



Construction/Maintenance of Flood Mitigation Facilities within major River Basins and Principal Canals Construction of Flood Control Structure, Salug Daku Flood Control, Mahayag, Zamboanga del Sur
Zamboanga del Sur

FORM POW-2015-01A-00

ITEMIZED BREAKDOWN

| ITEM NO. | DESCRIPTION | QUANTITY | | UNIT | DIRECT COST | | | | TOTAL UNIT COST | | % DIRECT COST |
|------------|---|--------------|--------------|------|---------------|--------------|--------------|--------------|-----------------|--------------|---------------|
| | | AS SUBMITTED | AS EVALUATED | | TOTAL | | UNIT COST | | TOTAL | | |
| | | | | | AS SUBMITTED | AS EVALUATED | AS SUBMITTED | AS EVALUATED | AS SUBMITTED | AS EVALUATED | AS EVALUATED |
| PART A | Facilities for the Engineers | | | | | | | | | | |
| A.1.1 (3) | Const. of Field Office for the Enigneer | 1.00 | | ls | 487,015.63 | | 487,015.63 | | 603,412.37 | | 0.62% |
| A.1.1 (11) | Prov. Of Furniture, Equipment, & Appliance for Field Engineer | 1.00 | | ls | 356,810.82 | | 356,810.82 | | 374,651.36 | | 0.46% |
| A.1.2 (5) | Operation & Maintenance of Gov't. Service Vehicles | 1.00 | | ls | 500,770.16 | | 500,770.16 | | 525,808.67 | | 0.64% |
| | TOTAL OF PART A | | | | 1,344,596.61 | | | | | | 1.72% |
| PART B | Other General Requirements | | | | | | | | | | |
| B.4(1) | Construction Survey and Staking | 0.59 | | km | 41,324.15 | | 70,040.93 | | 86,780.71 | | 0.05% |
| B.5 | Project Billboard | 4.00 | | unit | 9,751.33 | | 2,437.83 | | 3,020.47 | | 0.01% |
| B.7 | Occupational Safety & Health Program | 1.00 | | ls | 266,037.48 | | 266,037.48 | | 301,686.50 | | 0.34% |
| B.9 | Mobilization & Demobilization | 1.00 | | ls | 476,602.00 | | 476,602.00 | | 500,432.10 | | 0.61% |
| | TOTAL OF PART B | | | | 793,714.95 | | | | | | 1.02% |
| PART C | Earthworks | | | | | | | | | | |
| 1702(1) | Structure Excavation | 9,724.00 | | cu.m | 1,553,439.14 | | 159.75 | | 197.93 | | 1.99% |
| 104(2a) | Embankment from Borrow | 1,829.00 | | cu.m | 1,059,092.10 | | 579.06 | | 717.45 | | 1.36% |
| | TOTAL OF PART C | | | | 2,612,531.24 | | | | | | 3.35% |
| PART D | Subbase and Base Course | | | | | | | | | | |
| 200(1) | Aggregate Subbase Course | 814.00 | | cu.m | 1,066,991.42 | | 1,310.80 | | 1,624.08 | | 1.37% |
| | TOTAL OF PART D | | | | 1,066,991.42 | | | | | | 1.37% |
| PART F | Bridge Construction | | | | | | | | | | |
| 1716(6) | Structural Steel Sheet Piles, Furnished | 8,850.00 | | m | 22,088,190.07 | | 2,495.84 | | 3,092.35 | | 28.32% |
| 1716(16) | Steel Sheet Tests Piles, Furnished and Driven | 12.00 | | m | 21,905.85 | | 1,825.49 | | 2,261.78 | | 0.03% |
| 1716(12) | Structural Steel Sheet Piles, Driven | 8,850.00 | | m | 10,055,359.71 | | 1,136.20 | | 1,407.75 | | 12.89% |
| | TOTAL OF PART F | | | | 32,165,455.63 | | | | | | 41.24% |
| PART G | Drainage and Slope Protection Structures | | | | | | | | | | |
| 404(1)a | Reinforcing Steel (Grade 40) | 41,596.00 | | kg | 2,054,176.58 | | 49.38 | | 61.19 | | 2.63% |
| 404(1)b | Reinforcing Steel (Grade 60) | 8,379.00 | | kg | 431,384.38 | | 51.48 | | 63.79 | | 0.55% |
| 405(1)a3 | Structural Concrete, fc'=27.58 Mpa | 1,687.00 | | cu.m | 11,644,150.53 | | 6,902.28 | | 8,551.93 | | 14.93% |
| 500(1)b3 | Pipe Culvert & Storm Drain | 32.00 | | ln.m | 103,443.35 | | 3,232.60 | | 4,005.20 | | 0.13% |
| 1710(5) | Grouted Riprap, Class "A" | 1,575.00 | | cu.m | 5,030,916.85 | | 3,194.23 | | 3,957.65 | | 6.45% |
| 508 (1) | Handlaid Rock Embankment | 12,528.00 | | cu.m | 20,746,174.17 | | 1,655.98 | | 2,051.76 | | 26.60% |
| | TOTAL OF PART G | | | | 40,010,245.85 | | | | | | 51.30% |
| | GRAND TOTAL | | | | 77,993,535.71 | | | | | | 100.00% |



| MINIMUM EQUIPMENT REQUIREMENT | | | | | | | |
|-------------------------------|------------------------|-----------------------|---------------------|-----|-----------------------|----------|---------------------|
| No. | Equipment Description | Capacity | Number of Equipment | No. | Equipment Description | Capacity | Number of Equipment |
| 1 | Dumptruck (10 Wheeler) | 12 cu. Yd | 6 | 26 | | | |
| 2 | Bulldozer | | 2 | 27 | | | |
| 3 | Backhoe | 0.83 cu.m/1.04 cu. Yd | 2 | 28 | | | |
| 4 | Road Grader | | 2 | 29 | | | |
| 5 | Road Roller | 10 mt | 2 | 30 | | | |
| 6 | Payloader | 1.50 cu.m/1.95 cu.yd | 2 | 31 | | | |
| 7 | Water Truck/Pump | 16000L | 2 | 32 | | | |
| 8 | Water Tank | | 2 | 33 | | | |
| 9 | Transit Mixer | 5-6 cu. Yd | 2 | 34 | | | |
| 10 | Portable Screed | | 1 | 35 | | | |
| 11 | Concrete Vibrator | | 2 | 36 | | | |
| 12 | Concrete Cutter | | 2 | 37 | | | |
| 13 | Bar Cutter | | 1 | 38 | | | |
| 14 | Bar Bender | | 1 | 39 | | | |
| 15 | Cobcrete Mixer | 4-6 cu.ft/min | 2 | 40 | | | |
| 16 | Plate Compactor | | 1 | 41 | | | |
| 17 | Truck Mounted Crane | | 1 | 42 | | | |
| 18 | Vibro Hammer | | 1 | 43 | | | |
| 19 | Generator Set | | 1 | 44 | | | |
| 20 | | | | 45 | | | |
| 21 | | | | 46 | | | |
| 22 | | | | 47 | | | |
| 23 | | | | 48 | | | |
| 24 | | | | 49 | | | |
| 25 | | | | 50 | | | |
| | SUB-TOTAL | | | | SUB-TOTAL | | |
| TOTAL | | | | | | | |



Construction/Maintenance of Flood Mitigation Facilities within major River Basins and Principal Rivers Construction of Flood Control Structure, Salug Daku Flood Control, Mahayag, Zamboanga del Sur
Zamboanga del Sur

FORM POW-2015-01C-00

ITEMIZED BREAKDOWN

| ITEMIZED BREAKDOWN | | | | | | | | | | | | | |
|--------------------|---|--------------|--|----------|------|---------------|------------|--------------|---------------|---------------|--------------|--------------|---------------|
| ITEM NO. | DESCRIPTION | | DETAILED BREAKDOWN OF COMPONENT COST FOR EACH ITEM | | | | | | | | | | |
| | | | % | QTY | UNIT | DIRECT COST | | | | TOTAL MARK-UP | | 5% VAT | TOTAL COST |
| | | | | | | MATERIAL | LABOR | EQUIPMENT | TOTAL | % | VALUE | | |
| PART A | Facilities for the Engineers | | | | | | | | | | | | |
| A.1.1 (3) | Const. of Field Office for the Enigneer | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 0.62% | 1.00 | ls | 400,000.00 | 56,283.30 | 30,732.33 | 487,015.63 | 18.00% | 87,662.81 | 28,733.92 | 603,412.37 |
| A.1.1 (11) | Prov. Of Furniture, Equipment, & Appliance for Field Engineer | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 0.46% | 1.00 | ls | 356,810.82 | - | - | 356,810.82 | 0.00% | - | 17,840.54 | 374,651.36 |
| A.1.2 (5) | Operation & Maintenance of Gov't. Service Vehicles | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 0.64% | 1.00 | ls | 422,000.00 | 78,770.16 | - | 500,770.16 | 0.00% | - | 25,038.51 | 525,808.67 |
| | TOTAL OF PART A | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 1.72% | | | 1,178,810.82 | 135,053.46 | 30,732.33 | 1,344,596.61 | | 87,662.81 | 71,612.97 | 1,503,872.39 |
| PART B | Other General Requirements | | | | | | | | | | | | |
| B.4(1) | Construction Survey and Staking | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 0.05% | 0.59 | km | 12,180.00 | 26,444.15 | 2,700.00 | 41,324.15 | 18.00% | 7,438.35 | 2,438.12 | 51,200.62 |
| B.5 | Project Billboard | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 0.01% | 4.00 | unit | 8,597.40 | 1,153.93 | - | 9,751.33 | 18.00% | 1,755.24 | 575.33 | 12,081.89 |
| B.7 | Occupational Safety & Health Program | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 0.34% | 1.00 | ls | 12,360.00 | 253,677.48 | - | 266,037.48 | 8.00% | 21,283.00 | 14,366.02 | 301,686.50 |
| B.9 | Mobilization & Demobilization | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 0.61% | 1.00 | ls | - | - | 476,602.00 | 476,602.00 | 0.00% | - | 23,830.10 | 500,432.10 |
| | TOTAL OF PART B | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 1.02% | | | 33,137.40 | 281,275.55 | 479,302.00 | 793,714.95 | | 30,476.58 | 41,209.58 | 865,401.11 |
| PART C | Earthworks | | | | | | | | | | | | |
| 1702(1) | Structure Excavation | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 1.99% | 9,724.00 | cu.m | - | 105,223.40 | 1,448,215.74 | 1,553,439.14 | 18.00% | 279,619.05 | 91,652.91 | 1,924,711.10 |
| 104(2a) | Embankment from Borrow | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 1.36% | 1,829.00 | cu.m | 883,407.00 | 6,264.83 | 169,420.27 | 1,059,092.10 | 18.00% | 190,636.58 | 62,486.43 | 1,312,215.11 |
| | TOTAL OF PART C | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 3.35% | | | 883,407.00 | 111,488.23 | 1,617,636.01 | 2,612,531.24 | | 470,255.62 | 154,139.34 | 3,236,926.21 |
| PART D | Subbase and Base Course | | | | | | | | | | | | |
| 200(1) | Aggregate Subbase Course | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 1.37% | 814.00 | cu.m | 988,802.43 | 2,788.17 | 75,400.82 | 1,066,991.42 | 18.00% | 192,058.46 | 62,952.49 | 1,322,002.37 |
| | TOTAL OF PART D | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 1.37% | | | 988,802.43 | 2,788.17 | 75,400.82 | 1,066,991.42 | | 192,058.46 | 62,952.49 | 1,322,002.37 |
| PART E | Bridge Construction | | | | | | | | | | | | |
| 1716(6) | Structural Steel Sheet Piles, Furnished | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 28.32% | 8,850.00 | m | 21,664,800.00 | 35,459.15 | 387,930.92 | 22,088,190.07 | 18.00% | 3,975,874.21 | 1,303,203.21 | 27,367,267.50 |
| 1716(16) | Steel Sheet Tests Piles, Furnished and Driven | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 0.03% | 12.00 | m | 3,876.21 | 3,517.71 | 14,511.93 | 21,905.85 | 18.00% | 3,943.05 | 1,292.45 | 27,141.35 |

| | | | | | | | | | | | | | |
|---------------|---|--------------|---------|-----------|------|---------------|--------------|---------------|---------------|--------|---------------|--------------|---------------|
| 1716(12) | Structural Steel Sheet Piles, Driven | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 12.89% | 8,850.00 | m | 1,489,364.73 | 622,634.01 | 7,943,360.98 | 10,055,359.71 | 18.00% | 1,809,964.75 | 593,266.22 | 12,458,590.68 |
| | TOTAL OF PART F | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 41.24% | | | 23,158,040.94 | 661,610.87 | 8,345,803.82 | 32,165,455.63 | | 5,789,782.01 | 1,897,761.88 | 39,852,999.53 |
| PART G | Drainage and Slope Protection Structures | | | | | | | | | | | | |
| 404(1)a | Reinforcing Steel (Grade 40) | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 2.63% | 41,596.00 | kg | 1,816,913.28 | 129,275.46 | 107,987.84 | 2,054,176.58 | 18.00% | 369,751.78 | 121,196.42 | 2,545,124.78 |
| 404(1)b | Reinforcing Steel (Grade 60) | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 0.55% | 8,379.00 | kg | 383,590.62 | 26,040.94 | 21,752.82 | 431,384.38 | 18.00% | 77,649.19 | 25,451.68 | 534,485.24 |
| 405(1)a3 | Structural Concrete, $f_c' = 27.58$ Mpa | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 14.93% | 1,687.00 | cu.m | 9,473,116.60 | 1,484,373.98 | 686,659.95 | 11,644,150.53 | 18.00% | 2,095,947.10 | 687,004.88 | 14,427,102.50 |
| 500(1)b3 | Pipe Culvert & Storm Drain | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 0.13% | 32.00 | ln.m | 74,705.01 | 12,121.40 | 16,616.94 | 103,443.35 | 18.00% | 18,619.80 | 6,103.16 | 128,166.31 |
| 1710(5) | Grouted Riprap, Class "A" | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 6.45% | 1,575.00 | cu.m | 3,940,591.68 | 653,868.34 | 436,456.83 | 5,030,916.85 | 18.00% | 905,565.03 | 296,824.09 | 6,233,305.98 |
| 508 (1) | Handlaid Rock Embankment | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 26.60% | 12,528.00 | cu.m | 18,564,804.72 | 1,983,063.13 | 198,306.31 | 20,746,174.17 | 18.00% | 3,734,311.35 | 1,224,024.28 | 25,704,509.79 |
| | TOTAL OF PART G | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 51.30% | | | 34,253,721.91 | 4,288,743.25 | 1,467,780.69 | 40,010,245.85 | | 7,201,844.25 | 2,360,604.51 | 49,572,694.61 |
| | GRAND TOTAL | AS EVALUATED | | | | | | | | | | | |
| | | AS SUBMITTED | 100.00% | | | 60,495,920.51 | 5,480,959.53 | 12,016,655.67 | 77,993,535.71 | | 13,772,079.74 | 4,588,280.77 | 96,353,896.23 |



ON IX

Construction/Maintenance of Flood Mitigation Facilities within major River Basins and Principal Rivers Construction of Flood Control Structure, Salug Daku Flood Control, Mahayag, Zamboanga del Sur

Zamboanga del Sur

SUMMARY OF APPROVED BUDGET FOR THE CONTRACT

FORM POW-2015-02-00

FORM POW-2015-02-00

| DESCRIPTION OF WORKS TO BE DONE | | | ESTIMATED DIRECT COST | TOTAL MARK-UP | | VAT | TOTAL INDIRECT COST | TOTAL COST |
|---------------------------------|--|--------------|-----------------------|---------------|-------------------|--------------|---------------------|---------------|
| | | | | % | TOTAL DIRECT COST | | | |
| PART A | Facilities for the Engineers | AS EVALUATED | | | | | | |
| | | AS SUBMITTED | 1,344,596.61 | | 87,662.81 | 71,612.97 | 159,275.78 | 1,503,872.39 |
| PART B | Other General Requirements | AS EVALUATED | | | | | | |
| | | AS SUBMITTED | 793,714.95 | | 30,476.58 | 41,209.58 | 71,686.16 | 865,401.11 |
| PART C | Earthworks | AS EVALUATED | | | | | | |
| | | AS SUBMITTED | 2,612,531.24 | | 470,255.62 | 154,139.34 | 624,394.97 | 3,236,926.21 |
| PART D | Subbase and Base Course | AS EVALUATED | | | | | | |
| | | AS SUBMITTED | 1,066,991.42 | | 192,058.46 | 62,952.49 | 255,010.95 | 1,322,002.37 |
| PART F | Bridge Construction | AS EVALUATED | | | | | | |
| | | AS SUBMITTED | 32,165,455.63 | | 5,789,782.01 | 1,897,761.88 | 7,687,543.90 | 39,852,999.53 |
| PART G | Drainage and Slope Protection Structures | AS EVALUATED | | | | | | |
| | | AS SUBMITTED | 40,010,245.85 | | 7,201,844.25 | 2,360,604.51 | 9,562,448.76 | 49,572,694.61 |
| TOTAL | | AS EVALUATED | | | | | | |
| | | AS SUBMITTED | 77,993,535.71 | | 13,772,079.74 | 4,588,280.77 | 18,360,360.52 | 96,353,896.23 |

Preparation and Submission:

Prepared by:


JERALD R. BARRERA
Engineer II
DPWH RO9

Checked/Submitted by:


ISIDRA A. ESTANISLAO
Engineer IV
DPWH RO9

Evaluation:

Reviewed by:

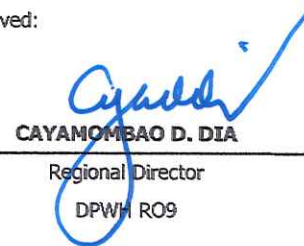

SATURNINO C. TORREFRANCA
District Engineer
DPWH RO9

Approval:

Recommending Approval


KHADAFFY D. TANGGOL
OIC-Assistant Regional Director
DPWH RO9

Approved:


CAYAMOMBAO D. DIA
Regional Director
DPWH RO9



N IX
Construction/Maintenance of Flood Mitigation Facilities within major River Basins and Principal Rivers Construction of Flood Control Structure, Salug Daku Flood Control, Mahayag, Zamboanga del Sur
Zamboanga del Sur

FORM POW-2015-02A-00


| ITEM NO. | DESCRIPTION | | QTY | UNIT | ESTIMATED DIRECT COST | TOTAL MARK-UP | | VAT | TOTAL INDIRECT COST | TOTAL COST | UNIT COST |
|---------------|---|--------------|----------|------|-----------------------|---------------|--------------|--------------|---------------------|---------------|------------|
| | | | | | | % | VALUE | | | | |
| PART A | Facilities for the Engineers | | | | | | | | | | |
| A.1.1 (3) | Const. of Field Office for the Engineer | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 1.00 | ls | 487,015.63 | 18.00% | 87,662.81 | 28,733.92 | 116,396.74 | 603,412.37 | 603,412.37 |
| A.1.1 (11) | Prov. Of Furniture, Equipment, & Appliance for Field Engineer | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 1.00 | ls | 356,810.82 | 0.00% | - | 17,840.54 | 17,840.54 | 374,651.36 | 374,651.36 |
| A.1.2 (5) | Operation & Maintenance of Gov't. Service Vehicles | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 1.00 | ls | 500,770.16 | 0.00% | - | 25,038.51 | 25,038.51 | 525,808.67 | 525,808.67 |
| | TOTAL OF PART A | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | | | 1,344,596.61 | | 87,662.81 | 71,612.97 | 159,275.78 | 1,503,872.39 | |
| PART B | Other General Requirements | | | | | | | | | | |
| B.4(1) | Construction Survey and Staking | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 0.59 | km | 41,324.15 | 18.00% | 7,438.35 | 2,438.12 | 9,876.47 | 51,200.62 | 86,780.71 |
| B.5 | Project Billboard | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 4.00 | unit | 9,751.33 | 18.00% | 1,755.24 | 575.33 | 2,330.57 | 12,081.89 | 3,020.47 |
| B.7 | Occupational Safety & Health Program | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 1.00 | ls | 266,037.48 | 8.00% | 21,283.00 | 14,366.02 | 35,649.02 | 301,686.50 | 301,686.50 |
| B.9 | Mobilization & Demobilization | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 1.00 | ls | 476,602.00 | 0.00% | - | 23,830.10 | 23,830.10 | 500,432.10 | 500,432.10 |
| | TOTAL OF PART B | AS EVALUATED | | | - | | | | | | |
| | | AS SUBMITTED | | | 793,714.95 | | 30,476.58 | 41,209.58 | 71,686.16 | 865,401.11 | |
| PART C | Earthworks | | | | | | | | | | |
| 1702(1) | Structure Excavation | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 9,724.00 | cu.m | 1,553,439.14 | 18.00% | 279,619.05 | 91,652.91 | 371,271.96 | 1,924,711.10 | 197.93 |
| 104(2a) | Embankment from Borrow | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 1,829.00 | cu.m | 1,059,092.10 | 18.00% | 190,636.58 | 62,486.43 | 253,123.01 | 1,312,215.11 | 717.45 |
| | TOTAL OF PART C | AS EVALUATED | | | - | | | | | | |
| | | AS SUBMITTED | | | 2,612,531.24 | | 470,255.62 | 154,139.34 | 624,394.97 | 3,236,926.21 | |
| PART D | Subbase and Base Course | | | | | | | | | | |
| 200(1) | Aggregate Subbase Course | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 814.00 | cu.m | 1,066,991.42 | 18.00% | 192,058.46 | 62,952.49 | 255,010.95 | 1,322,002.37 | 1,624.08 |
| | TOTAL OF PART D | AS EVALUATED | | | - | | | | | | |
| | | AS SUBMITTED | | | 1,066,991.42 | | 192,058.46 | 62,952.49 | 255,010.95 | 1,322,002.37 | |
| PART F | Bridge Construction | | | | | | | | | | |
| 1716(6) | Structural Steel Sheet Piles, Furnished | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 8,850.00 | m | 22,088,190.07 | 18.00% | 3,975,874.21 | 1,303,203.21 | 5,279,077.43 | 27,367,267.50 | 3,092.35 |
| 1716(16) | Steel Sheet Tests Piles, Furnished and Driven | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 12.00 | m | 21,905.85 | 18.00% | 3,943.05 | 1,292.45 | 5,235.50 | 27,141.35 | 2,261.78 |

| | | | | | | | | | | | |
|---------------|---|--------------|-----------|------|---------------|--------|---------------|--------------|---------------|---------------|----------|
| 1716(12) | Structural Steel Sheet Piles, Driven | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 8,850.00 | m | 10,055,359.71 | 18.00% | 1,809,964.75 | 593,266.22 | 2,403,230.97 | 12,458,590.68 | 1,407.75 |
| | TOTAL OF PART F | AS EVALUATED | | | - | | | | | | |
| | | AS SUBMITTED | | | 32,165,455.63 | | 5,789,782.01 | 1,897,761.88 | 7,687,543.90 | 39,852,999.53 | |
| PART G | Drainage and Slope Protection Structures | | | | | | | | | | |
| 404(1)a | Reinforcing Steel (Grade 40) | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 41,596.00 | kg | 2,054,176.58 | 18.00% | 369,751.78 | 121,196.42 | 490,948.20 | 2,545,124.78 | 61.19 |
| 404(1)b | Reinforcing Steel (Grade 60) | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 8,379.00 | kg | 431,384.38 | 18.00% | 77,649.19 | 25,451.68 | 103,100.87 | 534,485.24 | 63.79 |
| 405(1)a3 | Structural Concrete, $f'_c=27.58$ Mpa | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 1,687.00 | cu.m | 11,644,150.53 | 18.00% | 2,095,947.10 | 687,004.88 | 2,782,951.98 | 14,427,102.50 | 8,551.93 |
| 500(1)b3 | Pipe Culvert & Storm Drain | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 32.00 | ln.m | 103,443.35 | 18.00% | 18,619.80 | 6,103.16 | 24,722.96 | 128,166.31 | 4,005.20 |
| 1710(5) | Grouted Riprap, Class "A" | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 1,575.00 | cu.m | 5,030,916.85 | 18.00% | 905,565.03 | 296,824.09 | 1,202,389.13 | 6,233,305.98 | 3,957.65 |
| 508 (1) | Handlaid Rock Embankment | AS EVALUATED | | | | | | | | | |
| | | AS SUBMITTED | 12,528.00 | cu.m | 20,746,174.17 | 18.00% | 3,734,311.35 | 1,224,024.28 | 4,958,335.63 | 25,704,509.79 | 2,051.76 |
| | TOTAL OF PART G | AS EVALUATED | | | - | | | | | | |
| | | AS SUBMITTED | | | 40,010,245.85 | | 7,201,844.25 | 2,360,604.51 | 9,562,448.76 | 49,572,694.61 | |
| | GRAND TOTAL | AS EVALUATED | | | - | | | | | | |
| | | AS SUBMITTED | | | 77,993,535.71 | | 13,772,079.74 | 4,588,280.77 | 18,360,360.52 | 96,353,896.23 | |

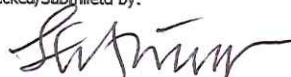
96,353,896.23

Preparation and Submission:

Prepared by:


JERALD R. BARRERA
 Engineer II
 DPWH RO9

Checked/Submitted by:


ISIDRA A. ESTANISLAO
 Engineer IV
 DPWH RO9

Evaluation:

Reviewed by:


SATURNINO C. TORRE FRANCA
 District Engineer
 DPWH RO9

Zamboanga del Sur

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Structural Steel Sheet Piles, Furnished

Unit of Measurement : 8,850.00 m
 Output per hour-As Submitted : 72.00
 Output per hour-As Evaluated : -

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|---------------------|----------------------|---------------------|----------------------|
| Labor | | | | |
| a. Construction Foreman | 1 | 1.00 | 80.95 | 80.95 |
| b. Skilled Laborer | 2 | 1.00 | 58.61 | 117.22 |
| c. Laborer | 2 | 1.00 | 45.16 | 90.31 |
| | | | | |
| | | | | |
| Sub-Total for A-1 As Submitted | | | | 288.48 |
| Labor | | | | |
| | | | | |
| | | | | |
| | | | | |
| A.2 | | | | |
| Sub-Total for A-2 As Evaluated | | | | - |
| | | | | |
| Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| Equipment | | | | |
| a. Truck Mounted Crane | 1 | 1.00 | 3,127.20 | 3,127.20 |
| | | | | |
| Minor Tools (10% of Labor Cost) | | | | 28.85 |
| Sub-Total for B-1 As Submitted | | | | 3,156.05 |
| Equipment | | | | |
| | | | | |
| B.2 | | | | |
| Sub-Total for B-2 As Evaluated | | | | |
| C.1 | | | | |
| Total (A.1+B.1) - As Submitted | | | | 3,444.53 |
| C.2 | | | | |
| Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | | | | |
| Output per Hour - As Submitted | | | | 72.00 |
| D.2 | | | | |
| Output per Hour - As Evaluated | | | | - |
| E.1 | | | | |
| Direct Unit Cost (C.1 ÷ D.1) - As Submitted | | | | 47.84 |
| E.2 | | | | |
| Direct Unit Cost (C.2 ÷ D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| Materials | | | | |
| a. Steel Sheet Pile KSP II (delivered at site) | kg | 48.00 | 50.00 | 2,400.00 |
| | | | | |
| Miscellaneous (2% of Materials Cost) | | | | 48.00 |
| | | | | |
| Sub-Total for F-1 As Submitted | | | | 2,448.00 |
| Materials | | | | |
| | | | | |
| F.2 | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 | | | | |
| Direct Unit Cost (E.1+F.1) - As Submitted | | | | 2,495.84 |
| G.2 | | | | |
| Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | 249.58 |
| H.2 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 | | | | |
| Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 199.67 |
| I.2 | | | | |
| Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | | | | |
| Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 147.25 |
| J.2 | | | | |
| Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 | | | | |
| Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 3,092.35 |
| K.2 | | | | |
| Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

Prepared by:

Checked/Reviewed

JERALD R. BARRERA

Engineer II

ISIDRA A. ESTANISLAO

Engineer IV

Zamboanga del Sur

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Steel Sheet Tests Piles, Furnished and Driven

Unit of Measurement : 12.00 m
 Output per hour-As Submitted : 2.40
 Output per hour-As Evaluated : -

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|---------------------|----------------------|---------------------|----------------------|
| Labor | | | | |
| a. Construction Foreman | 1 | 1.00 | 80.95 | 80.95 |
| b. Skilled Laborer | 6 | 1.00 | 58.61 | 351.65 |
| c. Laborer | 6 | 1.00 | 45.16 | 270.94 |
| | | | | |
| | | | | |
| Sub-Total for A-1 As Submitted | | | | 703.54 |
| Labor | | | | |
| | | | | |
| | | | | |
| A.2 | | | | - |
| Sub-Total for A-2 As Evaluated | | | | - |
| | | | | |
| Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| Equipment | | | | |
| a. Truck Mounted Crane | 1 | 0.58 | 3,127.20 | 1,813.78 |
| b. Diesel Hammer | 1 | 0.25 | 1,286.00 | 321.50 |
| c. Drop Hammer | 1 | 0.13 | 5,000.00 | 650.00 |
| d. Welding Machine | 1 | 0.08 | 539.00 | 43.12 |
| e. Cutting Outfit | 1 | 0.08 | 45.45 | 3.64 |
| Minor Tools (5% of Labor Cost) | | | | 35.18 |
| Sub-Total for B-1 As Submitted | | | | 2,867.21 |
| Equipment | | | | |
| | | | | |
| B.2 | | | | |
| Sub-Total for B-2 As Evaluated | | | | |
| C.1 Total (A.1+B.1) - As Submitted | | | | 3,570.75 |
| C.2 Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 Output per Hour - As Submitted | | | | 2.40 |
| D.2 Output per Hour - As Evaluated | | | | - |
| E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted | | | | 1,487.81 |
| E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| Materials | | | | |
| a. Welding Rod | m | 1.00 | 138.00 | 138.00 |
| b. Oxy/Acetylene | kg | 0.05 | 2,500.00 | 120.00 |
| c. Coco Logs | set | 0.02 | 436.00 | 8.28 |
| d. Good Lumber | m | 1.00 | 40.00 | 40.00 |
| e. Nail/Spike | kg | 0.16 | 65.00 | 10.40 |
| Miscellaneous (2% of Materials) | kg | 0.16 | 65.00 | 10.40 |
| Sub-Total for F-1 As Submitted | | | | 327.08 |
| Materials | | | | |
| | | | | |
| F.2 | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 Direct Unit Cost (E.1+F.1) - As Submitted | | | | 1,814.90 |
| G.2 Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | 181.49 |
| H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 145.19 |
| I.2 Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 107.08 |
| J.2 Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 2,248.66 |
| K.2 Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

Prepared by:

Checked/Reviewed

JERALD R. BARRERA

Engineer II

ISIDRA A. ESTANISLAO

Engineer IV

Zamboanga del Sur

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Reinforcing Steel (Grade 40)

Unit of Measurement : 41,596.00 kg

Output per hour-As Submitted : 180.00

Output per hour-As Evaluated : -

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|-----------------|---------------|---------------------|---------------|
| Labor | | | | |
| a. Construction Foreman | 1 | 1.00 | 80.95 | 80.95 |
| b. Skilled Laborer | 2 | 1.00 | 58.61 | 117.22 |
| c. Laborer | 8 | 1.00 | 45.16 | 361.25 |
| | | | | - |
| | | | | - |
| Sub-Total for A-1 As Submitted | | | | 559.42 |
| Labor | | | | |
| | | | | - |
| | | | | - |
| A.2 | | | | |
| Sub-Total for A-2 As Evaluated | | | | - |
| Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| Equipment | | | | |
| a. Bar Cutter | 1 | 0.50 | 219.50 | 109.75 |
| b. Bar Bender | 1 | 0.50 | 351.50 | 175.75 |
| c. Cargo Truck | 1 | 0.15 | 1,212.00 | 181.80 |
| Sub-Total for B-1 As Submitted | | | | 467.30 |
| Equipment | | | | |
| | | | | |
| B.2 | | | | |
| Sub-Total for B-2 As Evaluated | | | | |
| Total (A.1+B.1) - As Submitted | | | | 1,026.72 |
| C.2 | | | | |
| Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | | | | |
| Output per Hour - As Submitted | | | | 180.00 |
| D.2 | | | | |
| Output per Hour - As Evaluated | | | | - |
| E.1 | | | | |
| Direct Unit Cost (C.1 ÷ D.1) - As Submitted | | | | 5.70 |
| E.2 | | | | |
| Direct Unit Cost (C.2 ÷ D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| Materials | | | | |
| a. Tie Wire | kg | 0.02 | 80.00 | 1.68 |
| b. Reinforcing Steel Bar, Grade 40 | kg | 1.05 | 40.00 | 42.00 |
| F.1 | | | | |
| | | | | |
| | | | | |
| | | | | |
| Sub-Total for F-1 As Submitted | | | | 43.68 |
| Materials | | | | |
| | | | | |
| F.2 | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 | | | | |
| Direct Unit Cost (E.1 + F.1) - As Submitted | | | | 49.38 |
| G.2 | | | | |
| Direct Unit Cost (E.2 + F.2) - As Evaluated | | | | - |
| H.1 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | 4.94 |
| H.2 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 | | | | |
| Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 3.95 |
| I.2 | | | | |
| Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | | | | |
| Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 2.91 |
| J.2 | | | | |
| Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 | | | | |
| Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 61.19 |
| K.2 | | | | |
| Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

Prepared by:

JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV

Zamboanga del Sur

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Reinforcing Steel (Grade 60)

Unit of Measurement : 8,379.00 kg

Output per hour-As Submitted : 180.00

Output per hour-As Evaluated :

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|---------------------|----------------------|---------------------|----------------------|
| Labor | | | | |
| a. Construction Foreman | 1 | 1.00 | 80.95 | 80.95 |
| b. Skilled Laborer | 2 | 1.00 | 58.61 | 117.22 |
| c. Laborer | 8 | 1.00 | 45.16 | 361.25 |
| | | | | - |
| | | | | - |
| Sub-Total for A-1 As Submitted | | | | 559.42 |
| Labor | | | | |
| | | | | - |
| | | | | - |
| A.2 | | | | |
| Sub-Total for A-2 As Evaluated | | | | - |
| | | | | |
| Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| Equipment | | | | |
| a. Bar Cutter | 1 | 0.50 | 219.50 | 109.75 |
| b. Bar Bender | 1 | 0.50 | 351.50 | 175.75 |
| c. Cargo Truck | 1 | 0.15 | 1,212.00 | 181.80 |
| | | | | |
| Sub-Total for B-1 As Submitted | | | | 467.30 |
| Equipment | | | | |
| | | | | |
| B.2 | | | | |
| Sub-Total for B-2 As Evaluated | | | | |
| C.1 | | | | |
| Total (A.1+B.1) - As Submitted | | | | 1,026.72 |
| C.2 | | | | |
| Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | | | | |
| Output per Hour - As Submitted | | | | 180.00 |
| D.2 | | | | |
| Output per Hour - As Evaluated | | | | - |
| E.1 | | | | |
| Direct Unit Cost (C.1 ÷ D.1) - As Submitted | | | | 5.70 |
| E.2 | | | | |
| Direct Unit Cost (C.2 ÷ D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| Materials | | | | |
| a. Tie Wire | kg | 0.02 | 80.00 | 1.68 |
| b. Reinforcing Steel Bar, Grade 40 | kg | 1.05 | 42.00 | 44.10 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Sub-Total for F-1 As Submitted | | | | 45.78 |
| Materials | | | | |
| | | | | |
| F.2 | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 | | | | |
| Direct Unit Cost (E.1+F.1) - As Submitted | | | | 51.48 |
| G.2 | | | | |
| Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | 5.15 |
| H.2 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 | | | | |
| Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 4.12 |
| I.2 | | | | |
| Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | | | | |
| Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 3.04 |
| J.2 | | | | |
| Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 | | | | |
| Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 63.79 |
| K.2 | | | | |
| Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

Prepared by:

JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV

Zamboanga del Sur
DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Structural Concrete, $f'_c=27.58$ Mpa

Unit of Measurement : 1,687.00 cu.m

Output per hour-As Submitted : 1.40

Output per hour-As Evaluated : -

Note: Use Two (2) gang

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|---------------------|----------------------|---------------------|----------------------|
| Labor | | | | |
| a. Construction Foreman | 1 | 1.00 | 80.95 | 80.95 |
| b. Skilled Laborer | 8 | 1.00 | 58.61 | 468.87 |
| c. Laborer | 16 | 1.00 | 45.16 | 722.50 |
| <i>Installation/Removal of Formworks</i> | | | | - |
| a. Skilled Laborer | 8 | 1.00 | 58.61 | 468.87 |
| b. Laborer | 16 | 1.00 | 45.16 | 722.50 |
| Sub-Total for A-1 As Submitted | | | | 2,463.69 |
| Labor | | | | |
| | | | | - |
| | | | | - |
| A.2 | | | | |
| Sub-Total for A-2 As Evaluated | | | | - |
| Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| Equipment | | | | |
| a. One Bagger Mixer | 2 | 1.00 | 172.00 | 344.00 |
| b. Concrete Vibrator | 2 | 1.00 | 91.25 | 182.50 |
| c. Water Truck/Pump | 2 | 0.10 | 2,450.00 | 490.00 |
| Minor Tools (5% of Labor Cost) | | | | 123.18 |
| Sub-Total for B-1 As Submitted | | | | 1,139.68 |
| Equipment | | | | |
| | | | | |
| B.2 | | | | |
| Sub-Total for B-2 As Evaluated | | | | |
| C.1 | | | | |
| Total (A.1+B.1) - As Submitted | | | | 3,603.38 |
| C.2 | | | | |
| Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | | | | |
| Output per Hour - As Submitted | | | | 1.40 |
| D.2 | | | | |
| Output per Hour - As Evaluated | | | | - |
| E.1 | | | | |
| Direct Unit Cost (C.1 +D.1) - As Submitted | | | | 2,573.84 |
| E.2 | | | | |
| Direct Unit Cost (C.2 +D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| Materials | | | | |
| a. Lumber, Good | bd.ft | 17.50 | 37.00 | 647.50 |
| b. Marine Plywood | pc | 0.40 | 1,247.00 | 498.80 |
| c. Assorted CWN | kg | 0.70 | 78.00 | 54.60 |
| d. Cement | bag | 9.50 | 276.84 | 2,630.01 |
| e. Sand | cu.m | 0.50 | 1,156.30 | 578.15 |
| f. Gravel | cu.m | 1.00 | 1,206.30 | 1,206.30 |
| Sub-Total for F-1 As Submitted | | | | 5,615.36 |
| Materials | | | | |
| | | | | |
| F.2 | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 | | | | |
| Direct Unit Cost (E.1+F.1) - As Submitted | | | | 8,189.20 |
| G.2 | | | | |
| Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | 818.92 |
| H.2 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 | | | | |
| Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 655.14 |
| I.2 | | | | |
| Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | | | | |
| Value Added Tax - As Submitted | | | 5% of (G.1+H.1+I.1) | 483.16 |
| J.2 | | | | |
| Value Added Tax - As Evaluated | | | 5% of (G.2+H.2+I.2) | - |
| K.1 | | | | |
| Total Unit Cost - As Submitted | | | (G.1+H.1+I.1+J.1) | 10,146.42 |
| K.2 | | | | |
| Total Unit Cost - As Evaluated | | | (G.2+H.2+I.2+J.2) | - |

Prepared by:

JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV

Zamboanga del Sur

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Pipe Culvert & Storm Drain

Unit of Measurement : 32.00 In.m
 Output per hour-As Submitted : 1.00
 Output per hour-As Evaluated :

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|-----------------|---------------|--------------------|---------------|
| Labor | | | | |
| A.1 | | | | |
| a. Construction Foreman | 1 | 1.00 | 80.95 | 80.95 |
| b. Skilled Laborer | 2 | 1.00 | 58.61 | 117.22 |
| c. Laborer | 4 | 1.00 | 45.16 | 180.63 |
| Sub-Total for A-1 As Submitted | | | | |
| Labor | | | | 378.79 |
| A.2 | | | | |
| Sub-Total for A-2 As Evaluated | | | | - |
| Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| B.1 | | | | |
| Equipment | | | | |
| a. Backhoe | 1 | 0.29 | 1,537.00 | 445.73 |
| b. Plate Compactor | 1 | 0.29 | 123.00 | 35.67 |
| Minor Tools (10% of Labor Cost) | | | | 37.88 |
| Sub-Total for B-1 As Submitted | | | | |
| Equipment | | | | 519.28 |
| B.2 | | | | |
| Sub-Total for B-2 As Evaluated | | | | |
| C.1 | | | | |
| Total (A.1+B.1) - As Submitted | | | | 898.07 |
| C.2 | | | | |
| Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | | | | |
| Output per Hour - As Submitted | | | | 1.00 |
| D.2 | | | | |
| Output per Hour - As Evaluated | | | | - |
| E.1 | | | | |
| Direct Unit Cost (C.1 +D.1) - As Submitted | | | | 898.07 |
| E.2 | | | | |
| Direct Unit Cost (C.2 +D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| F.1 | | | | |
| Materials | | | | |
| a. Portland Cement | bag | 1.08 | 276.84 | 298.99 |
| b. Sand | cu.m | 0.06 | 1,156.30 | 70.53 |
| c. RC Pipes (910 mm dia.) | pc | 1.00 | 1,817.00 | 1,817.00 |
| d. Sand Bedding/Selected Sandy Soil | cu.m | 0.13 | 1,156.30 | 148.01 |
| Sub-Total for F-1 As Submitted | | | | |
| Materials | | | | 2,334.53 |
| F.2 | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 | | | | |
| Direct Unit Cost (E.1+F.1) - As Submitted | | | | 3,232.60 |
| G.2 | | | | |
| Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 2%/9%/7%/6% of G.1 | 323.26 |
| H.2 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 2%/9%/7%/6% of G.1 | - |
| I.1 | | | | |
| Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 298.61 |
| I.2 | | | | |
| Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | | | | |
| Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 190.72 |
| J.2 | | | | |
| Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 | | | | |
| Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 4,005.20 |
| K.2 | | | | |
| Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

Prepared by:

Checked/Reviewed


 JERALD R. BARRERA
 Engineer II


 ISIDRA A. ESTANISLAO
 Engineer IV

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Grouted Riprap, Class "A"

Unit of Measurement : 1,575.00 cu.m

Output per hour-As Submitted : 1.25

Output per hour-As Evaluated : -

Note: Use Two (2) gang

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|-----------------|---------------|---------------------|---------------|
| Labor | | | | |
| a. Construction Foreman | 1 | 1.00 | 80.95 | 80.95 |
| b. Skilled Laborer | 4 | 1.00 | 58.61 | 234.44 |
| c. Laborer | 16 | 1.00 | 45.16 | 722.50 |
| Sub-Total for A-1 As Submitted | | | | 1,037.89 |
| Labor | | | | |
| Sub-Total for A-2 As Evaluated | | | | - |
| A.2 | | | | |
| Sub-Total for A-2 As Evaluated | | | | - |
| Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| Equipment | | | | |
| a. One Bagger Mixer | 2 | 1.00 | 172.00 | 344.00 |
| b. Water Truck/Pump | 2 | 0.05 | 2,450.00 | 245.00 |
| Minor Tools (10% of Labor Cost) | | | | 103.79 |
| Sub-Total for B-1 As Submitted | | | | 692.79 |
| Equipment | | | | |
| B.2 | | | | |
| Sub-Total for B-2 As Evaluated | | | | |
| C.1 | | | | |
| Total (A.1+B.1) - As Submitted | | | | 1,730.67 |
| C.2 | | | | |
| Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | | | | |
| Output per Hour - As Submitted | | | | 1.25 |
| D.2 | | | | |
| Output per Hour - As Evaluated | | | | - |
| E.1 | | | | |
| Direct Unit Cost (C.1 +D.1) - As Submitted | | | | 1,384.54 |
| E.2 | | | | |
| Direct Unit Cost (C.2 +D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| Materials | | | | |
| a. Portland Cement | bag | 2.50 | 276.84 | 692.11 |
| b. Sand | cu.m | 0.21 | 1,156.30 | 242.82 |
| c. Gravel Fill | cu.m | 0.02 | 1,206.30 | 18.09 |
| d. Weep Holes | m | 0.30 | 133.00 | 39.90 |
| e. Filter Cloth | sq.m | 0.02 | 160.00 | 2.40 |
| f. Boulder | cu.m | 1.05 | 1,411.30 | 1,481.87 |
| Miscellaneous (1% of Materials Cost) | | | | 24.77 |
| Sub-Total for F-1 As Submitted | | | | 2,501.96 |
| Materials | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 | | | | |
| Direct Unit Cost (E.1+F.1) - As Submitted | | | | 3,886.50 |
| G.2 | | | | |
| Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | 388.65 |
| H.2 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 | | | | |
| Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 310.92 |
| I.2 | | | | |
| Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | | | | |
| Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 229.30 |
| J.2 | | | | |
| Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 | | | | |
| Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 4,815.38 |
| K.2 | | | | |
| Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

Prepared by:

Checked/Reviewed

JERALD R. BARRERA

Engineer II

ISIDRA A. ESTANISLAO

Engineer IV

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Handlaid Rock Embankment

Unit of Measurement : 12,528.00 cu.m
Output per hour-As Submitted : 3.13
Output per hour-As Evaluated :

Note: Use Five (5) gang

| Designation | | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|---------------------------------|--|-----------------|---------------|----------------------------------|---------------|
| Labor | | | | | |
| A.1 | a. Construction Foreman | 1 | 1.00 | 80.95 | 80.95 |
| | b. Skilled Laborer | 10 | 1.00 | 58.61 | 586.09 |
| | c. Laborer | 40 | 1.00 | 45.16 | 1,806.25 |
| | | | | | |
| Sub-Total for A-1 As Submitted | | | | | 2,473.29 |
| Labor | | | | | |
| A.2 | | | | | - |
| | | | | | - |
| Sub-Total for A-2 As Evaluated | | | | | - |
| Name and Capacity | | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| B.1 | Equipment | | | | |
| | | | | | - |
| | | | | | - |
| | | | | | - |
| Minor Tools (10% of Labor Cost) | | | | | 247.33 |
| Sub-Total for B-1 As Submitted | | | | | 247.33 |
| Equipment | | | | | |
| B.2 | | | | | |
| | | | | | |
| Sub-Total for B-2 As Evaluated | | | | | |
| C.1 | Total (A.1+B.1) - As Submitted | | | | |
| C.2 | Total (A.2+B.2) - As Evaluated | | | | 2,720.62 |
| D.1 | Output per Hour - As Submitted | | | | - |
| D.2 | Output per Hour - As Evaluated | | | | 1.60 |
| E.1 | Direct Unit Cost (C.1 +D.1) - As Submitted | | | | - |
| E.2 | Direct Unit Cost (C.2 +D.2) - As Evaluated | | | | 1,700.39 |
| Name and Specification | | Unit | Quantity | Unit Cost | Amount (Php.) |
| F.1 | Materials | | | | |
| | a. Boulders | cu.m | 1.05 | 1,411.30 | 1,481.87 |
| | | | | | - |
| | | | | | - |
| Sub-Total for F-1 As Submitted | | | | | - |
| Materials | | | | | 1,481.87 |
| F.2 | | | | | |
| Sub-Total for F-2 As Evaluated | | | | | |
| G.1 | Direct Unit Cost (E.1+F.1) - As Submitted | | | | - |
| G.2 | Direct Unit Cost (E.2+F.2) - As Evaluated | | | | 3,182.25 |
| H.1 | Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | - |
| H.2 | Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | 318.23 |
| I.1 | Contractor's Profit - As Submitted | | | 10%/8% of G.1 | - |
| I.2 | Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | 254.58 |
| J.1 | Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | - |
| J.2 | Value Added Tax - As Evaluated | | | 5% of (G.1+H1+I1) | 187.75 |
| K.1 | Total Unit Cost - As Submitted | | | 5% of (G.2+H2+I2) | - |
| K.2 | Total Unit Cost - As Evaluated | | | (G.1+H1+I1+J1) (G.2+H2+I2+J1) | 3,942.81 |

Prepared by:

JERALD R. BARRERA

Engineer II

Checked/Reviewed

ISIDRA A. ESTANISLAO

Engineer IV

Zamboanga del Sur

FORM-POW-2015-01D-00

Item No./Description : Const. of Field Office for the Engineer

Unit of Measurement : 1.00 Is
 Output per hour-As Submitted : 1.00
 Output per hour-As Evaluated :

| | Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|-----|--|-----------------|---------------|---------------------|---------------|
| A.1 | Labor | | | | |
| | a. Construction Foreman | 1 | 80 | 80.95 | 6,476.10 |
| | b. Masons | 3 | 80 | 58.61 | 14,066.10 |
| | c. Carpenters | 3 | 80 | 58.61 | 14,066.10 |
| | d. Laborers | 6 | 80 | 45.16 | 21,675.00 |
| | Sub-Total for A-1 As Submitted | | | | 56,283.30 |
| A.2 | Labor | | | | |
| | | | | | |
| | | | | | |
| | Sub-Total for A-2 As Evaluated | | | | |
| B.1 | Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| | Equipment | | | | |
| | a. One Bagger Mixer | 1 | 32 | 172.00 | 5,504.00 |
| | b. Water Truck | 1 | 8 | 2,450.00 | 19,600.00 |
| | Minor Tools (10% of Labor Cost) | | | | 5,628.33 |
| | Sub-Total for B-1 As Submitted | | | | 30,732.33 |
| B.2 | Equipment | | | | |
| | | | | | |
| | | | | | |
| | Sub-Total for B-2 As Evaluated | | | | |
| C.1 | Total (A.1+B.1) - As Submitted | | | | 56,283.30 |
| C.2 | Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | Output per Hour - As Submitted | | | | 1.00 |
| D.2 | Output per Hour - As Evaluated | | | | - |
| E.1 | Direct Unit Cost (C.1 ÷ D.1) - As Submitted | | | | 56,283.30 |
| E.2 | Direct Unit Cost (C.2 ÷ D.2) - As Evaluated | | | | - |
| F.1 | Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| | Materials | | | | |
| | a. Materials | lumpsum | 1 | 400,000.00 | 400,000.00 |
| | | | | | |
| | | | | | |
| | Sub-Total for F-1 As Submitted | | | | 400,000.00 |
| F.2 | Equipment | | | | |
| | | | | | |
| | | | | | |
| | Sub-Total for F-2 As Evaluated | | | | |
| G.1 | Direct Unit Cost (E.1+F.1) - As Submitted | | | | 456,283.30 |
| G.2 | Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 | Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | 45,628.33 |
| H.2 | Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 | Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 36,502.66 |
| I.2 | Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 26,920.71 |
| J.2 | Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 | Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 565,335.01 |
| K.2 | Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

Prepared by:

Checked/Reviewed

JERALD R. BARRERA

Engineer II

ISIDRA A. ESTANISLAO

Engineer IV

Zamboanga del Sur

FORM-POW-2015-01D-00

Item No./Description : Operation & Maintenance of Gov't. Service Vehicles

Unit of Measurement : 1.00 ls
 Output per hour-As Submitted : 1.00
 Output per hour-As Evaluated :

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|-----------------|---------------|---------------------|---------------|
| A.1 | | | | |
| Labor | | | | |
| a. Service Driver | 1 | 1344 | 58.61 | 78,770.16 |
| Sub-Total for A-1 As Submitted | | | | 78,770.16 |
| Labor | | | | |
| | | | | |
| | | | | |
| A.2 | | | | |
| Sub-Total for A-2 As Evaluated | | | | - |
| Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| B.1 | | | | |
| Equipment | | | | |
| Sub-Total for B-1 As Submitted | | | | - |
| Equipment | | | | |
| B.2 | | | | |
| Sub-Total for B-2 As Evaluated | | | | - |
| C.1 | | | | |
| Total (A.1+B.1) - As Submitted | | | | 78,770.16 |
| C.2 | | | | |
| Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | | | | |
| Output per Hour - As Submitted | | | | 1.00 |
| D.2 | | | | |
| Output per Hour - As Evaluated | | | | - |
| E.1 | | | | |
| Direct Unit Cost (C.1 + D.1) - As Submitted | | | | 78,770.16 |
| E.2 | | | | |
| Direct Unit Cost (C.2 + D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| F.1 | | | | |
| Materials | | | | |
| a. Diesel Fuel | ltrs | 5,040.00 | 50.00 | 252,000.00 |
| b. Engine Oil & Lubricants | ls | 1.00 | 30,000.00 | 30,000.00 |
| c. Tires | pcs | 4.00 | 10,000.00 | 40,000.00 |
| d. Spareparts etc. | ls | 1.00 | 100,000.00 | 100,000.00 |
| Sub-Total for F-1 As Submitted | | | | 422,000.00 |
| Equipment | | | | |
| F.2 | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 | | | | |
| Direct Unit Cost (E.1+F.1) - As Submitted | | | | 500,770.16 |
| G.2 | | | | |
| Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | - |
| H.2 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 | | | | |
| Contractor's Profit - As Submitted | | | 10%/8% of G.1 | - |
| I.2 | | | | |
| Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | | | | |
| Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 25,038.51 |
| J.2 | | | | |
| Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 | | | | |
| Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 525,808.67 |
| K.2 | | | | |
| Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J2) | - |

Prepared by:

Checked/Reviewed

JERALD R. BARRERA

Engineer II

ISIDRA A. ESTANISLAO

Engineer IV

Zamboanga del Sur

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Construction Survey and Staking

Unit of Measurement : 0.59 km

Output per hour-As Submitted : 1.00

Output per hour-As Evaluated :

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|---------------------|----------------------|---------------------|----------------------|
| Labor | | | | |
| <i>(For Field Works)</i> | | | | |
| a. Geodetic Engineer | 1 | 27 | 80.95 | 2,185.68 |
| b. Skilled Laborer | 3 | 27 | 58.61 | 4,747.31 |
| c. Laborer | 3 | 27 | 45.16 | 3,657.66 |
| <i>(For Office Works)</i> | | | | |
| a. Geodetic Engineer | 1 | 80 | 80.95 | 6,476.10 |
| b. Skilled Laborer | 2 | 80 | 58.61 | 9,377.40 |
| Sub-Total for A-1 As Submitted | | | | 26,444.15 |
| Labor | | | | |
| | | | | |
| | | | | |
| A.2 | | | | |
| Sub-Total for A-2 As Evaluated | | | | |
| Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| Equipment | | | | |
| a. Total Station with complete accessories | 1 | 27 | 100.00 | 2,700.00 |
| Sub-Total for B-1 As Submitted | | | | 2,700.00 |
| Equipment | | | | |
| | | | | |
| B.2 | | | | |
| Sub-Total for B-2 As Evaluated | | | | |
| C.1 Total (A.1+B.1) - As Submitted | | | | 29,144.15 |
| C.2 Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 Output per Hour - As Submitted | | | | 1.00 |
| D.2 Output per Hour - As Evaluated | | | | - |
| E.1 Direct Unit Cost (C.1 +D.1) - As Submitted | | | | 29,144.15 |
| E.2 Direct Unit Cost (C.2 +D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| Materials | | | | |
| F.1 a. Standard Stake Plan | pcs | 35 | 200.00 | 7,000.00 |
| b. Blue Printing | pcs | 115 | 40.00 | 4,600.00 |
| Miscellaneous (5% of Materials) | | | | 580.00 |
| Sub-Total for F-1 As Submitted | | | | 12,180.00 |
| Materials | | | | |
| | | | | |
| F.2 | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 Direct Unit Cost (E.1+F.1) - As Submitted | | | | 41,324.15 |
| G.2 Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | 4,132.41 |
| H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 3,305.93 |
| I.2 Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 2,438.12 |
| J.2 Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 51,200.62 |
| K.2 Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

Prepared by :

Checked/Reviewed

JERALD R. BARRERA

Engineer II

ISIDRA A. ESTANISLAO

Engineer IV

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

| | | |
|------------------------------|---|-------------------|
| Item No./Description | : | Project Billboard |
| Unit of Measurement | : | 4.00 unit |
| Output per hour-As Submitted | : | 1.00 |
| Output per hour-As Evaluated | : | - |

| | Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|-----|--|-----------------|---------------|---------------------|---------------|
| A.1 | Labor | | | | |
| | a. Construction Foreman | 1 | 1 | 80.95 | 80.95 |
| | b. Skilled Laborer | 2 | 1 | 58.61 | 117.22 |
| | c. Laborer | 2 | 1 | 45.16 | 90.31 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | Sub-Total for A-1 As Submitted | | | | 288.48 |
| | Labor | | | | |
| A.2 | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | Sub-Total for A-2 As Evaluated | | | | |
| B.1 | Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| | Equipment | | | | |
| | | | | | |
| | | | | | |
| | Sub-Total for B-1 As Submitted | | | | - |
| | Equipment | | | | |
| B.2 | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | Sub-Total for B-2 As Evaluated | | | | |
| C.1 | Total (A.1+B.1) - As Submitted | | | | 288.48 |
| C.2 | Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | Output per Hour - As Submitted | | | | 1.00 |
| D.2 | Output per Hour - As Evaluated | | | | - |
| E.1 | Direct Unit Cost (C.1 ÷ D.1) - As Submitted | | | | 288.48 |
| E.2 | Direct Unit Cost (C.2 ÷ D.2) - As Evaluated | | | | - |
| | Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| F.1 | Materials | | | | |
| | a. Marine Plywood, 3/6" thk x 4' x 8' | pcs | 1.00 | 1,247.00 | 1,247.00 |
| | b. Tarpauling (4" x 8') | pcs | 1.00 | 800.00 | 800.00 |
| | c. Assorted Lumber Sizes | bd.ft | 50.00 | 20.00 | 1,000.00 |
| | d. Assorted Sizes CWN Nails | kg | 1.00 | 78.00 | 78.00 |
| | Sub-Total for F-1 As Submitted | | | | 3,047.00 |
| | Materials | | | | |
| F.2 | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | Sub-Total for F-2 As Evaluated | | | | - |
| G.1 | Direct Unit Cost (E.1+F.1) - As Submitted | | | | 3,335.48 |
| G.2 | Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 | Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | 333.55 |
| H.2 | Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 | Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 266.84 |
| I.2 | Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 196.79 |
| J.2 | Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 | Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 4,132.66 |
| K.2 | Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

Prepared by:


JERALD R. BARRERA
Engineer II

Checked/Reviewed


ISIDRA A. ESTANISLAO
Engineer IV

Zamboanga del Sur

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Occupational Safety & Health Program

Unit of Measurement : 1.00 ls
 Output per hour-As Submitted : 1.00
 Output per hour-As Evaluated : -

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|---|-----------------|-----------------|---------------------|----------------------|
| Labor | | | | |
| a. Safety Practitioner | 1 | 672 | 80.95 | 54,399.24 |
| b. First Aider | 2 | 1344 | 74.14 | 199,278.24 |
| A.1 | | | | |
| | | | | |
| | | | | |
| | | | | |
| Sub-Total for A-1 As Submitted | | | | 253,677.48 |
| Labor | | | | |
| | | | | |
| | | | | |
| A.2 | | | | |
| Sub-Total for A-2 As Evaluated | | | | |
| B.1 | | | | |
| Equipment | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| | | | | |
| | | | | |
| Sub-Total for B-1 As Submitted | | | | - |
| Equipment | | | | |
| | | | | |
| B.2 | | | | |
| Sub-Total for B-2 As Evaluated | | | | |
| C.1 | | | | |
| Total (A.1+B.1) - As Submitted | | | | 253,677.48 |
| C.2 | | | | |
| Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | | | | |
| Output per Hour - As Submitted | | | | 1.00 |
| D.2 | | | | |
| Output per Hour - As Evaluated | | | | - |
| E.1 | | | | |
| Direct Unit Cost (C.1 +D.1) - As Submitted | | | | 253,677.48 |
| E.2 | | | | |
| Direct Unit Cost (C.2 +D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| F.1 | | | | |
| Materials | | | | |
| a. Pairs, Rubber Boots Men, Long with Steel Toe, Black | pair | 24.00 | 400.00 | 9,600.00 |
| b. Pails, Working Gloves (Moong Materials) | pair | 24.00 | 15.00 | 360.00 |
| c. Rain Coats (Rain Forced, Hip Length Small, Medium & Large) | pcs | 24.00 | 100.00 | 2,400.00 |
| Sub-Total for F-1 As Submitted | | | | 12,360.00 |
| Materials | | | | |
| | | | | |
| F.2 | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 | | | | |
| Direct Unit Cost (E.1+F.1) - As Submitted | | | | 266,037.48 |
| G.2 | | | | |
| Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | - |
| H.2 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 | | | | |
| Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 21,283.00 |
| I.2 | | | | |
| Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | | | | |
| Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 14,366.02 |
| J.2 | | | | |
| Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 | | | | |
| Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 301,686.50 |
| K.2 | | | | |
| Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

Prepared by:

Checked/Reviewed

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Engineer IV

Zamboanga del Sur

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Mobilization & Demobilization

Unit of Measurement : 1.00 ls
 Output per hour-As Submitted : 1.00
 Output per hour-As Evaluated :

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|-----------------|---------------|---------------------|---------------|
| Labor | | | | |
| A.1 | | | | - |
| | | | | - |
| | | | | - |
| | | | | - |
| | | | | - |
| Sub-Total for A-1 As Submitted | | | | = |
| Labor | | | | |
| A.2 | | | | |
| | | | | |
| Sub-Total for A-2 As Evaluated | | | | |
| | | | | |
| Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| Equipment | | | | |
| a. Low Bed Trailer | 2 | 56 | 4,255.38 | 476,602.00 |
| | | | | |
| Sub-Total for B-1 As Submitted | | | | 476,602.00 |
| Equipment | | | | |
| B.2 | | | | |
| | | | | |
| Sub-Total for B-2 As Evaluated | | | | |
| C.1 | | | | |
| Total (A.1+B.1) - As Submitted | | | | 476,602.00 |
| C.2 | | | | |
| Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | | | | |
| Output per Hour - As Submitted | | | | 1.00 |
| D.2 | | | | |
| Output per Hour - As Evaluated | | | | - |
| E.1 | | | | |
| Direct Unit Cost (C.1 +D.1) - As Submitted | | | | 476,602.00 |
| E.2 | | | | |
| Direct Unit Cost (C.2 +D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| F.1 | | | | |
| Materials | | | | - |
| | | | | - |
| | | | | - |
| Sub-Total for F-1 As Submitted | | | | - |
| Materials | | | | |
| F.2 | | | | |
| | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 | | | | |
| Direct Unit Cost (E.1+F.1) - As Submitted | | | | 476,602.00 |
| G.2 | | | | |
| Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | - |
| H.2 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 | | | | |
| Contractor's Profit - As Submitted | | | 10%/8% of G.1 | - |
| I.2 | | | | |
| Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | | | | |
| Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 23,830.10 |
| J.2 | | | | |
| Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 | | | | |
| Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 500,432.10 |
| K.2 | | | | |
| Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

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Engineer IV

Zamboanga del Sur

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Structure Excavation

Unit of Measurement : 9,724.00 cu.m

Output per hour-As Submitted : 20.00

Output per hour-As Evaluated : -

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|---------------------|----------------------|---------------------|----------------------|
| Labor | | | | |
| a. Construction Foreman | 1 | 1.00 | 80.95 | 80.95 |
| b. Laborer | 3 | 1.00 | 45.16 | 135.47 |
| A.1 | | | | |
| | | | | |
| | | | | |
| | | | | |
| Sub-Total for A-1 As Submitted | | | | 216.42 |
| Labor | | | | |
| | | | | |
| | | | | |
| A.2 | | | | |
| Sub-Total for A-2 As Evaluated | | | | - |
| | | | | |
| Name and Capacity | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| Equipment | | | | |
| a. Dumptruck | 1 | 1.00 | 1,420.00 | 1,420.00 |
| b. Backhoe | 1 | 1.00 | 1,537.00 | 1,537.00 |
| c. Minor Tools (10% of Labor) | | | | 21.64 |
| Sub-Total for B-1 As Submitted | | | | 2,978.64 |
| Equipment | | | | |
| | | | | |
| B.2 | | | | |
| Sub-Total for B-2 As Evaluated | | | | |
| C.1 | | | | |
| Total (A.1+B.1) - As Submitted | | | | 3,195.06 |
| C.2 | | | | |
| Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | | | | |
| Output per Hour - As Submitted | | | | 20.00 |
| D.2 | | | | |
| Output per Hour - As Evaluated | | | | - |
| E.1 | | | | |
| Direct Unit Cost (C.1 + D.1) - As Submitted | | | | 159.75 |
| E.2 | | | | |
| Direct Unit Cost (C.2 + D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| Materials | | | | |
| F.1 | | | | |
| | | | | - |
| | | | | - |
| | | | | - |
| Sub-Total for F-1 As Submitted | | | | - |
| Materials | | | | |
| | | | | |
| F.2 | | | | |
| | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 | | | | |
| Direct Unit Cost (E.1+F.1) - As Submitted | | | | 159.75 |
| G.2 | | | | |
| Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 12%/9%/7%/6% of G.1 | 15.98 |
| H.2 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 12%/9%/7%/6% of G.1 | - |
| I.1 | | | | |
| Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 12.78 |
| I.2 | | | | |
| Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | | | | |
| Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 9.43 |
| J.2 | | | | |
| Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 | | | | |
| Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 197.93 |
| K.2 | | | | |
| Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J2) | - |

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Checked/Reviewed

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Engineer IV

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Embankment from Borrow

Unit of Measurement : 1,829.00 cu.m
 Output per hour-As Submitted : 50.00
 Output per hour-As Evaluated : -

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|-----------------|---------------|--------------------|---------------|
| Labor | | | | |
| A.1 | | | | |
| a. Construction Foreman | 1 | 1.00 | 80.95 | 80.95 |
| b. Laborer | 2 | 1.00 | 45.16 | 90.31 |
| | | | | - |
| | | | | - |
| Sub-Total for A-1 As Submitted | | | | 171.26 |
| Labor | | | | |
| A.2 | | | | |
| Sub-Total for A-2 As Evaluated | | | | - |
| | | | | - |
| Equipment | | | | |
| B.1 | | | | |
| a. Motorized Road Grader | 1 | 1.00 | 2,173.00 | 2,173.00 |
| b. Vibratory Roller | 1 | 1.00 | 1,846.00 | 1,846.00 |
| c. Water Truck/Pump | 1 | 0.25 | 2,450.00 | 612.50 |
| | | | | - |
| | | | | - |
| Sub-Total for B-1 As Submitted | | | | 4,631.50 |
| Equipment | | | | |
| B.2 | | | | |
| Sub-Total for B-2 As Evaluated | | | | - |
| C.1 | | | | |
| Total (A.1+B.1) - As Submitted | | | | 4,802.76 |
| C.2 | | | | |
| Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 | | | | |
| Output per Hour - As Submitted | | | | 50.00 |
| D.2 | | | | |
| Output per Hour - As Evaluated | | | | - |
| E.1 | | | | |
| Direct Unit Cost (C.1 +D.1) - As Submitted | | | | 96.06 |
| E.2 | | | | |
| Direct Unit Cost (C.2 +D.2) - As Evaluated | | | | - |
| Materials | | | | |
| F.1 | | | | |
| a. Common Borrow | cu.m | 1.25 | 386.40 | 483.00 |
| | | | | - |
| Sub-Total for F-1 As Submitted | | | | 483.00 |
| Materials | | | | |
| F.2 | | | | |
| Sub-Total for F-2 As Evaluated | | | | - |
| G.1 | | | | |
| Direct Unit Cost (E.1+F.1) - As Submitted | | | | 579.06 |
| G.2 | | | | |
| Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 2%/9%/7%/6% of G.1 | 57.91 |
| H.2 | | | | |
| Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 2%/9%/7%/6% of G.1 | - |
| I.1 | | | | |
| Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 46.32 |
| I.2 | | | | |
| Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 | | | | |
| Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 34.16 |
| J.2 | | | | |
| Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 | | | | |
| Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 717.45 |
| K.2 | | | | |
| Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

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Engineer IV

Zamboanga del Sur

DETAILED UNIT PRICE ANALYSIS

FORM-POW-2015-01D-00

Item No./Description : Aggregate Subbase Course

Unit of Measurement : 814.00 cu.m
 Output per hour-As Submitted : 50.00
 Output per hour-As Evaluated : -

| Designation | No. of Person/s | No. of Hour/s | Hourly Rate | Amount (Php.) |
|--|-----------------|---------------|--------------------|---------------|
| Labor | | | | |
| a. Construction Foreman | 1 | 1.00 | 80.95 | 80.95 |
| A.1 b. Laborer | 2 | 1.00 | 45.16 | 90.31 |
| | | | | - |
| | | | | - |
| Sub-Total for A-1 As Submitted | | | | 171.26 |
| Labor | | | | |
| | | | | - |
| | | | | - |
| A.2 Sub-Total for A-2 As Evaluated | | | | - |
| Equipment | No. of Units | No. of Hour/s | Hourly Rate | Amount (Php.) |
| a. Motorized Road Grader | 1 | 1.00 | 2,173.00 | 2,173.00 |
| B.1 b. Vibratory Roller | 1 | 1.00 | 1,846.00 | 1,846.00 |
| c. Water Truck/Pump | 1 | 0.25 | 2,450.00 | 612.50 |
| | | | | |
| Sub-Total for B-1 As Submitted | | | | 4,631.50 |
| Equipment | | | | |
| | | | | |
| B.2 Sub-Total for B-2 As Evaluated | | | | |
| C.1 Total (A.1+B.1) - As Submitted | | | | 4,802.76 |
| C.2 Total (A.2+B.2) - As Evaluated | | | | - |
| D.1 Output per Hour - As Submitted | | | | 50.00 |
| D.2 Output per Hour - As Evaluated | | | | - |
| E.1 Direct Unit Cost (C.1 ÷ D.1) - As Submitted | | | | 96.06 |
| E.2 Direct Unit Cost (C.2 ÷ D.2) - As Evaluated | | | | - |
| Name and Specification | Unit | Quantity | Unit Cost | Amount (Php.) |
| F.1 Materials | | | | |
| a. Aggregate Subbase Course | cu.m | 1.15 | 1,056.30 | 1,214.75 |
| | | | | - |
| Sub-Total for F-1 As Submitted | | | | 1,214.75 |
| Materials | | | | |
| | | | | |
| F.2 Sub-Total for F-2 As Evaluated | | | | - |
| G.1 Direct Unit Cost (E.1+F.1) - As Submitted | | | | 1,310.80 |
| G.2 Direct Unit Cost (E.2+F.2) - As Evaluated | | | | - |
| H.1 Overhead, Contingencies & Miscellaneous (OCM) - As Submitted | | | 2%/9%/7%/6% of G.1 | 131.08 |
| H.2 Overhead, Contingencies & Miscellaneous (OCM) - As Evaluated | | | 2%/9%/7%/6% of G.1 | - |
| I.1 Contractor's Profit - As Submitted | | | 10%/8% of G.1 | 104.86 |
| I.2 Contractor's Profit - As Evaluated | | | 10%/8% of G.1 | - |
| J.1 Value Added Tax - As Submitted | | | 5% of (G.1+H1+I1) | 77.34 |
| J.2 Value Added Tax - As Evaluated | | | 5% of (G.2+H2+I2) | - |
| K.1 Total Unit Cost - As Submitted | | | (G.1+H1+I1+J1) | 1,624.08 |
| K.2 Total Unit Cost - As Evaluated | | | (G.2+H2+I2+J1) | - |

Prepared by:

Checked/Reviewed

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Engineer II

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Engineer IV

UNIT COST ANALYSIS FOR HAULING COST FOR ALL AGGREGATES

Hauling Cost from the District Office to Site

Item No : ALL AGGREGATES
Quantity : 1,000.00

Terrain : Flat to Rolling
Unit : cu.m.
Hauling Distance : 5.00 km.
Effective Working Hours : 8.00 hrs.

Hauling : Using 10.00 cu.m. capacity Dumptruck
Weight of Dumptruck (cap. 10.00 cu.m.) : 16,000.00 kgs
Unit Weight of Fine Aggregates : 1,640.00 kg/cu.m.
Unit Weight of Course Aggregates : 1,534.00 kg/cu.m.
Maximum Volume to be Carried per DT : 11.57 cu.m.

* Dumptruck (10 Wheeler) days computation : TIME-MOTION ANALYSIS

Speed when loaded : 30.00 kph
Speed when unloaded : 40.00 kph

$$\text{Loaded Running} = \frac{5.00 \times 60.00}{30.00} = 10 \text{ mins.}$$

$$\text{Unloaded Running} = \frac{5.00 \times 60.00}{40.00} = 7.5 \text{ mins.}$$

Loading & Unloading = 5.00 mins.
Capacity of Dumptruck = 10.00 cu.m.
Total Cycle Time = 22.50 mins.

$$\text{No. of trips for Dumptruck per day} = \frac{8.00 \times 60.00}{22.50} = 21.33 \text{ trips}$$

Dumptruck Daily Output = 10.00 X 21.33 = 213.33 cu.m.
Using 4 Dumptruck = 213.33 X 4.00 = 853.33 cu.m.

$$\text{No. of Days for Dumptruck} = \frac{1,000.00}{853.33} = 1.17 \text{ days}$$

EQUIPMENT USED: (2009 ACEL RATES)

$$4.00 - \text{Unit Dumptruck} @ P 10,816.00 / \text{day} \times 1.17 \text{ days} = P \frac{50,700.00}{50,700.00} \text{ Sub-Total}$$

Estimated Quantity = 1,000.00 cu.m.
Unit Cost P 10.14 /cu.m/km. (unit cost hauling per cu.m. per km.)

Grand Total P 50,700.00
Equipment P 50,700.00
Labor P
Equipment P

ZAMBOANGA DEL SUR 1st DEO (using 3rd Quarter 2018)

| | Hauling Distance | Unit Cost per cu.m/km | Hauling Cost per km. | Unit Price | Unit cost per cu.m. |
|-------------------------------------|------------------|-----------------------|----------------------|------------|---------------------|
| Cost of Fine Aggregates | 45.00 X | 10.14 | = 456.30 | + 700.00 | = 1,156.30 |
| Cost of Coarse Aggregates | 45.00 X | 10.14 | = 456.30 | + 750.00 | = 1,206.30 |
| Cost of Item 200 Materials | 45.00 X | 10.14 | = 456.30 | + 600.00 | = 1,056.30 |
| Cost of Item 201 Materials | 45.00 X | 10.14 | = 456.30 | + 630.00 | = 1,086.30 |
| Cost of Item 300 Materials | 45.00 X | 10.14 | = 456.30 | + 700.00 | = 1,156.30 |
| Cost of Boulders | 45.00 X | 10.14 | = 456.30 | + 955.00 | = 1,411.30 |
| Cost of Embankment, Common Borrow | 10.00 X | 10.14 | = 101.40 | + 285.00 | = 386.40 |
| Cost of Embankment, Selected Borrow | 10.00 X | 10.14 | = 101.40 | + 320.00 | = 421.40 |

UNIT COST DERIVATION FOR PORTLAND CEMENT

TOTAL QUANTITY REQUIREMENTS FOR PORTLAND CEMENT

| Description | Quantity (Bags) |
|--|------------------|
| Portland Cement Concrete Pavement | - |
| Portland Cement Concrete Pavement | - |
| Structural Concrete, $f_c=27.58$ Mpa | 16,026.50 |
| Structural Steel Furnished, Fabricated and Erected | - |
| Pipe Culvert & Storm Drain | 34.56 |
| Reinforced Concrete Culverts Pipe, 610 mm dia | - |
| Grouted Riprap, Class "A" | 3,937.50 |
| Stone Masonry | - |
| | |
| | |
| | |
| | |
| | |
| | |
| TOTAL | 19,998.56 |

Quantity = 19,998.56 Bags

Delivery Charge = P 0.12 /bag/km

| SITE | HAULING DISTANCE |
|---------------------------|------------------|
| Zamboanga del Sur 1st DEO | |
| PROJECT SITE | 50.00 |

* Average Hauling Distance from source to assumed stockpiling area:
say 50.00 km.

Delivery Charge = P 0.12 X 50.00
Delivery Charge = P 6.00 /bag

* Delivery Truck : 19,998.56 bags (hauling works)
20,000.00 kgs., (capacity per haul)
500.00 bags, (capacity per haul)

* Capacity of laborers unloading bags of Cement from Delivery Truck:
Assume 10 laborers can unload 500.00 bags of Cement
*Dumptruck (10 Wheeler) days computation : **TIME - MOTION ANALYSIS**
Speed when loaded : 30.00 kph
Speed when unloaded : 40.00 kph

Loaded Running = $\frac{50.00 \times 60.00}{30.00}$ = 100 mins.

Unloading Running = $\frac{50.00 \times 60.00}{40.00}$ = 75 mins.

Loading & Unloading = 45.00 mins.

Capacity of Dumptruck = 8.00 cu.m.

500.00 bags

Total Cycle Time = 220.00 mins.

$$\text{No. of trips for Dumptruck per day} = \frac{8.00 \times 60.00}{220.00} = 2.18 \text{ trips}$$

$$\begin{array}{lclcl} \text{Dumptruck Daily Output} & = & 500.00 & \times & 2.18 & = & 1,090.91 & \text{cu.m.} \\ \text{Using 4 Dumptruck} & = & 1,090.91 & \times & 4.00 & = & 4,363.64 & \text{cu.m.} \end{array}$$

$$\text{No. of Days for Dumptruck} = \frac{19,998.56}{4,363.64} = 4.58 \text{ days}$$

$$\begin{array}{lclcl} \text{No. of Days for Labor for unloading} & = & \text{complimentary to D.Truck days} & = & 4.58 & \text{days} \end{array}$$

DELIVERY COST:

$$19,998.56 \text{ Bags, Portland Cement} @ \text{ P } 6.00 \text{ /bag} = \text{P } \underline{119,991.36}$$

Sub-total

LABOR:

| | | | | | | | | |
|-------------|---|---|-------------|---|-----------|---|---|------------------|
| 1 Foreman | @ | P | 558.00 /day | X | 4.58 days | = | P | 2,557.32 |
| 10 Laborers | @ | P | 312.24 /day | X | 4.58 days | = | | 14,309.97 |
| | | | | | | | | Sub-total |
| | | | | | | | | 16,867.29 |

MATERIALS:

$$19,998.56 \text{ Bags, Portland Cement} @ \text{ P } 270.00 \text{ /bag} = \text{P } \underline{5,399,611.20}$$

Sub-total

Estimated Quantity : 19,998.56 Bags

| | | |
|---------------|---|--------------|
| Unit Cost | P | 276.84 |
| Grand Total | P | 5,536,469.85 |
| Delivery Cost | P | 119,991.36 |
| Labor | P | 16,867.29 |
| Materials | P | 5,399,611.20 |