b>CCTV SYSTEM</b>   |               |                 |       |   |            |
| 16.4.1      | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials   |               |                 |       |   |            |
| 1           | 20mm dia. IMC with coupling  | 252           |                 | l.m.  |   |            |
| 2           | 20mm dia. IMC Locknut & Bushing  | 24            |                 | pair  |   |            |
| 3           | 20mm dia. Flexible Metallic Conduit  | 12            |                 | l.m.  |   |            |
| 4           | 20mm dia. Straight and Angle connector   | 12            |                 | pair  |   |            |
| 16.4.2      | Boxes/Pull Boxes   |               |                 |       |   |            |
| 1           | Junction Box   | 6             |                 | ea    |   |            |
| 2           | Pullbox 300 x 300 x 300mm  | 1             |                 | ea    |   |            |
| 16.4.3      | Wires and Cables drawn into conduit including splices, terminations, etc.  |               |                 |       |   |            |
| 1           | RG-6 Coaxial signal cable  | 84            |                 | l.m.  |   |            |
| 16.4.4      | Wiring Devices and Equipments  |               |                 |       |   |            |
| 1           | Indoor Camera PTZ Speed Dome with 24 VAC power supply, Ceiling Mounted   | 5             |                 | set   |   |            |
| 2           | Fixed Outdoor bullet type Camera 3-9.6mm Lens with 24 VAC power supply, Wall Mounted   | 1             |                 | set   |   |            |
| 3           | Wireless antenna for data transmission   | 1             |                 | set   |   |            |
| 4           | Digital Video Recorder "DVR", including Pushbutton control keypad with 3-axis variable speed joystick, Equipment Rack, and other incidentals to complete as specified in Electrical Drawings and Technical Specifications. | 1             |                 | set   |   |            |
| 16.4.5      | Wires and Cables drawn into conduit including splices, terminations, etc.  |               |                 |       |   |            |
| 1           | 3.5mm <sup>2</sup> THHN  | 336           |                 | l.m.  |   |            |
|             | <b>Total 16.4 - CCTV SYSTEM</b>  |               |                 |       |   |            |
|             |  |               |                 |       |   |            |
| <b>16.5</b> | <b>STRUCTURE CABLING SYSTEM</b>  |               |                 |       |   |            |
| 16.5.1      | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials   |               |                 |       |   |            |
| 1           | 20mm dia. IMC with coupling  | 186           |                 | l.m.  |   |            |
| 2           | 20mm dia. IMC Locknut & Bushing  | 33            |                 | pair  |   |            |
| 16.5.2      | Boxes  |               |                 |       |   |            |
| 1           | Utility Box  | 8             |                 | ea    |   |            |
| 2           | Junction Box   | 2             |                 | ea    |   |            |
| 16.5.3      | Wires and Cables drawn into conduit including splices, terminations, etc.  |               |                 |       |   |            |
| 1           | CAT6   | 184           |                 | l.m.  |   |            |
| 16.5.4      | Wiring Devices and Equipments  |               |                 |       |   |            |
| 1           | One gang Telephone outlet  | 6             |                 | set   |   |            |
| 2           | Two gang Telephone outlet  | 2             |                 | set   |   |            |
| 3           | Telephone Terminal Cabinet   | 1             |                 | lot   |   |            |
| 4           | Wireless router  | 2             |                 | set   |   |            |
|             | <b>Total 16.5 - STRUCTURE CABLING SYSTEM</b>   |               |                 |       |   |            |
|             | <b>TOTAL DIV-16 - ELECTRICAL WORKS</b>   |               |                 |       |   |            |
|             |  |               |                 |       |   |            |



Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
**PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY**  
 PCA Annex Building, Elliptical Road, Diliman, Quezon City

**BILL OF QUANTITIES**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO.     | DESCRIPTION                           | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|--------------|---------------------------------------|------------------|--------------------|-------|---|------------|
| <b>6.0</b>   | <b>BUILDING WORKS</b>                 |                  |                    |       |   |            |
| <b>6.4.1</b> | <b>COLD STORAGE (A= 972.00 SM)</b>    |                  |                    |       |   |            |
| DIV-02       | SITE CONSTRUCTION                     | 1                |                    | l.s.  |   |            |
| DIV-03       | CONCRETE WORKS                        | 1                |                    | l.s.  |   |            |
| DIV-04       | MASONRY WORKS                         | 1                |                    | l.s.  |   |            |
| DIV-05       | METAL WORKS                           | 1                |                    | l.s.  |   |            |
| DIV-07       | THERMAL AND MOISTURE PROTECTION       | 1                |                    | l.s.  |   |            |
| DIV-08       | DOORS AND WINDOWS                     | 1                |                    | l.s.  |   |            |
| DIV-09       | FINISHES                              | 1                |                    | l.s.  |   |            |
| DIV-10       | SPECIALTIES                           | 1                |                    | l.s.  |   |            |
| DIV-13       | SPECIAL CONSTRUCTION                  |                  |                    |       |   |            |
| 13.1         | Fire Detection And Alarm System       | 1                |                    | l.s.  |   |            |
| 13.2         | Fire Protection Works                 | 1                |                    | l.s.  |   |            |
| DIV-15       | MECHANICAL WORKS                      |                  |                    |       |   |            |
| 15.1         | PLUMBING WORKS                        | 1                |                    | l.s.  |   |            |
| 15.2         | VENTILATING AND AIRCONDITIONING WORKS | 1                |                    | l.s.  |   |            |
| DIV 16       | ELECTRICAL WORKS                      | 1                |                    | l.s.  |   |            |
|              |                                       |                  |                    |       |   |            |
|              | <b>Total "6.4.1" - COLD STORAGE</b>   |                  |                    |       |   |            |



| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               |   |                  |                    |       |   |            |
| <b>6.0</b>    | <b>BUILDING WORKS</b>   |                  |                    |       |   |            |
| <b>6.4.1</b>  | <b>COLD STORAGE</b>   |                  |                    |       |   |            |
| <b>DIV-02</b> | <b>SITE CONSTRUCTION</b>  |                  |                    |       |   |            |
| 2.1           | Building Layout   | 1,000            |                    | sq.m. |   |            |
| 2.2           | Structure Excavation  | 2,849            |                    | cu.m. |   |            |
| 2.3           | Backfilling and filling   |                  |                    |       |   |            |
| 2.3.1         | Backfill excavations with suitable excavated materials  | 2,322            |                    | cu.m. |   |            |
| 2.3.2         | Gravel base   | 277              |                    | cu.m. |   |            |
| 2.3.3         | Backfill ( from borrow materials)   | 1,080            |                    | cu.m. |   |            |
| 2.4           | Soil Disposal   |                  |                    |       |   |            |
| 2.4.1         | Remove surplus excavated material from site   | 527              |                    | cu.m. |   |            |
| 2.5           | Subgrade Preparation  | 1,000            |                    | sq.m. |   |            |
| 2.6           | Anti-termite treatment to surfaces of ground and sides and bottoms of excavations                                       | 1,419            |                    | sq.m. |   |            |
|               | <b>Total "DIV-02" - SITE CONSTRUCTION</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-03</b> | <b>CONCRETE WORKS</b>   |                  |                    |       |   |            |
| <b>3.1</b>    | <b>Cast-In-Place Structural Concrete</b>  |                  |                    |       |   |            |
| 3.1.1         | Reinforced concrete; 280 kg/cm2 or 4000 psi or 27.60 Mpa  |                  |                    |       |   |            |
| 1             | Foundation  | 295              |                    | cu.m. |   |            |
| 2             | Footing Tie Beam  | 42               |                    | cu.m. |   |            |
| 3             | Columns and Pedestal  | 96               |                    | cu.m. |   |            |
| 4             | Beams   | 124              |                    | cu.m. |   |            |
| 5             | Suspended Slab  | 178              |                    | cu.m. |   |            |
| 6             | Slab-on-grade   | 118              |                    | cu.m. |   |            |
| 3.1.2         | Reinforced concrete; 3000 psi or 21 Mpa   |                  |                    |       |   |            |
| 1             | Non-Structural RC Walls/ Parapet/ Canopy  | 49               |                    | cu.m. |   |            |
| <b>3.2</b>    | <b>Reinforcement in concrete</b>  |                  |                    |       |   |            |
| 3.2.1         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 60           |                  |                    |       |   |            |
| 1             | Foundation  | 36,929           |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 9,514            |                    | kg.   |   |            |
| 3             | Columns and Pedestal  | 19,583           |                    | kg.   |   |            |
| 4             | Beams   | 22,339           |                    | kg.   |   |            |
| 3.2.2         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 40           |                  |                    |       |   |            |
| 1             | Foundation  | 423              |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 2,411            |                    | kg.   |   |            |
| 3             | Columns and Pedestal  | 7,314            |                    | kg.   |   |            |
| 4             | Beams   | 4,334            |                    | kg.   |   |            |
| 5             | Suspended Slab  | 15,042           |                    | kg.   |   |            |
| 6             | Slab on Grade   | 8,529            |                    | kg.   |   |            |
| 7             | Non-Structural RC Walls/ Parapet/ Canopy  | 3,910            |                    | kg.   |   |            |
| <b>3.3</b>    | <b>Formwork</b>   |                  |                    |       |   |            |
| 1             | Foundation  | 298              |                    | sq.m. |   |            |
| 2             | Footing Tie Beam  | 294              |                    | sq.m. |   |            |
| 3             | Columns and Pedestal  | 631              |                    | sq.m. |   |            |
| 4             | Beams   | 898              |                    | sq.m. |   |            |
| 5             | Suspended Slab  | 1,182            |                    | sq.m. |   |            |
| 6             | Non-Structural RC Walls/ Parapet/ Canopy  | 823              |                    | sq.m. |   |            |
|               | <b>Total "DIV-03" - CONCRETE WORKS</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-04</b> | <b>MASONRY WORKS</b>  |                  |                    |       |   |            |
| 4.1           | Masonry Grout   |                  |                    |       |   |            |
| 1             | Concrete Block Cores, 2500 PSI  | 13               |                    | cu.m. |   |            |
| 4.2           | Concrete stiffener columns and bond / lintel beams inclusive of formworks and steel reinforcement, Grade 275 (Grade 40) | 8                |                    | cu.m. |   |            |
| 4.3           | CHB Steel Reinforcement, Grade 40 PNS 275 with Ga.16 G.I. Tie Wire  | 567              |                    | kg.   |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|---------------|---|---------------|-----------------|-------|---|------------|
| 4.4           | Concrete Masonry Units  |               |                 |       |   |            |
| 1             | CHB, 150mm thk. Load Bearing (700 psi)- exterior  | 138           |                 | sq.m. |   |            |
| 2             | CHB, 100mm thk. Load Bearing (350 psi)  | 22            |                 | sq.m. |   |            |
|               | <b>Total "DIV-04" - MASONRY WORKS</b>   |               |                 |       |   |            |
| <b>DIV-05</b> | <b>METAL WORKS</b>  |               |                 |       |   |            |
| 5.1           | Miscellaneous Metals  |               |                 |       |   |            |
| 5.1.1         | Steel Wiremesh Door including frame, jambs, hardware, painting and all incidentals to complete  |               |                 |       |   |            |
| 1             | 3650mm x 2100mm (2 Leaf-door with fixed panel)  | 1             |                 | set   |   |            |
| 2             | 4600mm x 2100mm (2 Leaf-door with fixed panel)  | 1             |                 | set   |   |            |
| 5.1.2         | Fixed Window Wiremesh   |               |                 |       |   |            |
| 1             | Steel Wiremesh Fence with 50mm dia. Tubular steel and Ga.10 wiremesh 1"x1" opening including painting and all incidentals to complete (@ Cold Storage Freezer Rooms)          | 120           |                 | sq.m. |   |            |
| 5.1.3         | Steel Ladder  |               |                 |       |   |            |
| 1             | Steel Ladder ( @ GL A/2)  | 1             |                 | lot   |   |            |
| 2             | Steel Ladder ( @ GL 2/D/G)  | 2             |                 | lot   |   |            |
| 3             | Steel Ladder ( @ GL 2/B/I1)   | 2             |                 | lot   |   |            |
| 5.2           | SS Wiremesh Partition/Compartment(@ Cold Storage Freezer Rooms)   |               |                 |       |   |            |
| 5.2.1         | Compartment complete with all necessary accessories as specified in the Mechanical Drawings and Technical Specifications.   |               |                 |       |   |            |
| 1             | Schedule 40 SS 316 Pipe 50mm dia.   | 1,012         |                 | l.m.  |   |            |
| 2             | Schedule 40 SS 316 Flat Bar (25mm x 3mm)  | 1,201         |                 | l.m.  |   |            |
| 3             | Schedule 40 SS 316 Wire Mesh  | 282           |                 | sq.m  |   |            |
| 4             | Schedule 40 SS 316 Plate (300mm x 300mm x 5mm)  | 72            |                 | ea.   |   |            |
| 5             | Expansion Shield/ 16mm Bolt   | 320           |                 | ea.   |   |            |
| 6             | Hinges  | 144           |                 | ea.   |   |            |
| 7             | Gate Padlock  | 24            |                 | ea.   |   |            |
| 8             | Fabricated Barrel Bolt Gate Padlock 20mm dia.   | 24            |                 | ea.   |   |            |
|               | <b>Total "DIV-05" - METAL WORKS</b>   |               |                 |       |   |            |
| <b>DIV-07</b> | <b>THERMAL AND MOISTURE PROTECTION</b>  |               |                 |       |   |            |
| 7.1           | <b>Dampproofing and Waterproofing</b>   |               |                 |       |   |            |
| 7.1.1         | Dampproofing vapor barriers, 1 layer 6 mils thick   | 1,000         |                 | sq.m. |   |            |
| 7.1.2         | Waterproofing   |               |                 |       |   |            |
| 7.1.2.1       | Polyurethane based liquid applied waterproofing   |               |                 |       |   |            |
| 1             | for Toilets   | 18            |                 | sq.m. |   |            |
| 7.2           | Insulation  |               |                 |       |   |            |
| 1             | Roof Sprayed Polyurethane Foam Insulation system Seamless type with Flexible Acrylic Waterproofing including Surface Preparation and other consumable accessories to complete | 1,063         |                 | sq.m. |   |            |
| 7.3           | Insulation Panel And Others ( At Freezer Rooms )  |               |                 |       |   |            |
| 7.3.1         | Polyurethane Panels And Slabs   |               |                 |       |   |            |
| 7.3.1.1       | Supply of 42 kg/m <sup>3</sup> Polyurethane Rigid Foam Insulation panels complete with support, hangers, base and all necessary accessories.                                  |               |                 |       |   |            |
| 1             | 1200mmW x 4950mmH x 150mmT  | 195           |                 | ea.   |   |            |
| 2             | 1200mmW x 4950mmH x 100mmT  | 19            |                 | ea.   |   |            |
| 7.3.1.2       | Top Panels  |               |                 |       |   |            |
| 1             | 1200mmW x 7400mmH x 150mmT  | 44            |                 | ea.   |   |            |
| 2             | 1200mmW x 5900mmH x 100mmT  | 15            |                 | ea.   |   |            |
| 3             | 1200mmW x 3300mmH x 150mmT  | 30            |                 | ea.   |   |            |
| 7.3.1.3       | Slab Insulation   |               |                 |       |   |            |
| 1             | 1200mmW x 7400mmH x 75mmT   | 88            |                 | ea.   |   |            |
| 7.3.1.4       | Insulated Doors And Strip Curtains  |               |                 |       |   |            |
| 1             | Sliding Door Heated 1500mmW x 2400mmH x 125mmT  | 8             |                 | set   |   |            |
| 2             | Swing Door 900mmW x 2100mmH x 50mmT   | 2             |                 | set   |   |            |
| 3             | Air Door with Strip Curtain 1500mmW x 2400mmH x 125mmT  | 2             |                 | set   |   |            |
| 7.3.1.5       | Strip Curtain   |               |                 |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|---------------|---|---------------|-----------------|-------|---|------------|
| 1             | 1500mmW x 2500mmH x 2mmT  | 8             |                 | set   |   |            |
| 2             | 900mmW x 2100mmH x 2mmT   | 2             |                 | set   |   |            |
| 3             | PU Floor Coating  | 544           |                 | sq.m  |   |            |
|               | <b>Total "DIV-07"-THERMAL AND MOISTURE PROTECTION</b>   |               |                 |       |   |            |
|               |   |               |                 |       |   |            |
| <b>DIV-08</b> | <b>DOORS AND WINDOWS</b>  |               |                 |       |   |            |
| <b>8.1</b>    | <b>DOORS</b>  |               |                 |       |   |            |
| <b>8.1.1</b>  | <b>WOODEN DOORS</b>   |               |                 |       |   |            |
| 8.1.1.1       | Fromm 25mm thick tanguile door panel with 50 x 150mm KD door frame and 50 x 100mm Yalkal KD door jamb               |               |                 |       |   |            |
| 1             | D-1, 900mm x 2100mm   | 3             |                 | set   |   |            |
| 2             | D-2, 800mm x 2100mm   | 2             |                 | set   |   |            |
| 8.1.1.2       | Fromm 25mm thick tanguile door panel with louver; with 50 x 150mm KD door frame and 50 x 100mm Yalkal KD door jamb  |               |                 |       |   |            |
| 1             | TD-1, 800mm x 2100mm  | 2             |                 | set   |   |            |
| 8.1.3.3       | Fully louver double leaf wooden door painted finish   | 0             |                 |       |   |            |
| 1             | TD-2, 700mm x 1600mm  | 2             |                 | set   |   |            |
|               | <b>Sub-total 8.1 - Doors</b>  |               |                 |       |   |            |
| <b>8.2</b>    | <b>WINDOWS</b>  |               |                 |       |   |            |
| 8.2.1         | Glass/Aluminum Window with 6mm thick clear glass on Aluminum Powder coated frame including all complete accessories |               |                 |       |   |            |
| 1             | AW-1, 1000mm x 600mm ( 1 fixed panel)   | 4             |                 | set   |   |            |
| 2             | AW-2, 1950mm x 600mm ( 2 fixed panels)  | 2             |                 | set   |   |            |
| 3             | AW-3, 2000mm x 1200mm ( 2 fixed panels )  | 2             |                 | set   |   |            |
|               | <b>Sub-total 8.2 - Windows</b>  |               |                 |       |   |            |
| <b>8.3</b>    | <b>Hardwares</b>  |               |                 |       |   |            |
| 8.3.1         | Lockset   |               |                 |       |   |            |
| 1             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 1, UL Certified, 6-Pins, satin chrome finish                    | 5             |                 | set   |   |            |
| 2             | Entry Key To Thumbturn Cylinder in rose plate , SSS   | 2             |                 | set   |   |            |
| 8.3.2         | HINGES:   |               |                 |       |   |            |
| 1             | BA4F 4.5 x 4 x 3.4 x 4BB Full Mortise ANSI Templated Hinge High Frequency, 304 SSS                                  | 18            |                 | pair  |   |            |
| 8.3.3         | CLOSER:   |               |                 |       |   |            |
| 1             | Overhead cam action door closer in slide channel arm, silver finish   | 5             |                 | set   |   |            |
| 2             | Concealed cam action door closer in slide channel arm, silver finish  | 2             |                 | set   |   |            |
| 8.3.4         | Accessories   |               |                 |       |   |            |
| 1             | Wall mounted door stop, 100MM long with rubber bumper, satin stainless steel finish                                 | 2             |                 | set   |   |            |
|               | <b>Sub-total 8.3 - Hardwares</b>  |               |                 |       |   |            |
|               | <b>Total "DIV-08" - DOORS AND WINDOWS</b>   |               |                 |       |   |            |
|               |   |               |                 |       |   |            |
| <b>DIV-09</b> | <b>FINISHES</b>   |               |                 |       |   |            |
| <b>9.1</b>    | <b>Floor Finishes</b>   |               |                 |       |   |            |
| 9.1.1         | 400 x 400mm Unglazed Ceramic Tiles, non-skid  | 15            |                 | sq.m. |   |            |
| 9.1.2         | Vinyl Tiles, Light Gray/ Ivory White, 465 x 465mm   | 30            |                 | sq.m. |   |            |
| 9.1.3         | Concrete surface hardener; natural aggregate; colored (7 kgs/sm)  | 871           |                 | sq.m. |   |            |
| 9.1.4         | Plain cement concrete steel trowel finish (to receive viny, hardener flooring)                                      | 901           |                 | sq.m. |   |            |
|               | <b>Sub-total - Floor Finishes</b>   |               |                 |       |   |            |
| <b>9.2</b>    | <b>Wall Finishes</b>  |               |                 |       |   |            |
| 9.2.1         | Plain Cement Wall Finish (exterior)   | 193           |                 | sq.m. |   |            |
| 9.2.2         | Plain Cement Wall Finish (interior)   | 1,596         |                 | sq.m. |   |            |
| 9.2.3         | Ceramic Glazed Wall Tiles, 400 x 400mm  | 61            |                 | sq.m. |   |            |
| 9.2.4         | Decorative Insulation Panel System  | 54            |                 | sq.m. |   |            |
|               | <b>Sub-total - Wall Finishes</b>  |               |                 |       |   |            |
| <b>9.3</b>    | <b>Ceiling Finishes</b>   |               |                 |       |   |            |
| 9.3.1         | 6mm thk. Fiber cement board ceiling on metal frame system   | 44            |                 | sq.m. |   |            |
| 9.3.2         | Rubbed concrete ceiling finish  | 310           |                 | sq.m. |   |            |

| ITEM NO.      | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|--|------------------|--------------------|-------|---|------------|
| 9.3.3         | 150mm x 150mm Light Cove on metal frame system including all incidentals to complete   | 6                |                    | l.m.  |   |            |
|               | <b>Sub-total - Ceiling Finishes</b>  |                  |                    |       |   |            |
| 9.4           | Baseboard Finishes/ Stair Nosing   |                  |                    |       |   |            |
| 9.4.1         | Baseboard Finishes   |                  |                    |       |   |            |
| 1             | 100mm thick painted strip base   | 100              |                    | l.m.  |   |            |
|               | <b>Sub-total - Baseboard Finishes</b>  |                  |                    |       |   |            |
| <b>9.5</b>    | <b>Painting Works</b>  |                  |                    |       |   |            |
| 9.5.1         | <b>At Wall</b>   |                  |                    |       |   |            |
| 1             | Painting of Masonry/Concrete Surfaces, interior, plain finish  | 1,596            |                    | sq.m. |   |            |
| 2             | Painting on Exterior Wall Surfaces, textured finish  | 139              |                    | sq.m. |   |            |
| 9.5.2         | <b>At Ceiling</b>  |                  |                    |       |   |            |
| 1             | Painting on fiber cement board ceiling surfaces  | 50               |                    | sq.m. |   |            |
| 2             | Painting on exposed concrete ceiling surfaces  | 310              |                    | sq.m. |   |            |
| 9.5.3         | Painting on wooden surfaces (wood doors, railings, etc.)   | 163              |                    | sq.m. |   |            |
| 9.5.4         | Painting on metal surfaces (metal doors, railings, grilles) - Epoxy Paint  | 50               |                    | sq.m. |   |            |
|               | <b>Sub-total - Painting</b>  |                  |                    |       |   |            |
|               | <b>Total "DIV-09" - FINISHES</b>   |                  |                    |       |   |            |
| <b>DIV-10</b> | <b>SPECIALTIES</b>   |                  |                    |       |   |            |
| 10.1          | Toilet Cubicle/Compartments  |                  |                    |       |   |            |
| 1             | Overhead braced floor mounted system solid compact laminate toilet partition and doors including all hardwares and accessories to complete   | 6                |                    | sq.m. |   |            |
| 10.2          | 6mm thick Facial mirror on 6mm thick marine plywood backing inclusive all incidentals to complete  |                  |                    |       |   |            |
| 1             | 1200 x 1000mm  | 1                |                    | set   |   |            |
| 2             | 2000 x 1000mm  | 1                |                    | set   |   |            |
| 10.3          | Countertop   |                  |                    |       |   |            |
| 1             | Granite finish countertop  | 4                |                    | sq.m. |   |            |
| 10.4          | Freezer Rooms Materials  |                  |                    |       |   |            |
| 10.4.1        | Rack System  |                  |                    |       |   |            |
| 1             | Rack, powder coated, complete with all necessary accessories.  |                  |                    |       |   |            |
| 1.1           | 1300mm x 360mm x 2850mm Basic Unit (6 level)   | 32               |                    | set   |   |            |
| 1.2           | 1200mm x 360mm x 2850mm Basic Unit (6 level)   | 264              |                    | set   |   |            |
| 10.4.2        | Table, Handwash  |                  |                    |       |   |            |
| 1             | For Sampling and Repacking rooms.<br>Stainless heavy duty customized work table with 100mm high backsplash, adjustable feet to suit unflat floor, 1.2mm thickness stainless steel table top has curved edges for safety.<br>2200mm L x 700mm W x 850mm H | 2                |                    | set   |   |            |
| 2             | Stainless hanndwash sink with 2 faucets, foot pedal water control.<br>1400mm L x 600mm Wx 350mm H.   | 1                |                    | set   |   |            |
|               | <b>Total "DIV-10" - SPECIALTIES</b>  |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-13</b> | <b>SPECIAL CONSTRUCTION</b>  |                  |                    |       |   |            |
| <b>13.2</b>   | <b>Fire Protection Works</b>   |                  |                    |       |   |            |
| <b>13.2.1</b> | <b>Fire Protection Equipment</b>   |                  |                    |       |   |            |
| 13.2.1.1      | Fire Extinguisher  |                  |                    |       |   |            |
| 1             | Multi-purpose ABC Dry Chemical Fire Extinguisher 4.5kg (FE-01)   | 5                |                    | ea    |   |            |
|               | <b>Total 13.2 - Fire Protection Works</b>  |                  |                    |       |   |            |
|               | <b>TOTAL DIV-13 - SPECIAL CONSTRUCTION</b>   |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-15</b> | <b>MECHANICAL WORKS</b>  |                  |                    |       |   |            |
| <b>15.1</b>   | <b>PLUMBING WORKS</b>  |                  |                    |       |   |            |
| <b>15.1.1</b> | <b>Plumbing Fixtures</b>   |                  |                    |       |   |            |
| 1             | American Standard Acacia E; One Piece Elongated Toilet (with Proguard) 2007  | 2                |                    | ea    |   |            |
| 2             | American Standard Concept Cube; 560mm under counter wash basin D451 with standard accessories and Active extended mixer faucet 3902  | 3                |                    | ea    |   |            |
| 3             | American Standard New Washbrook Urinal; Top Inlet 6502   | 2                |                    | set   |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|---------------|---|---------------|-----------------|-------|---|------------|
| 4             | 12mm dia. Hosebibb                                      | 2             |                 | set   |   |            |
| 5             | American Standard Concept Round Paper Holder with cover | 2             |                 | set   |   |            |
|               | <b>Sub-total "15.1.1" - Plumbing Fixtures</b>           |               |                 |       |   |            |
|               |   |               |                 |       |   |            |
| <b>15.1.2</b> | <b>Cold Water Lines</b>                                 |               |                 |       |   |            |
| 15.1.2.1      | PPR Pipes   |               |                 |       |   |            |
| 1             | 25 mm dia.  | 6             |                 | l.m.  |   |            |
| 2             | 20 mm dia.  | 7             |                 | l.m.  |   |            |
| 3             | 15 mm dia.  | 10            |                 | l.m.  |   |            |
|               | Fittings  |               |                 |       |   |            |
| 15.1.2.2      | Tee   |               |                 |       |   |            |
| 1             | 12 mm dia.  | 8             |                 | l.m.  |   |            |
| 15.1.2.3      | Tee Reducer   |               |                 |       |   |            |
| 1             | 25 mm x 20mm dia.                                       | 2             |                 | ea    |   |            |
| 2             | 20mm x 12mm dia.  | 6             |                 | ea    |   |            |
| 15.1.2.4      | Reducer/ Increaser                                      |               |                 |       |   |            |
| 1             | 20 mm x 12 mm dia.                                      | 2             |                 | ea    |   |            |
| 15.1.2.5      | Elbow 90 DEG.   |               |                 |       |   |            |
| 1             | 12 mm dia.  | 12            |                 | ea    |   |            |
| 15.1.2.6      | Gate Valve  |               |                 |       |   |            |
| 1             | 25 mm dia.  | 1             |                 | ea    |   |            |
| 15.1.2.7      | Air Cap Chamber   | 8             |                 | set   |   |            |
|               | <b>Sub-total "15.1.2" - 'Cold Water Lines</b>           |               |                 |       |   |            |
|               |   |               |                 |       |   |            |
| <b>15.1.3</b> | <b>Sewer Pipes</b>                                      |               |                 |       |   |            |
| 15.1.3.1      | Cast Iron Pipe Hubless                                  |               |                 |       |   |            |
| 1             | 100 mm dia.   | 15            |                 | l.m.  |   |            |
| 2             | 50 mm dia.  | 7             |                 | l.m.  |   |            |
|               | Fittings  |               |                 |       |   |            |
| 15.1.3.2      | Wye   |               |                 |       |   |            |
| 1             | 100 mm dia.   | 4             |                 | ea    |   |            |
| 15.1.3.3      | Wye Reducer   |               |                 |       |   |            |
| 1             | 100 mm x 50 mm dia.                                     | 8             |                 | ea    |   |            |
| 15.1.3.4      | Elbow 45 DEG.   |               |                 |       |   |            |
| 1             | 100 mm dia.   | 6             |                 | ea    |   |            |
| 2             | 50 mm dia.  | 12            |                 | ea    |   |            |
| 15.1.3.5      | P-trap  |               |                 |       |   |            |
| 1             | 50 mm dia.  | 6             |                 | ea    |   |            |
| 15.1.3.6      | Floor drain (FD)  |               |                 |       |   |            |
| 1             | 50 mm dia.  | 4             |                 | ea    |   |            |
| 15.1.3.7      | Sanitary Tee  |               |                 |       |   |            |
| 1             | 50 mm dia.  | 4             |                 | ea    |   |            |
| 15.1.3.8      | Clean out   |               |                 |       |   |            |
| 1             | 100 mm dia.   | 2             |                 | ea    |   |            |
| 15.1.3.9      | Septic Tank   |               |                 |       |   |            |
| 1             | 4100 mm L x 1000 mm W x 1200 mm D                       | 1             |                 | lot   |   |            |
|               | <b>Sub-total "15.1.3" - Sewer Pipes</b>                 |               |                 |       |   |            |
|               |   |               |                 |       |   |            |
| <b>15.1.4</b> | <b>Vent Pipes</b>                                       |               |                 |       |   |            |
| 15.1.4.1      | uPVC Pipe, Series 1000                                  |               |                 |       |   |            |
| 1             | 50 mm dia.  | 15            |                 | l.m.  |   |            |
|               | Fittings  |               |                 |       |   |            |
| 15.1.4.2      | Tee   |               |                 |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|---------------|---|---------------|-----------------|-------|---|------------|
| 1             | 50 mm dia.  | 8             |                 | ea    |   |            |
| 15.1.4.3      | Elbow 90 DEG.   |               |                 |       |   |            |
| 1             | 50 mm dia.  | 10            |                 | ea    |   |            |
| 15.1.4.4      | VSTR  |               |                 |       |   |            |
| 1             | 50 mm dia.  | 2             |                 | ea    |   |            |
|               | <b>Sub-total "15.1.4" - Vent Pipes</b>  |               |                 |       |   |            |
|               |   |               |                 |       |   |            |
| <b>15.1.5</b> | <b>Storm Pipes</b>  |               |                 |       |   |            |
| 15.1.5.1      | uPVC Pipe, Series 1000  |               |                 |       |   |            |
| 1             | 150 mm dia.   | 96            |                 | l.m.  |   |            |
| 2             | 100 mm dia.   | 142           |                 | l.m.  |   |            |
|               | Fittings  |               |                 |       |   |            |
| 15.1.5.2      | Elbow 45 DEG.   |               |                 |       |   |            |
| 1             | 100 mm dia.   | 40            |                 | ea    |   |            |
| 15.1.5.3      | Roof Strainer   |               |                 |       |   |            |
| 1             | 100 mm dia.   | 20            |                 | ea    |   |            |
|               | Storm Drainage Pipes (Exterior Installation), including excavation, backfill, removal of surplus excavated, sandbedding, concrete breaking and restoration, and other incidentals to complete as specified in Mechanical Drawings and Technical Specifications. |               |                 |       |   |            |
| 15.1.5.4      | Reinforce Concrete Pipes  |               |                 |       |   |            |
| 1             | 250 mm dia.   | 12            |                 | ea    |   |            |
| 15.1.5.5      | Catch Basin   |               |                 |       |   |            |
| 1             | 400 mm W x 400 mm L x 1000 mm H   | 10            |                 | ea    |   |            |
|               | <b>Sub-total "15.1.5" - Storm Pipes</b>   |               |                 |       |   |            |
|               | <b>Total "15.1" - PLUMBING WORKS</b>  |               |                 |       |   |            |
|               |   |               |                 |       |   |            |
| <b>15.2</b>   | <b>VENTILATING AND AIRCONDITIONING WORKS</b>  |               |                 |       |   |            |
| 15.2.1        | AIRCONDITIONING SYSTEM  |               |                 |       |   |            |
| 15.2.1.1      | Air-Conditioning Equipment  |               |                 |       |   |            |
| 15.2.1.1.1    | Supply & installation of Split Type Air-Conditioning Unit, Fan Coil Unit and Air-Cooled Condenser complete with control wirings, conduits, fittings, supports, base and all necessary accessories.  |               |                 |       |   |            |
| 1             | Split Type Air-conditioning Unit, Wall Mounted Type (Inverter); Cooling capacity : 1.0 TR ; System Power Input : 0.95 KW ; Power Supply : 220V/1PH/60HZ. (ACCU/FCU -1)  | 4             |                 | set   |   |            |
|               | <b>Total - Air-Conditioning Equipment</b>   |               |                 |       |   |            |
| 15.2.1.1.2    | Refrigerant Line System   |               |                 |       |   |            |
| 15.2.1.1.2.1  | Refrigerant Copper Pipe type L, hard drawn including refrigerant pipe connections and other miscellaneous to complete.  |               |                 |       |   |            |
| 1             | 9.52mm (3/8") dia. Copper Pipe type L, hard drawn   | 8             |                 | l.m.  |   |            |
| 2             | 6.35mm (1/4") dia. Copper Pipe type L, hard drawn   | 8             |                 | l.m.  |   |            |
| 15.2.1.1.2.2  | Refrigerant Copper Pipe Fittings including refrigerant fittings connections and other miscellaneous to complete as specified in Mechanical Drawings and Technical Specifications. (Multi-split unit)  |               |                 |       |   |            |
| 1             | 9.52mm (3/8") dia. Copper Elbow 90°   | 8             |                 | ea.   |   |            |
| 2             | 6.35mm (1/4") dia. Copper Elbow 90°   | 8             |                 | ea.   |   |            |
| 3             | 6.35mm (1/4") dia. Strainer Drier   | 4             |                 | ea.   |   |            |

| ITEM NO.        | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|-----------------|---|---------------|-----------------|-------|---|------------|
| 15.2.1.1.2.3    | Refrigerant Copper Pipe Hangers / Support including clamp, bolts & nuts, unistrut channel , angle bar, u-bolts and other miscellaneous to complete. | 1             |                 | lot   |   |            |
|                 | <b>Total - Refrigerant Line System</b>  |               |                 |       |   |            |
| 15.2.1.1.3      | Condensate Drain Line System  |               |                 |       |   |            |
| 15.2.1.1.3.1    | "PVC" Condensate Drain Pipe   |               |                 |       |   |            |
| 1               | 16mm dia. PVC drain pipe  | 16            |                 | l.m.  |   |            |
| 15.2.1.1.3.2    | ELBOW   |               |                 |       |   |            |
| 1               | 90° Bend 16mm dia.  | 12            |                 | ea.   |   |            |
| 15.2.1.1.3.3    | Condensate Drain Pipe Hangers / Support including clamp, bolts & nuts, unistrut channel , angle bar, u-bolts and other miscellaneous to complete.   | 1             |                 | lot   |   |            |
|                 | <b>Total - Condensate Drain Line System</b>   |               |                 |       |   |            |
| 15.2.1.1.4      | Mechanical Insulation   |               |                 |       |   |            |
| 15.2.1.1.4.1    | Refrigerant Copper Pipe Insulation with complete adhesive, polyethelene tape and other miscellaneous to complete.                                   |               |                 |       |   |            |
| 1               | 9.53mm dia. 'x 1" thk Flexible elastomeric rubber insulation  | 8             |                 | l.m.  |   |            |
| 2               | 6.35mm dia. 'x 1" thk Flexible elastomeric rubber insulation  | 8             |                 | l.m.  |   |            |
| 15.2.1.1.4.2    | Condensate Drain Pipe Insulation with complete adhesive, polyethelene tape and other miscellaneous to complete.                                     |               |                 |       |   |            |
| 1               | 15mm dia. 'x 1/2" thk Flexible elastomeric rubber insulation  | 16            |                 | l.m.  |   |            |
| 2               | Charging of nitrogen gas, leak testing and gas evacuation   | 16            |                 | l.m.  |   |            |
|                 | <b>Total - Mechanical Insulation</b>  |               |                 |       |   |            |
|                 |   |               |                 |       |   |            |
| 15.2.1.1.5      | Testing and Commissioning   | 1             |                 | lot   |   |            |
|                 | <b>Total 15.2.1 - AIR-CONDITIONING SYSTEM</b>   |               |                 |       |   |            |
|                 |   |               |                 |       |   |            |
| <b>15.2.1</b>   | <b>MECHANICAL VENTILATION SYSTEM</b>  |               |                 |       |   |            |
| <b>15.2.1.1</b> | <b>Ventilation Equipment</b>  |               |                 |       |   |            |
|                 | Exhaust air fan, complete with support, hangers and all necessary accessories and connections.  |               |                 |       |   |            |
|                 | (TEF-1)-Ceiling Cassette Type, 310 CMH.   | 2             |                 | set   |   |            |
|                 | (EF-1)-Ceiling Cassette Type, 260 CMH.  | 2             |                 | set   |   |            |
|                 | <b>Total 3.1 - Ventilation Equipment</b>  |               |                 |       |   |            |
| <b>15.2.1.2</b> | <b>Ventilation Duct Works</b>   |               |                 |       |   |            |
|                 | Round Duct ; uPVC Pipe Series 600 including flexible duct connector , support hangers and other miscellaneous materials.                            |               |                 |       |   |            |
|                 | PVC Ducting   |               |                 |       |   |            |
|                 | 200Ø  | 5             |                 | l.m.  |   |            |
|                 | 150Ø  | 8             |                 | l.m.  |   |            |
|                 | Stainless Vent Cap  |               |                 |       |   |            |
|                 | 200mmØ  | 2             |                 | ea.   |   |            |
|                 | 90 deg. Elbow   |               |                 |       |   |            |
|                 | 150mmØ  | 2             |                 | ea.   |   |            |
|                 | 45 deg. Elbow   |               |                 |       |   |            |
|                 | 150mmØ  | 2             |                 | ea.   |   |            |
|                 | Wye   |               |                 |       |   |            |
|                 | 45° Wye Reducer 200 x 150mm   | 4             |                 | ea.   |   |            |
|                 | REDUCER   |               |                 |       |   |            |
|                 | Reducer 200 x 150mm dia.  | 2             |                 | ea.   |   |            |
|                 | <b>Total 15.2.2 - Ventilation Duct Works</b>  |               |                 |       |   |            |
|                 |   |               |                 |       |   |            |
| <b>15.2.1.3</b> | <b>Testing and Commissioning</b>  | 1             |                 | lot   |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               |   |                  |                    |       |   |            |
|               | <b>Total 15.2.2 - MECHANICAL VENTILATION SYSTEM</b>   |                  |                    |       |   |            |
|               | <b>Total "15.2" - HVAC SYSTEM</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-16</b> | <b>ELECTRICAL</b>   |                  |                    |       |   |            |
| <b>16.1</b>   | <b>GROUNDING SYSTEM</b>   |                  |                    |       |   |            |
| 16.1.1        | Ground Well (320x320x190 mm)  | 2                |                    | ea    |   |            |
| 16.1.2        | Ground Rod Copper Clad Steel 20mm DIA x 3m LONG   | 11               |                    | ea    |   |            |
| 16.1.3        | 100mm <sup>2</sup> Bare Copper Wire   | 160              |                    | l.m.  |   |            |
| 16.1.4        | 50mm <sup>2</sup> Bare Copper Wire  | 36               |                    | l.m.  |   |            |
| 16.1.5        | Exothermic Weld Kit (100-50)  |                  |                    |       |   |            |
| 1             | A) Exothermic Mold 100/50   | 2                |                    | ea    |   |            |
| 2             | B) Powder #90   | 23               |                    | ea    |   |            |
| 16.1.6        | Exothermic Weld Kit (WIRE-ROD)  |                  |                    |       |   |            |
| 1             | A) Exothermic Mold 20/100   | 1                |                    | ea    |   |            |
| 2             | B) Powder #115  | 11               |                    | ea    |   |            |
|               | <b>Total 16.1 - GROUNDING SYSTEM</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>16.2</b>   | <b>INTERIOR DISTRIBUTION SYSTEM</b>   |                  |                    |       |   |            |
| 16.2.1        | Conduit & Fittings  |                  |                    |       |   |            |
| 1             | 100mm dia Weather Cap   | 1                |                    | ea    |   |            |
| 2             | 100mm dia IMC with coupling   | 12               |                    | l.m.  |   |            |
| 3             | 80mm dia IMC with coupling  | 72               |                    | l.m.  |   |            |
| 4             | 40mm dia IMC with coupling  | 120              |                    | l.m.  |   |            |
| 5             | 25mm dia IMC with coupling  | 6                |                    | l.m.  |   |            |
| 6             | 20mm dia PVC with coupling  | 225              |                    | l.m.  |   |            |
| 7             | 100mm dia Locknut and Bushing   | 4                |                    | pair  |   |            |
| 8             | 80mm dia Locknut and Bushing  | 4                |                    | pair  |   |            |
| 9             | 40mm dia Locknut and Bushing  | 16               |                    | pair  |   |            |
| 10            | 25mm dia Locknut and Bushing  | 2                |                    | pair  |   |            |
| 11            | 20mm dia Locknut and Bushing  | 48               |                    | pair  |   |            |
| 12            | C-Clamp with Screw, Expansion Bolt, Channel Support and other accessories   | 1                |                    | lot   |   |            |
| 16.2.2        | Wires and Cables  |                  |                    |       |   |            |
| 1             | 250mm <sup>2</sup> THWN   | 40               |                    | l.m.  |   |            |
| 2             | 125mm <sup>2</sup> THWN   | 280              |                    | l.m.  |   |            |
| 3             | 30mm <sup>2</sup> THWN  | 480              |                    | l.m.  |   |            |
| 4             | 14mm <sup>2</sup> THWN  | 24               |                    | l.m.  |   |            |
| 5             | 3.5mm <sup>2</sup> THWN   | 390              |                    | l.m.  |   |            |
| 6             | 30mm <sup>2</sup> TW  | 10               |                    | l.m.  |   |            |
| 7             | 22mm <sup>2</sup> TW  | 70               |                    | l.m.  |   |            |
| 8             | 14mm <sup>2</sup> TW  | 120              |                    | l.m.  |   |            |
| 9             | 8mm <sup>2</sup> TW   | 6                |                    | l.m.  |   |            |
| 10            | 3.5mm <sup>2</sup> TW   | 190              |                    | l.m.  |   |            |
| 16.2.3        | Boxes   |                  |                    |       |   |            |
| 1             | Utility box   | 17               |                    | ea    |   |            |
| 2             | 600x150x800mm PullBOX NEMA-1 ENCLOSURE  | 1                |                    | ea    |   |            |
| 3             | Condulet (100mm Dia IMC)  | 2                |                    | ea    |   |            |
| 16.2.4        | Wiring Devices  |                  |                    |       |   |            |
| 1             | Duplex Receptacle, 2P, 16A, 3W, 250V, flush mounted grounding type, complete with plate cover and other incidentals | 17               |                    | set   |   |            |



| ITEM NO.    | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|-------------|--|------------------|--------------------|-------|---|------------|
| 16.2.5      | Panelboards and Protective Devices (With Solid Neutral and Ground Bus)                     |                  |                    |       |   |            |
| 1           | PNL 'MDP' NEMA-1 ENCLOSURE   | 1                |                    | set   |   |            |
|             | Main : 4P, 400AT 400AF 42 KAIC   |                  |                    |       |   |            |
|             | Brs: 2- 3P, 250AT 250AF  |                  |                    |       |   |            |
|             | 3 - 3P, 60AT 100AF   |                  |                    |       |   |            |
|             | 1 - 3P, SPACE  |                  |                    |       |   |            |
| 2           | GUTTER 'BG1' with 4 x 200A BUS, with Ground Bus  | 1                |                    | set   |   |            |
|             | Main : 3P, 250AT 250AF 42KAIC  |                  |                    |       |   |            |
|             | Brs: 4 - 3P, 125AT 225AF   |                  |                    |       |   |            |
|             | 1 - 3P, 30AT 100AF   |                  |                    |       |   |            |
|             | 3 - 1P, 20AT 100AF   |                  |                    |       |   |            |
| 3           | GUTTER 'BG2' with 4 x 200A BUS, with Ground Bus  | 1                |                    | set   |   |            |
|             | Main : 3P, 250AT 250AF 42KAIC  |                  |                    |       |   |            |
|             | Brs: 4 - 3P, 125AT 225AF   |                  |                    |       |   |            |
|             | 1 - 3P, 30AT 100AF   |                  |                    |       |   |            |
|             | 2 - 1P, 20AT 100AF   |                  |                    |       |   |            |
|             | 1 - 1P, SPACE  |                  |                    |       |   |            |
| 4           | PNL 'SLP' NEMA-1 ENCLOSURE   | 1                |                    | set   |   |            |
|             | Main : 3P, 60AT 100AF 18KAIC   |                  |                    |       |   |            |
|             | Brs: 12 - 1P, 20AT 100AF   |                  |                    |       |   |            |
| 16.2.6      | INTERIOR LIGHTING  |                  |                    |       |   |            |
| 16.2.6.1    | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials |                  |                    |       |   |            |
| 1           | 20mm dia IMC conduit with coupling   | 190              |                    | l.m.  |   |            |
| 2           | 20mm dia PVC conduit with coupling   | 12               |                    | l.m.  |   |            |
| 3           | 20mm dia Locknut & Bushing   | 405              |                    | pair  |   |            |
| 4           | 20mm dia FMC   | 10               |                    | l.m.  |   |            |
| 5           | 20mm dia Straight & Angle connector  | 10               |                    | ea    |   |            |
| 16.2.6.2    | Boxes/Pull Boxes   |                  |                    |       |   |            |
| 1           | Utility Box  | 26               |                    | ea    |   |            |
| 2           | Junction Box   | 162              |                    | ea    |   |            |
| 16.2.6.3    | Wires and Cables drawn into conduit including splices, terminations, etc.                  |                  |                    |       |   |            |
| 1           | 3.5mm <sup>2</sup> THHN  | 1,412            |                    | l.m.  |   |            |
| 16.2.6.4    | Wiring Devices   |                  |                    |       |   |            |
| 1           | Light Switch, flush mounted, 1pole in one gang, 15A, 250V                                  | 7                |                    | set   |   |            |
| 2           | Light Switch, flush mounted, 2pole in one gang, 15A, 250V                                  | 17               |                    | set   |   |            |
| 3           | Three Way Light Switch, flush mounted, 1pole in one gang, 15A, 250V                        | 2                |                    | set   |   |            |
| 16.2.6.5    | Lighting Fixtures  |                  |                    |       |   |            |
| 1           | 1 x 36W Linear Fluorescent or LED Equivalent in Water and Dust Tight Housing               | 91               |                    | set   |   |            |
| 2           | 1 x 36W Linear Fluorescent or LED Equivalent With Steel Housing and Aluminum Louver        | 40               |                    | set   |   |            |
| 3           | 1 x 18W CFL or LED Equivalent Downlight with Aluminum Reflector                            | 4                |                    | set   |   |            |
| 4           | 1 x 18W CFR or LED Equivalent Downlight in Aluminum Housing                                | 27               |                    | set   |   |            |
| 5           | Exit Light Wall Mounted  | 3                |                    | set   |   |            |
|             | <b>Total 16.2 - INTERIOR DISTRIBUTION SYSTEM</b>   |                  |                    |       |   |            |
|             |  |                  |                    |       |   |            |
| <b>16.3</b> | <b>CCTV SYSTEM</b>   |                  |                    |       |   |            |
| 16.3.1      | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials |                  |                    |       |   |            |
| 1           | 20mm dia. IMC with coupling  | 282              |                    | l.m.  |   |            |

| ITEM NO. | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|----------|--|------------------|--------------------|-------|---|------------|
| 2        | 20mm dia. IMC Locknut & Bushing  | 24               |                    | pair  |   |            |
| 3        | 20mm dia. Flexible Metallic Conduit  | 12               |                    | l.m.  |   |            |
| 4        | 20mm dia. Straight and Angle connector   | 12               |                    | pair  |   |            |
| 16.3.2   | Boxes/Pull Boxes   |                  |                    |       |   |            |
| 1        | Junction Box   | 6                |                    | ea    |   |            |
| 2        | Pullbox 300 x 300 x 300mm  | 1                |                    | ea    |   |            |
| 16.3.3   | Wires and Cables drawn into conduit including splices, terminations, etc.  |                  |                    |       |   |            |
| 1        | RG-6 Coaxial signal cable  | 158              |                    | l.m.  |   |            |
| 16.3.4   | Wiring Devices and Equipments  |                  |                    |       |   |            |
| 1        | Indoor Camera PTZ Speed Dome with 24 VAC power supply, Ceiling Mounted   | 6                |                    | set   |   |            |
| 2        | Wireless antenna for data transmission   | 1                |                    | set   |   |            |
| 3        | Digital Video Recorder "DVR", including Pushbutton control keypad with 3-axis variable speed joystick, Equipment Rack, and other incidentals to complete as specified in Electrical Drawings and Technical Specifications. | 1                |                    | set   |   |            |
| 16.3.5   | Wires and Cables drawn into conduit including splices, terminations, etc.  |                  |                    |       |   |            |
| 1        | 3.5mm <sup>2</sup> THHN  | 132              |                    | l.m.  |   |            |
|          | <b>Total 16.3 - CCTV SYSTEM</b>  |                  |                    |       |   |            |
|          | <b>TOTAL DIV-16 - ELECTRICAL WORKS</b>   |                  |                    |       |   |            |
|          |  |                  |                    |       |   |            |



Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
**PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY**  
 PCA Annex Building, Elliptical Road, Diliman, Quezon City

**BILL OF QUANTITIES**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO. | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|----------|--|------------------|--------------------|-------|---|------------|
| 6.0      | <b>BUILDING WORKS</b>  |                  |                    |       |   |            |
| 6.4.2    | <b>REPAIR/ REHABILITATION OF REFRIGERATION BUILDING (A= 2,733.00 SM)</b> |                  |                    |       |   |            |
| DIV-05   | METAL WORKS  | 1                |                    | l.s.  |   |            |
| DIV-07   | THERMAL AND MOISTURE PROTECTION  | 1                |                    | l.s.  |   |            |
| DIV-09   | FINISHES   | 1                |                    | l.s.  |   |            |
|          |  |                  |                    |       |   |            |
|          |  |                  |                    |       |   |            |
|          | <b>Total "6.4.2" - REPAIR/ REHABILITATION OF REFRIGERATION BUILDING</b>  |                  |                    |       |   |            |

| ITEM NO. | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|----------|--|------------------|--------------------|-------|---|------------|
|          |  |                  |                    |       |   |            |
| 6.0      | <b>BUILDING WORKS</b>  |                  |                    |       |   |            |
| 0.0      | <b>REPAIR/ REHABILITATION OF REFRIGERATION BUILDING</b>  |                  |                    |       |   |            |
| DIV-05   | <b>METAL WORKS</b>   |                  |                    |       |   |            |
| 5.1      | Fabrication, delivery and erection of structural steel including bolts, plates and all other incidentals to complete |                  |                    |       |   |            |
| 5.1.1    | Roofing  | 174,868          |                    | kg.   |   |            |
|          | <b>Total "DIV-05" - METAL WORKS</b>  |                  |                    |       |   |            |
|          |  |                  |                    |       |   |            |
| DIV-07   | <b>THERMAL AND MOISTURE PROTECTION</b>   |                  |                    |       |   |            |
| 7.1      | Roofing including sidings and roof vent  |                  |                    |       |   |            |
| 1        | PVC Roofing Sheets, Inclusive of all bended materials and all incidental to complete (including dismantling)         | 11,811           |                    | sq.m. |   |            |
|          | <b>Total "DIV-07"-THERMAL AND MOISTURE PROTECTION</b>  |                  |                    |       |   |            |
|          |  |                  |                    |       |   |            |
| DIV-09   | <b>FINISHES</b>  |                  |                    |       |   |            |
| 9.1      | <b>Floor Finishes</b>  |                  |                    |       |   |            |
| 9.1.1    | PU (Polyurethane) floor coating  | 540              |                    | sq.m. |   |            |
|          | <b>Sub-total - Floor Finishes</b>  |                  |                    |       |   |            |
| 9.2      | <b>Painting Works</b>  |                  |                    |       |   |            |
| 9.2.1    | Painting on metal surfaces (roofing structural members) - Epoxy Paint  | 6,121            |                    | sq.m. |   |            |
|          | <b>Sub-total - Painting</b>  |                  |                    |       |   |            |
|          | <b>Total "DIV-09" - FINISHES</b>   |                  |                    |       |   |            |
|          |  |                  |                    |       |   |            |



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**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO.   | DESCRIPTION                          | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|------------|--------------------------------------|------------------|--------------------|-------|---|------------|
| <b>6.0</b> | <b>BUILDING WORKS</b>                |                  |                    |       |   |            |
| <b>6.5</b> | <b>PUBLIC TOILETS (A= 100.00 SM)</b> |                  |                    |       |   |            |
| DIV-02     | SITE CONSTRUCTION                    | 1                |                    | l.s.  |   |            |
| DIV-03     | CONCRETE WORKS                       | 1                |                    | l.s.  |   |            |
| DIV-04     | MASONRY WORKS                        | 1                |                    | l.s.  |   |            |
| DIV-05     | METAL WORKS                          | 1                |                    | l.s.  |   |            |
| DIV-07     | THERMAL AND MOISTURE PROTECTION      | 1                |                    | l.s.  |   |            |
| DIV-08     | DOORS AND WINDOWS                    | 1                |                    | l.s.  |   |            |
| DIV-09     | FINISHES                             | 1                |                    | l.s.  |   |            |
| DIV-10     | SPECIALTIES                          | 1                |                    | l.s.  |   |            |
| DIV-15     | MECHANICAL WORKS                     |                  |                    |       |   |            |
| 15.1       | PLUMBING WORKS                       | 1                |                    | l.s.  |   |            |
| DIV 16     | ELECTRICAL WORKS                     | 1                |                    | l.s.  |   |            |
|            |                                      |                  |                    |       |   |            |
|            | <b>Total "6.5" - PUBLIC TOILETS</b>  |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               |   |                  |                    |       |   |            |
| <b>6.0</b>    | <b>BUILDING WORKS</b>   |                  |                    |       |   |            |
| <b>6.5</b>    | <b>PUBLIC TOILETS</b>   |                  |                    |       |   |            |
| <b>DIV-02</b> | <b>SITE CONSTRUCTION</b>  |                  |                    |       |   |            |
| 2.1           | Building Layout   | 115              |                    | sq.m. |   |            |
| 2.2           | Structure Excavation  | 122              |                    | cu.m. |   |            |
| 2.3           | Backfilling and filling   |                  |                    |       |   |            |
| 2.3.1         | Backfill excavations with suitable excavated materials  | 93               |                    | cu.m. |   |            |
| 2.3.2         | Gravel base   | 24               |                    | cu.m. |   |            |
| 2.4           | Soil Disposal   |                  |                    |       |   |            |
| 2.4.1         | Remove surplus excavated material from site   | 29               |                    | cu.m. |   |            |
| 2.5           | Subgrade Preparation  | 115              |                    | sq.m. |   |            |
| 2.6           | Anti-termite treatment to surfaces of ground and sides and bottoms of excavations                                       | 158              |                    | sq.m. |   |            |
|               | <b>Total "DIV-02" - SITE CONSTRUCTION</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-03</b> | <b>CONCRETE WORKS</b>   |                  |                    |       |   |            |
| <b>3.1</b>    | <b>Cast-In-Place Structural Concrete</b>  |                  |                    |       |   |            |
| 3.1.1         | Reinforced concrete; 280 kg/cm2 or 4000 psi or 27.60 Mpa  |                  |                    |       |   |            |
| 1             | Foundation  | 14               |                    | cu.m. |   |            |
| 2             | Footing Tie Beam  | 6                |                    | cu.m. |   |            |
| 3             | Columns   | 6                |                    | cu.m. |   |            |
| 4             | Beams   | 9                |                    | cu.m. |   |            |
| 5             | Suspended Slab  | 22               |                    | cu.m. |   |            |
| 6             | Slab-on-grade   | 14               |                    | cu.m. |   |            |
| 3.1.2         | Reinforced concrete; 3000 psi or 21 Mpa   |                  |                    |       |   |            |
| 1             | Non-Structural RC Walls/ Parapet/ Canopy  | 37               |                    | cu.m. |   |            |
| <b>3.2</b>    | <b>Reinforcement in concrete</b>  |                  |                    |       |   |            |
| 3.2.1         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 60           |                  |                    |       |   |            |
| 1             | Foundation  | 853              |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 881              |                    | kg.   |   |            |
| 3             | Columns   | 1,100            |                    | kg.   |   |            |
| 4             | Beams   | 1,127            |                    | kg.   |   |            |
| 3.2.2         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 40           |                  |                    |       |   |            |
| 1             | Foundation  | 208              |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 406              |                    | kg.   |   |            |
| 3             | Columns   | 295              |                    | kg.   |   |            |
| 4             | Beams   | 734              |                    | kg.   |   |            |
| 5             | Suspended Slab  | 1,402            |                    | kg.   |   |            |
| 6             | Slab on Grade   | 773              |                    | kg.   |   |            |
| 7             | Non-Structural RC Walls/ Parapet/ Canopy  | 412              |                    | kg.   |   |            |
| <b>3.3</b>    | <b>Formwork</b>   | 0                |                    |       |   |            |
| 1             | Foundation  | 39               |                    | sq.m. |   |            |
| 2             | Footing Tie Beam  | 47               |                    | sq.m. |   |            |
| 3             | Columns and Pedestal  | 63               |                    | sq.m. |   |            |
| 4             | Beams   | 101              |                    | sq.m. |   |            |
| 5             | Suspended Slab  | 146              |                    | sq.m. |   |            |
| 6             | Non-Structural RC Walls/ Parapet/ Canopy  | 412              |                    | sq.m. |   |            |
|               | <b>Total "DIV-03" - CONCRETE WORKS</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-04</b> | <b>MASONRY WORKS</b>  |                  |                    |       |   |            |
| 4.1           | Masonry Grout   |                  |                    |       |   |            |
| 1             | Concrete Block Cores, 2500 PSI  | 14               |                    | cu.m. |   |            |
| 4.2           | Concrete stiffener columns and bond / lintel beams inclusive of formworks and steel reinforcement, Grade 275 (Grade 40) | 6                |                    | cu.m. |   |            |
| 4.3           | CHB Steel Reinforcement, Grade 40 PNS 275 with Ga.16 G.I. Tie Wire  | 730              |                    | kg.   |   |            |
| 4.4           | Concrete Masonry Units  |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|---------------|---|---------------|-----------------|-------|---|------------|
| 1             | CHB, 150mm thk. Load Bearing (700 psi)- exterior  | 104           |                 | sq.m. |   |            |
| 3             | CHB, 100mm thk. Load Bearing (350 psi)  | 102           |                 | sq.m. |   |            |
|               | <b>Total "DIV-04" - MASONRY WORKS</b>   |               |                 |       |   |            |
| <b>DIV-05</b> | <b>METAL WORKS</b>  |               |                 |       |   |            |
| 5.1           | Miscellaneous Metals  |               |                 |       |   |            |
| 5.1.1         | Handrails and Railings  |               |                 |       |   |            |
| 1             | Ramp railing; 50mm dia. G.I. Pipe Handrail railing vertical/horizontal members and 12mm dia. Pipe horizontal member including all incidentals to complete (supply and installation) | 12            |                 | l.m.  |   |            |
|               | <b>Total "DIV-05" - METAL WORKS</b>   |               |                 |       |   |            |
| <b>DIV-07</b> | <b>THERMAL AND MOISTURE PROTECTION</b>  |               |                 |       |   |            |
| 7.1           | <b>Dampproofing and Waterproofing</b>   |               |                 |       |   |            |
| 7.1.1         | Dampproofing vapor barriers, 1 layer 6 mils thick   | 86            |                 | sq.m. |   |            |
| 7.1.2         | Waterproofing   |               |                 |       |   |            |
| 7.1.2.1       | Polyurethane based liquid applied waterproofing   |               |                 |       |   |            |
| 1             | for Toilets   | 64            |                 | sq.m. |   |            |
| 7.2           | Insulation  |               |                 |       |   |            |
| 1             | Roof Sprayed Polyurethane Foam Insulation system Seamless type with Flexible Acrylic Waterproofing including Surface Preparation and other consumable accessories to complete       | 151           |                 | sq.m. |   |            |
|               | <b>Total "DIV-07"- THERMAL AND MOISTURE PROTECTION</b>  |               |                 |       |   |            |
| <b>DIV-08</b> | <b>DOORS AND WINDOWS</b>  |               |                 |       |   |            |
| <b>8.1</b>    | <b>DOORS</b>  |               |                 |       |   |            |
| 8.1.1         | METAL DOORS   |               |                 |       |   |            |
| 8.1.1.1       | Roll-up Door w/ Hardware & Accessories Aluminum Shutters (Supply and Install)   |               |                 |       |   |            |
| 1             | TD-1, 1728mm x 2400mm   | 1             |                 | set   |   |            |
| 8.1.3         | WOODEN DOORS  |               |                 |       |   |            |
| 8.1.3.1       | From 25mm thick tanguile door panel with 50 x 150mm KD door frame and 50 x 100mm Yalkal KD door jamb  |               |                 |       |   |            |
| 1             | TD-3, 1025mm x 2100mm   | 2             |                 | set   |   |            |
| 8.1.3.2       | Fully louver double leaf wooden door painted finish   |               |                 |       |   |            |
| 1             | TD-4/5, 700mm x 1600mm  | 2             |                 | set   |   |            |
|               | <b>Sub-total 8.1 - Doors</b>  |               |                 |       |   |            |
| <b>8.2</b>    | <b>WINDOWS</b>  |               |                 |       |   |            |
| 8.2.1         | Glass Louver Window with 6mm thick clear glass on Aluminum Powder coated frame with 6mm thick clear glass including all complete accessories  |               |                 |       |   |            |
| 1             | AW-1, 3000mm x 600mm  | 1             |                 | set   |   |            |
| 2             | AW-6, 2000mm x 600mm  | 1             |                 | set   |   |            |
| 3             | AW-2/3/4/5, 1000mm x 600mm  | 4             |                 | set   |   |            |
| 8.2.2         | WPC Fixed Sun Shade Louver incuding Steel Tubular Frame and complete accessories  |               |                 |       |   |            |
| 1             | SW-1, 1000mm x 1800mm   | 1             |                 | set   |   |            |
| 2             | SW-2, 2000mm x 1800mm   | 1             |                 | set   |   |            |
| 3             | SW-3, 1400mm x 1800mm   | 1             |                 | set   |   |            |
| 4             | Steel Tubular Frame   | 200           |                 | kg.   |   |            |
|               | <b>Sub-total 8.2 - Windows</b>  |               |                 |       |   |            |
| <b>8.3</b>    | <b>Hardwares</b>  |               |                 |       |   |            |
| 8.3.1         | Lockset   |               |                 |       |   |            |
| 1             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 1, UL Certified, 6-Pins, satin chrome finish  | 2             |                 | set   |   |            |
| 2             | Deadbolt, one way, blank plate inside, US32D, ANSI G2 UL 3HRFR  | 2             |                 | set   |   |            |
| 8.3.2         | HINGES:   |               |                 |       |   |            |
| 1             | BA4F 4.5 x 4 x 3.4 x 4BB Full Mortise ANSI Templated Hinge High Frequency, 304 SSS  | 10            |                 | pair  |   |            |
| 8.3.3         | CLOSER:   |               |                 |       |   |            |
| 1             | Overhead cam action door closer in slide channel arm, silver finish   | 2             |                 | set   |   |            |
| 8.3.4         | Accessories   |               |                 |       |   |            |

| ITEM NO.      | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|--|------------------|--------------------|-------|---|------------|
| 1             | Flush door handle, stainless steel recessed cup handle   | 4                |                    | set   |   |            |
| 2             | Manual Flushbolt, L-shape, 6" long, SSS  | 4                |                    | set   |   |            |
| 3             | Dust proof socket-floor mounted, satin chrome finish   | 2                |                    | set   |   |            |
|               | <b>Sub-total 8.3 - Hardwares</b>   |                  |                    |       |   |            |
|               | <b>Total "DIV-08" - DOORS AND WINDOWS</b>  |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-09</b> | <b>FINISHES</b>  |                  |                    |       |   |            |
| 9.1           | <b>Floor Finishes</b>  |                  |                    |       |   |            |
| 9.1.1         | 400 x 400mm Unglazed Ceramic Tiles, non-skid   | 53               |                    | sq.m. |   |            |
| 9.1.2         | Homogeneous Granite Floor Tiles, 600 x 600mm, unpolished   | 24               |                    | sq.m. |   |            |
| 9.1.3         | Non-skid floor tiles, 200 x 200mm  | 12               |                    | sq.m. |   |            |
|               | <b>Sub-total - Floor Finishes</b>  |                  |                    |       |   |            |
| 9.2           | <b>Wall Finishes</b>   |                  |                    |       |   |            |
| 9.2.1         | Plain Cement Wall Finish (exterior)  | 222              |                    | sq.m. |   |            |
| 9.2.2         | Plain Cement Wall Finish (interior)  | 23               |                    | sq.m. |   |            |
| 9.2.3         | Ceramic Glazed Wall Tiles, 400 x 400mm   | 176              |                    | sq.m. |   |            |
| 9.2.4         | Decorative Insulation Panel System   | 12               |                    | sq.m. |   |            |
|               | <b>Sub-total - Wall Finishes</b>   |                  |                    |       |   |            |
| 9.3           | <b>Ceiling Finishes</b>  |                  |                    |       |   |            |
| 9.3.1         | 6mm thk. Fiber cement board ceiling on metal frame system  | 138              |                    | sq.m. |   |            |
| 9.3.2         | 150mm x 150mm Light Cove on metal frame system including all incidentals to complete   | 23               |                    | l.m.  |   |            |
|               | <b>Sub-total - Ceiling Finishes</b>  |                  |                    |       |   |            |
| 9.5           | <b>Painting Works</b>  |                  |                    |       |   |            |
| 9.5.1         | <b>At Wall</b>   |                  |                    |       |   |            |
| 1             | Painting of Masonry/Concrete Surfaces, interior, plain finish  | 23               |                    | sq.m. |   |            |
| 2             | Painting on Exterior Wall Surfaces, textured finish  | 210              |                    | sq.m. |   |            |
| 9.5.2         | <b>At Ceiling</b>  |                  |                    |       |   |            |
| 1             | Painting on fiber cement board ceiling surfaces  | 161              |                    | sq.m. |   |            |
| 9.5.3         | Painting on wooden surfaces (wood doors, etc.)   | 20               |                    | sq.m. |   |            |
|               | <b>Sub-total - Painting</b>  |                  |                    |       |   |            |
|               | <b>Total "DIV-09" - FINISHES</b>   |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-10</b> | <b>SPECIALTIES</b>   |                  |                    |       |   |            |
| 10.1          | Toilet Cubicle/Compartments  |                  |                    |       |   |            |
| 1             | Overhead braced floor mounted system solid compact laminate toilet partition and doors including all hardwares and accessories to complete | 33               |                    | sq.m. |   |            |
| 10.2          | 6mm thick Facial mirror on 6mm thick marine plywood backing inclusive all incidentals to complete  |                  |                    |       |   |            |
| 1             | 500 x 1000mm   | 1                |                    | set   |   |            |
| 2             | 1800 x 1000mm  | 2                |                    | set   |   |            |
| 10.3          | Countertop   |                  |                    |       |   |            |
| 1             | Granite finish countertop  | 4                |                    | sq.m. |   |            |
| 10.4          | Stainless Steel Grab bar at PWD Toilet   | 1                |                    | set   |   |            |
| 10.5          | Colored glass wall accent  | 9                |                    | sq.m. |   |            |
|               | <b>Total "DIV-10" - SPECIALTIES</b>  |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-15</b> | <b>MECHANICAL WORKS</b>  |                  |                    |       |   |            |
| <b>15.1</b>   | <b>PLUMBING WORKS</b>  |                  |                    |       |   |            |
| <b>15.1.1</b> | <b>Plumbing Fixtures</b>   |                  |                    |       |   |            |
| 1             | American Standard Acacia E; One Piece Elongated Toilet (with Proguard) 2007  | 9                |                    | ea    |   |            |
| 2             | American Standard Active Wall Hung Basin 0451 with standard accessories and Active extended mixer faucet 3902                              | 6                |                    | ea    |   |            |
| 3             | American Standard New Washbrook Urinal; Top Inlet 6502   | 3                |                    | set   |   |            |
| 4             | American Standard Image direct mount mixer shower system D20S  | 4                |                    | set   |   |            |
| 5             | Slop Sink Faucet / Hosebibb  | 2                |                    | set   |   |            |
| 6             | American Standard Concept Round Robe Hook  | 9                |                    | ea    |   |            |
| 7             | American Standard Concept Round Paper Holder with cover  | 9                |                    | set   |   |            |



| ITEM NO.      | DESCRIPTION                                   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               | <b>Sub-total "15.1.1" - Plumbing Fixtures</b> |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.2</b> | <b>Cold Water Lines</b>                       |                  |                    |       |   |            |
| 15.1.2.1      | PPR Pipes                                     |                  |                    |       |   |            |
| 1             | 38 mm dia.                                    | 18               |                    | l.m.  |   |            |
| 2             | 32 mm dia.                                    | 20               |                    | l.m.  |   |            |
| 3             | 25 mm dia.                                    | 3                |                    | l.m.  |   |            |
| 4             | 20 mm dia.                                    | 2                |                    | l.m.  |   |            |
| 5             | 15 mm dia.                                    | 3                |                    | l.m.  |   |            |
|               | Fittings                                      |                  |                    |       |   |            |
| 15.1.2.2      | Tee   |                  |                    |       |   |            |
| 1             | 12 mm dia.                                    | 28               |                    | l.m.  |   |            |
| 15.1.2.3      | Tee Reducer                                   |                  |                    |       |   |            |
| 1             | 32 mm x 12mm dia.                             | 15               |                    | ea    |   |            |
| 1             | 25 mm x 12mm dia.                             | 3                |                    | ea    |   |            |
| 2             | 20mm x 12mm dia.                              | 3                |                    | ea    |   |            |
| 15.1.2.4      | Reducer/ Increaser                            |                  |                    |       |   |            |
| 1             | 38 mm x 32mm dia.                             | 2                |                    | ea    |   |            |
| 2             | 38 mm x 25mm dia.                             | 2                |                    | ea    |   |            |
| 3             | 32 mm x 25 mm dia.                            | 1                |                    | ea    |   |            |
| 4             | 32 mm x 20 mm dia.                            | 1                |                    | ea    |   |            |
| 5             | 32 mm x 12 mm dia.                            | 2                |                    | ea    |   |            |
| 6             | 25 mm x 12 mm dia.                            | 1                |                    | ea    |   |            |
| 7             | 20 mm x 12 mm dia.                            | 1                |                    | ea    |   |            |
| 15.1.2.5      | Elbow 90 DEG.                                 |                  |                    |       |   |            |
| 1             | 38 mm dia.                                    | 6                |                    | ea    |   |            |
| 2             | 32 mm dia.                                    | 2                |                    | ea    |   |            |
| 3             | 25 mm dia.                                    | 1                |                    | ea    |   |            |
| 4             | 20 mm dia.                                    | 2                |                    | ea    |   |            |
| 5             | 12 mm dia.                                    | 4                |                    | ea    |   |            |
| 15.1.2.6      | Gate Valve                                    |                  |                    |       |   |            |
| 1             | 38 mm dia.                                    | 2                |                    | ea    |   |            |
|               | <b>Sub-total "15.1.2" - 'Cold Water Lines</b> |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.3</b> | <b>Sewer Pipes</b>                            |                  |                    |       |   |            |
| 15.1.3.1      | Cast Iron Pipe Hubless                        |                  |                    |       |   |            |
| 1             | 150 mm dia.                                   | 8                |                    | l.m.  |   |            |
| 2             | 100 mm dia.                                   | 20               |                    | l.m.  |   |            |
| 3             | 75 mm dia.                                    | 8                |                    | l.m.  |   |            |
| 4             | 50 mm dia.                                    | 4                |                    | l.m.  |   |            |
|               | Fittings                                      |                  |                    |       |   |            |
| 15.1.3.2      | Wye   |                  |                    |       |   |            |
| 1             | 100 mm dia.                                   | 10               |                    | ea    |   |            |
| 15.1.3.3      | Wye Reducer                                   |                  |                    |       |   |            |
| 1             | 150 mm x 100 mm dia.                          | 3                |                    | ea    |   |            |
| 2             | 100 mm x 75 mm dia.                           | 2                |                    | ea    |   |            |
| 3             | 100 mm x 50 mm dia.                           | 8                |                    | ea    |   |            |
| 4             | 75 mm x 50 mm dia.                            | 12               |                    | ea    |   |            |
| 15.1.3.4      | Elbow 45 DEG.                                 |                  |                    |       |   |            |
| 1             | 150 mm dia.                                   | 2                |                    | ea    |   |            |
| 2             | 100 mm dia.                                   | 6                |                    | ea    |   |            |
| 3             | 50 mm dia.                                    | 3                |                    | ea    |   |            |
| 15.1.3.5      | P-trap  |                  |                    |       |   |            |
| 1             | 100 mm dia.                                   | 9                |                    | ea    |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| 2             | 50 mm dia.  | 23               |                    | ea    |   |            |
| 15.1.3.6      | Floor drain (FD)  |                  |                    |       |   |            |
| 1             | 50 mm dia.  | 13               |                    | ea    |   |            |
| 15.1.3.7      | Sanitary Tee  |                  |                    |       |   |            |
| 1             | 50 mm dia.  | 9                |                    | ea    |   |            |
| 15.1.3.8      | Clean out   |                  |                    |       |   |            |
| 1             | 150 mm dia.   | 1                |                    | ea    |   |            |
| 2             | 100 mm dia.   | 3                |                    | ea    |   |            |
| 3             | 75 mm dia.  | 3                |                    | ea    |   |            |
| 15.1.3.9      | Septic Tank   |                  |                    |       |   |            |
| 1             | 4100 mm L x 1000 mm W x 1200 mm D   | 1                |                    | lot   |   |            |
|               | <b>Sub-total "15.1.3" - Sewer Pipes</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.4</b> | <b>Vent Pipes</b>   |                  |                    |       |   |            |
| 15.1.4.1      | uPVC Pipe, Series 1000  |                  |                    |       |   |            |
| 1             | 100 mm dia.   | 1                |                    | l.m.  |   |            |
| 2             | 75 mm dia.  | 19               |                    | l.m.  |   |            |
| 3             | 50 mm dia.  | 67               |                    | l.m.  |   |            |
|               | Fittings  |                  |                    |       |   |            |
| 15.1.4.2      | Tee   |                  |                    |       |   |            |
| 1             | 75 mm dia.  | 3                |                    | ea    |   |            |
| 2             | 50 mm dia.  | 24               |                    | ea    |   |            |
| 15.1.4.3      | Tee Reducer   |                  |                    |       |   |            |
| 1             | 75 mm x 50 mm dia.  | 2                |                    | ea    |   |            |
| 15.1.4.4      | Elbow 90 DEG.   |                  |                    |       |   |            |
| 1             | 100 mm dia.   | 1                |                    | ea    |   |            |
| 2             | 75 mm dia.  | 2                |                    | ea    |   |            |
| 3             | 50 mm dia.  | 40               |                    | ea    |   |            |
|               | <b>Sub-total "15.1.4" - Vent Pipes</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.5</b> | <b>Storm Pipes</b>  |                  |                    |       |   |            |
| 15.1.5.1      | uPVC Pipe, Series 1000  |                  |                    |       |   |            |
| 1             | 150 mm dia.   | 9                |                    | l.m.  |   |            |
| 2             | 75 mm dia.  | 8                |                    | l.m.  |   |            |
|               | Fittings  |                  |                    |       |   |            |
| 15.1.5.2      | Elbow 45 DEG.   |                  |                    |       |   |            |
| 1             | 75 mm dia.  | 6                |                    | ea    |   |            |
| 15.1.5.3      | Deck Drain  |                  |                    |       |   |            |
| 1             | 75 mm dia.  | 3                |                    | ea    |   |            |
|               | Storm Drainage Pipes (Exterior Installation), including excavation, backfill, removal of surplus excavated, sandbedding, concrete breaking and restoration, and other incidentals to complete as specified in Mechanical Drawings and Technical Specifications. |                  |                    |       |   |            |
| 15.1.5.4      | Reinforce Concrete Pipes  |                  |                    |       |   |            |
| 1             | 200 mm dia.   | 6                |                    | ea    |   |            |
| 15.1.5.5      | Catch Basin   |                  |                    |       |   |            |
| 1             | 400 mm W x 400 mm L x 1000 mm H   | 3                |                    | ea    |   |            |
|               | <b>Sub-total "15.1.5" - Storm Pipes</b>   |                  |                    |       |   |            |
|               | <b>Total "15.1" - PLUMBING WORKS</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-16</b> | <b>ELECTRICAL</b>   |                  |                    |       |   |            |
| <b>16.1</b>   | <b>GROUNDING SYSTEM</b>   |                  |                    |       |   |            |
| 16.1.1        | Ground Well (320x320x190 mm)  | 1                |                    | ea    |   |            |
| 16.1.2        | Ground Rod Copper Clad Steel 20mm DIA x 3m LONG   | 4                |                    | ea    |   |            |
| 16.1.3        | 100mm <sup>2</sup> Bare Copper Wire   | 54               |                    | l.m.  |   |            |
| 16.1.4        | 50mm <sup>2</sup> Bare Copper Wire  | 17               |                    | l.m.  |   |            |
| 16.1.5        | Exothermic Weld Kit (100-50)  |                  |                    |       |   |            |

| ITEM NO.    | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|-------------|---|---------------|-----------------|-------|---|------------|
| 1           | A) Exothermic Mold 100/50   | 1             |                 | ea    |   |            |
| 2           | B) Powder #90   | 8             |                 | ea    |   |            |
| 16.1.6      | Exothermic Weld Kit (WIRE-ROD)  |               |                 |       |   |            |
| 1           | A) Exothermic Mold 20/100   | 1             |                 | ea    |   |            |
| 2           | B) Powder #115  | 4             |                 | ea    |   |            |
|             | <b>Total 16.1 - GROUNDING SYSTEM</b>  |               |                 |       |   |            |
|             |   |               |                 |       |   |            |
| <b>16.2</b> | <b>INTERIOR DISTRIBUTION SYSTEM</b>   |               |                 |       |   |            |
| 16.2.1      | Conduit & Fittings  |               |                 |       |   |            |
| 1           | 25mm dia Weather Cap  | 1             |                 | ea    |   |            |
| 2           | 25mm dia IMC with coupling  | 6             |                 | l.m.  |   |            |
| 3           | 20mm dia PVC with coupling  | 30            |                 | l.m.  |   |            |
| 4           | 25mm dia Locknut and Bushing  | 5             |                 | pair  |   |            |
| 5           | 20mm dia Locknut and Bushing  | 8             |                 | pair  |   |            |
| 6           | C-Clamp with Screw, Expansion Bolt, Channel Support and other accessories   | 1             |                 | lot   |   |            |
| 16.2.2      | Wires and Cables  |               |                 |       |   |            |
| 1           | 14mm2 THWN  | 15            |                 | l.m.  |   |            |
| 2           | 3.5mm <sup>2</sup> THWN   | 60            |                 | l.m.  |   |            |
| 3           | 5.5mm <sup>2</sup> TW   | 7             |                 | l.m.  |   |            |
| 16.2.3      | Boxes   |               |                 |       |   |            |
| 1           | Utility box   | 4             |                 | ea    |   |            |
| 2           | Condulet (25mm Dia IMC)   | 2             |                 | ea    |   |            |
| 16.2.4      | Wiring Devices  |               |                 |       |   |            |
| 1           | Duplex Receptacle, 2P, 16A, 3W, 250V, flush mounted grounding type, complete with plate cover and other incidentals | 2             |                 | set   |   |            |
| 2           | Special Purpose Outlet, 16A, 250V, 3W, Grounding Type   | 2             |                 | set   |   |            |
| 16.2.5      | Panelboards and Protective Devices (With Solid Neutral and Ground Bus)  |               |                 |       |   |            |
| 1           | PNL 'LP4' NEMA-1 ENCLOSURE  | 1             |                 | set   |   |            |
|             | Main : 2P, 60AT 100AF 18 KAIC   |               |                 |       |   |            |
|             | Brs: 2- 2P, 30AT 100AF  |               |                 |       |   |            |
|             | 5 - 2P, 20AT 100AF  |               |                 |       |   |            |
|             | 1 - 2P, SPACE   |               |                 |       |   |            |
| 16.2.6      | INTERIOR LIGHTING   |               |                 |       |   |            |
| 16.2.6.1    | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials                          |               |                 |       |   |            |
| 1           | 20mm dia PVC conduit with coupling  | 49            |                 | l.m.  |   |            |
| 2           | 20mm dia Locknut & Bushing  | 324           |                 | pair  |   |            |
| 3           | 20mm dia FMC  | 54            |                 | l.m.  |   |            |
| 4           | 20mm dia Straight & Angle connector   | 54            |                 | ea    |   |            |
| 16.2.6.2    | Boxes/Pull Boxes  |               |                 |       |   |            |
| 1           | Utility Box   | 6             |                 | ea    |   |            |
| 2           | Junction Box  | 54            |                 | ea    |   |            |
| 16.2.6.3    | Wires and Cables drawn into conduit including splices, terminations, etc.   |               |                 |       |   |            |
| 1           | 3.5mm <sup>2</sup> THHN   | 441           |                 | l.m.  |   |            |
| 16.2.6.4    | Wiring Devices  |               |                 |       |   |            |
| 1           | Light Switch, flush mounted, 1pole in one gang, 15A, 250V   | 2             |                 | set   |   |            |
| 2           | Light Switch, flush mounted, 2pole in one gang, 15A, 250V   | 4             |                 | set   |   |            |
| 16.2.6.5    | Lighting Fixtures   |               |                 |       |   |            |
| 1           | 1 x 36W Linear Fluorescent or LED Equivalent in Water and Dust Tight Housing (Recessed)                             | 2             |                 | set   |   |            |
| 2           | 1 x 36W Linear Fluorescent or LED Equivalent With Steel Housing and Aluminum Louver                                 | 29            |                 | set   |   |            |
| 3           | 1 x 18W CFL or LED Equivalent Downlight with Aluminum Reflector (Recessed)  | 11            |                 | set   |   |            |
| 4           | 1 x 18W CFL or LED Equivalent Downlight in Aluminum Housing   | 12            |                 | set   |   |            |
| 5           | Exit Light Wall Mounted   | 1             |                 | set   |   |            |
|             | <b>Total 16.2 - INTERIOR DISTRIBUTION SYSTEM</b>  |               |                 |       |   |            |
|             | <b>TOTAL DIV-16 - ELECTRICAL WORKS</b>  |               |                 |       |   |            |
|             |   |               |                 |       |   |            |



Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
**PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY**  
 PCA Annex Building, Elliptical Road, Diliman, Quezon City

**BILL OF QUANTITIES**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO.     | DESCRIPTION                                   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|--------------|---|------------------|--------------------|-------|---|------------|
| <b>6.0</b>   | <b>BUILDING WORKS</b>                         |                  |                    |       |   |            |
| <b>6.6.1</b> | <b>SOLID WASTE FACILITY-1 (A= 40.00 SM)</b>   |                  |                    |       |   |            |
| DIV-02       | SITE CONSTRUCTION                             | 1                |                    | l.s.  |   |            |
| DIV-03       | CONCRETE WORKS                                | 1                |                    | l.s.  |   |            |
| DIV-04       | MASONRY WORKS                                 | 1                |                    | l.s.  |   |            |
| DIV-07       | THERMAL AND MOISTURE PROTECTION               | 1                |                    | l.s.  |   |            |
| DIV-08       | DOORS AND WINDOWS                             | 1                |                    | l.s.  |   |            |
| DIV-09       | FINISHES                                      | 1                |                    | l.s.  |   |            |
| DIV-15       | MECHANICAL WORKS                              |                  |                    |       |   |            |
| 15.1         | PLUMBING WORKS                                | 1                |                    | l.s.  |   |            |
| DIV 16       | ELECTRICAL WORKS                              | 1                |                    | l.s.  |   |            |
|              |   |                  |                    |       |   |            |
|              | <b>Total "6.6.1" - SOLID WASTE FACILITY-1</b> |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               |   |                  |                    |       |   |            |
| <b>6.0</b>    | <b>BUILDING WORKS</b>   |                  |                    |       |   |            |
| <b>6.6.1</b>  | <b>SOLID WASTE FACILITY-1</b>   |                  |                    |       |   |            |
| <b>DIV-02</b> | <b>SITE CONSTRUCTION</b>  |                  |                    |       |   |            |
| 2.1           | Building Layout   | 40               |                    | sq.m. |   |            |
| 2.2           | Structure Excavation  | 84               |                    | cu.m. |   |            |
| 2.3           | Backfilling and filling   |                  |                    |       |   |            |
| 2.3.1         | Backfill excavations with suitable excavated materials  | 61               |                    | cu.m. |   |            |
| 2.3.2         | Gravel base   | 9                |                    | cu.m. |   |            |
| 2.4           | Soil Disposal   |                  |                    |       |   |            |
| 2.4.1         | Remove surplus excavated material from site   | 23               |                    | cu.m. |   |            |
| 2.5           | Subgrade Preparation  | 40               |                    | sq.m. |   |            |
| 2.6           | Anti-termite treatment to surfaces of ground and sides and bottoms of excavations                                       | 72               |                    | sq.m. |   |            |
|               | <b>Total "DIV-02" - SITE CONSTRUCTION</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-03</b> | <b>CONCRETE WORKS</b>   |                  |                    |       |   |            |
| <b>3.1</b>    | <b>Cast-In-Place Structural Concrete</b>  |                  |                    |       |   |            |
| 3.1.1         | Reinforced concrete; 280 kg/cm2 or 4000 psi or 27.60 Mpa  |                  |                    |       |   |            |
| 1             | Foundation  | 12               |                    | cu.m. |   |            |
| 2             | Footing Tie Beam  | 4                |                    | cu.m. |   |            |
| 3             | Columns and Pedestal  | 4                |                    | cu.m. |   |            |
| 4             | Beams   | 3                |                    | cu.m. |   |            |
| 5             | Suspended Slab  | 9                |                    | cu.m. |   |            |
| 6             | Slab-on-grade   | 6                |                    | cu.m. |   |            |
| 3.1.2         | Reinforced concrete; 3000 psi or 21 Mpa   |                  |                    |       |   |            |
| 1             | Non-Structural RC Walls/ Parapet/ Canopy  | 4                |                    | cu.m. |   |            |
| <b>3.2</b>    | <b>Reinforcement in concrete</b>  |                  |                    |       |   |            |
| 3.2.1         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 60           |                  |                    |       |   |            |
| 1             | Foundation  | 910              |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 400              |                    | kg.   |   |            |
| 3             | Columns and Pedestal  | 682              |                    | kg.   |   |            |
| 4             | Beams   | 417              |                    | kg.   |   |            |
| 3.2.2         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 40           |                  |                    |       |   |            |
| 1             | Foundation  | 60               |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 318              |                    | kg.   |   |            |
| 3             | Columns and Pedestal  | 237              |                    | kg.   |   |            |
| 4             | Beams   | 332              |                    | kg.   |   |            |
| 5             | Suspended Slab  | 874              |                    | kg.   |   |            |
| 6             | Slab on Grade   | 331              |                    | kg.   |   |            |
| 7             | Non-Structural RC Walls/ Parapet/ Canopy  | 400              |                    | kg.   |   |            |
| <b>3.3</b>    | <b>Formwork</b>   |                  |                    |       |   |            |
| 1             | Foundation  | 26               |                    | sq.m. |   |            |
| 2             | Footing Tie Beam  | 32               |                    | sq.m. |   |            |
| 3             | Columns and Pedestal  | 54               |                    | sq.m. |   |            |
| 4             | Beams   | 37               |                    | sq.m. |   |            |
| 5             | Suspended Slab  | 83               |                    | sq.m. |   |            |
| 6             | Non-Structural RC Walls/ Parapet/ Canopy  | 39               |                    | sq.m. |   |            |
|               | <b>Total "DIV-03" - CONCRETE WORKS</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-04</b> | <b>MASONRY WORKS</b>  |                  |                    |       |   |            |
| 4.1           | Masonry Grout   |                  |                    |       |   |            |
| 1             | Concrete Block Cores, 2500 PSI  | 13               |                    | cu.m. |   |            |
| 4.2           | Concrete stiffener columns and bond / lintel beams inclusive of formworks and steel reinforcement, Grade 275 (Grade 40) | 2                |                    | cu.m. |   |            |
| 4.3           | CHB Steel Reinforcement, Grade 40 PNS 275 with Ga.16 G.I. Tie Wire  | 666              |                    | kg.   |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| 4.4           | Concrete Masonry Units  |                  |                    |       |   |            |
| 1             | CHB, 150mm thk. Load Bearing (700 psi)- exterior  | 95               |                    | sq.m. |   |            |
| 2             | CHB, 100mm thk. Load Bearing (350 psi)  | 93               |                    | sq.m. |   |            |
|               | <b>Total "DIV-04" - MASONRY WORKS</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-07</b> | <b>THERMAL AND MOISTURE PROTECTION</b>  |                  |                    |       |   |            |
| 7.1           | <b>Dampproofing and Waterproofing</b>   |                  |                    |       |   |            |
| 7.1.1         | Dampproofing vapor barriers, 1 layer 6 mils thick   | 40               |                    | sq.m. |   |            |
| 7.2           | Insulation  |                  |                    |       |   |            |
| 1             | Roof Sprayed Polyurethane Foam Insulation system Seamless type with Flexible Acrylic Waterproofing including Surface Preparation and other consumable accessories to complete | 64               |                    | sq.m. |   |            |
|               | <b>Total "DIV-07"-THERMAL AND MOISTURE PROTECTION</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-08</b> | <b>DOORS AND WINDOWS</b>  |                  |                    |       |   |            |
| <b>8.1</b>    | <b>DOORS</b>  |                  |                    |       |   |            |
| 8.1.2         | WPC LOUVER DOORS  |                  |                    |       |   |            |
| 8.1.2.1       | Louvered wood plastic composite (WPC) door on metal frame including WPC door jamb   |                  |                    |       |   |            |
| 1             | 1200mm x 2400mm   | 10               |                    | set   |   |            |
|               | <b>Sub-total 8.1 - Doors</b>  |                  |                    |       |   |            |
| <b>8.2</b>    | <b>Hardware</b>   |                  |                    |       |   |            |
| 8.2.1         | Lockset   |                  |                    |       |   |            |
| 1             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 1, UL Certified, 6-Pins, satin chrome finish  | 2                |                    | set   |   |            |
| 2             | Deadbolt, single cylinder, blank plate inside, US32D, ANSI G2, UL 6-pins, SSS   | 10               |                    | set   |   |            |
| 8.3.2         | HINGES:   |                  |                    |       |   |            |
| 1             | BA4F 4.5 x 4 x 3.4 x 4BB Full Mortise ANSI Templated Hinge High Frequency, 304 SSS  | 20               |                    | pair  |   |            |
| 8.3.3         | CLOSER:   |                  |                    |       |   |            |
| 1             | Surface mounted door closer with standard arm, silver finish  | 10               |                    | set   |   |            |
| 8.3.4         | Accessories   |                  |                    |       |   |            |
| 1             | Pull Handle with rose cover plate, 19MM dia. X 250MM long x 70MM projection, satin stainless steel  | 20               |                    | set   |   |            |
|               | <b>Sub-total 8.2 - Hardware</b>   |                  |                    |       |   |            |
|               | <b>Total "DIV-08" - DOORS AND WINDOWS</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-09</b> | <b>FINISHES</b>   |                  |                    |       |   |            |
| 9.1           | <b>Floor Finishes</b>   |                  |                    |       |   |            |
| 9.1.1         | Plain cement concrete steel trowel finish (to receive floor coating)  | 40               |                    | sq.m. |   |            |
| 9.1.2         | Epoxy floor coating   | 40               |                    | sq.m. |   |            |
|               | <b>Sub-total - Floor Finishes</b>   |                  |                    |       |   |            |
| <b>9.2</b>    | <b>Wall Finishes</b>  |                  |                    |       |   |            |
| 9.2.1         | Plain Cement Wall Finish (exterior)   | 189              |                    | sq.m. |   |            |
| 9.2.2         | Plain Cement Wall Finish (interior)   | 209              |                    | sq.m. |   |            |
|               | <b>Sub-total - Wall Finishes</b>  |                  |                    |       |   |            |
| <b>9.3</b>    | <b>Ceiling Finishes</b>   |                  |                    |       |   |            |
| 9.3.5         | Rubbed concrete ceiling finish  | 40               |                    | sq.m. |   |            |
|               | <b>Sub-total - Ceiling Finishes</b>   |                  |                    |       |   |            |
| <b>9.4</b>    | <b>Painting Works</b>   |                  |                    |       |   |            |
| 9.4.1         | At Wall   |                  |                    |       |   |            |
| 1             | Painting of Masonry/Concrete Surfaces, interior, plain finish   | 209              |                    | sq.m. |   |            |
| 2             | Painting on Exterior Wall Surfaces, plain finish  | 189              |                    | sq.m. |   |            |

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|---------------|---|------------------|--------------------|-------|---|------------|
| 9.4.2         | At Ceiling  |                  |                    |       |   |            |
| 1             | Painting on exposed concrete ceiling surfaces   | 40               |                    | sq.m. |   |            |
|               | <b>Sub-total - Painting</b>   |                  |                    |       |   |            |
|               | <b>Total "DIV-09" - FINISHES</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-15</b> | <b>MECHANICAL WORKS</b>   |                  |                    |       |   |            |
| <b>15.1.1</b> | <b>Cold Water Lines</b>   |                  |                    |       |   |            |
| 15.1.1.1      | PPR Pipes   |                  |                    |       |   |            |
| 1             | 20 mm dia.  | 5                |                    | l.m.  |   |            |
|               | Fittings  |                  |                    |       |   |            |
| 15.1.1.2      | Elbow 90 DEG.   |                  |                    |       |   |            |
| 1             | 20 mm dia.  | 3                |                    | ea    |   |            |
| 15.1.1.3      | Female Elbow  |                  |                    |       |   |            |
| 1             | 20 mm dia.  | 1                |                    | ea    |   |            |
| 15.1.1.4      | Hosebibb  |                  |                    |       |   |            |
| 1             | 20 mm dia.  | 1                |                    | ea    |   |            |
|               | <b>Sub-total "15.1.1" - 'Cold Water Lines</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>15.1.2</b> | <b>Storm Pipes</b>  |                  |                    |       |   |            |
| 15.1.2.1      | uPVC Pipe, Series 1000  |                  |                    |       |   |            |
| 1             | 150 mm dia.   | 6                |                    | l.m.  |   |            |
| 2             | 100 mm dia.   | 18               |                    | l.m.  |   |            |
| 3             | 75 mm dia.  | 6                |                    | l.m.  |   |            |
|               | Fittings  |                  |                    |       |   |            |
| 15.1.2.2      | Elbow 45 DEG.   |                  |                    |       |   |            |
| 1             | 100 mm dia.   | 4                |                    | ea    |   |            |
| 2             | 75 mm dia.  | 5                |                    | ea    |   |            |
| 15.1.2.3      | Elbow 90 DEG.   |                  |                    |       |   |            |
| 1             | 100 mm dia.   | 4                |                    | ea    |   |            |
| 15.1.2.4      | Wye   |                  |                    |       |   |            |
| 1             | 75 mm dia.  | 1                |                    | ea    |   |            |
| 15.1.2.5      | Clean out   |                  |                    |       |   |            |
| 1             | 100 mm dia.   | 2                |                    | ea    |   |            |
| 15.1.2.6      | Deck Drain  |                  |                    |       |   |            |
| 1             | 100 mm dia.   | 2                |                    | ea    |   |            |
|               | Storm Drainage Pipes (Exterior Installation), including excavation, backfill, removal of surplus excavated, sandbedding, concrete breaking and restoration, and other incidentals to complete as specified in Mechanical Drawings and Technical Specifications. |                  |                    |       |   |            |
| 15.1.2.7      | Catch Basin   |                  |                    |       |   |            |
| 1             | 400 mm W x 400 mm L x 1000 mm H   | 2                |                    | ea    |   |            |
| 15.1.2.8      | Trench Drain  |                  |                    |       |   |            |
| 1             | 0.30m W x 0.20m H with Grating cover  | 10               |                    | l.m.  |   |            |
|               | <b>Sub-total "15.1.2" - 'Storm Pipes</b>  |                  |                    |       |   |            |
|               | <b>Total "15.1" - PLUMBING SYSTEM</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-16</b> | <b>ELECTRICAL</b>   |                  |                    |       |   |            |
| <b>16.1</b>   | <b>INTERIOR DISTRIBUTION SYSTEM</b>   |                  |                    |       |   |            |
| 16.1.1        | Conduit & Fittings  |                  |                    |       |   |            |
| 1             | 20mm dia Weather Cap  | 1                |                    | ea    |   |            |
| 2             | 20mm dia IMC with coupling  | 3                |                    | l.m.  |   |            |
| 3             | 20mm dia PVC with coupling  | 12               |                    | l.m.  |   |            |
| 4             | 20mm dia Locknut and Bushing  | 10               |                    | pair  |   |            |
| 5             | C-Clamp with Screw, Expansion Bolt, Channel Support and other accessories   | 1                |                    | lot   |   |            |
| 16.1.2        | Wires and Cables  |                  |                    |       |   |            |

| ITEM NO. | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|----------|---|------------------|--------------------|-------|---|------------|
| 1        | 3.5mm <sup>2</sup> THWN   | 20               |                    | l.m.  |   |            |
| 16.1.3   | Boxes   |                  |                    |       |   |            |
| 1        | Utility box   | 5                |                    | ea    |   |            |
| 16.1.4   | Wiring Devices  |                  |                    |       |   |            |
| 1        | Duplex Receptacle, 2P, 16A, 3W, 250V, flush mounted grounding type, complete with plate cover and other incidentals | 5                |                    | set   |   |            |
| 16.1.5   | Panelboards and Protective Devices (With Solid Neutral and Ground Bus)  |                  |                    |       |   |            |
| 1        | ECB 2P 20AT 100AF 240V 10KAIC NEMA-3R ENCLOSURE   | 1                |                    | set   |   |            |
| 16.1.6   | INTERIOR LIGHTING   |                  |                    |       |   |            |
| 16.1.6.1 | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials                          |                  |                    |       |   |            |
| 1        | 20mm dia IMC conduit with coupling  | 17               |                    | l.m.  |   |            |
| 2        | 20mm dia Locknut & Bushing  | 51               |                    | pair  |   |            |
| 16.1.6.2 | Boxes/Pull Boxes  |                  |                    |       |   |            |
| 1        | Utility Box   | 12               |                    | ea    |   |            |
| 2        | Junction Box  | 20               |                    | ea    |   |            |
| 16.1.6.3 | Wires and Cables drawn into conduit including splices, terminations, etc.   |                  |                    |       |   |            |
| 1        | 3.5mm <sup>2</sup> THHN   | 120              |                    | l.m.  |   |            |
| 16.1.6.4 | Wiring Devices  |                  |                    |       |   |            |
| 1        | Light Switch, flush mounted, 1pole in one gang, 15A, 250V   | 2                |                    | set   |   |            |
| 2        | Three Way Light Switch, flush mounted, 1pole in one gang, 15A, 250V   | 10               |                    | set   |   |            |
| 16.1.6.5 | Lighting Fixtures   |                  |                    |       |   |            |
| 1        | 1 x 18w CFL Or LED Equivalent Downlight in Aluminum Housing   | 10               |                    | set   |   |            |
| 2        | 1 x 36 Watts Fluorescent or LED Equivalent, Industrial Type   | 10               |                    | set   |   |            |
|          | <b>Total 16.1 - INTERIOR DISTRIBUTION SYSTEM</b>  |                  |                    |       |   |            |
|          | <b>TOTAL DIV-16 - ELECTRICAL WORKS</b>  |                  |                    |       |   |            |
|          |   |                  |                    |       |   |            |





Republic of the Philippines  
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 PCA Annex Building, Elliptical Road, Diliman, Quezon City

**BILL OF QUANTITIES**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO.     | DESCRIPTION                                   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|--------------|---|------------------|--------------------|-------|---|------------|
| <b>6.0</b>   | <b>BUILDING WORKS</b>                         |                  |                    |       |   |            |
| <b>6.6.2</b> | <b>SOLID WASTE FACILITY-2 (A= 27.00 SM)</b>   |                  |                    |       |   |            |
| DIV-02       | SITE CONSTRUCTION                             | 1                |                    | l.s.  |   |            |
| DIV-03       | CONCRETE WORKS                                | 1                |                    | l.s.  |   |            |
| DIV-04       | MASONRY WORKS                                 | 1                |                    | l.s.  |   |            |
| DIV-05       | METAL WORKS                                   | 1                |                    | l.s.  |   |            |
| DIV-07       | THERMAL AND MOISTURE PROTECTION               | 1                |                    | l.s.  |   |            |
| DIV-08       | DOORS AND WINDOWS                             | 1                |                    | l.s.  |   |            |
| DIV-09       | FINISHES                                      | 1                |                    | l.s.  |   |            |
| DIV-15       | MECHANICAL WORKS                              |                  |                    |       |   |            |
| 15.1         | PLUMBING WORKS                                | 1                |                    | l.s.  |   |            |
| DIV 16       | ELECTRICAL WORKS                              | 1                |                    | l.s.  |   |            |
|              |   |                  |                    |       |   |            |
|              | <b>Total "6.6.2" - SOLID WASTE FACILITY-2</b> |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               |   |                  |                    |       |   |            |
| <b>6.0</b>    | <b>BUILDING WORKS</b>   |                  |                    |       |   |            |
| <b>6.6.2</b>  | <b>SOLID WASTE FACILITY-2</b>   |                  |                    |       |   |            |
| <b>DIV-02</b> | <b>SITE CONSTRUCTION</b>  |                  |                    |       |   |            |
| 2.1           | Building Layout   | 27               |                    | sq.m. |   |            |
| 2.2           | Structure Excavation  | 30               |                    | cu.m. |   |            |
| 2.3           | Backfilling and filling   |                  |                    |       |   |            |
| 2.3.1         | Backfill excavations with suitable excavated materials  | 11               |                    | cu.m. |   |            |
| 2.3.2         | Gravel base   | 3                |                    | cu.m. |   |            |
| 2.4           | Soil Disposal   |                  |                    |       |   |            |
| 2.4.1         | Remove surplus excavated material from site   | 19               |                    | cu.m. |   |            |
| 2.5           | Subgrade Preparation  | 27               |                    | sq.m. |   |            |
| 2.6           | Anti-termite treatment to surfaces of ground and sides and bottoms of excavations                                       | 15               |                    | sq.m. |   |            |
|               | <b>Total "DIV-02" - SITE CONSTRUCTION</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-03</b> | <b>CONCRETE WORKS</b>   |                  |                    |       |   |            |
| <b>3.1</b>    | <b>Cast-In-Place Structural Concrete</b>  |                  |                    |       |   |            |
| 3.1.1         | Reinforced concrete; 280 kg/cm2 or 4000 psi or 27.60 Mpa  |                  |                    |       |   |            |
| 1             | Foundation  | 5                |                    | cu.m. |   |            |
| 2             | Footing Tie Beam  | 3                |                    | cu.m. |   |            |
| 3             | Columns and Pedestal  | 4                |                    | cu.m. |   |            |
| 4             | Beams   | 3                |                    | cu.m. |   |            |
| 5             | Suspended Slab  | 3                |                    | cu.m. |   |            |
| 6             | Slab-on-grade   | 1                |                    | cu.m. |   |            |
| 3.1.2         | Reinforced concrete; 3000 psi or 21 Mpa   |                  |                    |       |   |            |
| 1             | Non-Structural RC Walls/ Parapet/ Canopy  | 1                |                    | cu.m. |   |            |
| <b>3.2</b>    | <b>Reinforcement in concrete</b>  |                  |                    |       |   |            |
| 3.2.1         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 60           |                  |                    |       |   |            |
| 1             | Foundation  | 569              |                    | kg.   |   |            |
| 2             | Footing Tie Beam  | 304              |                    | kg.   |   |            |
| 3             | Columns and Pedestal  | 597              |                    | kg.   |   |            |
| 3.2.2         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 40           |                  |                    |       |   |            |
| 2             | Footing Tie Beam  | 246              |                    | kg.   |   |            |
| 3             | Columns and Pedestal  | 1,476            |                    | kg.   |   |            |
| 4             | Beams   | 677              |                    | kg.   |   |            |
| 5             | Suspended Slab  | 231              |                    | kg.   |   |            |
| 6             | Slab on Grade   | 224              |                    | kg.   |   |            |
| 7             | Non-Structural RC Walls/ Parapet/ Canopy  | 0                |                    | kg.   |   |            |
| <b>3.3</b>    | <b>Formwork</b>   |                  |                    |       |   |            |
| 1             | Foundation  | 15               |                    | sq.m. |   |            |
| 2             | Footing Tie Beam  | 30               |                    | sq.m. |   |            |
| 3             | Columns and Pedestal  | 44               |                    | sq.m. |   |            |
| 4             | Beams   | 49               |                    | sq.m. |   |            |
| 5             | Suspended Slab  | 20               |                    | sq.m. |   |            |
| 6             | Non-Structural RC Walls/ Parapet/ Canopy  | 18               |                    | sq.m. |   |            |
|               | <b>Total "DIV-03" - CONCRETE WORKS</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-04</b> | <b>MASONRY WORKS</b>  |                  |                    |       |   |            |
| 4.1           | Masonry Grout   |                  |                    |       |   |            |
| 1             | Concrete Block Cores, 2500 PSI  | 4                |                    | cu.m. |   |            |
| 4.2           | Concrete stiffener columns and bond / lintel beams inclusive of formworks and steel reinforcement, Grade 275 (Grade 40) | 1                |                    | cu.m. |   |            |
| 4.3           | CHB Steel Reinforcement, Grade 40 PNS 275 with Ga.16 G.I. Tie Wire  | 177              |                    | kg.   |   |            |
| 4.4           | Concrete Masonry Units  |                  |                    |       |   |            |
| 1             | CHB, 150mm thk. Load Bearing (700 psi)- exterior  | 43               |                    | sq.m. |   |            |
| 2             | CHB, 100mm thk. Load Bearing (350 psi)  | 7                |                    | sq.m. |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               | <b>Total "DIV-04" - MASONRY WORKS</b>   |                  |                    |       |   |            |
| <b>DIV-05</b> | <b>METAL WORKS</b>  |                  |                    |       |   |            |
| 5.1           | Miscellaneous Metals  |                  |                    |       |   |            |
| 5.1.1         | Steel Ladder  |                  |                    |       |   |            |
| 1             | Steel Ladder with 50mm dia. G.I Handrail and 25mm dia. G.I pipe non-slip ladder rungs including painting and all incidentals to complete                                      | 1                |                    | lot   |   |            |
|               | <b>Total "DIV-05" - METAL WORKS</b>   |                  |                    |       |   |            |
| <b>DIV-07</b> | <b>THERMAL AND MOISTURE PROTECTION</b>  |                  |                    |       |   |            |
| 7.1           | Dampproofing and Waterproofing  |                  |                    |       |   |            |
| 7.1.1         | Dampproofing vapor barriers, 1 layer 6 mils thick   | 27               |                    | sq.m. |   |            |
| 7.2           | Insulation  |                  |                    |       |   |            |
| 1             | Roof Sprayed Polyurethane Foam Insulation system Seamless type with Flexible Acrylic Waterproofing including Surface Preparation and other consumable accessories to complete | 21               |                    | sq.m. |   |            |
|               | <b>Total "DIV-07"-THERMAL AND MOISTURE PROTECTION</b>   |                  |                    |       |   |            |
| <b>DIV-08</b> | <b>DOORS AND WINDOWS</b>  |                  |                    |       |   |            |
| <b>8.1</b>    | <b>DOORS</b>  |                  |                    |       |   |            |
| 8.1.1         | WPC LOUVER DOORS  |                  |                    |       |   |            |
| 8.1.1.1       | Louvered wood plastic composite (WPC) door on metal frame including WPC door jamb   |                  |                    |       |   |            |
| 1             | 1000mm x 2100mm   | 1                |                    | set   |   |            |
|               | <b>Sub-total 8.1 - Doors</b>  |                  |                    |       |   |            |
| <b>8.2</b>    | <b>WINDOWS</b>  |                  |                    |       |   |            |
| 8.2.1         | Wood Plastic Composite (WPC) Window   |                  |                    |       |   |            |
| 1             | 2400mm x 650mm  | 2                |                    | set   |   |            |
| 2             | 1250mm x 650mm  | 1                |                    | set   |   |            |
| 3             | 1250mm x 450mm  | 1                |                    | set   |   |            |
|               | <b>Sub-total 8.1 - Doors</b>  |                  |                    |       |   |            |
| <b>8.2</b>    | <b>Hardwares</b>  |                  |                    |       |   |            |
| 8.2.1         | Lockset   |                  |                    |       |   |            |
| 1             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 1, UL Certified, 6-Pins, satin chrome finish  | 1                |                    | set   |   |            |
| 8.3.2         | HINGES:   |                  |                    |       |   |            |
| 1             | BA4F 4.5 x 4 x 3.4 x 4BB Full Mortise ANSI Templated Hinge High Frequency, 304 SSS  | 2                |                    | pair  |   |            |
| 8.3.3         | CLOSER:   |                  |                    |       |   |            |
| 1             | Surface mounted door closer with standard arm, silver finish  | 1                |                    | set   |   |            |
|               | <b>Sub-total 8.3 - Hardwares</b>  |                  |                    |       |   |            |
|               | <b>Total "DIV-08" - DOORS AND WINDOWS</b>   |                  |                    |       |   |            |
| <b>DIV-09</b> | <b>FINISHES</b>   |                  |                    |       |   |            |
| 9.1           | <b>Floor Finishes</b>   |                  |                    |       |   |            |
| 9.1.9         | Plain Cement Floor Finish   | 26               |                    | sq.m. |   |            |
|               | <b>Sub-total - Floor Finishes</b>   |                  |                    |       |   |            |
| 9.2           | <b>Wall Finishes</b>  |                  |                    |       |   |            |
| 9.2.1         | Plain Cement Wall Finish (exterior)   | 63               |                    | sq.m. |   |            |
| 9.2.2         | Plain Cement Wall Finish (interior)   | 68               |                    | sq.m. |   |            |
|               | <b>Sub-total - Wall Finishes</b>  |                  |                    |       |   |            |
| 9.3           | <b>Ceiling Finishes</b>   |                  |                    |       |   |            |
| 9.3.1         | Rubbed concrete ceiling finish  | 46               |                    | sq.m. |   |            |
|               | <b>Sub-total - Ceiling Finishes</b>   |                  |                    |       |   |            |
| 9.4           | <b>Baseboard Finishes/ Stair Nosing</b>   |                  |                    |       |   |            |
| 9.4.1         | <b>Baseboard Finishes</b>   |                  |                    |       |   |            |
| 1             | 100mm thick painted strip base  | 26               |                    | l.m.  |   |            |
| 9.5           | <b>Painting Works</b>   |                  |                    |       |   |            |
| 9.5.1         | <b>At Wall</b>  |                  |                    |       |   |            |
| 1             | Painting of Masonry/Concrete Surfaces, interior, plain finish   | 68               |                    | sq.m. |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| 2             | Painting on Exterior Wall Surfaces, plain finish  | 63               |                    | sq.m. |   |            |
| 9.5.2         | <b>At Ceiling</b>   |                  |                    |       |   |            |
| 1             | Painting on exposed concrete ceiling surfaces   | 46               |                    | sq.m. |   |            |
|               | <b>Sub-total - Painting</b>   |                  |                    |       |   |            |
|               | <b>Total "DIV-09" - FINISHES</b>  |                  |                    |       |   |            |
| <b>DIV-15</b> | <b>MECHANICAL WORKS</b>   |                  |                    |       |   |            |
| <b>15.1</b>   | <b>PLUMBING SYSTEM</b>  |                  |                    |       |   |            |
| <b>15.1.1</b> | <b>Cold Water Lines</b>   |                  |                    |       |   |            |
| 15.1.1.1      | PPR Pipes   |                  |                    |       |   |            |
| 1             | 20 mm dia.  | 5                |                    | l.m.  |   |            |
|               | Fittings  |                  |                    |       |   |            |
| 15.1.1.2      | Elbow 90 DEG.   |                  |                    |       |   |            |
| 1             | 20 mm dia.  | 3                |                    | ea    |   |            |
| 15.1.1.3      | Female Elbow  |                  |                    |       |   |            |
| 1             | 20 mm dia.  | 1                |                    | ea    |   |            |
| 15.1.1.4      | Hosebibb  |                  |                    |       |   |            |
| 1             | 20 mm dia.  | 1                |                    | ea    |   |            |
|               | <b>Sub-total "15.1.1" - 'Cold Water Lines</b>   |                  |                    |       |   |            |
| <b>15.1.2</b> | <b>Storm Pipes</b>  |                  |                    |       |   |            |
| 15.1.2.1      | uPVC Pipe, Series 1000  |                  |                    |       |   |            |
| 1             | 100 mm dia.   | 7                |                    | l.m.  |   |            |
| 2             | 75 mm dia.  | 11               |                    | l.m.  |   |            |
|               | Fittings  |                  |                    |       |   |            |
| 15.1.2.2      | Elbow 45 DEG.   |                  |                    |       |   |            |
| 1             | 100 mm dia.   | 4                |                    | ea    |   |            |
| 2             | 75 mm dia.  | 10               |                    | ea    |   |            |
| 15.1.2.3      | Elbow 90 DEG.   |                  |                    |       |   |            |
| 1             | 75 mm dia.  | 4                |                    | ea    |   |            |
| 15.1.2.4      | Deck Drain  |                  |                    |       |   |            |
| 1             | 75 mm dia.  | 2                |                    | ea    |   |            |
|               | Storm Drainage Pipes (Exterior Installation), including excavation, backfill, removal of surplus excavated, sandbedding, concrete breaking and restoration, and other incidentals to complete as specified in Mechanical Drawings and Technical Specifications. |                  |                    |       |   |            |
| 15.1.2.5      | Catch Basin   |                  |                    |       |   |            |
| 1             | 400 mm W x 400 mm L x 1000 mm H   | 2                |                    | ea    |   |            |
| 15.1.2.8      | Trench Drain  |                  |                    |       |   |            |
| 2             | 0.30m W x 0.20m H without Grating cover   | 6                |                    | l.m.  |   |            |
|               | <b>Sub-total "15.1.2" - 'Storm Pipes</b>  |                  |                    |       |   |            |
|               | <b>Total "15.1" - PLUMBING SYSTEM</b>   |                  |                    |       |   |            |
| <b>DIV-16</b> | <b>ELECTRICAL</b>   |                  |                    |       |   |            |
| <b>16.1</b>   | <b>INTERIOR DISTRIBUTION SYSTEM</b>   |                  |                    |       |   |            |
| 16.1.1        | Conduit & Fittings  |                  |                    |       |   |            |
| 1             | 20mm dia Weather Cap  | 1                |                    | ea    |   |            |
| 2             | 20mm dia IMC with coupling  | 3                |                    | l.m.  |   |            |
| 3             | 20mm dia PVC with coupling  | 9                |                    | l.m.  |   |            |
| 4             | 20mm dia Locknut and Bushing  | 6                |                    | pair  |   |            |
| 5             | C-Clamp with Screw, Expansion Bolt, Channel Support and other accessories   | 1                |                    | lot   |   |            |
| 16.1.2        | Wires and Cables  |                  |                    |       |   |            |
| 1             | 3.5mm <sup>2</sup> THWN   | 15               |                    | l.m.  |   |            |
| 16.1.3        | Boxes   |                  |                    |       |   |            |
| 1             | Utility box   | 2                |                    | ea    |   |            |
| 16.1.4        | Wiring Devices  |                  |                    |       |   |            |

| ITEM NO. | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|----------|---|------------------|--------------------|-------|---|------------|
| 1        | Duplex Receptacle, 2P, 16A, 3W, 250V, flush mounted grounding type, complete with plate cover and other incidentals | 2                |                    | set   |   |            |
| 16.1.5   | Panelboards and Protective Devices (With Solid Neutral and Ground Bus)  |                  |                    |       |   |            |
| 1        | ECB 2P 20AT 100AF 240V 10KAIC NEMA-3R ENCLOSURE   | 1                |                    | set   |   |            |
| 16.1.6   | INTERIOR LIGHTING   |                  |                    |       |   |            |
| 16.1.6.1 | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials                          |                  |                    |       |   |            |
| 1        | 20mm dia IMC conduit with coupling  | 5                |                    | l.m.  |   |            |
| 2        | 20mm dia Locknut & Bushing  | 11               |                    | pair  |   |            |
| 16.1.6.2 | Boxes/Pull Boxes  |                  |                    |       |   |            |
| 1        | Utility Box   | 3                |                    | ea    |   |            |
| 2        | Junction Box  | 4                |                    | ea    |   |            |
| 16.1.6.3 | Wires and Cables drawn into conduit including splices, terminations, etc.   |                  |                    |       |   |            |
| 1        | 3.5mm <sup>2</sup> THHN   | 32               |                    | l.m.  |   |            |
| 16.1.6.4 | Wiring Devices  |                  |                    |       |   |            |
| 1        | Light Switch, flush mounted, 1pole in one gang, 15A, 250V   | 3                |                    | set   |   |            |
| 16.1.6.5 | Lighting Fixtures   |                  |                    |       |   |            |
| 1        | 1 x 18w CFL Or LED Equivalent Downlight in Aluminum Housing   | 2                |                    | set   |   |            |
| 2        | 1 x 36 Watts Fluorescent or LED Equivalent, Industrial Type   | 2                |                    | set   |   |            |
|          | <b>Total 16.1 - INTERIOR DISTRIBUTION SYSTEM</b>  |                  |                    |       |   |            |
|          | <b>TOTAL DIV-16 - ELECTRICAL WORKS</b>  |                  |                    |       |   |            |
|          |   |                  |                    |       |   |            |



Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
**PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY**  
 PCA Annex Building, Elliptical Road, Diliman, Quezon City

**BILL OF QUANTITIES**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO. | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|----------|---|------------------|--------------------|-------|---|------------|
| 6.0      | <b>BUILDING WORKS</b>                                   |                  |                    |       |   |            |
| 6.7.1    | <b>WASTE WATER TREATMENT FACILITY-1 (A = 31.00 SM)</b>  |                  |                    |       |   |            |
| DIV-02   | SITE CONSTRUCTION                                       | 1                |                    | l.s.  |   |            |
| DIV-03   | CONCRETE WORKS  | 1                |                    | l.s.  |   |            |
| DIV-04   | MASONRY WORKS   | 1                |                    | l.s.  |   |            |
| DIV-07   | THERMAL AND MOISTURE PROTECTION                         | 1                |                    | l.s.  |   |            |
| DIV-08   | DOORS AND WINDOWS                                       | 1                |                    | l.s.  |   |            |
| DIV-09   | FINISHES  | 1                |                    | l.s.  |   |            |
| DIV-13   | SPECIAL CONSTRUCTION                                    |                  |                    |       |   |            |
| 13.2     | Fire Protection Works                                   | 1                |                    | l.s.  |   |            |
| DIV 16   | ELECTRICAL WORKS  | 1                |                    | l.s.  |   |            |
|          |   |                  |                    |       |   |            |
|          | <b>Total "6.7.1" - WASTE WATER TREATMENT FACILITY-1</b> |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| <b>6.0</b>    | <b>BUILDING WORKS</b>   |                  |                    |       |   |            |
| <b>6.7.1</b>  | <b>WASTE WATER TREATMENT FACILITY-1</b>   |                  |                    |       |   |            |
| <b>DIV-02</b> | <b>SITE CONSTRUCTION</b>  |                  |                    |       |   |            |
| 2.1           | Building Layout   | 31               |                    | sq.m. |   |            |
| 2.2           | Structure Excavation  | 89               |                    | cu.m. |   |            |
| 2.3           | Backfilling and filling   |                  |                    |       |   |            |
| 2.3.1         | Backfill excavations with suitable excavated materials  | 74               |                    | cu.m. |   |            |
| 2.3.2         | Gravel base   | 5                |                    | cu.m. |   |            |
| 2.4           | Soil Disposal   |                  |                    |       |   |            |
| 2.4.1         | Remove surplus excavated material from site   | 15               |                    | cu.m. |   |            |
| 2.5           | Subgrade Preparation  | 31               |                    | sq.m. |   |            |
| 2.6           | Anti-termite treatment to surfaces of ground and sides and bottoms of excavations   | 41               |                    | sq.m. |   |            |
|               | <b>Total "DIV-02" - SITE CONSTRUCTION</b>   |                  |                    |       |   |            |
| <b>DIV-03</b> | <b>CONCRETE WORKS</b>   |                  |                    |       |   |            |
| <b>3.1</b>    | <b>Cast-In-Place Structural Concrete</b>  |                  |                    |       |   |            |
| 3.1.1         | Reinforced concrete; 280 kg/cm2 or 4000 psi or 27.60 Mpa  |                  |                    |       |   |            |
| 1             | Columns and Beams   | 3                |                    | cu.m. |   |            |
| 2             | Suspended Slab  | 2                |                    | cu.m. |   |            |
| 3             | Slab-on-grade   | 12               |                    | cu.m. |   |            |
| 4             | Walls   | 20               |                    | cu.m. |   |            |
| 3.1.2         | Reinforced concrete; 3000 psi or 21 Mpa   |                  |                    |       |   |            |
| 1             | Parapet/ Canopy   | 1                |                    | cu.m. |   |            |
| <b>3.2</b>    | <b>Reinforcement in concrete</b>  |                  |                    |       |   |            |
| 3.2.1         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 60   |                  |                    |       |   |            |
| 1             | Columns and Beams   | 341              |                    | kg.   |   |            |
| 3.2.2         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 40   |                  |                    |       |   |            |
| 1             | Columns and Beams   | 313              |                    | kg.   |   |            |
| 2             | Suspended Slab  | 63               |                    | kg.   |   |            |
| 3             | Slab-on-grade   | 507              |                    | kg.   |   |            |
| 4             | Walls   | 869              |                    | kg.   |   |            |
| 5             | Parapet/ Canopy   | 63               |                    | kg.   |   |            |
| <b>3.3</b>    | <b>Formwork</b>   |                  |                    |       |   |            |
| 1             | Columns and Beams   | 29               |                    | sq.m. |   |            |
| 2             | Suspended Slab  | 3                |                    | sq.m. |   |            |
| 3             | Slab-on-grade   | 10               |                    | sq.m. |   |            |
| 4             | Walls   | 8                |                    | sq.m. |   |            |
| 5             | Parapet/ Canopy   | 21               |                    | sq.m. |   |            |
|               | <b>Total "DIV-03" - CONCRETE WORKS</b>  |                  |                    |       |   |            |
| <b>DIV-04</b> | <b>MASONRY WORKS</b>  |                  |                    |       |   |            |
| 4.1           | Masonry Grout   |                  |                    |       |   |            |
| 1             | Concrete Block Cores, 2500 PSI  | 4                |                    | cu.m. |   |            |
| 4.2           | Concrete stiffener columns and bond / lintel beams inclusive of formworks and steel reinforcement, Grade 275 (Grade 40)   | 1                |                    | cu.m. |   |            |
| 4.3           | CHB Steel Reinforcement, Grade 40 PNS 275 with Ga.16 G.I. Tie Wire  | 160              |                    | kg.   |   |            |
| 4.4           | Concrete Masonry Units  |                  |                    |       |   |            |
| 1             | CHB, 150mm thk. Load Bearing (700 psi)- exterior  | 45               |                    | sq.m. |   |            |
| 2             | Louver Blocks   | 3                |                    | sq.m. |   |            |
|               | <b>Total "DIV-04" - MASONRY WORKS</b>   |                  |                    |       |   |            |
| <b>DIV-07</b> | <b>THERMAL AND MOISTURE PROTECTION</b>  |                  |                    |       |   |            |
| 7.1           | <b>Dampproofing and Waterproofing</b>   |                  |                    |       |   |            |
| 7.1.1         | Dampproofing vapor barriers, 1 layer 6 mils thick   | 31               |                    | sq.m. |   |            |
| 7.2           | Insulation  |                  |                    |       |   |            |
| 1             | Roof Sprayed Polyurethane Foam Insulation system Seamless type with Flexible Acrylic Waterproofing including Surface Preparation and other consumable accessories to complete | 18               |                    | sq.m. |   |            |

| ITEM NO.      | DESCRIPTION  | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|---------------|--|---------------|-----------------|-------|---|------------|
|               | <b>Total "DIV-07"-THERMAL AND MOISTURE PROTECTION</b>  |               |                 |       |   |            |
| <b>DIV-08</b> | <b>DOORS AND WINDOWS</b>   |               |                 |       |   |            |
| <b>8.1</b>    | <b>DOORS</b>   |               |                 |       |   |            |
| 8.1.1         | <b>WPC LOUVER DOORS</b>  |               |                 |       |   |            |
| 8.1.1.1       | Louvered wood plastic composite (WPC) door on metal frame including WPC door jamb                |               |                 |       |   |            |
| 1             | 1600mm x 2100mm  | 1             |                 | set   |   |            |
|               | <b>Sub-total 8.1 - Doors</b>   |               |                 |       |   |            |
| <b>8.3</b>    | <b>Hardwares</b>   |               |                 |       |   |            |
| 8.3.1         | Lockset  |               |                 |       |   |            |
| 1             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 1, UL Certified, 6-Pins, satin chrome finish | 1             |                 | set   |   |            |
| 2             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 2, UL Certified, 6-Pins, satin chrome finish | 1             |                 | set   |   |            |
| 8.3.2         | <b>HINGES:</b>   |               |                 |       |   |            |
| 1             | BA4F 4.5 x 4 x 3.4 x 4BB Full Mortise ANSI Templated Hinge High Frequency, 304 SSS               | 4             |                 | pair  |   |            |
| 8.3.3         | <b>CLOSER:</b>   |               |                 |       |   |            |
| 1             | Surface mounted door closer with standard arm, silver finish                                     | 2             |                 | set   |   |            |
| 8.3.4         | <b>Accessories</b>   |               |                 |       |   |            |
| 1             | Manual Flushbolt, 12" long, SSS  | 2             |                 | set   |   |            |
|               | <b>Sub-total 8.3 - Hardwares</b>   |               |                 |       |   |            |
|               | <b>Total "DIV-08" - DOORS AND WINDOWS</b>  |               |                 |       |   |            |
| <b>DIV-09</b> | <b>FINISHES</b>  |               |                 |       |   |            |
| 9.1           | <b>Floor Finishes</b>  |               |                 |       |   |            |
| 9.1.9         | Plain Cement Floor Finish  | 15            |                 | sq.m. |   |            |
|               | <b>Sub-total - Floor Finishes</b>  |               |                 |       |   |            |
| <b>9.2</b>    | <b>Wall Finishes</b>   |               |                 |       |   |            |
| 9.2.1         | Plain Cement Wall Finish (exterior)  | 57            |                 | sq.m. |   |            |
| 9.2.2         | Plain Cement Wall Finish (interior)  | 43            |                 | sq.m. |   |            |
|               | <b>Sub-total - Wall Finishes</b>   |               |                 |       |   |            |
| <b>9.3</b>    | <b>Ceiling Finishes</b>  |               |                 |       |   |            |
| 9.3.1         | Rubbed concrete ceiling finish   | 30            |                 | sq.m. |   |            |
|               | <b>Sub-total - Ceiling Finishes</b>  |               |                 |       |   |            |
| <b>9.4</b>    | <b>Baseboard Finishes/ Stair Nosing</b>  |               |                 |       |   |            |
| 9.4.1         | Baseboard Finishes   |               |                 |       |   |            |
| 1             | 100mm thick painted strip base   | 33            |                 | l.m.  |   |            |
|               | <b>Sub-total - Baseboard Finishes</b>  |               |                 |       |   |            |
| <b>9.5</b>    | <b>Painting Works</b>  |               |                 |       |   |            |
| 9.5.1         | <b>At Wall</b>   |               |                 |       |   |            |
| 1             | Painting of Masonry/Concrete Surfaces, interior, plain finish                                    | 43            |                 | sq.m. |   |            |
| 2             | Painting on Exterior Wall Surfaces, plain finish   | 43            |                 | sq.m. |   |            |
| 9.5.2         | <b>At Ceiling</b>  |               |                 |       |   |            |
| 1             | Painting on exposed concrete ceiling surfaces  | 30            |                 | sq.m. |   |            |
|               | <b>Sub-total - Painting</b>  |               |                 |       |   |            |
|               | <b>Total "DIV-09" - FINISHES</b>   |               |                 |       |   |            |
| <b>DIV-13</b> | <b>SPECIAL CONSTRUCTION</b>  |               |                 |       |   |            |
| <b>13.2</b>   | <b>Fire Protection Works</b>   |               |                 |       |   |            |
| 1             | CO2 Type self expelling 4.5kg (FE-03)  | 1             |                 | ea    |   |            |
|               | <b>Total 13.2 - Fire Protection Works</b>  |               |                 |       |   |            |
|               | <b>TOTAL DIV-13 - SPECIAL CONSTRUCTION</b>   |               |                 |       |   |            |
| <b>DIV-16</b> | <b>ELECTRICAL</b>  |               |                 |       |   |            |
| <b>16.1</b>   | <b>GROUNDING SYSTEM</b>  |               |                 |       |   |            |
| 16.1.1        | Ground Well (320x320x190 mm)   | 1             |                 | ea    |   |            |



| ITEM NO.    | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|-------------|---|------------------|--------------------|-------|---|------------|
| 16.1.2      | Ground Rod Copper Clad Steel 20mm DIA x 3m LONG   | 4                |                    | ea    |   |            |
| 16.1.3      | 100mm <sup>2</sup> Bare Copper Wire   | 29               |                    | l.m.  |   |            |
| 16.1.4      | 50mm <sup>2</sup> Bare Copper Wire  | 13               |                    | l.m.  |   |            |
| 16.1.5      | Exothermic Weld Kit (100-50)  |                  |                    |       |   |            |
| 1           | A) Exothermic Mold 100/50   | 1                |                    | ea    |   |            |
| 2           | B) Powder #90   | 4                |                    | ea    |   |            |
| 16.1.6      | Exothermic Weld Kit (WIRE-ROD)  |                  |                    |       |   |            |
| 1           | A) Exothermic Mold 20/100   | 1                |                    | ea    |   |            |
| 2           | B) Powder #115  | 4                |                    | ea    |   |            |
|             | <b>Total 16.1 - GROUNDING SYSTEM</b>  |                  |                    |       |   |            |
|             |   |                  |                    |       |   |            |
| <b>16.2</b> | <b>INTERIOR DISTRIBUTION SYSTEM</b>   |                  |                    |       |   |            |
| 16.2.1      | Conduit & Fittings  |                  |                    |       |   |            |
| 1           | 20mm dia Weather Cap  | 1                |                    | ea    |   |            |
| 2           | 20mm dia IMC with coupling  | 6                |                    | l.m.  |   |            |
| 3           | 20mm dia PVC with coupling  | 6                |                    | l.m.  |   |            |
| 4           | 20mm dia Locknut and Bushing  | 6                |                    | pair  |   |            |
| 5           | C-Clamp with Screw, Expansion Bolt, Channel Support and other accessories   | 1                |                    | lot   |   |            |
| 16.2.2      | Wires and Cables  |                  |                    |       |   |            |
| 1           | 8mm <sup>2</sup> THWN   | 10               |                    | l.m.  |   |            |
| 2           | 3.5mm <sup>2</sup> THWN   | 6                |                    | l.m.  |   |            |
| 3           | 5.5mm <sup>2</sup> TW   | 5                |                    | l.m.  |   |            |
| 4           | 3.5mm <sup>2</sup> TW   | 3                |                    | l.m.  |   |            |
| 16.2.3      | Boxes   |                  |                    |       |   |            |
| 1           | Utility box   | 1                |                    | ea    |   |            |
| 16.2.4      | Wiring Devices  |                  |                    |       |   |            |
| 1           | Duplex Receptacle, 2P, 16A, 3W, 250V, flush mounted grounding type, complete with plate cover and other incidentals | 1                |                    | set   |   |            |
| 16.2.5      | Panelboards and Protective Devices (With Solid Neutral and Ground Bus)  |                  |                    |       |   |            |
| 1           | PNL '8DP' NEMA-3R ENCLOSURE   | 1                |                    | set   |   |            |
|             | Main : 4P, 60AT 100AF 18 KAIC   |                  |                    |       |   |            |
|             | Brs: 5- 2P, 30AT 100AF  |                  |                    |       |   |            |
|             | 7 - 2P, 20AT 100AF  |                  |                    |       |   |            |
| 16.2.6      | INTERIOR LIGHTING   |                  |                    |       |   |            |
| 16.2.6.1    | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials                          |                  |                    |       |   |            |
| 1           | 20mm dia IMC conduit with coupling  | 5                |                    | l.m.  |   |            |
| 2           | 20mm dia Locknut & Bushing  | 4                |                    | pair  |   |            |
| 16.2.6.2    | Boxes/Pull Boxes  |                  |                    |       |   |            |
| 1           | Utility Box   | 1                |                    | ea    |   |            |
| 2           | Junction Box  | 2                |                    | ea    |   |            |
| 16.2.6.3    | Wires and Cables drawn into conduit including splices, terminations, etc.   |                  |                    |       |   |            |
| 1           | 3.5mm <sup>2</sup> THHN   | 15               |                    | l.m.  |   |            |
| 16.2.6.4    | Wiring Devices  |                  |                    |       |   |            |
| 1           | Light Switch, flush mounted, 1pole in one gang, 15A, 250V   | 1                |                    | set   |   |            |
| 16.2.6.5    | Lighting Fixtures   |                  |                    |       |   |            |
| 1           | 1 x 36W Linear Fluorescent or LED Equivalent in Water and Dust Tight Housing  | 2                |                    | set   |   |            |
|             | <b>Total 16.2 - INTERIOR DISTRIBUTION SYSTEM</b>  |                  |                    |       |   |            |
|             | <b>TOTAL DIV-16 - ELECTRICAL WORKS</b>  |                  |                    |       |   |            |
|             |   |                  |                    |       |   |            |



Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
**PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY**  
 PCA Annex Building, Elliptical Road, Diliman, Quezon City

**BILL OF QUANTITIES**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO. | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|----------|---|------------------|--------------------|-------|---|------------|
| 6.0      | <b>BUILDING WORKS</b>                                   |                  |                    |       |   |            |
| 6.7.2    | <b>WASTE WATER TREATMENT FACILITY-2 (A = 31.00 SM)</b>  |                  |                    |       |   |            |
| DIV-02   | SITE CONSTRUCTION                                       | 1                |                    | l.s.  |   |            |
| DIV-03   | CONCRETE WORKS  | 1                |                    | l.s.  |   |            |
| DIV-04   | MASONRY WORKS   | 1                |                    | l.s.  |   |            |
| DIV-07   | THERMAL AND MOISTURE PROTECTION                         | 1                |                    | l.s.  |   |            |
| DIV-08   | DOORS AND WINDOWS                                       | 1                |                    | l.s.  |   |            |
| DIV-09   | FINISHES  | 1                |                    | l.s.  |   |            |
| DIV-13   | SPECIAL CONSTRUCTION                                    |                  |                    |       |   |            |
| 13.2     | Fire Protection Works                                   | 1                |                    | l.s.  |   |            |
| DIV 16   | ELECTRICAL WORKS  | 1                |                    | l.s.  |   |            |
|          |   |                  |                    |       |   |            |
|          | <b>Total "6.7.2" - WASTE WATER TREATMENT FACILITY-2</b> |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
| <b>6.0</b>    | <b>BUILDING WORKS</b>   |                  |                    |       |   |            |
| <b>6.7.2</b>  | <b>WASTE WATER TREATMENT FACILITY-1</b>   |                  |                    |       |   |            |
| <b>DIV-02</b> | <b>SITE CONSTRUCTION</b>  |                  |                    |       |   |            |
| 2.1           | Building Layout   | 31               |                    | sq.m. |   |            |
| 2.2           | Structure Excavation  | 89               |                    | cu.m. |   |            |
| 2.3           | Backfilling and filling   |                  |                    |       |   |            |
| 2.3.1         | Backfill excavations with suitable excavated materials  | 74               |                    | cu.m. |   |            |
| 2.3.2         | Gravel base   | 5                |                    | cu.m. |   |            |
| 2.4           | Soil Disposal   |                  |                    |       |   |            |
| 2.4.1         | Remove surplus excavated material from site   | 15               |                    | cu.m. |   |            |
| 2.5           | Subgrade Preparation  | 31               |                    | sq.m. |   |            |
| 2.6           | Anti-termite treatment to surfaces of ground and sides and bottoms of excavations   | 41               |                    | sq.m. |   |            |
|               | <b>Total "DIV-02" - SITE CONSTRUCTION</b>   |                  |                    |       |   |            |
| <b>DIV-03</b> | <b>CONCRETE WORKS</b>   |                  |                    |       |   |            |
| <b>3.1</b>    | <b>Cast-In-Place Structural Concrete</b>  |                  |                    |       |   |            |
| 3.1.1         | Reinforced concrete; 280 kg/cm2 or 4000 psi or 27.60 Mpa  |                  |                    |       |   |            |
| 1             | Columns and Beams   | 3                |                    | cu.m. |   |            |
| 2             | Suspended Slab  | 2                |                    | cu.m. |   |            |
| 3             | Slab-on-grade   | 12               |                    | cu.m. |   |            |
| 4             | Walls   | 20               |                    | cu.m. |   |            |
| 3.1.2         | Reinforced concrete; 3000 psi or 21 Mpa   |                  |                    |       |   |            |
| 1             | Parapet/ Canopy   | 1                |                    | cu.m. |   |            |
| <b>3.2</b>    | <b>Reinforcement in concrete</b>  |                  |                    |       |   |            |
| 3.2.1         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 60   |                  |                    |       |   |            |
| 1             | Columns and Beams   | 341              |                    | kg.   |   |            |
| 3.2.2         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 40   |                  |                    |       |   |            |
| 1             | Columns and Beams   | 313              |                    | kg.   |   |            |
| 2             | Suspended Slab  | 63               |                    | kg.   |   |            |
| 3             | Slab-on-grade   | 507              |                    | kg.   |   |            |
| 4             | Walls   | 869              |                    | kg.   |   |            |
| 5             | Parapet/ Canopy   | 63               |                    | kg.   |   |            |
| <b>3.3</b>    | <b>Formwork</b>   |                  |                    |       |   |            |
| 1             | Columns and Beams   | 29               |                    | sq.m. |   |            |
| 2             | Suspended Slab  | 3                |                    | sq.m. |   |            |
| 3             | Slab-on-grade   | 10               |                    | sq.m. |   |            |
| 4             | Walls   | 8                |                    | sq.m. |   |            |
| 5             | Parapet/ Canopy   | 21               |                    | sq.m. |   |            |
|               | <b>Total "DIV-03" - CONCRETE WORKS</b>  |                  |                    |       |   |            |
| <b>DIV-04</b> | <b>MASONRY WORKS</b>  |                  |                    |       |   |            |
| 4.1           | Masonry Grout   |                  |                    |       |   |            |
| 1             | Concrete Block Cores, 2500 PSI  | 4                |                    | cu.m. |   |            |
| 4.2           | Concrete stiffener columns and bond / lintel beams inclusive of formworks and steel reinforcement, Grade 275 (Grade 40)   | 1                |                    | cu.m. |   |            |
| 4.3           | CHB Steel Reinforcement, Grade 40 PNS 275 with Ga.16 G.I. Tie Wire  | 160              |                    | kg.   |   |            |
| 4.4           | Concrete Masonry Units  |                  |                    |       |   |            |
| 1             | CHB, 150mm thk. Load Bearing (700 psi)- exterior  | 45               |                    | sq.m. |   |            |
| 2             | Louver Blocks   | 3                |                    | sq.m. |   |            |
|               | <b>Total "DIV-04" - MASONRY WORKS</b>   |                  |                    |       |   |            |
| <b>DIV-07</b> | <b>THERMAL AND MOISTURE PROTECTION</b>  |                  |                    |       |   |            |
| 7.1           | <b>Dampproofing and Waterproofing</b>   |                  |                    |       |   |            |
| 7.1.1         | Dampproofing vapor barriers, 1 layer 6 mils thick   | 31               |                    | sq.m. |   |            |
| 7.2           | Insulation  |                  |                    |       |   |            |
| 1             | Roof Sprayed Polyurethane Foam Insulation system Seamless type with Flexible Acrylic Waterproofing including Surface Preparation and other consumable accessories to complete | 18               |                    | sq.m. |   |            |

| ITEM NO.      | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|--|------------------|--------------------|-------|---|------------|
|               | <b>Total "DIV-07"-THERMAL AND MOISTURE PROTECTION</b>  |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-08</b> | <b>DOORS AND WINDOWS</b>   |                  |                    |       |   |            |
| <b>8.1</b>    | <b>DOORS</b>   |                  |                    |       |   |            |
| 8.1.1         | <b>WPC LOUVER DOORS</b>  |                  |                    |       |   |            |
| 8.1.1.1       | Louvered wood plastic composite (WPC) door on metal frame including WPC door jamb                |                  |                    |       |   |            |
| 1             | 1600mm x 2100mm  | 1                |                    | set   |   |            |
|               | <b>Sub-total 8.1 - Doors</b>   |                  |                    |       |   |            |
| <b>8.3</b>    | <b>Hardware</b>  |                  |                    |       |   |            |
| 8.3.1         | Lockset  |                  |                    |       |   |            |
| 1             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 1, UL Certified, 6-Pins, satin chrome finish | 1                |                    | set   |   |            |
| 2             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 2, UL Certified, 6-Pins, satin chrome finish | 1                |                    | set   |   |            |
| 8.3.2         | HINGES:  |                  |                    |       |   |            |
| 1             | BA4F 4.5 x 4 x 3.4 x 4BB Full Mortise ANSI Templated Hinge High Frequency, 304 SSS               | 4                |                    | pair  |   |            |
| 8.3.3         | CLOSER:  |                  |                    |       |   |            |
| 1             | Surface mounted door closer with standard arm, silver finish                                     | 2                |                    | set   |   |            |
| 8.3.4         | Accessories  |                  |                    |       |   |            |
| 1             | Manual Flushbolt, 12" long, SSS  | 2                |                    | set   |   |            |
|               | <b>Sub-total 8.3 - Hardware</b>  |                  |                    |       |   |            |
|               | <b>Total "DIV-08" - DOORS AND WINDOWS</b>  |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-09</b> | <b>FINISHES</b>  |                  |                    |       |   |            |
| <b>9.1</b>    | <b>Floor Finishes</b>  |                  |                    |       |   |            |
| 9.1.9         | Plain Cement Floor Finish  | 15               |                    | sq.m. |   |            |
|               | <b>Sub-total - Floor Finishes</b>  |                  |                    |       |   |            |
| <b>9.2</b>    | <b>Wall Finishes</b>   |                  |                    |       |   |            |
| 9.2.1         | Plain Cement Wall Finish (exterior)  | 57               |                    | sq.m. |   |            |
| 9.2.2         | Plain Cement Wall Finish (interior)  | 43               |                    | sq.m. |   |            |
|               | <b>Sub-total - Wall Finishes</b>   |                  |                    |       |   |            |
| <b>9.3</b>    | <b>Ceiling Finishes</b>  |                  |                    |       |   |            |
| 9.3.1         | Rubbed concrete ceiling finish   | 30               |                    | sq.m. |   |            |
|               | <b>Sub-total - Ceiling Finishes</b>  |                  |                    |       |   |            |
| <b>9.4</b>    | <b>Baseboard Finishes/ Stair Nosing</b>  |                  |                    |       |   |            |
| 9.4.1         | Baseboard Finishes   |                  |                    |       |   |            |
| 1             | 100mm thick painted strip base   | 33               |                    | l.m.  |   |            |
|               | <b>Sub-total - Baseboard Finishes</b>  |                  |                    |       |   |            |
| <b>9.5</b>    | <b>Painting Works</b>  |                  |                    |       |   |            |
| 9.5.1         | <b>At Wall</b>   |                  |                    |       |   |            |
| 1             | Painting of Masonry/Concrete Surfaces, interior, plain finish                                    | 43               |                    | sq.m. |   |            |
| 2             | Painting on Exterior Wall Surfaces, plain finish   | 43               |                    | sq.m. |   |            |
| 9.5.2         | <b>At Ceiling</b>  |                  |                    |       |   |            |
| 1             | Painting on exposed concrete ceiling surfaces  | 30               |                    | sq.m. |   |            |
|               | <b>Sub-total - Painting</b>  |                  |                    |       |   |            |
|               | <b>Total "DIV-09" - FINISHES</b>   |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-13</b> | <b>SPECIAL CONSTRUCTION</b>  |                  |                    |       |   |            |
| <b>13.2</b>   | <b>Fire Protection Works</b>   |                  |                    |       |   |            |
| 1             | CO2 Type self expelling 4.5kg (FE-03)  | 1                |                    | ea    |   |            |
|               | <b>Total 13.2 - Fire Protection Works</b>  |                  |                    |       |   |            |
|               | <b>TOTAL DIV-13 - SPECIAL CONSTRUCTION</b>   |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-16</b> | <b>ELECTRICAL</b>  |                  |                    |       |   |            |
| <b>16.1</b>   | <b>GROUNDING SYSTEM</b>  |                  |                    |       |   |            |
| 16.1.1        | Ground Well (320x320x190 mm)   | 1                |                    | ea    |   |            |
| 16.1.2        | Ground Rod Copper Clad Steel 20mm DIA x 3m LONG  | 4                |                    | ea    |   |            |

| ITEM NO.    | DESCRIPTION   | PFDA QUANTITY | BIDDER QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost & Mark-ups & Value Added Tax) | TOTAL COST |
|-------------|---|---------------|-----------------|-------|---|------------|
| 16.1.3      | 100mm <sup>2</sup> Bare Copper Wire   | 29            |                 | l.m.  |   |            |
| 16.1.4      | 50mm <sup>2</sup> Bare Copper Wire  | 13            |                 | l.m.  |   |            |
| 16.1.5      | Exothermic Weld Kit (100-50)  |               |                 |       |   |            |
| 1           | A) Exothermic Mold 100/50   | 1             |                 | ea    |   |            |
| 2           | B) Powder #90   | 4             |                 | ea    |   |            |
| 16.1.6      | Exothermic Weld Kit (WIRE-ROD)  |               |                 |       |   |            |
| 1           | A) Exothermic Mold 20/100   | 1             |                 | ea    |   |            |
| 2           | B) Powder #115  | 4             |                 | ea    |   |            |
|             | <b>Total 16.1 - GROUNDING SYSTEM</b>  |               |                 |       |   |            |
|             |   |               |                 |       |   |            |
| <b>16.2</b> | <b>INTERIOR DISTRIBUTION SYSTEM</b>   |               |                 |       |   |            |
| 16.2.1      | Conduit & Fittings  |               |                 |       |   |            |
| 1           | 20mm dia Weather Cap  | 1             |                 | ea    |   |            |
| 2           | 20mm dia IMC with coupling  | 6             |                 | l.m.  |   |            |
| 3           | 20mm dia PVC with coupling  | 6             |                 | l.m.  |   |            |
| 4           | 20mm dia Locknut and Bushing  | 6             |                 | pair  |   |            |
| 5           | C-Clamp with Screw, Expansion Bolt, Channel Support and other accessories   | 1             |                 | lot   |   |            |
| 16.2.2      | Wires and Cables  |               |                 |       |   |            |
| 1           | 8mm <sup>2</sup> THWN   | 10            |                 | l.m.  |   |            |
| 2           | 3.5mm <sup>2</sup> THWN   | 6             |                 | l.m.  |   |            |
| 3           | 5.5mm <sup>2</sup> TW   | 5             |                 | l.m.  |   |            |
| 4           | 3.5mm <sup>2</sup> TW   | 3             |                 | l.m.  |   |            |
| 16.2.3      | Boxes   |               |                 |       |   |            |
| 1           | Utility box   | 1             |                 | ea    |   |            |
| 16.2.4      | Wiring Devices  |               |                 |       |   |            |
| 1           | Duplex Receptacle, 2P, 16A, 3W, 250V, flush mounted grounding type, complete with plate cover and other incidentals | 1             |                 | set   |   |            |
| 16.2.5      | Panelboards and Protective Devices (With Solid Neutral and Ground Bus)  |               |                 |       |   |            |
| 1           | PNL '8DP' NEMA-3R ENCLOSURE   | 1             |                 | set   |   |            |
|             | Main : 4P, 60AT 100AF 18 KAIC   |               |                 |       |   |            |
|             | Brs: 5- 2P, 30AT 100AF  |               |                 |       |   |            |
|             | 7 - 2P, 20AT 100AF  |               |                 |       |   |            |
| 16.2.6      | INTERIOR LIGHTING   |               |                 |       |   |            |
| 16.2.6.1    | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials                          |               |                 |       |   |            |
| 1           | 20mm dia IMC conduit with coupling  | 5             |                 | l.m.  |   |            |
| 2           | 20mm dia Locknut & Bushing  | 4             |                 | pair  |   |            |
| 16.2.6.2    | Boxes/Pull Boxes  |               |                 |       |   |            |
| 1           | Utility Box   | 1             |                 | ea    |   |            |
| 2           | Junction Box  | 2             |                 | ea    |   |            |
| 16.2.6.3    | Wires and Cables drawn into conduit including splices, terminations, etc.   |               |                 |       |   |            |
| 1           | 3.5mm <sup>2</sup> THHN   | 15            |                 | l.m.  |   |            |
| 16.2.6.4    | Wiring Devices  |               |                 |       |   |            |
| 1           | Light Switch, flush mounted, 1pole in one gang, 15A, 250V   | 1             |                 | set   |   |            |
| 16.2.6.5    | Lighting Fixtures   |               |                 |       |   |            |
| 1           | 1 x 36W Linear Fluorescent or LED Equivalent in Water and Dust Tight Housing  | 2             |                 | set   |   |            |
|             | <b>Total 16.2 - INTERIOR DISTRIBUTION SYSTEM</b>  |               |                 |       |   |            |
|             | <b>TOTAL DIV-16 - ELECTRICAL WORKS</b>  |               |                 |       |   |            |
|             |   |               |                 |       |   |            |



Republic of the Philippines  
**DEPARTMENT OF AGRICULTURE**  
**PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY**  
 PCA Annex Building, Elliptical Road, Diliman, Quezon City

**BILL OF QUANTITIES**

**CONSTRUCTION, REHABILITATION AND IMPROVEMENT OF THE ILOILO FISH PORT COMPLEX**  
 Brgy. Tanza, Iloilo City

| ITEM NO.   | DESCRIPTION                                       | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|------------|---|------------------|--------------------|-------|---|------------|
| <b>6.0</b> | <b>BUILDING WORKS</b>                             |                  |                    |       |   |            |
| <b>6.8</b> | <b>SEA WATER BOOSTER PUMP HOUSE (A= 5.00 SM)</b>  |                  |                    |       |   |            |
| DIV-02     | SITE CONSTRUCTION                                 | 1                |                    | l.s.  |   |            |
| DIV-03     | CONCRETE WORKS                                    | 1                |                    | l.s.  |   |            |
| DIV-04     | MASONRY WORKS                                     | 1                |                    | l.s.  |   |            |
| DIV-07     | THERMAL AND MOISTURE PROTECTION                   | 1                |                    | l.s.  |   |            |
| DIV-08     | DOORS AND WINDOWS                                 | 1                |                    | l.s.  |   |            |
| DIV-09     | FINISHES  | 1                |                    | l.s.  |   |            |
| DIV-13     | SPECIAL CONSTRUCTION                              |                  |                    |       |   |            |
| 13.2       | Fire Protection Works                             | 1                |                    | l.s.  |   |            |
| DIV-15     | MECHANICAL WORKS                                  |                  |                    |       |   |            |
| 15.1       | PLUMBING WORKS                                    | 1                |                    | l.s.  |   |            |
| DIV 16     | ELECTRICAL WORKS                                  | 1                |                    | l.s.  |   |            |
|            |   |                  |                    |       |   |            |
|            | <b>Total "6.8" - SEA WATER BOOSTER PUMP HOUSE</b> |                  |                    |       |   |            |

| ITEM NO.      | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|---|------------------|--------------------|-------|---|------------|
|               |   |                  |                    |       |   |            |
| 6.0           | <b>BUILDING WORKS</b>   |                  |                    |       |   |            |
| 6.8           | <b>SEA WATER BOOSTER PUMP HOUSE</b>   |                  |                    |       |   |            |
| <b>DIV-02</b> | <b>SITE CONSTRUCTION</b>  |                  |                    |       |   |            |
| 2.1           | Building Layout   | 10               |                    | sq.m. |   |            |
| 2.2           | Structure Excavation  | 2                |                    | cu.m. |   |            |
| 2.3           | Backfilling and filling   |                  |                    |       |   |            |
| 2.3.1         | Backfill excavations with suitable excavated materials  | 1                |                    | cu.m. |   |            |
| 2.3.2         | Gravel base   | 1                |                    | cu.m. |   |            |
| 2.4           | Soil Disposal   |                  |                    |       |   |            |
| 2.4.1         | Remove surplus excavated material from site   | 1                |                    | cu.m. |   |            |
| 2.5           | Subgrade Preparation  | 5                |                    | sq.m. |   |            |
| 2.6           | Anti-termite treatment to surfaces of ground and sides and bottoms of excavations   | 12               |                    | sq.m. |   |            |
|               | <b>Total "DIV-02" - SITE CONSTRUCTION</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-03</b> | <b>CONCRETE WORKS</b>   |                  |                    |       |   |            |
| 3.1           | <b>Cast-In-Place Structural Concrete</b>  |                  |                    |       |   |            |
| 3.1.1         | Reinforced concrete; 280 kg/cm2 or 4000 psi or 27.60 Mpa  |                  |                    |       |   |            |
| 1             | Slab/ Columns/ Beams  | 3                |                    | cu.m. |   |            |
| 3.2           | <b>Reinforcement in concrete</b>  |                  |                    |       |   |            |
| 3.2.1         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 60   |                  |                    |       |   |            |
| 1             | Slab/ Columns/ Beams  | 128              |                    | kg.   |   |            |
| 3.2.2         | Steel bar reinforcement including cutting and bending, links, stirrups, binders, and tie wires, etc; grade 40   |                  |                    |       |   |            |
| 1             | Slab/ Columns/ Beams  | 291              |                    | kg.   |   |            |
| 3.3           | <b>Formwork</b>   |                  |                    |       |   |            |
| 1             | Slab/ Columns/ Beams  | 24               |                    | sq.m. |   |            |
|               | <b>Total "DIV-03" - CONCRETE WORKS</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-04</b> | <b>MASONRY WORKS</b>  |                  |                    |       |   |            |
| 4.1           | Masonry Grout   |                  |                    |       |   |            |
| 1             | Concrete Block Cores, 2500 PSI  | 1                |                    | cu.m. |   |            |
| 4.2           | Concrete stiffener columns and bond / lintel beams inclusive of formworks and steel reinforcement, Grade 275 (Grade 40)   | 1                |                    | cu.m. |   |            |
| 4.3           | CHB Steel Reinforcement, Grade 40 PNS 275 with Ga.16 G.I. Tie Wire  | 36               |                    | kg.   |   |            |
| 4.4           | Concrete Masonry Units  |                  |                    |       |   |            |
| 1             | CHB, 150mm thk. Load Bearing (700 psi)- exterior  | 10               |                    | sq.m. |   |            |
|               | <b>Total "DIV-04" - MASONRY WORKS</b>   |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-07</b> | <b>THERMAL AND MOISTURE PROTECTION</b>  |                  |                    |       |   |            |
| 7.1           | <b>Dampproofing and Waterproofing</b>   |                  |                    |       |   |            |
| 7.1.1         | Dampproofing vapor barriers, 1 layer 6 mils thick   | 6                |                    | sq.m. |   |            |
| 7.2           | Insulation  |                  |                    |       |   |            |
| 1             | Roof Sprayed Polyurethane Foam Insulation system Seamless type with Flexible Acrylic Waterproofing including Surface Preparation and other consumable accessories to complete | 6                |                    | sq.m. |   |            |
|               | <b>Total "DIV-07"- THERMAL AND MOISTURE PROTECTION</b>  |                  |                    |       |   |            |
|               |   |                  |                    |       |   |            |
| <b>DIV-08</b> | <b>DOORS AND WINDOWS</b>  |                  |                    |       |   |            |
| 8.1           | <b>DOORS</b>  |                  |                    |       |   |            |
| 8.1.1         | <b>WPC LOUVER DOORS</b>   |                  |                    |       |   |            |
| 8.1.1.1       | Louvered wood plastic composite (WPC) door on metal frame including WPC door jamb   |                  |                    |       |   |            |
| 1             | 2000mm x 1600mm   | 1                |                    | set   |   |            |
|               | <b>Sub-total 8.1 - Doors</b>  |                  |                    |       |   |            |
| 8.2           | <b>WINDOWS</b>  |                  |                    |       |   |            |
| 8.2.1         | Wood Plastic Composite (WPC) Window   |                  |                    |       |   |            |
| 1             | W-1, 1200mm x 470mm   | 1                |                    | set   |   |            |

| ITEM NO.      | DESCRIPTION  | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|---------------|--|------------------|--------------------|-------|---|------------|
|               | <b>Sub-total 8.2 - Windows</b>   |                  |                    |       |   |            |
| <b>8.3</b>    | <b>Hardwares</b>   |                  |                    |       |   |            |
| 8.3.1         | Lockset  |                  |                    |       |   |            |
| 1             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 1, UL Certified, 6-Pins, satin chrome finish | 1                |                    | set   |   |            |
| 2             | Cylindrical Lever Lockset, Privacy US26D ANSI Grade 2, UL Certified, 6-Pins, satin chrome finish | 1                |                    | set   |   |            |
| 8.3.2         | HINGES:  |                  |                    |       |   |            |
| 1             | BA4F 4.5 x 4 x 3.4 x 4BB Full Mortise ANSI Templated Hinge High Frequency, 304 SSS               | 4                |                    | pair  |   |            |
| 8.3.3         | CLOSER:  |                  |                    |       |   |            |
| 1             | Surface mounted door closer with standard arm, silver finish                                     | 2                |                    | set   |   |            |
| 8.3.4         | Accessories  |                  |                    |       |   |            |
| 1             | Manual Flushbolt, 12" long, SSS  | 2                |                    | set   |   |            |
|               | <b>Sub-total 8.3 - Hardwares</b>   |                  |                    |       |   |            |
|               | <b>Total "DIV-08" - DOORS AND WINDOWS</b>  |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-09</b> | <b>FINISHES</b>  |                  |                    |       |   |            |
| 9.1           | <b>Floor Finishes</b>  |                  |                    |       |   |            |
| 9.1.1         | Plain Cement Floor Finish  | 8                |                    | sq.m. |   |            |
|               | <b>Sub-total - Floor Finishes</b>  |                  |                    |       |   |            |
| 9.2           | <b>Wall Finishes</b>   |                  |                    |       |   |            |
| 9.2.1         | Plain Cement Wall Finish (exterior)  | 13               |                    | sq.m. |   |            |
| 9.2.2         | Plain Cement Wall Finish (interior)  | 12               |                    | sq.m. |   |            |
|               | <b>Sub-total - Wall Finishes</b>   |                  |                    |       |   |            |
| 9.3           | <b>Ceiling Finishes</b>  |                  |                    |       |   |            |
| 9.3.1         | Rubbed concrete ceiling finish   | 4                |                    | sq.m. |   |            |
|               | <b>Sub-total - Ceiling Finishes</b>  |                  |                    |       |   |            |
| 9.4           | <b>Painting Works</b>  |                  |                    |       |   |            |
| 9.5.1         | <b>At Wall</b>   |                  |                    |       |   |            |
| 1             | Painting of Masonry/Concrete Surfaces, interior, plain finish                                    | 12               |                    | sq.m. |   |            |
| 2             | Painting on Exterior Wall Surfaces, plain finish   | 13               |                    | sq.m. |   |            |
| 9.5.2         | <b>At Ceiling</b>  |                  |                    |       |   |            |
| 1             | Painting on exposed concrete ceiling surfaces  | 4                |                    | sq.m. |   |            |
|               | <b>Sub-total - Painting</b>  |                  |                    |       |   |            |
|               | <b>Total "DIV-09" - FINISHES</b>   |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-13</b> | <b>SPECIAL CONSTRUCTION</b>  |                  |                    |       |   |            |
| <b>13.2</b>   | <b>Fire Protection Works</b>   |                  |                    |       |   |            |
| 1             | CO2 Type self expelling 4.5kg (FE-03)  | 1                |                    | ea    |   |            |
|               | <b>Total 13.2 - Fire Protection Works</b>  |                  |                    |       |   |            |
|               | <b>TOTAL DIV-13 - SPECIAL CONSTRUCTION</b>   |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-15</b> | <b>MECHANICAL WORKS</b>  |                  |                    |       |   |            |
| <b>15.1</b>   | <b>PLUMBING SYSTEM</b>   |                  |                    |       |   |            |
|               | <b>Storm Pipes</b>   |                  |                    |       |   |            |
| 1             | uPVC Pipe, Series 1000   |                  |                    |       |   |            |
|               | 100 mm dia.  | 7                |                    | l.m.  |   |            |
| 2             | Elbow 45 DEG.  |                  |                    |       |   |            |
|               | 100 mm dia.  | 2                |                    | ea    |   |            |
| 3             | Deck Drain   |                  |                    |       |   |            |
|               | 100 mm dia.  | 1                |                    | ea    |   |            |
|               | <b>Sub-total "15.1.1" - Storm Pipes</b>  |                  |                    |       |   |            |
|               |  |                  |                    |       |   |            |
| <b>DIV-16</b> | <b>ELECTRICAL</b>  |                  |                    |       |   |            |
| <b>16.1</b>   | <b>INTERIOR DISTRIBUTION SYSTEM</b>  |                  |                    |       |   |            |
| 16.1.1        | Conduit & Fittings   |                  |                    |       |   |            |
| 1             | 20mm dia Weather Cap   | 1                |                    | ea    |   |            |
| 2             | 25mm dia IMC with coupling   | 105              |                    | lm    |   |            |
| 3             | 20mm dia IMC with coupling   | 18               |                    | lm    |   |            |
| 4             | 25mm dia Locknut and Bushing   | 4                |                    | pair  |   |            |



| ITEM NO. | DESCRIPTION   | PFDA<br>QUANTITY | BIDDER<br>QUANTITY | UNITS | UNIT COST<br>(Estimated Direct Cost &<br>Mark-ups & Value Added<br>Tax) | TOTAL COST |
|----------|---|------------------|--------------------|-------|---|------------|
| 5        | 20mm dia Locknut and Bushing  | 8                |                    | pair  |   |            |
| 6        | C-Clamp with Screw, Expansion Bolt, Channel Support and other accessories   | 1                |                    | lot   |   |            |
| 16.1.2   | Wires and Cables  |                  |                    |       |   |            |
| 1        | 8mm <sup>2</sup> THWN   | 104              |                    | lm    |   |            |
| 2        | 3.5mm <sup>2</sup> THWN   | 10               |                    | lm    |   |            |
| 3        | 5.5mm <sup>2</sup> TW   | 52               |                    | lm    |   |            |
| 16.1.3   | Boxes   |                  |                    |       |   |            |
| 1        | Utility box   | 1                |                    | ea    |   |            |
| 16.1.4   | Wiring Devices  |                  |                    |       |   |            |
| 1        | Duplex Receptacle, 2P, 16A, 3W, 250V, flush mounted grounding type, complete with plate cover and other incidentals | 1                |                    | set   |   |            |
| 16.1.5   | Panelboards and Protective Devices (With Solid Neutral and Ground Bus)  |                  |                    |       |   |            |
| 1        | ECB 2P 50AT 100AF 240V 10KAIC NEMA-1 ENCLOSURE  | 2                |                    | set   |   |            |
| 16.1.6   | INTERIOR LIGHTING   |                  |                    |       |   |            |
| 16.1.6.1 | Conduit and Fittings complete with all the necessary pullwires and miscellaneous materials                          |                  |                    |       |   |            |
| 1        | 20mm dia IMC conduit with coupling  | 3                |                    | lm    |   |            |
| 2        | 20mm dia Locknut & Bushing  | 4                |                    | pair  |   |            |
| 16.1.6.2 | Boxes/Pull Boxes  |                  |                    |       |   |            |
| 1        | Utility Box   | 1                |                    | ea    |   |            |
| 2        | Junction Box  | 1                |                    | ea    |   |            |
| 16.1.6.3 | Wires and Cables drawn into conduit including splices, terminations, etc.   |                  |                    |       |   |            |
| 1        | 3.5mm <sup>2</sup> THHN   | 18               |                    | lm    |   |            |
| 16.1.6.4 | Wiring Devices  |                  |                    |       |   |            |
| 1        | Light Switch, flush mounted, 1pole in one gang, 15A, 250V   | 1                |                    | set   |   |            |
| 16.1.6.5 | Lighting Fixtures   |                  |                    |       |   |            |
| 1        | 1 x 36 Watts Fluorescent or LED Equivalent, Industrial Type   | 1                |                    | set   |   |            |
|          | <b>Total 16.1 - INTERIOR DISTRIBUTION SYSTEM</b>  |                  |                    |       |   |            |
|          | <b>TOTAL DIV-16 - ELECTRICAL WORKS</b>  |                  |                    |       |   |            |
|          |   |                  |                    |       |   |            |

## **Section IX. Bidding Forms/ Contract Forms**

## **TABLE OF CONTENTS**

|          |   |            |
|----------|---|------------|
| <b>1</b> | <b>CHECKLIST OF ELIGIBILITY AND TECHNICAL REQUIREMENTS FOR BIDDERS</b>  | <b>87</b>  |
| <b>2</b> | <b>ELIGIBILITY AND TECHNICAL PROPOSAL FORMS</b>   | <b>92</b>  |
|          | • SF-INFR-16 – Statement Showing the Bidder’s Single Largest Completed Contract which Is similar in nature                    | 93         |
|          | • SF-INFR-15 – List of On-Going Government and Private Construction Contracts including Contracts Awarded but not yet started | 94         |
|          | • Computation of Net Financial Contracting Capacity (NFCC)  | 95         |
|          | • Joint Venture Agreement   | 96         |
|          | • Bid-Securing Declaration  | 97         |
|          | • Bid Security Form (Bank Guarantee)  | 99         |
|          | • Bid Security: Surety Bond with Certification from Insurance Commission  | 100        |
|          | • Contractor’s Organizational Chart for the Contract  | 103        |
|          | • SF-INFR-48 - Qualification of Key Personnel Proposed to be Assigned   | 104        |
|          | • Key Personnel (Format of Bio-Data/ Resume)  | 105        |
|          | • SF-INFR - 49 - List of Equipment, Owned or Leased and/or Under Purchase Agreements, Pledged to the Proposed Contract        | 107        |
|          | • SF-INFR-18 – Statement of Availability of Key Personnel and Equipment   | 108        |
|          | • Omnibus Sworn Statement   | 109        |
|          | • Affidavit of Site Inspection  | 112        |
|          | • List of Proposed Subcontractors   | 113        |
|          | • Letter of Authority to Validate Submitted Documents   | 114        |
| <b>3</b> | <b>CHECKLIST OF FINANCIAL REQUIREMENTS FOR BIDDERS</b>  | <b>115</b> |
| <b>4</b> | <b>FINANCIAL PROPOSAL FORM</b>  | <b>117</b> |
|          | • Bid Form  | 118        |

|   |            |
|---|------------|
| • Detailed Cost Estimates (Derivation of Unit Cost and Lump Sum Items)                                  | 120        |
| • Summary Sheet Indicating the Unit Prices of Construction Materials, Labor Rates and Equipment Rentals | 121        |
| • Cash Flow by Quarter and Payment Schedule   | 122        |
| <b>5 DRAFT CONTRACT</b>   | <b>123</b> |
| • Form of Contract Agreement  | 124        |
| • Draft Contract Agreement  | 125        |

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| <p><b>1. CHECKLIST OF ELIGIBILITY AND TECHNICAL<br/>REQUIREMENTS FOR BIDDERS</b></p> |
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**ELIGIBILITY AND TECHNICAL PROPOSAL**  
**CHECKLIST OF ELIGIBILITY AND TECHNICAL REQUIREMENTS FOR BIDDERS**

|   |  |
|---|--|
| 12.1(a)   | <b>ELIGIBILITY DOCUMENTS</b>   |
|   |  |
|   | <b>Class “A” Documents:</b>  |
| (i)   | PhilGEPS Certificate of Registration and Membership (Platinum membership Category)<br>Note: Each Bidder or each Partner of a Joint Venture (JV) must fill this form.   |
| <i>Note: *In case of inability to submit the PhilGEPS Certificate of Registration and Membership, the Bidder may opt to submit the following Class “A” Eligibility Documents (i.1 to (i.4):</i> |  |
| *(i.1)  | Certified True Copy of Registration Certificate from the Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship.<br>Note: Each Bidder or each Partner of a Joint Venture (JV) must fill this form  |
| *(i.2)  | Certified True Copy of valid and current Mayor’s/Business permit or its equivalent documents issued by the city or municipality where the principal place of business of the prospective bidder is located.<br>Note: Each Bidder or each Partner of a JV must fill this form.  |
| *(i.3)  | Tax Clearance per Executive Order 398, Series of 2005, as finally reviewed and approved by the BIR.  |
| *(i.4)  | Audited Financial Statement showing, among others, the prospective 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. NFCC computation in accordance with ITB Clause 5.5.<br><br>Note: In case of JV Bidder, as per Section 23.1.b) of IRR of R.A.9184: the partner responsible to submit the NFCC shall likewise submit the Statement of all its on-going contracts and Audited Financial Statements.  |
|   |  |
| (ii.1)  | SF-INFR-16<br>Duly signed Statement showing the Bidder’s Single Largest Completed Contract which are Similar in Nature to the project to be bid. The single completed contract should be at least fifty percent (50%) of the ABC. The value of which adjusted to current prices using the NSO consumer price indices.<br><br>Note: Similar contract refers to Port Project which is similar in scope and complexity to the proposed Project.<br><br>Supported by the following:<br><br>(1) Project Owner’s Certificate of Final Acceptance or Certificate of Completion issued by the Owner<br><br>(2) Whenever applicable, the CPES final rating. In case of contracts with the private sector, an equivalent document shall be submitted |

|         |  |
|---------|--|
|         | <p>(3) Contract</p> <p>Note: Each Bidder and/or any of the JV Partner/s must fill this form.</p>   |
|         |  |
| (ii.2)  | <p>SF-INFR-15</p> <p>Duly signed List of all ongoing government and private contracts, including contracts awarded but not yet started.</p> <p>Supported by the following:</p> <ul style="list-style-type: none"> <li>(1) Notices of award and/or Contract</li> <li>(2) Notice to Proceed issued by the Owners</li> <li>(3) Certificate of Accomplishments signed by the owner or Project Engineer.</li> </ul> <p>Note: Each Bidder and in case of JV Bidder, as per Section 23.1.b) of IRR of R.A.9184: the partner responsible to submit the NFCC shall likewise submit the Statement of all its on-going contracts and Audited Financial Statements.</p>  |
| (iii)   | <p>Valid Philippine Contractors Accreditation Board (PCAB) license and registration for the type and cost of the contract for the project:</p> <p>License Particular – AAA General Engineering<br/>Registration Particular – Large B for Road, Highways, Pavement, Railways, Airport horizontal structures and Bridges</p> <p>For JV, provide a JV special license issued by PCAB and not the PCAB license and registration individually issued to each JV Partner must be submitted. Failure of a JV bidder to submit a JV Special license may be a ground for its disqualification despite submission of the individual licenses of each JV Partner.</p> <p>Note: Each Bidder or JV Bidder must submit this requirement.</p> |
|         |  |
| (iv)    | <p>Net Financial Contracting Capacity (NFCC) computation of at least equal to ABC</p> <p>Note: Each Bidder and in case of JV Bidder, as per Section 23.1.b) of IRR of R.A.9184: the partner responsible to submit the NFCC shall likewise submit the Statement of all its on-going contracts and Audited Financial Statements.</p>   |
|         |  |
|         | <b>Class “B” Documents:</b>  |
|         |  |
| (v)     | <p>If applicable, valid Joint Venture Agreement (JVA) or, in lieu thereof, 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 shall be included in the bid.</p>   |
|         |  |
| 12.1(b) | <b>TECHNICAL DOCUMENTS</b>   |
|         |  |
| (i)     | <p>The Bid Security shall either be in the form and amount as stated below:</p> <p>Bid Security in accordance with ITB Clause Nos. 18 and 12.1 ([b] [i])</p>   |

|        |  |
|--------|--|
|        | <p>1. Cash, Cashier's/Manager's Check, Bank Draft/Guarantee or irrevocable letter of credit - not less than 2% of ABC = Php 18,137,688.70 or</p> <p>2. Surety Bond – not less than 5% of ABC = Php 45,344,221.75</p> <p><i>Note: Surety bond must be accompanied by OIC Certification;</i></p> <p>Bid Securing Declaration.<br/>Required: <b>120 c.d.</b> from November 7, 2019 (the date of bid opening date) which is on March 6, 2020.</p> <p>Sub-clause 18.3: Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.</p> |
| (ii)   | <b>PROJECT REQUIREMENTS, WHICH SHALL INCLUDE THE FOLLOWING:</b>  |
| (ii.1) | <p>Organizational Chart for the contract to be bid</p> <p>Indicate in the chart the names of the Contractors Key Personnel to be assigned to the contract to be bid at required under BDS 12.1(b)(ii.2) and other Key Engineering Personnel.</p>   |
| (ii.2) | <p>SF-INFR-48</p> <p>Duly signed Qualification of Personnel to be assigned to the Contract.</p> <p>Attachment:</p> <p>(1) Individual Resume, PRC License (if required)</p> <p>(2) For Material Engineer II (DPWH Accredited): Proof of DPWH Accreditation</p> <p>(3) For Safety Engineer/Officer: Certification of 40 hours training in occupational safety and health</p>   |
| (ii.3) | <p>SF-INFR-49</p> <p>Duly signed List of Equipment, Owned or Leased and Under Purchase Agreements, Pledged to the Proposed Contract.</p> <p>Note: If Owned, submit proof of ownership of eqpt (i.e. receipt, etc.)<br/>If Leased and/or under purchase agreement: submit proof of lease and/or under purchase agreement (with corresponding engine no., chassis no. and/or serial no.)</p>   |
|        | <p>SF-INFR-18</p> <p>Duly signed Statement of Availability of Key Personnel and Equipment</p>  |
| (iii)  | <p>Duly signed Omnibus Sworn Statement in accordance with Section 25.2(b)(vi) of the IRR of 9184 (includes written authorization of the signatory of the Bid to represent/commit the Firm/Bidder or Joint Venture (JV) Bidder</p> <p><b><u>Attachment:</u></b></p> <p>(1) If partnership, corporation or JV: duly notarized Secretary Certificate issued by the corporation or member of the JV</p>  |
| (iv)   | Affidavit of Site Inspection issued by authorized representative of the Owner  |



|      |  |
|------|--|
|      | for this Project   |
| (v)  | <p>List of Proposed Subcontractors</p> <p>Wherever it is proposed to use a Subcontractor for any of the work described, a letter of commitment must be submitted from each such Subcontractor, stating that they are willing to enter into subcontract with the Bidder for the Project. If awarded the Contract, the Bidder will not be permitted to change the Subcontractors unless the proposed new entity to be made responsible for the work can satisfactorily demonstrate experience at least equal to the minimum requirements stated above.</p> |
| (vi) | Letter of Authority to Validate Submitted Documents  |

## **2. ELIGIBILITY AND TECHNICAL PROPOSAL FORMS**

## SF-INFR-16 – STATEMENT SHOWING THE BIDDER’S SINGLE LARGEST COMPLETED CONTRACT WHICH IS SIMILAR IN NATURE

Business Name : \_\_\_\_\_

Business Address : \_\_\_\_\_

| Name of Contract  | a. Owner Name<br>b. Address<br>c. Telephone Nos. | Nature of Work | Contractor’s Role |   | a. Amount at Award<br>b. Amount at Completion<br>c. Duration | a. Date Awarded<br>b. Contract Effectivity<br>c. Date Completed |
|-------------------|--|----------------|-------------------|---|--|---|
|                   |  |                | Description       | % |  |   |
| <u>Government</u> |  |                |                   |   |  |   |
|                   |  |                |                   |   |  |   |
|                   |  |                |                   |   |  |   |
|                   |  |                |                   |   |  |   |
|                   |  |                |                   |   |  |   |
|                   |  |                |                   |   |  |   |
| <u>Private</u>    |  |                |                   |   |  |   |
|                   |  |                |                   |   |  |   |
|                   |  |                |                   |   |  |   |
|                   |  |                |                   |   |  |   |

Note: This statement shall be supported with:

- 1 Owner’s Certificate of Final Acceptance or the Certificate of Completion
- 2 Whenever applicable, the Constructor Performance Evaluation Summary (CPES) Final Rating which must be satisfactory.
- 3 Contract

Submitted by : \_\_\_\_\_

(Printed Name & Signature)

Designation : \_\_\_\_\_

Date : \_\_\_\_\_

## SF-INFR-15 – LIST OF ON-GOING GOVERNMENT AND PRIVATE CONSTRUCTION CONTRACTS INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED

Business Name : \_\_\_\_\_

Business Address : \_\_\_\_\_

| Name of Contract/Location<br>Project Cost | a. Owner Name<br>b. Address<br>c. Telephone Nos. | Nature of Work | Contractor's Role |   | a. Date Awarded<br>b. Date Started<br>c. Date of Completion | % of Accomplishment |        | Value of Outstanding Works |
|---|--|----------------|-------------------|---|---|---------------------|--------|----------------------------|
|   |  |                | Description       | % |   | Planned             | Actual |                            |
| <u>Government</u>                         |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
| <u>Private</u>                            |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   |                     |        |                            |
|   |  |                |                   |   |   | Total Cost          |        |                            |

Note: This statement shall be supported with:

- 1 Notice of Award and/or Contract
- 2 Notice to Proceed issued by the owner
- 3 Certificate of Accomplishments signed by the owner or Project Engineer

Submitted by : \_\_\_\_\_

(Printed Name & Signature)

Designation : \_\_\_\_\_

Date : \_\_\_\_\_

## COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

- A. Summary of the Firm's/Contractor's assets and liabilities on the basis of the audited financial statement, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent, for the immediately preceding year and a certified copy of Schedule of Fixed Assets particularly the list of construction equipment.

|    |  | Year 20__ |
|----|--|-----------|
| 1. | Total Assets                                   |           |
| 2. | Current Assets                                 |           |
| 3. | Total Liabilities                              |           |
| 4. | Current Liabilities                            |           |
| 5. | Total Net Worth (1-3)                          |           |
| 6. | Current Net Worth or Net Working Capital (2-4) |           |

- B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = [(current asset – current liabilities) (15)] minus value of all outstanding contracts including those awarded contracts but not yet started

NFCC = Php \_\_\_\_\_

Submitted by:

\_\_\_\_\_  
Name of Firm / Contractor

\_\_\_\_\_  
Signature of Authorized Representative

Date: \_\_\_\_\_

**NOTE:**

As per Section 23.1.b) of IRR of R.A.9184: For Joint Venture Bidder, the partner responsible to submit the NFCC shall likewise submit the Statement of all its on-going contracts and Audited Financial Statements.

## JOINT VENTURE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

That this JOINT VENTURE AGREEMENT is entered into by and between: \_\_\_\_\_, of legal age, (civil status), owner/proprietor of \_\_\_\_\_ and a resident of \_\_\_\_\_.

- and -

\_\_\_\_\_, of legal age, (civil status), owner/proprietor of \_\_\_\_\_ a resident of \_\_\_\_\_.

That both parties agree to join together their capital, manpower, equipment, and other resources and efforts to enable the Joint Venture to participate in the Eligibility Check, Bidding and Undertaking of the hereunder stated Contract of the Philippine Fisheries and Development Authority.

**NAME OF PROJECT**

**CONTRACT AMOUNT**

That both parties agree to be jointly and severally liable for their participation in the Eligibility Check, Bidding and Undertaking of the said contract.

That both parties agree that \_\_\_\_\_ and/or \_\_\_\_\_ shall be the Official Representative of the Joint Venture, and are granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Joint Venture in the Eligibility Check, Bidding and Undertaking of the said contract, as fully and effectively and the Joint Venture may do and if personally present with full power of substitution and revocation.

That this Joint Venture Agreement shall remain in effect only for the above stated Contracts until terminated by both parties.

Done this \_\_\_\_\_ day of \_\_\_\_\_, in the year of our Lord \_\_\_\_\_.

## BID-SECURING DECLARATION

(REPUBLIC OF THE PHILIPPINES)  
CITY OF \_\_\_\_\_ ) S.S.  
X-----X

**Invitation to Bid** *[Insert reference number]*

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 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 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 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;
  - c. I am/we are declared as 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'S AUTHORIZED REPRESENTATIVE]***  
***[Insert signatory's legal capacity]***

Affiant

**SUBSCRIBED AND SWORN** to before me this \_\_\_\_ day of *[month]* *[year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no. \_\_\_\_\_.

Witness my hand and seal this \_\_\_\_ day of *[month]* *[year]*.

**NAME OF NOTARY PUBLIC**

**Serial No. of Commission** \_\_\_\_\_  
**Notary Public for** \_\_\_\_\_ **until** \_\_\_\_\_  
**Roll of Attorneys No.** \_\_\_\_\_  
**PTR No.** \_\_\_\_, *[date issued]*, *[place issued]*  
**IBP No.** \_\_\_\_, *[date issued]*, *[place issued]*  
**Doc. No.** \_\_\_\_\_  
**Page No.** \_\_\_\_\_  
**Book No.** \_\_\_\_\_  
**Series of** \_\_\_\_\_.



## BID SECURITY FORM (BANK GUARANTEE)

WHEREAS, (Name of Bidder) (hereinafter called "the Bidder") has submitted his bid dated (Date) for the (Name of Contract) (hereinafter called "the Bid").

KNOW ALL MEN by these presents that We (Name of Bank) of (Name of Country) having our registered office at \_\_\_\_\_ (hereinafter called "the Bank" are bound unto (Name of the Procuring Entity) (hereinafter called "the Employer") in the sum of \_\_\_\_\_ for which payment well and truly to be made to the said Employer the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws his Bid during the period of bid validity specified in the Form of Bid; or
2. If the Bidder does not accept the correction of arithmetical errors of his bid price in accordance with the Instructions to Bidder; or
3. If the Bidder having been notified of the acceptance of his bid by the Employer during the period of bid validity:
  - a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
  - b) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

we undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of one or both of the two (2) conditions, specifying the occurred condition or conditions.

The Guarantee will remain in force up to and including the date \_\_\_\_\_ days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE \_\_\_\_\_ SIGNATURE OF THE BANK \_\_\_\_\_  
WITNESS \_\_\_\_\_ SEAL \_\_\_\_\_

*\* To be accompanied by a confirmation from the bank that it issued the Bank Guarantee*

## BID SECURITY: SURETY BOND

BOND NO.: \_\_\_\_\_ DATE BOND EXECUTED: \_\_\_\_\_

By this bond, We (Name of Bidder) (hereinafter called "the Principal") as Principal and (Name of Surety) of the country of (Name of Country of Surety), authorized to transact business in the country of (Name of Country of Employer) (hereinafter called "the Surety") are held and firmly bound unto (Name of Employer) (hereinafter called "the Employer") as Obligee, in the sum of \_\_\_\_\_, callable on demand, for the payment of which sum, well and truly to be made, we, the said Principal and Surety bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.

SEALED with our seals and dated this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_

WHEREAS, the Principal has submitted a written Bid to the Employer dated the \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_, for the \_\_\_\_\_ (hereinafter called "the Bid").

NOW, THEREFORE, the conditions of this obligation are:

- 1) If the Principal withdraws his Bid during the period of bid validity specified in the Form of Bid; or
- 2) If the Principal does not accept the correction of arithmetical errors of his bid price in accordance with the Instruction's to Bidders: or
- 3) If the Principal having been notified of the acceptance of his Bid by the Employer during the period of bid validity:
  - a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
  - b) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

then this obligation shall remain in full force and effect, otherwise it shall be null and void.

PROVIDED HOWEVER, that the Surety shall not be:

- a) liable for a greater sum than the specified penalty of this bond, nor
- b) liable for a greater sum than the difference between the amount of the said Principal's Bid and the amount of the Bid that is accepted by the Employer.

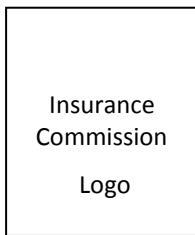
This Surety executing this instrument hereby agrees that its obligation shall be valid for 120 calendar days after the deadline for submission of Bids as such deadline is stated in the

Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived.

PRINCIPAL \_\_\_\_\_  
SIGNATURE(S) \_\_\_\_\_  
NAME(S) AND TITLE(S) \_\_\_\_\_  
SEAL \_\_\_\_\_

SURETY \_\_\_\_\_  
SIGNATURES(S) \_\_\_\_\_  
NAME(S) \_\_\_\_\_  
SEAL \_\_\_\_\_

*\* To be accompanied by a certification from the Insurance Commission stating that the Bonding Company is authorized to issue a security*



Republic of the Philippines  
Department of Finance  
**INSURANCE COMMISSION**  
1071 United Nations Avenue

## C E R T I F I C A T I O N

This is to certify that **[NAME OF INSURANCE COMPANY]** is licensed to transact non-life insurance business in the Philippines for [state lines such as **FIRE, MARINE, CASUALTY and SURETY**] lines under **Certificate of Authority No. \_\_\_\_\_** effective **[date: day/month/year]** until **[date: day/month/year]**, unless sooner revoked or suspended for cause.

It is certified, moreover, that **[NAME OF INSURANCE COMPANY]** is authorized under its license to issue surety bonds required by the Implementing Rules and Regulations of R.A. No. 9184, and that the insurance company had issued [state surety bond: [type of surety bond] with **[BOND NUMBER]** which **callable upon demand** together with the principal **[NAME OF THE PRINCIPAL]** in favor of the obligee **[NAME OF THE OBLIGEE]** in the amount of **[AMOUNT OF WORDS]** (Php \_\_\_\_\_) for the project: **[NAME OF THE PROJECT]**, certified photocopy [or duplicate] of said bond was submitted by the company to the Insurance Commission.

This Certification is issued upon the request of **[NAME OF THE REQUESTING PERSON]**, [Position] of [Name of Insurance Company], pursuant to the Revised implementing Rules and Regulations of R.A. No. 9184.

Issued on this *[day/month/year]*.

*City of Manila, Philippines.*

For the Insurance Commissioner:

**[NAME OF THE IC DIVISION MANAGER]**

IC Division Manager  
Regulation, Enforcement,  
& Prosecution Division  
Paid Under O.R. No. \_\_\_\_\_

## **CONTRACTOR'S ORGANIZATIONAL CHART FOR THE CONTRACT**

Submit Copy of the Organizational Chart that the Contractor intends to use to execute the Contract if awarded to him to include in the chart, among others, the names of the required proposed Key Personnel as indicated in ITB Clause 12.1(b) (ii.2) and other Key Engineering Personnel.

**Attach the required Proposed Organizational Chart  
for the Contract as stated above**

*Note: This organization chart should represent the "Contractor's Organization" required for the Project, and not the organizational chart of the entire firm.*

## SF-INFR-48 - QUALIFICATION OF KEY PERSONNEL PROPOSED TO BE ASSIGNED TO THE CONTRACT

|   |  | Project Manager<br>(Licensed Civil Engineer) | Asst. Project Manager<br>(Licensed Civil Engineer) | Licensed Electrical Engineer | Licensed Electronics and Communication Engineer | Licensed Mechanical Engineer | Licensed Plumbing/Sanitary Engineer | Materials Engineer II | Safety Officer | Foreman |    |
|---|--|--|--|------------------------------|---|------------------------------|-------------------------------------|-----------------------|----------------|---------|----|
|   |  |  |  |                              |   |                              |                                     |                       |                |         |    |
| 1 | Name   |  |  |                              |   |                              |                                     |                       |                |         |    |
| 2 | Address  |  |  |                              |   |                              |                                     |                       |                |         |    |
| 3 | Date of Birth  |  |  |                              |   |                              |                                     |                       |                |         |    |
| 4 | Employed Since   |  |  |                              |   |                              |                                     |                       |                |         |    |
| 5 | Experience   |  |  |                              |   |                              |                                     |                       |                |         |    |
|   | Total Experience (Years)   | Required                                     | 20   | 15                           | 10  | 10                           | 10                                  | 10                    | 5              | 5       | 15 |
|   |  | Actual                                       |  |                              |   |                              |                                     |                       |                |         |    |
|   | Experience in Similar Project (Years)  | Required                                     | 10<br>(see note below)                             | 5<br>(see note below)        | 5   | 3                            | 3                                   | 3                     | 2              | 2       | 15 |
|   |  | Actual                                       |  |                              |   |                              |                                     |                       |                |         |    |
| 6 | Previous Employment  |  |  |                              |   |                              |                                     |                       |                |         |    |
| 7 | Education  |  |  |                              |   |                              |                                     |                       |                |         |    |
| 8 | PRC License/Accreditation/Certification/ training (as required)<br>Attached Supporting Documents for validation purposes |  |  |                              |   |                              |                                     |                       |                |         |    |

Note: Refer to ITB Clause 12.1(b)(ii.2) for the minimum work experience requirements for each key personnel.

- For the Project Manager: at least 10 year experience as Project Manager in the Construction of Ports and Civil Work Projects, of which, a minimum of 3 year experience in Port Project(s). In addition, has also managed/supervised a construction project within a minimum amount of Php400M.
- For the Asst. Project Manager: at least 5 year experience as Asst. Project Manager (or Equivalent) in the Construction of Ports and Civil Work Projects, of which, a minimum of 3 year experience in Port Project(s). In addition, has also managed/supervised a construction project within a minimum amount of Php200M.
- Materials/ Engineer II shall be DPWH Accredited. Attached Proof of Accreditation.
- Safety Officer shall be certified by BWC of DOLE or with Certificate of Training in Occupational Safety and Health. Attached DOLE Certificate of Accreditation or Certificate of Completion of Training.

Submitted by : \_\_\_\_\_  
(Printed Name & Signature)

Designation : \_\_\_\_\_  
Date : \_\_\_\_\_

## KEY PERSONNEL (FORMAT OF BIO-DATA/RESUME)

Give the detailed information of the following personnel who are scheduled to be assigned as full-time field staff for the project. Fill up a form for each person.

- Authorized Managing Officer / Representative
- Sustained Technical Employee

1. Name : \_\_\_\_\_
2. Date of Birth : \_\_\_\_\_
3. Nationality : \_\_\_\_\_
4. Education and Degrees : \_\_\_\_\_
5. Specialty : \_\_\_\_\_
6. Registration : \_\_\_\_\_
7. Length of Service with the Firm : \_\_\_\_\_ Year from \_\_\_\_\_ (months) \_\_\_\_\_ (year)  
To \_\_\_\_\_ (months) \_\_\_\_\_ (year)
8. Years of Experience : \_\_\_\_\_
9. If Item 7 is less than the required number of years, give name and length of service with previous employers. (attached additional sheet/s), if necessary:

### Name and Address of Employer

### Length of Service

|  |       |              |       |    |       |
|--|-------|--------------|-------|----|-------|
|  | _____ | year(s) from | _____ | to | _____ |
|  | _____ | year(s) from | _____ | to | _____ |
|  | _____ | year(s) from | _____ | to | _____ |

### 10. Experience:

This should cover the number of years of experience required under ITB Clause 12.1b (ii.2) of the Bidding Documents for each of the required key personnel (Attached as many pages as necessary to show involvement of personnel in projects using the format below).

1. Name : \_\_\_\_\_
2. Name and Address of Owner : \_\_\_\_\_
3. Name and Address of the Owner's Engineer (Consultant) : \_\_\_\_\_
4. Indicate the Features of Project (particulars of the project components and any other particular interest connected with the project) : \_\_\_\_\_
5. Contract Amount Expressed in Philippine Currency : \_\_\_\_\_
6. Position : \_\_\_\_\_

7. Structures for which the employee was responsible : \_\_\_\_\_
8. Assignment Period : from \_\_\_\_\_ (months) \_\_\_\_\_ (years)  
: to \_\_\_\_\_ (months) \_\_\_\_\_ (years)

\_\_\_\_\_  
Name and Signature of Employee

It is hereby certified that the above personnel can be assigned to this project, if the contract is awarded to our company.

\_\_\_\_\_  
(Place and Date)

\_\_\_\_\_  
(The Authorized Representative)



**SF-INFR - 49 - LIST OF EQUIPMENT, OWNED OR LEASED AND/OR UNDER PURCHASE AGREEMENTS, PLEDGED TO THE PROPOSED CONTRACT**

**Business Name** : \_\_\_\_\_  
**Business Address** : \_\_\_\_\_

[illegible]

**This Certifies that the above list of equipment are in good working condition and will be available for use during the execution of the Project.**

Submitted by : \_\_\_\_\_  
(Printed Name & Signature)

Designation : \_\_\_\_\_

Date : \_\_\_\_\_

**Note:**

- (a) if owned: Submit proof of ownership of equipment i.e. receipt, etc.  
(b) If leased and/or under purchase agreement: submit proof of lease and/or under purchase agreement (with corresponding engine numbers, chassis numbers and/or serial numbers) and Certification of availability of equipment in good working condition for the duration of the Project issued by the Equipment Lessor/Vendor.

## SF-INFR-18 – STATEMENT OF AVAILABILITY OF KEY PERSONNEL AND EQUIPMENT

[Date of Issuance]

[Name of the Head of the Procuring Entity]

[Position of the Head of the Procuring Entity]

[Name of Procuring Entity]

[Address of Procuring Entity]

Attention : The Chairman  
Bids and Awards Committee

Dear Sir:

In compliance with the requirements of the Philippine Fisheries Development Authority (PFDA) for the bidding of the Construction, Rehabilitation and Improvement of Iloilo Fish Port Complex, we certify that [Name of the Bidder] has in its employ key personnel, such as Project Manager, Senior Architect, Project Engineers, Materials Engineer, Safety Officer and Foreman who may be engaged for the construction of the said contract.

Further, we likewise certify the availability of equipment that [Name of the Bidder] owns, has under lease, and/or has under purchase agreement that may be used for the construction contracts.

Very truly yours,

[Name of the Representative]

[Position]

[Name of Bidder]

## OMNIBUS SWORN STATEMENT

---

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:

**2. *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]*;

**3. *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]* *[insert "as shown in the attached duly notarized Special Power of Attorney" for the authorized representative]*;

*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]*, accompanied by the duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate, whichever is applicable;

4. *[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;
5. 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;
6. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
7. ***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;

8. *[Name of Bidder]* complies with existing labor laws and standards; and
9. *[Name of Bidder]* is aware of and has undertaken the following responsibilities as a Bidder:
  - a) Carefully examine all of the Bidding Documents;
  - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
  - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
  - d) Inquire or secure Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
10. *[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.

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_ day of \_\_\_, 2019 at \_\_\_\_\_, Philippines.

---

Bidder's Representative/Authorized Signatory

**SUBSCRIBED AND SWORN** to before me this \_\_\_\_ day of *[month]* *[year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no. \_\_\_\_\_ and his/her Community Tax Certificate No. \_\_\_\_\_ issued on \_\_\_\_ at \_\_\_\_\_.

Witness my hand and seal this \_\_\_\_ day of *[month]* *[year]*.

**NAME OF NOTARY PUBLIC**

Serial No. of Commission \_\_\_\_\_

Notary Public for \_\_\_\_\_ until \_\_\_\_\_

Roll of Attorneys No. \_\_\_\_\_

PTR No. \_\_\_\_\_ *[date issued]*, *[place issued]*

IBP No. \_\_\_\_\_ *[date issued]*, *[place issued]*

Doc. No. \_\_\_\_\_

Page No. \_\_\_\_\_

Book No. \_\_\_\_\_

Series of \_\_\_\_\_

## AFFIDAVIT OF SITE INSPECTION

I, (Representative of the Bidder), of legal age, (civil status), 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 the Bidder), with office at (Address of the Bidder);
2. That I have inspected the site for the Construction, Rehabilitation and Improvement of Iloilo Fish Port Complex;
3. That I am making this statement as part of the requirement for the Technical Proposal of the (Name of the Bidder) for the Construction, Rehabilitation and Improvement of Iloilo Fish Port Complex.

IN FAITH WHEREOF, I hereby affix my signature this \_\_\_\_\_ day of \_\_\_\_\_, 2019 at \_\_\_\_\_, Philippines.

\_\_\_\_\_  
AFFIANT

SUBSCRIBED AND SWORN TO before me this \_\_\_\_\_, day of \_\_\_\_\_ 2019, affiant exhibiting to me his/her *(any Government ID/Passport No.)* issued on \_\_\_\_\_ at \_\_\_\_\_, Philippines and his/her ID picture appearing herein.

\_\_\_\_\_  
(Notary Public)

|         |       |
|---------|-------|
| Until   | _____ |
| PTR No. | _____ |
| Date    | _____ |
| Place   | _____ |
| TIN     | _____ |

Doc. No. \_\_\_\_\_  
Page No. \_\_\_\_\_  
Book No. \_\_\_\_\_  
Series of 2019

## LIST OF PROPOSED SUBCONTRACTORS

*The Bidder is required to insert below the names of all Subcontractors (to include the Specialty Subcontractors) proposed for the Project and to indicate the specific work they will be required to undertake:*

| Name of Subcontractors | Elements of Work to be Undertaken |
|------------------------|-----------------------------------|
|                        |                                   |
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*Provision of the above information shall not be taken to mean that the above-named Subcontractors will be acceptable in the event that the Bidder is awarded the Contract. Before being allowed to sublet any element of work, the selected Contractor will be required to further demonstrate the capabilities of the proposed Subcontractor and seek permission from the Engineer to sublet such work to that Subcontractor.*

(Signed by Authorized Representative of  
the Bidder):

Date: \_\_\_\_\_

## LETTER OF AUTHORITY TO VALIDATE SUBMITTED DOCUMENTS

The General Manager  
Philippine Fisheries Development Authority  
PCA Annex Bldg., Elliptical Rd., Diliman  
Quezon City

Attention : The Chairman  
Bids and Awards Committee

Dear Sir/Madame:

Reference is made to our Application for eligibility and to Bid for the hereunder contract

Name of Contract : \_\_\_\_\_  
Location : \_\_\_\_\_  
Brief Description : \_\_\_\_\_

In accordance with Republic Act 9184 and its Implementing rules and Regulations (IRR), we/I hereby authorize the Philippine Fisheries Development Authority or its authorized representative/s to verify the statements, documents and information submitted herewith to substantiate our eligibility to participate in the bidding for the above-mentioned contract.

You may contact the following persons to provide further information with regard to this application:

|                      | NAME | TEL. NUMBER | FAX NUMBER |
|----------------------|------|-------------|------------|
| a. Technical Matters |      |             |            |
| b. Financial Matters |      |             |            |
| c. Personnel Matters |      |             |            |

Very truly yours,

\_\_\_\_\_  
Name of firm/Contractor

By:

\_\_\_\_\_  
Name and Signature of Authorized Representative  
Position/Designation: \_\_\_\_\_  
Date: \_\_\_\_\_



### **3. CHECKLIST OF FINANCIAL REQUIREMENTS FOR BIDDERS**

## CHECKLIST OF FINANCIAL REQUIREMENTS FOR BIDDERS

| ITB CLAUSE<br>13 | FINANCIAL REQUIREMENTS  |
|------------------|---|
|                  | The Financial Envelope shall contain the following:   |
| (a)              | Duly Signed Bid Form in accordance with the prescribed form in Section IX. Sample Forms   |
| (b)              | Duly Signed Bid Prices in the Bill of Quantities  |
| (c)              | Duly Signed Detailed Cost Estimates (Derivation of Unit Cost and Lump Sum Items)<br>Note:   |
| (d)              | Summary Sheets indicating the unit prices of construction materials, labor rates and equipment rentals/owned/leased used in coming up with the bid.                                   |
| (e)              | Duly signed Cash Flow by Quarter and Payment Schedule showing a detailed quarterly cash flow estimate and all payments the Contractor will be entitled to receive under the Contract. |

|                                   |
|-----------------------------------|
| <b>4. FINANCIAL PROPOSAL FORM</b> |
|-----------------------------------|

## BID FORM

---

Date: \_\_\_\_\_

IB<sup>1</sup> N°: \_\_\_\_\_

To: *[name and address of PROCURING ENTITY]*

Address: *[insert address]*

We, the undersigned, declare that:

- (a) We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract for the Construction, Rehabilitation and Improvement of Iloilo Fish Port Complex.
- (b) We offer to execute the Works for this Contract in accordance with the Bid and Bid Data Sheet, General and Special Conditions of Contract accompanying this Bid;

The total price of our Bid, excluding any discounts offered below is: *[insert total bid price in words and figures]*;

The discounts offered and the methodology for their application are: *[insert none or describe methodology]*;

- (c) Our Bid shall be valid for a period of **one hundred twenty days (120) days** from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) If our Bid is accepted and we receive a Notice of Award, we commit within ten (10) days after receipt of said notice to submit the required Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract and other documents prescribed in the Bidding Documents; and;
- (e) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries: *[insert information]*;
- (f) 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;
- (g) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Funding Source;

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<sup>1</sup> If ADB, JICA and WB funded projects, use IFB.

- (h) 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
- (i) We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- (j) 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].
- (k) 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: \_\_\_\_\_

In the capacity of: \_\_\_\_\_

Signed: \_\_\_\_\_

Duly authorized to sign the Bid for and on behalf of: \_\_\_\_\_

Date: \_\_\_\_\_

**CONSTRUCTION, REHABILITATION & IMPROVEMENT OF ILOILO FISH PORT COMPLEX**  
Brgy. Tanza, Iloilo City

|                |              |          |
|----------------|--------------|----------|
| Pay Item No. : | Unit Price : | P / UNIT |
| Description :  | Quantity :   | UNIT     |

[illegible]

**SUMMARY SHEET INDICATING THE UNIT PRICES OF CONSTRUCTION  
MATERIALS, LABOR RATES AND EQUIPMENT RENTALS**

The Bidder shall submit Summary Sheets indicating the unit prices of construction materials, labor rates and equipment rentals/owned/leased used in coming up with the Bid.

**AS ATTACHMENT**

Contract Name : \_\_\_\_\_  
 Location : \_\_\_\_\_

### CASH FLOW BY QUARTER AND PAYMENT SCHEDULE

| PARTICULAR                   | %<br>WT. | 1 <sup>st</sup><br>Quarter | 2 <sup>nd</sup><br>Quarter | 3 <sup>rd</sup><br>Quarter | 4 <sup>th</sup><br>Quarter | 5 <sup>th</sup><br>Quarter | 6 <sup>th</sup><br>Quarter | 7 <sup>th</sup><br>Quarter | 8 <sup>th</sup><br>Quarter | 9 <sup>th</sup><br>Quarter | 10 <sup>th</sup><br>Quarter | 11 <sup>th</sup><br>Quarter | 12 <sup>th</sup><br>Quarter |
|------------------------------|----------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ACCOMPLISHMENT               |          |                            |                            |                            |                            |                            |                            |                            |                            |                            |                             |                             |                             |
| CASH FLOW                    |          |                            |                            |                            |                            |                            |                            |                            |                            |                            |                             |                             |                             |
| CUMULATIVE<br>ACCOMPLISHMENT |          |                            |                            |                            |                            |                            |                            |                            |                            |                            |                             |                             |                             |
| CUMULATIVE CASH<br>FLOW      |          |                            |                            |                            |                            |                            |                            |                            |                            |                            |                             |                             |                             |

Submitted by:

Name of the Representative of the Bidder  
Position  
Name of the Bidder

Date: \_\_\_\_\_

*One of the requirements from the bidder to be included in its Financial Envelope is the Cash Flow by Quarter and Payment Schedule.*



## **5. DRAFT CONTRACT**

## FORM OF CONTRACT AGREEMENT (PRO – FORMA CONTRACT)

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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 *[insert the amount in specified currency in numbers and words]* 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 shall be attached, deemed to form, and be read and construed as integral part of this Agreement, to wit:
  - (a) General and Special Conditions of Contract;
  - (b) Drawings/Plans;
  - (c) Specifications;
  - (d) Invitation to Bid;
  - (e) Instructions to Bidders;
  - (f) Bid Data Sheet;
  - (g) Addenda and/or Supplemental/Bid Bulletins, if any;
  - (h) 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;
  - (i) Eligibility requirements, documents and/or statements;
  - (j) Performance Security;
  - (k) Notice of Award of Contract and the Bidder’s conforme thereto;
  - (l) Other contract documents that may be required by existing laws and/or the Entity.
3. In consideration of the payments to be made by the Entity to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Entity to execute and complete the Works and remedy any defects therein in conformity with the provisions of this Contract in all respects.
4. The Entity hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects wherein, the Contract Price or such other sum as may become payable under the provisions of this Contract at the times and in the manner prescribed by this Contract.

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

Signed, sealed, delivered by \_\_\_\_\_ the \_\_\_\_\_ (for the Entity)

Signed, sealed, delivered by \_\_\_\_\_ the \_\_\_\_\_ (for the Contractor).

Binding Signature of Procuring Entity

---

Binding Signature of Contractor

---

*[Addendum showing the corrections, if any, made during the Bid evaluation should be attached with this agreement]*

## **DRAFT CONTRACT AGREEMENT**

---

KNOW ALL PERSONS BY THESE PRESENTS:

This Contract, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_ by and between:

The PHILIPPINE FISHERIES DEVELOPMENT AUTHORITY (PFDA), a government-owned corporation, established under Presidential Decree No. 977, with principal office address at the 2nd-4th Floors, PCA Annex Building, Elliptical Road, Diliman, Quezon City, herein represented by its General Manager, ATTY. GLEN A. PANGAPALAN and hereinafter referred as the AUTHORITY.

- AND-

Whereas, the Philippine Fisheries Development Authority (PFDA) is empowered by the Department of Agriculture (DA) to implement the Post-Harvest and other Infrastructure Component of the \_\_\_\_\_;

WHEREAS, in a public bidding conducted by the Authority, the bid of the Contractor has been determined as the lowest calculated responsive bid;

WHEREAS, under Board Resolution No. \_\_\_\_\_ dated \_\_\_\_\_ the PFDA Board of Directors award the Contract for \_\_\_\_\_.

NOW, THEREFORE, for and in consideration of the foregoing premises and mutual covenants, stipulation and agreements herein contain, the Authority and the Contractor have agreed, as they do hereby agree and contract, as follows:

### **ARTICLE I**

#### **CONTRACT DOCUMENTS**

The following documents, hereinafter referred to as Contract Documents, shall be deemed integral parts of this Contract, as fully as if hereto attached or herein stated, and shall continue to govern and control in full force and effects the rights and obligations of the parties as if the documents were set forth in full except as otherwise modified by mutual agreement in writing of both parties, to wit:

- a) Contract Agreement
- b) Conditions of Contract
- c) Drawings/Plans
- d) Specifications

- e) Invitation to Bid
- f) Instruction to Bidders
- g) Addenda
- h) Bid Form including the following Annexes in Two (2) Envelopes:

The First Envelope shall contain of the eligibility and technical documents:

- (a) Eligibility Documents:

Class "A" Documents

- 1. Registration Certificate from Securities & Exchange Commission (SEC) or Department of Trade and Industry (DTI)
- 2. Mayor's permit
- 3. Statement of all its on-going and completed government and private contracts
- 4. PCAB License
- 5. Audited financial statements
- 6. NFCC computation
- 7. Tax Clearance

Class "B" Document:

- 1. Joint Venture Agreement, if applicable

- (b) Technical Documents

- 1. Bid security as to form, amount and validity period
- 2. Organizational chart
- 3. List of contractor's personnel
- 4. List of contractor's equipment units, owned or leased
- 5. Sworn statement in accordance with Section 25.2(b)(iv) of the IRR of RA 9184
- 6. Affidavit of Site Inspection

The Second Envelope (Financial Proposal) shall contain the following:

- 1. Bid prices in the bill of quantities in the prescribed bid form
- 2. 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

3. Breakdown of Lump Sum Bid items
  4. Cash flow by the quarter and payment schedule
- i) Performance security
  - j) Notice of award of contract and contractor's "conforme" thereto
  - k) Other contract documents that may be required by the Authority

The Contract Documents shall be complementary and supplementary to each other and what is called for or prescribed by one shall be considered as if called or prescribed by the other. In case of any discrepancy between, or of any defective prescription, errors, omissions, or ambiguity in any of the Contract Documents, the Contractor shall promptly submit the matter in writing. Such determination by the Authority shall be final and binding upon the Contractor and the latter shall accordingly proceed with the work strictly in accordance with such determination.

## **ARTICLE II**

### **CONTRACTOR'S UNDERTAKING**

The Contractor shall, in accordance with the provision and subject to the terms and conditions contained in the Contract Documents and supplied by the Authority and the Authority's written corrective determination mentioned in Article I hereof, fully and faithfully furnish to the satisfaction of the Authority all necessary labor, equipment, materials, tools, supplies, machinery and perform all operations (including mobilization, supervision and other similar or necessary acts) required for the \_\_\_\_\_ complete and ready for use and services as per plans and specifications.

## **ARTICLE III**

### **CONTRACT PRICE**

In consideration of the work to be performed by the Contractor as specified in Article II, the Authority shall pay the Contractor the fixed sum of \_\_\_\_\_ in the manner herein prescribed. It is understood that that all billings shall be based on work actually performed as verified by the Authority.

All payments made by the Authority to the Contractor shall be at all times subject to the usual government accounting and auditing procedures and requirements.

This amount is deemed full compensation for everything furnished and done by the Contractor under this Contract, including all works required but not specifically mentioned and also for all losses or damages arising out of the work aforesaid from the action of the elements or from any obstruction or difficulty encountered in the prosecution of this Contract, for all expenses incurred by or in consequence of the suspension or discontinuance of the Contract and the whole thereof, at the time and in the manner provided in the Contract Documents.

## **ARTICLE IV**

### **MANNER OF PAYMENT**

The Authority shall pay the Contractor the Price of \_\_\_\_\_  
\_\_\_\_\_ subject to the following terms and conditions:

1. The CONTRACTOR, upon his request shall receive from the AUTHORITY an advance payment equivalent to fifteen percent (15%) of the total Contract Price.
2. The advance payment shall be made only upon submission to and acceptance by the AUTHORITY of an irrevocable standby letter of credit of equivalent value from a commercial bank or a guarantee payment bond, callable on demand, issued by a surety or insurance company duly licensed by the Office of the Insurance Commissioner and confirmed by the AUTHORITY.
3. The advance payments shall be repaid by the Contractor by deducting fifteen percent (15%) from its periodic progress payments.
4. The AUTHORITY shall have the right to deduct from the CONTRACTOR progress billing certain amount as may be necessary to cover third party liabilities, as well as uncorrected discovered defects in the project.
5. The CONTRACTOR, shall therefore, receive its progress payment less the retention money, 2.0% expanded withholding tax, 5% Final VAT and other deductions provided for the Contractor, if any.

## **ARTICLE V**

### **WORK COMPLETION**

The work called for in this Contract, as specified in Article II hereof, shall be completed within \_\_\_\_\_ calendar days. This Contract time shall commence to run after ten (10) calendar days following the receipt by the CONTRACTOR of the Notice to Proceed issued by the AUTHORITY.

The CONTRACTOR, may, however, ask for extension of the contract period through a written request submitted to the AUTHORITY prior to the expiration of the contract time and within thirty (30) calendar days after such work has been commenced or after the circumstances leading to such claim have arises.

Condition for the granting of extension of contract time shall be based on the applicable provisions of the Implementing Rules and Regulations of RA 9184.

## **ARTICLE VI**

### **PERFORMANCE SECURITY**

Before the signing of the Contract, the Contractor shall furnish the AUTHORITY a performance security in the form of cash, certified check, manager's check, cashier's check, bank draft, bank guarantee, letter of credit issued by a reputable bank, surety bond callable on demand, issued by the Government Service Insurance System or by a surety or insurance companies duly accredited by the Office of the Insurance Commissioner, or a combination thereof, in accordance with the following schedule:

- a. Cash, or cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit issued by a Universal of Commercial Bank-ten percent (10%) of the total contract price.
- b. Surety bond callable on demand issued by a surety or insurance company duly certified by the Insurance commission as authorized to issue such security-thirty percent (30%) of the contract price.

The performance security shall be posted in favor of the AUTHORITY and shall guarantee the faithful performance by the CONTRACTOR of its obligations under the contract prepared in accordance with the bidding documents.

The performance security shall be posted in favor of the AUTHORITY, and shall be forfeited in favor of the AUTHORITY in the event it is established that the CONTRACTOR is in default in its obligations in this contract.

The following provisions shall form part of the performance security: "The right to institute action on the penal bond pursuant to Act No. 3688 if any individual firm, partnership, corporation and association supplying the CONTRACTOR with labor and material for the prosecution of the work is hereby acknowledge and confirmed.

Subject to the conditions of the contract, the performance security may be released by the AUTHORITY after the issuance of the Certificate of Completion of the contract, provided that there are no claims for labor and materials filed against the contractor or the surety company.

The CONTRACTOR shall post an additional performance security to cover any cumulative increase of more than ten percent (10%) over the original value of the contract as a result of adjustments in unit prices, and/or change orders extra work orders, and supplemental agreements. The CONTRACTOR shall post the extension of the validity of the performance security to cover approved contract time extensions.

## **ARTICLE VII**

### **RETENTIONS**

The AUTHORITY shall deduct and withhold from every progress payment due to the Contractor an amount equivalent to ten percent (10%) of the amount due as retention. After fifty percent (50%) of the work shall have been completed to the satisfaction of the AUTHORITY and in accordance with the time schedule of work completion, no further amount shall be withheld or retained from any subsequent progress payments.

All amounts withheld or retained shall be paid to the Contractor upon final acceptance of the work and only after presentation to the Authority by the Contractor of a Guaranty Bond issued by the GSIS in an amount equivalent to ten percent (10%) of the total contract price including the cost of extra work if any, and affidavit executed by the Contractor stating that all wages and salaries of each employee, cost of materials and/or supplies, damages if any, or other obligations arising out this contract, whether directly or indirectly have all been fully paid or settled, subject to No. 5 Art. Hereof.



## **ARTICLE VIII**

### **OPTION TO COMPLETE WORK**

In any case the CONTRACTOR, at any time before the satisfactory completion of the work and acceptance by the Authority of the project, should fail, refuse or neglect to supply the needed materials, equipment or workmen or should abandon the project, the Authority may, at its option, provide materials, equipment and all necessary labor, after giving the Contractor a written notice at least three (3) days before supplying the said materials, equipment or labor in order to complete the project.

The AUTHORITY may then proceed with the execution of the project in accordance with the plans and specifications until the same is completed. The AUTHORITY may, in the same event, engage the service of another Contractor to complete the work in accordance with the contract. In any case, the AUTHORITY shall have the right to charge the cost of completion of the project to the Contractor, directly against his performance security, if under this or if any other contract. Nothing in this Article shall relieve the Contractor or in any diminish its responsibility to the AUTHORITY for all cases, the Contractor shall be liable to the AUTHORITY for all forms of damages that may be suffered by it, by reason of the Contractor's failure, refusal or neglect to supply the necessary materials, equipment and labor or its abandonment of the project.

## **ARTICLE IX**

### **DELAY AND LIQUIDATED DAMAGES**

It is understood that in the execution of the work herein contracted, time is of essence. For that matter, if the Contractor refuses or fails to complete the undertaking called for within the contract period as specified herein, or any extension or extensions thereof, the Contractor shall pay the AUTHORITY the fixed and liquidated damages or to collect or charge such liquidated damages against the performance security filed by the Contractor or from the retention money, whichever is convenient and expeditious to the AUTHORITY; provided, however, that no liquidated damages or any excess cost shall be charged when the delay in the completion of the undertaking is due to unforeseeable or fortuitous events or causes beyond the control and without the fault or negligence of the Contractor, or to any cause directly attribution to the AUTHORITY.

The determination of the amount of liquidated damages shall be based on the applicable provisions of RA 9184.

## **ARTICLE X**

### **LIABILITY TO THIRD PERSONS**

All damages and losses of whatever nature that may be suffered by third persons as a result, directly or indirectly, of the fault or negligence of the Contractor in the execution of its work or performance of its undertaking under this contract shall be sole responsibility of the Contractor. The Contractor therefore shall save and hold the AUTHORITY free and exempt from all claims for damages, losses, penalties and liabilities of whatever kind or nature including all causes of action, suits, judgments arising from death or injury to person or damage to property resulting from the Contractor's fault or failure to exercise the diligence required in the execution of its work and in the performance of its undertakings.

It is the duty of the Contractor, in order to minimize if not eliminate the incidence of such damages or losses that may be inflicted upon third persons, to provide all necessary safeguards including the posting of warning signs strategic points of the work area and its vicinity to the end that incidents that may result in injury or death to persons and damage to property may be avoided or prevented.

## **ARTICLE XI**

### **WARRANTY**

The Contractor shall assume full responsibility for the contract work from the time project construction commenced up to final acceptance by the AUTHORITY and shall be held responsible for any damage or destruction of the works except those occasioned by force majeure. The Contractor shall be fully responsible for the safety, protection, security, and convenience of his personnel, third parties, and the public at large, as well as the works, equipment, installation and the like to be affected by his construction work and shall be required to put up a warranty security in accordance with the following schedule:

- a. Cash or letter of credit - five percent of the contract price
- b. Bank guarantee – ten percent of the contract price
- c. Surety bond callable on demand – thirty percent of the contract price

The warranty security shall remain effective during the applicable warranty period in Section 62.2; specifically under sub-sections 62.2.1; 62.2.2; 62.2.3; and 62.2.4 of RA 9184 and shall be returned only after the lapse of the said warranty period.

## **ARTICLE XII**

### **NO EMPLOYER-EMPLOYEE RELATIONSHIP**

The Contractor is not an employee of the AUTHORITY and there is absolutely no employer employee relationship between them. All personnel, workmen and laborers hired by the Contractor, all persons contracted by its sub-contractors, if allowed under Art. XVII hereof, for the work shall be deemed employees or agents of the Contractor solely and never that of the AUTHORITY. Hence, personal injury or death, or any other forms of damages, caused by the said employees or agents or sub-contractor.

## **ARTICLE XIII**

### **SUPPLEMENTARY USE OF CONTRACT DOCUMENTS**

The contract documents shall be supplementary to this contract. Any and all deficiencies in the provision of this contract intended to be covered hereby otherwise connected with or related to the project covered hereby, but not expressly covered by the provisions of this contract, shall be supplied by the contract documents.

In case of irreconcilable conflict between the provisions of the contract documents and agreement, the latter shall prevail.

## **ARTICLE XIV**

### **VALIDITY CLAUSE**

If any or any condition of this contract is held invalid or contrary to law, the validity of the other terms and conditions hereof shall not be affected thereby.

## **ARTICLE XV**

### **CONTRACT TERMINATION AND JURISDICTION**

Should the Contractor fail to comply with any of its obligations and responsibilities or violate any of the terms and conditions hereof, the AUTHORITY may terminate this contract without need of judicial action or intervention by serving upon the Contractor a written notice to that effect at least fifteen (15) days prior to the intended date of termination; provided, that such termination shall not relieve the Contractor of its liabilities and responsibilities under this contract nor shall the AUTHORITY, by such termination be deemed to have waived any right that may have accrued in its favor and against the Contractor.

## **ARTICLE XVI**

### **TAXES, DUTIES AND FEES**

The Contractor shall give all necessary notice to and obtain the necessary permits and sanction of the proper government authorities in respect to the project. All taxes, duties and fees of whatever nature arising out of, or connected with this contract, execution of work contemplated herein, or which may be due and payable in all tools, equipment, labor and materials, plants, supplies and other facilities necessary for the performance and accomplishment of the project, including the transport or movement thereof, shall be for the sole account and responsibility of the Contractor. Any fee, imposition, charge, fine, penalty or loss or damage paid or incurred by the AUTHORITY by reason of any breach of this stipulation by the Contractor shall be reimbursed by the Contractor as soon as the demand therefore is made by the AUTHORITY.

The Contractor certifies under oath that is free and clear of all tax liabilities to the government and will pay the taxes in full and on time. Failure to do so will entitle the AUTHORITY to suspend payment for the work accomplished by the Contractor. Moreover, the Contractor is required to regularly present within the duration of the contract, appropriate tax clearance from the Bureau of Internal Revenue as well as a copy of its income and business tax returns duly stamped and received by the Bureau of Internal Revenue and duly validated with the tax payments made thereon.

## **ARTICLE XVII**

### **ASSIGNMENT AND SUB-CONTRACTING**

The Contractor shall not assign its rights or obligations under this contract, nor sub-contract any portion of the work covered by this contract, without the prior written approval of the AUTHORITY. Violation of these conditions shall be sufficient ground for the termination by the AUTHORITY of this contract.

## **ARTICLE XVIII**

### **NON-WAIVER OF RIGHTS**

No document, except the Certificate of Final Acceptance, shall be accepted as evidence of the satisfactory completion of the project. No proof of payment shall be taken or construed as an acceptance of satisfactory performance of the work or the good quality of the materials used, whether in whole or in part as contemplated in this contract.

## **ARTICLE XIX**

### **VENUE OF ACTION**

The venue of any action or suit arising out of or necessarily connected with this contract for whatever cause shall be the proper courts of Quezon City.

## **ARTICLE XXI**

### **CONTRACT EFFECTIVITY**

Notwithstanding, full compliance with all the legal requirements for the effectivity of this contract, no rights or obligations shall be accrues in favor of any against any party hereunder unless and until written certification to the funds cover the cost of the contract are available is issued by the Chief, Accountant of the AUTHORITY, who shall, for this purpose, affix her/his signature hereon as an instrumental witness and certify to the availability of funds pursuant to and in accordance with the existing laws.

IN WITNESS WHEREOF, the parties hereto have caused this contract to be signed in their names through their respective authorized representatives this \_\_\_\_\_ in Quezon City.

**PHILIPPINE FISHERIES  
DEVELOPMENT AUTHORITY**

BY:

\_\_\_\_\_  
General Manager

BY:

\_\_\_\_\_

SIGNED IN THE PRESENCE OF:

Accounting Division

\_\_\_\_\_

## ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)

QUEZON CITY ) S.S.

BEFORE ME, a Notary Public for and in Quezon City, personally appeared on this \_\_\_\_\_ day of \_\_\_\_\_, 2019 the following persons with their valid identification cards as follows:

| Name  | Type of I.D. & No. |
|-------|--------------------|
| _____ | _____              |
| _____ | _____              |
| _____ | _____              |

ALL known to me and to me known as the same persons who executed the foregoing Contract consisting of thirteen(13) pages including this page and they acknowledge to me that the same is their true and voluntary act and deed.

WITNESS, MY HAND AND SEAL, in the date and place, first above written.

\_\_\_\_\_  
Notary Public

Doc. No. \_\_\_\_\_ Page No. \_\_\_\_\_  
Book No. \_\_\_\_\_  
Series of 2019