**ANNEX VIII**

**FINANCIAL PROPOSAL SUBMISSION FORM REV 1**

*Request for Proposal (RFP) no.: 21-052*

*Supply of materials and construction of flood control measures for Soasoa and Qawa drainage scheme, in Labasa, Fiji*

1. **Cost Proposal** – The following Item A1.0 schedule is provided only as a guide for the cost proposal and is non-exhaustive list. The bidder shall ensure that all items and quantities are sufficient to complete the scope of works.

All prices quoted are in Fijian Dollars and inclusive of all taxes, duties and freight cost (if any).

1. **Material List**

|  |  |
| --- | --- |
| **1** | **Steel Trash Racks - 5 Barrel** |
| **Item No.** | **Member** | **Quantity (Amount)** | **Unit** | **Size per length or area** | **Unit** | **Unit Weight conversion (kg/m or kg/m²)** | **Total Weight (kg)** |
| 1.1 | 610x50x10 MS STRIP | 20 | Length | 0.61 | m | 3.93 | 47.95 |
| 1.2 | 190X50X10 MS STRIP  | 180 | Length | 0.19 | m | 3.93 | 134.41 |
| 1.3 | 2650X50X10 MS STRIP  | 180 | Length | 2.65 | m | 3.93 | 1874.61 |
| 1.4 | 610X50X50X10 MS ANGLE | 20 | Length | 0.61 | m | 7.85 | 95.77 |
| 1.5 | 200X50X10 MS STRIP | 180 | Length | 0.2 | m | 3.93 | 141.48 |
| 1.6 | 108.5X40X5 MS STRIP | 40 | Length | 0.1085 | m | 1.57 | 6.81 |
| 1.7 | 610X50X10 MS STRIP | 20 | Length | 0.61 | m | 3.93 | 47.95 |
| 1.8 | 16mmØX200mm BOLTS | 40 | no. |   |   |   |   |
| **2** | **Guard Railings** |
| 2.1 | 50mmØ galv. SCH 40 pipe | 15 | Length | 1 | m | 6.19 | 92.85 |
| 2.2 | 40mmØ galv. SCH 40 pipe | 9 | Length | 1.6 | m | 4.38 | 63.072 |
| 2.3 | 40mmØ galv. SCH 40 pipe | 9 | Length | 1.6 | m | 4.38 | 63.072 |
| 2.4 | 50mmØ galv. SCH 40 pipe | 10 | Length | 1.2 | m | 6.19 | 74.28 |
| 2.5 | 150mm x 80mm x 6mm MS plate | 10 | Sheet | 0.012 | m² | 47.1 | 5.652 |
| 2.6 | M12 x 150mm DYNABOLTS | 20 | no. |   |  |   |   |
| **3** | **Paint for Steel Trash Racks** |
| 3.1 | Transpoxy Tar AA 2.12 -Gripset Bitument Rubber Membrane Paint | 1 | bucket (15L) |   |  |   |   |
| 3.2 | Transpoxy Primer 2.19 | 4 | tin (4L) |   |   |   |   |
| 3.3 | Transpoxy Primer 1.16 | 2 | tin (4L) |   |  |   |   |
| **4** | **Reinforcing Steel for Trash Rack Concrete Structure** |
| 4.1 | 16mmØ deformed round bars, 6m Length | 16 | length |   |  |   |   |
| 4.2 | 12mmØ deformed round bars, 6m Length | 497 | length |   |   |   |   |
| **5** | **Concrete for Trash Rack Concrete Structure** |
| 5.1 | 40MPa concrete | 48 | m³ |   |   |   |   |
| 5.2 | 25MPa concrete | 12 | m³ |   |   |   |   |
| 5.3 | 15MPa concrete | 10 | m³ |   |   |   |   |
| **6** | **Grouted Riprap for Outlet** |
| 6.1 | Cement (40kg) | 27 | bags  |   |   |   |   |
| 6.2 | Sand | 3622 | kg |   |   |   |   |
| 6.3 | 300-350 boulders | 4.5 | m³ |   |   |   |   |

|  |  |
| --- | --- |
| **2** | **Double Barrel Flood Gate (4 leafs)** |
| **Item No.** | **Member** | **Quantity (Amount)**  | **Unit** | **Size per length or area** | **Unit** | **Unit Weight conversion (kg/m or kg/m²)** | **Total Weight (kg)** | **Drawing Reference** |
| 1.1 | 125X65x6mm mild steel channel | 4 | Length | 1.15 | m | 13.4 | 61.64 | N/D/LB 1170 REV 1 - Sheet 1 of 3 |
| 1.2 | 127X65x6mm mild steel channel | 6 | Length | 2.35 | m | 13.4 | 188.94 |
| 1.3 | 2350x1150x6mm mild steel plate | 1 | Sheet | 2.7 | m² | 47.1 | 127.17 |
| 1.4 | 2350x570x6mm mild steel plate | 4 | Sheet | 1.34 | m² | 47.1 | 252.46 |
| **2** | **Top Hinge Bracket** |
| 2.1 | 185x135x10mm mild steel plate | 4 | Sheet | 0.025 | m² | 78.5 | 7.85 | Detail I - N/D/LB 1170 REV 1 - Sheet 2 of 3 |
| 2.2 | 125x127x10mm mild steel plate | 4 | Sheet | 0.016 | m² | 78.5 | 5.02 |
| 2.3 | 115x50x10mm mild steel plate | 8 | Sheet | 0.006 | m² | 78.5 | 3.77 |
| 2.4 | 115x30x10mm mild steel plate | 4 | Sheet | 0.004 | m² | 78.5 | 1.26 |
| 2.5 | 127x113x10mm mild steel plate | 8 | Sheet | 0.015 | m² | 78.5 | 9.42 |
| **3** | **Bottom Hinge Bracket** |
| 3.1 | 188x113x10mm mild steel plate | 4 | Sheet | 0.02 | m² | 78.5 | 6.28 | N/D/LB 1170 REV 1 - Sheet 3 of 3 |
| 3.2 | 127x113x10mm mild steel plate | 4 | Sheet | 0.015 | m² | 78.5 | 4.71 | N/D/LB 1170 REV 1 - Sheet 2 of 3 |
| 3.3 | 10mm mild steel plate (triangle: 50 base x 75 height) | 8 | Sheet | 0.002 | m² | 78.5 | 1.26 |
| **4** | **Lifting Eye** |
| 4.1 | 200x75x10mm mild steel plate | 4 | Sheet | 0.015 | m² | 78.5 | 4.71 | N/D/LB 1170 REV 1 - Sheet 3 of 3 |
| 4.2 | 120x100x10mm mild steel plate | 4 | Sheet | 0.012 | m² | 78.5 | 3.768 |   |
| **5** | **Stainless Steel Ferrules** |
| 5.1 | 16mmØ x 30mm long stainless steel ferrules internal threaded 25mm long for 8mmØ bolts | 128 | no. |   |  |   |   | N/D/LB 1170 REV 1 - Sheet 3 of 3 |
| 5.2 | 8mmø stainless steel bolts & washers | 128 | no. |   |   |   |   |   |
| **6** | **Retaining Strips for Rubber seals** |
| 6.1 | 25x3 stainless steel flat bar | 4 | Length | 1.024 | m |   |   | N/D/LB 1170 REV 1 - Sheet 3 of 3 |
| 6.2 | 25x3 stainless steel flat bar | 4 | Length | 2.174 | m |   |   |
| 6.3 | 32mmØ bulb "P" musical note rubber seal | 4 | Length | 2.3 | m |   |   | N/D/LB 1170 REV 1 - Sheet 1 of 3 |
| 6.4 | 32mmØ bulb "P" musical note rubber seal | 4 | Length | 1.1 | m |   |   |
| **7** | **Upper Bearing Bracket** |
| 7.1 | 465x150x10mm mild steel plate | 2 | Sheet | 0.07 | m² | 78.5 | 10.99 | N/D/LB 1172 Sheet 1 of 1 |
| 7.2 | 335x70x10mm mild steel plate | 2 | Sheet | 0.024 | m² | 78.5 | 3.77 |
| 7.3 | 120mmØOD (80mm ID) x 70mm long mild steel pipe | 2 | Length | 0.07 | m | 88.78 | 12.43 |
| 7.4 | M16 bronze marine grade adjusting bolts  | 6 | no. |   |   |   |   |
| 7.5 | M16 bronze marine grade lock nuts | 12 | no. |   |   |   |   |
| **8** | **Upper Bearing** |
| 8.1 | 16mmØ x 60mm long stainless steel marine grade bolts | 16 | no. |   |  |   |   | N/D/LB 1172 Sheet 1 of 1 |
| 8.2 | 6mmØ x 70mm long mild steel rod | 16 | Length | 0.07 | m | 0.22 | 0.2464 |
| 8.3 | 28mmØ x 55mm long (50mm threaded) stainless steel ferrule to accommodate 16mmØ bolts | 16 | no. |   |  |   |   |
| **9** | **Upper Pintle** |
| 9.1 | 50mmØ x240mm long stainless steel rod | 4 | no. |   |   |   |   | N/D/LB 1172 Sheet 1 of 1 |
| 9.2 | 100mmØ(OD) x50mmØ ID x 10mm stainless steel plate  | 4 | no. |   |   |   |   |
| **10** | **Lower Pintle Brackets Shims** |
| 10.1 | 220x110x16mm thick stainless steel plate | 4 | no. |   |   |   |   | N/D/LB 1171 Sheet 2 of 2 |
| 10.2 | 220x110x8mm thick stainless steel plate | 4 | no. |   |   |   |   |
| 10.3 | 220x110x4mm thick stainless steel plate | 4 | no. |   |   |   |   |
| 10.4 | 220x110x2mm thick stainless steel plate | 4 | no. |   |   |   |   |
| 10.5 | 220x110x1mm thick stainless steel plate | 4 | no. |   |   |   |   |
| **11** | **Lower Bearing** |   |   |   |   |   |   |   |
| 11.1 | 16mmØx100mm long stainless steel cast in sockets | 16 | no. |   |  |   |   | N/D/LB 1171 Sheet 2 of 2 |
| **12** | **Lower Pintle Bearing** |
| 12.1 | 150mmø (OD) x 75mmø ID x 10mm stainless steel plate | 4 | no. |   |  |   |   | N/D/LB 1171 Sheet 1 of 2 |
| 12.2 | 75mmØ x 90mm long stainless steel round bar (profile to bearing cup forming 56 dia x 70mm long hole) | 4 | no. |   |   |   |   |
| 12.3 | 60mmØ x 20mm stainless steel plate and cut 17x14mm groove along diameter | 4 | no. |   |  |   |   |
| **13** | **Lower Pintle Bracket** |
| 13.1 | 125x90x10mm stainless steel plate | 8 | no. |   |   |   |   | N/D/LB 1171 Sheet 1 of 2 |
| 13.2 | 190x135x10mm stainless steel plate | 8 | no. |   |   |   |   |
| 13.3 | 170x90x10mm stainless steel plate with 4 slots for bolts | 4 | no. |   |   |   |   |
| 13.4 | 10x10x75mm long stainless steel block | 4 | no. |   |   |   |   |
| **14** | **Lower Pintle** |
| 14.1 | 50mmØ x200mm long stainless steel rod | 2 | no. |   |  |   |   | N/D/LB 1171 Sheet 2 of 2 |
| 14.2 | 100mmØ(OD) x 50mmØ ID x 10mm stainless steel plate  | 2 | no. |   |   |   |   |
| **15** | **Steel Tide Gate Paint** |
| 15.1 | Transpoxy Tar AA 2.12 -Gripset Bitument Rubber Membrane Paint | 2 | bucket (15L) |   |   |   |   |   |
| 15.2 | Transpoxy Primer 2.19 | 3 | tin (4L) |   |   |   |   |   |
| 15.3 | Transpoxy Primer 1.16 | 2 | tin (4L) |   |   |   |   |   |
| **16** | **Steel Trap Door** |
| 16.1 | 50x50x8 galv. mild steel equal angles | 4 | Length | 0.6 | m | 5.82 | 13.97 |   |
| 16.2 | 50x50x8 galv. mild steel equal angles | 4 | Length | 1.96 | m | 5.82 | 45.63 |   |
| 16.3 | 16mm dia galv. mild steel round bars | 46 | Length | 0.52 | m | 1.578 | 37.75 |   |
| 16.4 | 25mm dia galv. mild steel round bar | 2 | Length | 1.9 | m | 3.853 | 14.64 |   |
| 16.5 | 16mm dia galv. mild steel round bars | 4 | Length | 0.6 | m | 1.578 | 3.79 |   |
| 16.6 | 25mm dia x 4.0mm thck x 50mm long galv. mild steel pipe | 4 | Length | 0.05 | m | 2.99 | 0.60 |   |
| 16.7 | 62.5mm x 62.5mm x 10mm mild steel plate | 4 | Length | 0.004 | m | 78.5 | 1.26 |   |
| 16.8 | 1 1/4" x 50mm long galv. mild steel pipe | 4 | Length | 0.05 | m | 2.46 | 0.49 |   |
| 16.9 | 20mm dia x 420mm long galv. mild steel round bars | 4 | Length | 0.42 | m | 2.466 | 4.14 |   |
| 16.10 | 16mm dia galv. mild steel round bars | 4 | Length | 0.5 | m | 1.578 | 3.16 |   |
| 16.11 | 16mm dia galv. bolts x 50mm long | 4 | No. |   |   |   |  |   |
| 16.12 | Heavy Duty Padlock | 4 | No. |   |   |   |  |   |
| **17** | **Reinforcing Steel for Concrete Top Cover Slabs** |
| 17.1 | 12mmØ deformed round bars | 32 | Length |   |  | 0.888 | 170.50 |   |
| 17.2 | 6mmØ deformed round bars | 5 | Length |   |   | 0.22 | 6.60 |   |
| **18** | **Reinforcing Steel for Double Barrel Tide Gate Concrete Structure** |
| 18.1 | 10mmØ deformed round bars, 6m length | 208 | Length |   |   | 0.617 | 770.02 |   |
| 18.2 | 12mmØ deformed round bars, 6m length | 463 | Length |   |   | 0.888 | 2466.86 |   |
| 18.3 | 16mmØ deformed round bars, 6m length | 28 | Length |   |   | 1.578 | 265.10 |   |
| 18.4 | 20mmØ deformed round bars, 6m length | 4 | Length |   |   | 2.466 | 59.18 |   |
| **19** | **Concrete for Double Barrel Tide Gate Structure** |
| 19.1 | 40MPa concrete | 74 | m³ |   |  |   |   |   |
| 19.2 | 25MPa concrete | 4.9 | m³ |   |   |   |   |   |
| 19.3 | 15MPa concrete | 13 | m³ |   |  |   |   |   |
| **20** | **Screw Plugs** |
| 20.1 | 50mmØ x50mm long steel flange bolt grade 8.8 | 8 | nos. |   |   |   |   |   |

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| --- | --- |
| **3** | **Double Barrel Flood Gate (4 leafs)** |
| **Item No.** | **Member** | **Quantity (Amount)**  | **Unit** | **Size per length or area** | **Unit** | **Unit Weight conversion (kg/m or kg/m²)** | **Total Weight (kg)** | **Drawing Reference** |
| 1.1 | 125X65x6mm mild steel channel  | 4 | Length | 1.15 | m | 13.4 | 61.64 | N/D/LB 1170 REV 1 - Sheet 1 of 3 |
| 1.2 | 125X65x6mm mild steel channel  | 6 | Length | 2.35 | m | 13.4 | 188.94 |
| 1.3 | 2350x1150x6mm mild steel plate  | 1 | Sheet | 2.7 | m² | 47.1 | 127.17 |
| 1.4 | 2350x570x6mm mild steel plate | 4 | Sheet | 1.34 | m² | 47.1 | 252.46 |
| **2** | **Top Hinge Bracket** |
| 2.1 | 185x135x10mm mild steel plate | 4 | Sheet | 0.025 | m² | 78.5 | 7.85 | Detail I - N/D/LB 1170 REV 1 - Sheet 2 of 3 |
| 2.2 | 125x127x10mm mild steel plate | 4 | Sheet | 0.016 | m² | 78.5 | 5.02 |
| 2.3 | 115x50x10mm mild steel plate | 8 | Sheet | 0.006 | m² | 78.5 | 3.77 |
| 2.4 | 115x30x10mm mild steel plate | 4 | Sheet | 0.004 | m² | 78.5 | 1.26 |
| 2.5 | 127x113x10mm mild steel plate | 8 | Sheet | 0.015 | m² | 78.5 | 9.42 |
| **3** | **Bottom Hinge Bracket** |
| 3.1 | 188x113x10mm mild steel plate | 4 | Sheet | 0.02 | m² | 78.5 | 6.28 | N/D/LB 1170 REV 1 - Sheet 3 of 3 |
| 3.2 | 127x113x10mm mild steel plate | 4 | Sheet | 0.015 | m² | 78.5 | 4.71 | N/D/LB 1170 REV 1 - Sheet 2 of 3 |
| 3.3 | 10mm mild steel plate (triangle: 50 base x 75 height) | 8 | Sheet | 0.002 | m² | 78.5 | 1.26 |
| **4** | **Lifting Eye** |
| 4.1 | 200x75x10mm mild steel plate | 4 | Sheet | 0.015 | m² | 78.5 | 4.71 | N/D/LB 1170 REV 1- Sheet 3 of 3 |
| 4.2 | 120x100x10mm mild steel plate | 4 | Sheet | 0.012 | m² | 78.5 | 3.768 |   |
| **5** | **Stainless Steel Ferrules** |
| 5.1 | 16mmØ x 30mm long stainless steel ferrules internal threaded 25mm long for 8mmØ bolts | 128 | no. |   |  |   |   | N/D/LB 1170 REV 1 - Sheet 3 of 3 |
| 5.2 | 8mmø stainless steel bolts & washers | 128 | no. |   |   |   |   |
| **6** | **Retaining Strips for Rubber seals** |
| 6.1 | 25x3 stainless steel flat bar | 4 | Length | 1.024 | m |   |   | N/D/LB 1170 REV 1 - Sheet 3 of 3 |
| 6.2 | 25x3 stainless steel flat bar | 4 | Length | 2.174 | m |   |   |
| 6.3 | 32mmØ bulb "P" musical note rubber seal | 4 | Length | 2.3 | m |   |   | N/D/LB 1170 REV 1 - Sheet 1 of 3 |
| 6.4 | 32mmØ bulb "P" musical note rubber seal | 4 | Length | 1.1 | m |   |   |
| **7** | **Upper Bearing Bracket** |
| 7.1 | 465x150x10mm mild steel plate | 2 | Sheet | 0.07 | m² | 78.5 | 10.99 | N/D/LB 1172 Sheet 1 of 1 |
| 7.2 | 335x70x10mm mild steel plate | 2 | Sheet | 0.024 | m² | 78.5 | 3.77 |
| 7.3 | 120mmØOD (80mm ID) x 70mm long mild steel pipe | 2 | Length | 0.07 | m | 88.78 | 12.43 |
| 7.4 | M16 bronze marine grade adjusting bolts  | 6 | no. |   |  |   |   |
| 7.5 | M16 bronze marine grade lock nuts | 12 | no. |   |   |   |   |
| **8** | **Upper Bearing** |
| 8.1 | 16mmØ x 60mm long stainless steel marine grade bolts | 16 | no. |   |  |   |   | N/D/LB 1172 Sheet 1 of 1 |
| 8.2 | 6mmØ x 70mm long mild steel rod | 16 | Length | 0.07 | m | 0.22 | 0.2464 |
| 8.3 | 28mmØ x 55mm long (50mm threaded) stainless steel ferrule to accommodate 16mmØ bolts | 16 | no. |   |  |   |   |
| **9** | **Upper Pintle** |
| 9.1 | 50mmØ x240mm long stainless steel rod | 4 | no. |   |  |   |   | N/D/LB 1172 Sheet 1 of 1 |
| 9.2 | 100mmØ(OD) x50mmØ ID x 10mm stainless steel plate  | 4 | no. |   |   |   |   |
| **10** | **Lower Pintle Brackets Shims** |
| 10.1 | 220x110x16mm thick stainless steel plate | 4 | no. |   |   |   |   | N/D/LB 1171 Sheet 2 of 2 |
| 10.2 | 220x110x8mm thick stainless steel plate | 4 | no. |   |   |   |   |
| 10.3 | 220x110x4mm thick stainless steel plate | 4 | no. |   |   |   |   |
| 10.4 | 220x110x2mm thick stainless steel plate | 4 | no. |   |   |   |   |
| 10.5 | 220x110x1mm thick stainless steel plate | 4 | no. |   |   |   |   |
| **11** | **Lower Bearing** |   |   |   |   |   |   |   |
| 11.1 | 16mmØx100mm long stainless steel cast in sockets | 16 | no. |   |   |   |   | N/D/LB 1171 Sheet 2 of 2 |
| **12** | **Lower Pintle Bearing** |
| 12.1 | 150mmø (OD) x 75mmø ID x 10mm stainless steel plate | 4 | no. |   |   |   |   | N/D/LB 1171 Sheet 1 of 2 |
| 12.2 | 75mmØ x 90mm long stainless steel round bar (profile to bearing cup forming 56 dia x 70mm long hole) | 4 | no. |   |   |   |   |
| 12.3 | 60mmØ x 20mm stainless steel plate and cut 17x14mm groove along diameter | 4 | no. |   |   |   |   |
| **13** | **Lower Pintle Bracket** |
| 13.1 | 125x90x10mm stainless steel plate | 8 | no. |   |   |   |   | N/D/LB 1171 Sheet 1 of 2 |
| 13.2 | 190x135x10mm stainless steel plate | 8 | no. |   |   |   |   |
| 13.3 | 170x90x10mm stainless steel plate with 4 slots for bolts | 4 | no. |   |   |   |   |
| 13.4 | 10x10x75mm long stainless steel block | 4 | no. |   |   |   |   |
| **14** | **Lower Pintle** |
| 14.1 | 50mmØ x200mm long stainless steel rod | 2 | no. |   |   |   |   | N/D/LB 1171 Sheet 2 of 2 |
| 14.2 | 100mmØ(OD) x 50mmØ ID x 10mm stainless steel plate  | 2 | no. |   |   |   |   |
| **15** | **Steel Tide Gate Paint** |
| 15.1 | Transpoxy Tar AA 2.12 -Gripset Bitument Rubber Membrane Paint | 2 | bucket (15L) |   |   |   |   |   |
| 15.2 | Transpoxy Primer 2.19 | 3 | tin (4L) |   |   |   |   |   |
| 15.3 | Transpoxy Primer 1.16 | 2 | tin (4L) |   |   |   |   |   |
| **16** | **Steel Trap Door** |
| 16.1 | 50x50x8 galv. mild steel equal angles | 4 | Length | 0.6 | m | 5.82 | 13.97 |   |
| 16.2 | 50x50x8 galv. mild steel equal angles | 4 | Length | 1.96 | m | 5.82 | 45.63 |   |
| 16.3 | 16mm dia galv. mild steel round bars | 46 | Length | 0.52 | m | 1.578 | 37.75 |   |
| 16.4 | 25mm dia galv. mild steel round bar | 2 | Length | 1.9 | m | 3.853 | 14.64 |   |
| 16.5 | 16mm dia galv. mild steel round bars | 4 | Length | 0.6 | m | 1.578 | 3.79 |   |
| 16.6 | 25mm dia x 4.0mm thck x 50mm long galv. mild steel pipe | 4 | Length | 0.05 | m | 2.99 | 0.60 |   |
| 16.7 | 62.5mm x 62.5mm x 10mm mild steel plate | 4 | Sheet | 0.004 | m² | 78.5 | 1.26 |   |
| 16.8 | 1 1/4" x 50mm long galv. mild steel pipe | 4 | Length | 0.05 | m | 2.46 | 0.49 |   |
| 16.9 | 20mm dia x 420mm long galv. mild steel round bars | 4 | Length | 0.42 | m | 2.466 | 4.14 |   |
| 16.10 | 16mm dia galv. mild steel round bars | 4 | Length | 0.5 | m | 1.578 | 3.16 |   |
| 16.11 | 16mm dia galv. bolts x 50mm long | 4 | no. |   |  |   |  |   |
| 16.12 | Heavy Duty Padlock | 4 | no. |   |   |   |  |   |
| **17** | **Reinforcing Steel for Concrete Top Cover Slabs** |
| 17.1 | 12mmØ deformed round bars, 6m length | 32 | Length |   |   | 0.888 | 170.50 |   |
| 17.2 | 6mmØ deformed round bars, 6m length | 5 | Length |   |   | 0.22 | 6.60 |   |
| **18** | **Reinforcing Steel for Double Barrel Tide Gate Concrete Structure** |
| 18.1 | 10mmØ deformed round bars, 6m length | 225 | Length |   |   | 0.617 | 832.95 |   |
| 18.2 | 12mmØ deformed round bars (including steel for outlet reinforced concrete), 6m length | 485 | Length |   |   | 0.888 | 2584.08 |   |
| 18.3 | 16mmØ deformed round bars, 6m length | 28 | Length |   |   | 1.578 | 265.10 |   |
| 18.4 | 20mmØ deformed round bars, 6m length | 4 | Length |   |   | 2.466 | 59.18 |   |
| **19** | **Concrete for Double Barrel Tide Gate Structure** |
| 19.1 | 40MPa concrete | 74 | m³ |   |   |   |   |   |
| 19.2 | 25MPa concrete | 12 | m³ |   |   |   |   |   |
| 19.3 | 15MPa concrete | 20 | m³ |   |   |   |   |   |
| **20** | **Grouted Riprap** |
| 20.1 | Cement (40kg) | 33 | bags  |   |   |   |   |   |
| 20.2 | Sand | 4445 | kg |   |   |   |   |   |
| 20.3 | 300-350 boulders | 5.1 | m³ |   |   |   |   |   |
| **21** | **Screw Plugs** |
| 21.1 | 50mmØ x50mm long steel flange bolt grade 8.8 | 8 | no. |   |   |   |   |   |

1. **Bill of Quantities (BoQ)**

Bidder must fill/itemize cost for each of the different bills, from Bill 1 to Bill 5 as shown in the tables below.

|  |  |  |  |
| --- | --- | --- | --- |
| **Bill No. 1a: Contract No. 1, Mobilization & Demobolization** |   |   |   |
| **Item No.** | **Description** | **Unit** | **Qty** | **Rate FJD (VIP)** | **Amount FJD (VIP)** |
| 1.1 | **Mobilization and Demobilization-** Provide and strictly comply to complete the proposed tide gate structures and seawall heightening as specified, necessary requirements including establishment of temporary accommodation for workers, construction materials shed, mobilization of required equipment as specified, and demobilization after fully completing the construction works and clearing of sites to the satisfaction of the Engineer. | Item | 1 |  $  | $  |
|   | **Total of Bill 1 carried over to Main Summary**  |   |   |  | **$**  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Bill No. 1b: Contract No. 2, Mobilization & Demobolization** |   |   |   |
| **Item No.** | **Description** | **Unit** | **Qty** | **Rate FJD (VIP)** | **Amount FJD (VIP)** |
| 1.1 | **Mobilization and Demobilization-** Provide and strictly comply to complete the proposed trash rack structure as specified , necessary requirements including establishment of temporary accommodation for workers, construction materials shed, construction of access road to proposed trash rack structure, mobilization of required equipment as specified, and demobilization after fully completing the construction works and clearing of sites to the satisfaction of the Engineer. | Item | 1 |  $  | $  |
|   | **Total of Bill 1 carried over to Main Summary**  |   |   |  | **$**  |

|  |  |
| --- | --- |
| **Bill No. 2: Supply of Materials and Construction of Double Barrel Flood Gate Structure - Beside Existing 4 Barrel Flood Gate** |   |
| **Item No.** | **Description** | **Unit** | **Qty** | **Rate FJD(VIP)** | **Amount FJD (VIP)** |
| 2.1 | Site Clearance: Removal of rubbish, debris, vegetation, hedges, dogo, shrubs, bush, and trees and cart away to dumping site located by the Department of Waterways. | Item | 1 |  $  |  $  |
| 2.2 | Allow for diverting flow, dewatering and controlling the water (includes coffer damming on both side of proposed floodgate) to obtain favourable working conditions to the satisfaction of the Engineer, including removal of cofferdam, filling of diversion channel (if any), after completion of construction work. | Item | 1 |  $  |  $  |
| 2.3 | Excavation for the new structure, including foundation, base of structure to design levels, inlet and outlet of structure to bed levels of existing waterways. | m³ | 840 |  $  |  $  |
| 2.4 | Lean Concrete – supply, place, and compact by vibration of 200mm thick concrete underneath concrete structure with the capacity class strength of **15MPa**, trowel and leveled as directed by Engineer.  | m³ | 20 |  $  |  $  |
| 2.5 | **Double Barrel Tide Gate Structure –** Supply, Labour, materials and tools/equipment nd **construct complete double** **barrel tide gate structure** with **ready mix concrete** capacity class strength of **40MPa**. Size and shape of the tide gate structure, reinforcing bars arrangements and all structural details are as shown in the Drawing N/D/LB 1173. Double barrel structure shall be constructed including formworks/ shuttering and trowel to smooth surface fair face and as per drawing No. N/D/LB 1173, sheet 1-6 all 6 sheets A3 design drawings, and to the satisfaction of the Engineer.  | Item | 1 |  $  |  $  |
| 2.6 | Supply labour, material, and tools to fabricate (pre-cast) reinforced concrete cover units for the double barrel tide gate structure including steel trap door on top complete as shown in the drawing No. N/D/LB 1176 REV 1, (2 Nos. of 3.20 m x 2.30 m for the two trap hole openings (2 Nos. x 2700mm) of the double barrel tide gate structure. | Item | 1 |  $  |  $  |
| 2.7 | Backfilling- Supply, transport, place and compact approved earthfill, gravel or red clay on the structure, slope, on top and around of structure. | m³ | 90 |  $  |  $  |
| 2.8 | Stone Pitching- Supply, transport and place of 300 – 350mm dia. size stone pitching, 350mm thick with 1:3 (cement sand mixture) mortar at side slopes of inlet of structure as shown in the design drawings to the satisfaction of the Engineer. | m³ | 8 |  $  |  $  |
| 2.9 | Concreting - Supply, transport and place **ready mix concrete** to form 350mm thick concrete base capacity class strength of **25MPa** with necessary formworks/shuttering including reinforcement at inlet of structure as shown in the design drawings to the satisfaction of the Engineer. | m³ | 7 |  $  |  $  |
| 2.1 | Desilting of outlet waterways on both sides up to design depth and dispose off outside areas, including cutting of vegetation and trees along the line of waterways as directed and to the satisfaction of the Engineer. | Lm | 100 |  $  |  $  |
| 2.11 | Fabrication & Installation of Steel Floodgate Doors – Supply materials, fabricate, transport and install/fix, full complete set of door (1150mm width x 2350mm height) includes accessories, components and required painting works (as shown below list of accessories) to work site or as directed by the Engineer (strictly follow as per specification of fabrication works) and drawings Nos. N/D/LB 1170 REV 1, N/D/LB 1171, and N/D/LB 1172. | Set | 2 |  $  |  $  |
| As for information, all under mentioned accessories must be included with each set of the above floodgate doors. (2 sets) |
| **Accessories list for one set of doors** |
| i) Brackets |
|  a) Upper - 2 Nos |
|  b) Lower - 2 Nos |
|  ii) Pintle |
|  a) Upper - 2 Nos |
|  b) Lower - 2 Nos |
| iii) Bearing ( Lower ) - 2 Nos |
| iv) Ferrules and bolts M16 = 16 Nos |
| v) Ferrules and bolts M8 = 60 Nos |
| vi) Adjusting bolts M16(with lock nuts) = 6 Nos  |
| vii) Shims – 2 x 5 Nos. Refer to drawing N/D/LB 1171. |
| viii) Stainless steel retaining strips.  |
| **For two (2) sets, quantities must be doubled and shall be multiplied by two (2) on the above accessories items.** |
|   | **Total of Bill 2 carried over to Main Summary**  |   |   |  |  **$**  |

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| **Bill No. 3: Supply of Materials and Construction of Double Barrel Flood Gate Structure - Beside Existing 4 Flap Gate Structure** |
| **Item No.** | **Description** | **Unit** | **Qty** | **Rate FJD (VIP)** | **Amount FJD (VIP)** |
| 3.1 | Site Clearance: Removal of rubbish, debris, vegetation, hedges, dogo, shrubs, bush, and trees and cart away to dumping site located by the Department of Waterways. | Item | 1 |  $  |  $  |
| 3.2 | Allow for diverting flow, dewatering and controlling the water (includes coffer damming on both side of proposed floodgate) to obtain favourable working conditions to the satisfaction of the Engineer, including removal of cofferdam, filling of diversion channel (if any), after completion of construction work. | Item | 1 |  $  |  $  |
| 3.3 | Excavation for the new structure, including foundation, base of structure to design levels, inlet and outlet of structure to bed level of existing waterway, as per provided drawings. | m³ | 1230 |  $  |  $  |
| 3.4 | Lean Concrete – supply, place, and compact by vibration of 200mm thick concrete underneath concrete structure with the capacity class strength of **15MPa**, trowel and leveled as directed by Engineer.  | m³ | 13 |  $  |  $  |
| 3.5 | **Double Barrel Tide Gate Structure –** Supply, Labour, materials and tools/ equipment and **construct complete double** **barrel tide gate structure** with **ready mix** **concrete** capacity class strength of **40MPa**. Size and shape of the tide gate structure, reinforcing bars arrangements and all structural details are as shown in the Drawing N/D/LB 1173. Double barrel structure shall be constructed including formworks/ shuttering and trowel to smooth surface fair face and as per drawing No. N/D/LB 1173, sheet 1-6 all 6 sheets A3 design drawings, and to the satisfaction of the Engineer.  | Item | 1 |  $  |  $  |
| 3.6 | Supply labour, material, and tools to fabricate (pre-cast) reinforced concrete cover units for the double barrel tide gate structure including steel trap door on top complete as shown in the drawing No. N/D/LB 1176 REV 1, (size: 2 Nos. of 3.20m x 3.20m for the two trap hole openings (2 nos. x 2700mm) of the double barrel tide gate structure. | Item | 1 |  $  |  $  |
| 3.7 | Backfilling- Supply, transport, place and compact approved earthfill, gravel or red clay on the structure, slope, on top and around of structure. | m³ | 90 |  $  |  $  |
| 3.8 | Desilting of outlet waterways on both sides up to design depth and dispose off outside areas, including cutting of vegetation and trees along the line of waterways as directed and to the satisfaction of the Engineer. | Lm | 100 |  $  |  $  |
| 3.9 | Fabrication & Installation of Steel Floodgate Doors – Supply materials, fabricate, transport and install/fix, full complete set of door (1150mm width x 2350mm height) includes accessories, components and required painting works (as shown below list of accessories) to work site or as directed by the Engineer (strictly follow as per specification of fabrication works) and drawings Nos. N/D/LB 1170 REV 1, N/D/LB 1171, and N/D/LB 1172. | Set | 2 |  $ |  $  |
| As for information, all under mentioned accessories must be included with each set of the above floodgate doors. (2 sets) |
| **Accessories list for one set of doors** |
| i) Brackets |
|  a) Upper - 2 Nos |
|  b) Lower - 2 Nos |
|  ii) Pintle |
|  a) Upper - 2 Nos |
|  b) Lower - 2 Nos |
| iii) Bearing ( Lower ) - 2 Nos |
| iv) Ferrules and bolts M16 = 16 Nos |
| v) Ferrules and bolts M8 = 60 Nos |
| vi) Adjusting bolts M16(with lock nuts) = 6 Nos  |
| vii) Shims – 2 x 5 Nos. Refer to drawing N/D/LB 1171. |
| viii) Stainless steel retaining strips.  |
| **For two (2) sets, quantities must be doubled and shall be multiplied by two (2) on the above accessories items.** |
|   | **Total of Bill 3 carried over to Main Summary**  |   |   |  |  **$**  |

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| **Bill No. 4: Supply of Materials and Construction of a Trash Rack 5 Barrel Structure at 125m Upstream of the existing 4 Barrel Flood Gate Structure**  |
| **Item No.** | **Description** | **Unit** | **Qty** | **Rate FJD (VIP)** | **Amount FJD (VIP)** |
| 4.1 | Allow for diverting flow, dewatering and controlling the water (includes coffer damming on both side of proposed trash rack structure) to obtain favourable working conditions to the satisfaction of the Engineer, including removal of cofferdam, filling of diversion channel (if any), after completion of construction work. | Item | 1 |  $  |  $  |
| 4.2 |  Excavation for the new structure, including foundation and base of structure, as per provided drawings. | m³ | 196 |  $  |  $  |
| 4.3 | Lean Concrete – supply, place, and compact by vibration of 200mm thick concrete underneath concrete structure with the capacity class strength of **15MPa**, trowel and leveled as directed by Engineer.  | m³ | 10 |  $  |  $  |
| 4.4 | **Trash Rack Structure –** Supply, Labour, materials and tools/ equipment and **construct 5 barrel trash rack structure** with **ready mix concrete** capacity class strength of **40MPa**. Size and shape of the trash rack structure, reinforcing bars arrangements, guard rail details and all structural details are as shown in the Drawing N/D/LB 1174. 5 barrel trash rack structure shall be constructed including formworks/ shuttering and trowel to smooth surface fair face and as per drawing No. N/D/LB 1174 and to the satisfaction of the Engineer.  | Item | 1 |  $  |  $  |
| 4.5 | Backfilling- Supply, transport, place and compact approved earthfill, gravel or red clay on the structure, slope, on top and around of structure. | m³ | 25 |  $  |  $  |
| 4.6 | Stone Pitching- Supply, transport and place of 300 – 350mm dia. size stone pitching, 350mm thick with 1:3 (cement sand mixture) mortar at side slopes of inlet of structure as shown in the design drawings to the satisfaction of the Engineer. | m³ | 7 |  $  |  $  |
| 4.7 | Concreting - Supply, transport and place **ready mix concrete** to form 350mm thick base capacity class strength of **25MPa** with necessary formworks/shuttering including reinforcement at inlet of structure as shown in the design drawings to the satisfaction of the Engineer. | m³ | 12 |  $  |  $  |
| 4.8 | Fabrication of New Trash Rack (2.63m wide x 2.7m height)  | No. | 5 |  $  |  $  |
| Supply Labour, materials, tools and fabricate new Mild Steel trash rack (note: dimension of new trash racks are to be taken to match with the concrete trash rack structure) including painting as per specification Clauses 12.4.1.4(iii-iv), delivering and installation on site to the satisfaction of the Engineer. Refer to Drawing No. N/D/LB 1175.  |
| 4.9 | Desilting of outlet waterways on both sides up to design depth and dispose off outside areas, including cutting of vegetation and trees along the line of waterways as directed and to the satisfaction of the Engineer. | Lm | 100 |  $  |  $  |
|   | **Total of Bill 4 carried over to Main Summary**  |   |   |  |  **$**  |

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| **Bill No. 5: Supply of Materials and Raising of Levee (3300m Total Length)** |
| **Item No.** | **Description** | **Unit** | **Qty** | **Rate FJD (VIP)** | **Amount FJD (VIP)** |
| 5.1 | Grading |   |   |   |   |
| Supply, fill and compact approved backfill material on 3,300m length seawall road from CH 2050.0m to CH -1250.0m as per provided drawings (N/D/LB 1179) | m³ | 3630 |  $  |
| 5.2 | Gravelling  |   |   |   |   |
| Supply, transport, place , spread and compact approved river gravel (25mm-50mm dia. in size), 100mm thick on 3,300m length seawall road (CH 2050.0m to CH -1250.0m), filling potholes, depressions and compact and level to form even surface, as directed by Engineer. | m³ | 1090 |  $  |
|   | **Total of Bill 5 carried over to Main Summary**  |   |   |  |  **$**  |

**BILL OF QUANTITY MAIN SUMMARY**

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| **CONTRACT NO. 1: BoQ MAIN SUMMARY** |
| **BILL** | **DESCRIPTION** | **AMOUNT IN FJD (VIP)** |
| 1a | MOBILISATION & DEMOBILISATION |   |
| 2 | SUPPLY OF MATERIALS AND CONSTRUCTION OF DOUBLE BARREL FLOOD GATE (NEAR EXISTING 4 BARREL FLOOD GATE STRUCTURE) |   |
| 3 | SUPPLY OF MATERIALS AND CONSTRUCTION OF DOUBLE BARREL FLOOD GATE (NEAR EXISTING FLAP GATE STRUCTURE) |   |
| 5 | SUPPLY OF MATERIALS AND HEIGHTENING OF LEVEE (3,300m LENGTH) |   |
|   | **GRAND TOTAL** |  |

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| **CONTRACT NO. 2: BoQ MAIN SUMMARY** |
| **BILL** | **DESCRIPTION** | **AMOUNT IN FJD (VIP)** |
| 1b | MOBILISATION & DEMOBILISATION |  |
| 4 | SUPPLY OF MATERIALS AND CONSTRUCTION OF 5 BARREL TRASH RACK STRUCTURE (125.0m UPSTREAM OF EXISTING 4 BARREL FLOOD GATE STRUCTURE) |   |
|   | **GRAND TOTAL** |  |

1. **Payment Schedule**

Payment shall be based on the total measured quantity of each measurable item in the Schedule of Prices completed in accordance with the contract specification and agreed schedule of payments with the successful contractor. The payments shall be based on the following milestones:

1. **Contract No. 1**

|  |  |  |
| --- | --- | --- |
| **No** | **Milestone/Outputs** | **% Payment** |
| 1 | Signing of contract | 20 |
| 2 | Completion of Bill No. 1a with written confirmation from Waterways Engineer, and submission of all support documents | 10 |
| 3 | Completion of Bill No. 2 with written confirmation from Waterways Engineer, submission of all support documents | 20 |
| 4 | Completion of Bill No. 3 with written confirmation from Waterways Engineer, submission of all support documents | 20 |
| 5 | Completion of Bill No. 5 with written confirmation from Waterways Engineer, submission of all support documents | 20 |
| 6 | Retention to be paid 6 months after issue of practical completion certificate | 10 |
| **Total Contract Sum** | **100** |

1. **Contract No. 2**

|  |  |  |
| --- | --- | --- |
| **No** | **Milestone/Outputs** | **% Payment** |
| 1 | Signing of contract | 20 |
| 2 | Completion of Bill No. 1b with written confirmation from Waterways Engineer, and submission of all support documents | 20 |
| 3 | Completion of Bill No. 4 with written confirmation from Waterways Engineer, submission of all support documents | 50 |
| 4 | Retention to be paid 6 months after issue of practical completion certificate | 10 |
| **Total Contract Sum** | **100** |

1. **Validity of Quotation**

The Validity of quotation shall be stated as 120 days from the deadline for submission