**Readable BILL OF QUANTITIES**

#### ITB No. : Goods 2025-002

Name of Contract: **SUPPLY & DELIVERY OF VARIOUS MATERIAS, PIPES AND FITTINGS**

#### Location of the contract: Kabankalan City, Negros Occidental

**ABC FOR LOT 1 =₱ 795,950.00**

**ABC FOR LOT 2 =₱ 1,084,400.00**

**ABC FOR LOT 3 =₱ 519,650.00**

**TOTAL ABC =₱ 2,400,000.00**

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| **Item No.** | **Unit** | **Item Description** | **Unit Price** | **Amount(Peso)** |
|  | 500 Pcs.300 Pcs.500 Pcs.500 Pcs.200 Pcs.200 Pcs.500 Pcs.500 Pcs.500 Pcs.500 Pcs.100 Pcs.300 Pcs.500 Pcs.500 Pcs.10 Pcs.200 Pcs.100 Bags100 Pcs.100 Pcs.100 Pcs.20 Pcs.100 Kgs.50 Lengths50 Lengths50 Lengths50 Lengths50 Lengths50 Lengths500 Pcs.300 Pcs. | LOT 1- ₱ 795,950.001. **GALVANIZED IRON (GI) FITTINGS, BRASS GATEVALVES & BALLVALVES**

GI Bushing 3/4” x ½”GI Bushing 1” x ½”GI Elbow 3/4” x 90GI Elbow 1 /2”x 90GI St. Elbow 1”GI Nipple 1/2” x 12”GI Nipple 1/2” x 6”GI Nipple 1/2” x 2”GI Nut & Bolt 1/2” x 2 ½”GI Nut & Bolt 5/8 x 2 1/2”GI Nut & Bolt 5/16 x 2"GI Tee 1”GI Tee ½”Brass Ball Valve 1/2” with lockwingBrass Gate Valve 1”Specification:* Pipes shall conform to the requirements of the ASTM a53/A53M(Standard Specification for Pipe, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless) or the latest revision or its equivalent and shall be schedule 40.
* The Pipe Fittings shall conform to the requirements of ASME/ANSI B16.3( Malleable Iron Threaded Fittings Class 150 and 300) requirements shall be Class 150.
* The Pipe shall be practically straight and both ends of the pipe shall be at right angle to the axis of the pipe. The inside and outside surfaces of the pipe shall be free from injurious defects.
* The Pipe and Fitting Threads Shall be Made according to American Standard Pipe Taper threader 9NPT) with taper angle equal to 1⁰ 47´
* Pipes and Fittings shall be coated with zinc, both inside and outside surfaces, in accordance to ASTM A153/A153M-05 (Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware)
* Valve shall be conforming to Standard for Valve ASME B16.34
* Brass Valves shall be full port- screwed-in bonnet and non-rising stem
* The Valve Body, Bonnet and Solid wedge Disc shall be brass conforming to ASTM B584 Alloy C84400-1996 or the latest revision or its equivalent. The minimum pressure rating shall be 125psi saturated steam pressure and 200 psi non-shock , oil or gas.
* Valve shall be threaded end conforming to ASME B1.20.1 (NPT)
1. **CONSTRUCTION MATERIALS**

Hacksaw Blade Heavy DutyPremium CementElectrical Tape BigLight Bulb 15 wattsCutting Disc 4"Paint Brush 2"Welding Electrodes E6013, 3mmDeformed Steel Bar 9mmDeformed Steel Bar 10mmDeformed Steel Bar 12mmAngle Bar 1/4 x 1-1 /2” StdAngle Bar 1/4 x 1” StdAngle Bar 1/4 x2” Std1. **PTFE THREAD SEAL TAPE**

Teflon Tape 3/4 (12mm)Teflon Tape 1/2( 12mm)Specification:* Material: PTFE (Poly Tetra Fluoroethylene)
* Width: 12 mm
* Length: 10 meters
* Depth: 0.075 mm
* Density: 0.4g/cm³
* Color: White Tape

Product must comply to following requirements:* Heat-resistance: +370°C
* Cold-resistance:-190°C
* Tensile Strenght: ≥8MPa
* Percentage Elongation: >=25%

High Pressure Resistance: 150-200Kg/CM² |  |  |
|  | 300 Pcs.500 Pcs.100 Pcs.20 Pcs.100 Pcs.100 Pcs.300 Meters. | LOT 2- ₱ 1,084,400.001. **POLY COMPRESSION FITTINGS**

Plastic Adaptor 1/2"Plastic Union Coupling ½”Plastic Saddle Clamp 2”x ¾Plastic Saddle Clamp 8” x 2”Specification:* Working Pressure: PN16
* Standard: BS5114, AS4020 Polyethlylene Pipe PE80 & PE100 ISO 4427, MS1058

Material:* Body: Polypropylene
* Nut: Polypropylene
* Holder: Polypropylene
* Clinching Ring: Acetal
* O Ring: Nitrile Butadiene Rubber
1. **UNPLASTICIZED POLYVINYL CHLORIDE (UPVC)**

UPVC Pipe 4x6 mtrs. (100mm)Specification:* Nominal outside diameter, 110 mm
* Diameter tolerance, 110.40 mm
* Minimum wall thickness, 6.3 mm
* Minimum socket depth, not less than 114 mm

UPVC Pipe 3x6Specification:* Nominal outside diameter, 90 mm
* Diameter tolerance, 90.3 mm
* Minimum wall thickness, 5.20 mm
* Minimum socket depth, not less than 107 mm

PIPE COMPOSITION FOR ITEM 35 AND 36* In accordance to PNS 65:1993 for uPVC Pipes for Potable Water Supply
* PVC resin should be made with 90% K65 Resin By Mass in accordance to PNS 291:1991
* Normal Working Pressure, 150 psi
* Maximum Working Pressure, 760 psi
* C-Value ( Hazen- Williams flow factor) is in range from 140 to 160
* 15ᵒ chamfered at tail end in accordance to PNS 65:1993
* Socket type in accordance to ISO 1452-2
* Temperature resistance at 170ᵒC
* 2024 year up to present manufactured
* Genuine printing/Marking

The pipes shall be clearly marked with the following information spaced at intervals of not more than one meter with the following text:* Name of Product
* Nominal outside diameter, mm
* Series and/or Nominal Pressure, Mpa
* Manufacturer’s name and/or recognized trademark
* The words “Made in the Phil.”
* The words “For Potable Water”

Jointing/Seal* Machine-installed metal reinforced integrated gasket seal in accordance to ISO4633 (EPDM rubber) and SAE1008 (Carbon Steel)
* Resilient with chemical contact associated in treatment of potable water
1. **HDPE PIPE**

Black PE Tubing 1-1/2”Specification:* Nominal size: 1-1/2"
* Outside Diameter: 50mm
* Cutting Length: 60 meters
* P.R. 160 PSI, SDR 11, 4.55 mm.

Additional requirement:* Bidders must provide samples for small fittings and brochure for big ones.
* FOB Kabankalan City
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|  | 10 Pcs.10 Pcs.10 Pcs.10 Pcs.10 Pcs.10 Pcs.10 Pcs.10 Pcs.10 Pcs.50 Pcs.5 Pcs.20 Pcs.10 Pcs.20 Pcs. | LOT 3-₱ 519,650.001. **FABRICATED FITTINGS**

Sleeve Type Coupling 2"x 10”Sleeve Type Coupling 3"x 10”Sleeve Type Coupling 4"x 10”Sleeve Type Coupling 6"x 10”Mechanical Flange Adaptor 3"Mechanical Elbow 4"x 90°Mechanical Elbow 6"x 45°Mechanical Elbow 6"x 90°Mechanical Elbow 3"x 90°Mechanical Gasket 2”Mechanical Tee 4”x 4”Flange Follower 4 HolesMechanical Follower 4 HolesFlange Follower 6 HolesSpecification:* Black Iron Materials
* Cement-coated (In and Out)
* With neocrene rubber gasket
* With GI Bolt and Nuts 1/2" x 2-1/2"(L)
* Black paint coating

Additional Requirements:* Bidders must provide samples for small fittings and brochure for big fittings.

FOB Kabankalan |  |  |

Total Bid in Words\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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