

Section VIII. Bill of Quantities

**REHABILITATION OF NEW VISAYAS-BANAGBANAG, MONTEVISTA TO MAGADING,
NABUNTURAN ROAD WITH EXPANSION OF EXISTING BRIDGE
New Visayas - Banagbanag, Montevista to Magading, Nabunturan, Davao de Oro
Subproject ID No.: PRDP-SU-IB-R011-DDO-004-000-000-2023-FMB-R1**

| Item No. | Scope Of Works | Quantity | Unit | Unit Cost | Total Cost |
|-----------------|--|-----------------|--------------|------------------|-------------------|
| I | General Requirement | | | | |
| A.1.1(3) | Construction Of Field Office For The Engineer | 1.00 | Lump Sum | | |
| B.4(1) | Construction Survey And Staking | 8.33 | Kilometer | | |
| B.5 | Project Billboard/Signboard | 2.00 | Each | | |
| B.7(2) | Occupational Safety & Health Program | 1.00 | Lump Sum | | |
| B.8(2) | Traffic Management | 1.00 | Lump Sum | | |
| B.9 | Mobilization/Demobilization | 1.00 | Lump Sum | | |
| II | Rehabilitation Of Farm To Market Road | | | | |
| 100(3)a2 | Individual Removal Of Trees (Small, 301-500mm Dia.) | 311.00 | Each | | |
| 101(1) | Removal Of Structures And Obstruction (Other Than Concrete) | 1.00 | Lump Sum | | |
| 101(3)b2 | Removal Of Actual Structures/Obstruction (PCCP Unreinforced - 0.20m Thick) | 90.00 | Square Meter | | |
| 101(8) | Removal Of Existing Guardrails | 266.00 | Linear Meter | | |
| 101(4)a3 | Removal Of Actual Structure/Obstruction - 910mm Dia RCPC | 97.00 | Linear Meter | | |
| 102(1) | Unsuitable Excavation | 15,600.00 | Cubic Meter | | |
| 103(1)a | Structure Excavation | 9,152.68 | Cubic Meter | | |
| 103(3) | Foundation Fill | 53.71 | Cubic Meter | | |
| 104(1)a | Embankment From Roadway Excavation | 5,628.13 | Cubic Meter | | |
| 104(2)a | Embankment From Borrow | 49,256.18 | Cubic Meter | | |
| 105 (1)a | Subgrade Preparation (Common Material) | 85,479.46 | Square Meter | | |
| 200(1) | Aggregate Subbase Course | 30,740.79 | Cubi Meter | | |

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| 311(1)c1 | Portland Cement Concrete Pavement (Unreinforced), 230mm Thick | 43,487.60 | Square Meter | | |
| 311(2)f1 | Portland Cement Concrete Pavement (Reinforced), 300mm Thick | 57.80 | Square Meter | | |
| 404(1)a | Reinforcing Steel, Grade 40 | 6,530.53 | Kilogram | | |
| 405(1)a3 | Structural Concrete, Class A | 266.33 | Cubic Meter | | |
| 500(1)a1 | Pipe Culverts 610mm Diameter, Class II | 32.00 | Linear Meter | | |
| 500(1)a3 | Pipe Culverts 910mm Diameter, Class II | 180.00 | Linear Meter | | |
| 500(1)b7 | Pipe Culverts 1830mm Diameter, Class IV | 20.00 | Linear Meter | | |
| 506(1) | Stone Masonry | 13,884.62 | Cubic Meter | | |
| 508(1) | Hand-Laid Rock Embankment | 3,280.00 | Cubic Meter | | |
| 602(3)b | Kilometer Posts (Precast) | 2.00 | Each | | |
| 603(3)a1 | Metal Guardrail (Metal Beam) Including Concrete Post | 13,875.00 | Linear Meter | | |
| 603(4)a | Metal Beam End Piece | 126.00 | Each | | |
| 605(1)b1 | Warning Signs (W1-2A) | 2.00 | Each | | |
| 605(1)c1 | Warning Signs (W1-3A) | 4.00 | Each | | |
| 605(1)e1 | Warning Signs (W1-5A) | 2.00 | Each | | |
| 605(1)g2 | Warning Signs (W2-1B) | 18.00 | Each | | |
| 605(1)j2 | Warning Signs (W2-4B) | 2.00 | Each | | |
| 605(1)l2 | Warning Signs (W2-6B) | 22.00 | Each | | |
| 605(1)ai1 | Warning Signs (W6-1B) | 2.00 | Each | | |
| 605(1)aj1 | Warning Signs (W6-2B) | 2.00 | Each | | |
| 605(6)e1 | Hazard Markers (Chevron Signs - 450mm X 600mm) | 10.00 | Each | | |
| 612(1) | Reflectorized Thermoplastic Pavement Markings (White) | 1,735.36 | Square Meter | | |
| 612(2) | Reflectorized Thermoplastic Pavement Markings (Yellow) | 1,247.52 | Square Meter | | |
| III | Construction Of Bridge | | | | |
| 101(1) | Removal Of Actual Structures And Obstruction | 1.00 | Lump Sum | | |
| 103(2)a | Bridge Excavation | 293.60 | Cubic Meter | | |

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|-------------------------|--|----------|--------------|--|--|
| 104(2)a | Embankment from Borrow | 1,718.51 | Cubic Meter | | |
| 311(2)f1 | Portland Cement Concrete Pavement (Reinforced), 300mm Thick | 57.50 | Square Meter | | |
| 400(17)e | Concrete Piles Cast In Drilled Holes, 1.20m Dia. $f_c=27.58\text{mpa}$, 28 Days | 60.00 | Meter | | |
| 400(23)e2 | Permanent Casing, 1.20m Dia. 12mm thk. | 12.00 | Meter | | |
| 400(26)a | Pile Integrity Testing, Crosshole-Sonic | 2.00 | Each | | |
| 400(27) | High Strain Dynamic Test (P.D.A) | 2.00 | Each | | |
| 400(33) | Steel Casing (Temporary, 1.20m. Dia.) | 48.00 | Linear Meter | | |
| 401(2)a | Concrete Railing, Standard | 14.00 | Meter | | |
| 404(1)a | Reinforcing Steel, Grade 40 | 5,055.00 | Kilogram | | |
| 404(1)b | Reinforcing Steel, Grade 60 | 5,526.00 | Kilogram | | |
| 405(1)b3 | Structural Concrete, 27.58mpa, Class A, 28 Days | 54.55 | Cubic Meter | | |
| 407(8) | Lean Concrete, Class B (16.50mpa) | 0.66 | Cubic Meter | | |
| 411(2) | Paint | 70.29 | Square Meter | | |
| 413(4)b | Expansion Joint – Steel Finger Type | 15.60 | Linear Meter | | |
| 505(2)a | Grouted Riprap, Class A | 426.00 | Cubic Meter | | |
| 507(1) | Rubble Concrete | 65.28 | Cubic Meter | | |
| 517(1)a | Drain Pipe, Galvanized (150mm Dia.) | 1.20 | Linear Meter | | |
| 612(1) | Reflectorized Thermoplastic Pavement Markings (White) | 3.00 | Square Meter | | |
| 612(2) | Reflectorized Thermoplastic Pavement Markings (Yellow) | 2.25 | Square Meter | | |
| IV | Retrofitting Of Existing Bridge | | | | |
| 416(1)b | Carbon Fiber (2 Layers) | 57.60 | Square Meter | | |
| 416(1)e | Carbon Fiber (Plate) | 60.16 | Linear Meter | | |
| 628(3) | Epoxy Injection On Crack | 10.60 | Linear Meter | | |
| Total Bid Amount | | | | | |

Total Amount in Words:

Submitted by:

Name of Contractor/Authorized Representative

Please follow the **link** <https://tinyurl.com/BOQ-of-Davao-de-Oro> for downloadable and editable Bill of Quantities (BOQ).