

R2A CONSTRUCTION AND TRADING

Baluctot River Irrigation System

LABOR / RENTAL RATES AND UNIT COST OF MATERIALS

| MATERIALS | UNIT | QUANTITY | COST (w/o hauling) |
|---------------------|------------------|----------|--------------------|
| Cement | bags | 1.00 | 230.00 |
| Gravel | cum | 1.00 | 1,900.00 |
| Sand | cum | 1.00 | 1,250.00 |
| Tie wire | kgs. | 1.00 | 85.00 |
| Plywood | pcs. | 1.00 | 600.00 |
| F. Lumber | b. f. | 1.00 | 75.00 |
| Cwnail | kgs. | 1.00 | 90.00 |
| RSB | kgs. | 1.00 | 75.00 |
| PERSONNEL | NO. OF PERSONNEL | UNIT | UNIT COST |
| Foreman | 1.00 | day | 750.00 |
| Carpenter | 1.00 | day | 650.00 |
| Bar Cutter | 1.00 | day | 429.00 |
| Mason | 1.00 | day | 650.00 |
| Steelman | 1.00 | day | 650.00 |
| Laborer | 1.00 | day | 429.00 |
| EQUIPMENT/HANDTOOLS | NO. OF UNIT | UNIT | UNIT COST |
| One Bagger Mixer | 1.00 | day | 300.00 |

Prepared by:


RICO GARCIA BARIAS
 General Manager

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R2A CONSTRUCTION AND TRADING

Project: Construction of Canal Lining (Sta. 1+503.80-1+672.00 MC)

Location: Dasmariñas, Cavite

Structure Backfill

I. Labor Cost

| | | | | | |
|--------------------------|------|----------|-------------------|---|---------------|
| Capability: | 3.00 | cu.m/day | | | |
| Laborer | 1 | @ | 429.00 | = | 429.00 |
| | | 3 | | | |
| | | | | | 143.00 |
| | | | | | |
| | | | Total Cost | = | 143.00 |
| Indirect Cost | | 30% | Total Cost | = | 42.90 |
| Overall Unit Cost | | | | = | 185.90 |

Structure Excavation

I. Labor Cost

| | | | | | |
|--------------------------|------|----------|-------------------|---|---------------|
| Capability: | 1.75 | cu.m/day | | | |
| Laborer | 1 | @ | 429.00 | = | 429.00 |
| | | 1.75 | | | |
| | | | | | 245.14 |
| | | | | | |
| | | | Total Cost | = | 245.14 |
| Indirect Cost | | 30% | Total Cost | = | 73.54 |
| Overall Unit Cost | | | | = | 318.66 |

Demolition

II. Labor Cost

| | | | | | |
|--------------------------|-----|----------|-------------------|---|-----------------|
| Capability: | 0.2 | cu.m/day | | | |
| Laborer | 1 | @ | 429.00 | = | 429.00 |
| | | 0.2 | | | |
| | | | | | 2,145.00 |
| | | | | | |
| | | | Total Cost | = | 2,145.00 |
| Indirect Cost | | 30% | Total Cost | = | 643.50 |
| Overall Unit Cost | | | | = | 2,788.50 |

Construction Safety and Health Program (CSHP)

| | Qty | Days | No. | Unit Cost | Amount |
|----------------|-------|-------|--------------|--------------|------------------|
| Helmet | 12.00 | - | | 150.00 | 1,800.00 |
| Safety Shoes | 12.00 | - | | 250.00 | 3,000.00 |
| Working Gloves | 11.00 | - | | 200.00 | 2,200.00 |
| Face Mask | 12.00 | 90.00 | x2 (Twice to | 1.00 | 2,160.00 |
| First Aider | 1.00 | 90.00 | | 400.00 | 36,000.00 |
| | | | | TOTAL | 45,160.00 |
| | | | | say | 38,000.00 |

Submitted by:


RICO GARCIA BARIAS
General Manager

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R2A CONSTRUCTION AND TRADING

PROJECT: Construction of Canal Lining (Sta. 1+503.80-1+672.00 MC)
LOCATION: Dasmariñas, Cavite

CLASS "A" CONCRETE (Column & Footing)

A. MATERIAL COST:

| | | | | | | | |
|----------------------------|-------|-------|---|----------|---|-------------------------|----------|
| Cement | 9.00 | bags | @ | 230.00 | = | 2,070.00 | |
| Gravel | 0.90 | cum | @ | 1,900.00 | = | 1,710.00 | |
| Sand | 0.45 | cum | @ | 1,250.00 | = | 562.50 | |
| RSB | 70.00 | kgs. | @ | 75.00 | = | 5,250.00 | |
| Tie wire | 0.84 | kgs. | @ | 85.00 | = | 71.40 | |
| F. Lumber | 25.00 | b. f. | @ | 75.00 | = | 1,875.00 | |
| Cwnail | 2.00 | kgs. | @ | 90.00 | = | 180.00 | |
| Plywood | 1.25 | pcs. | @ | 600.00 | = | 750.00 | |
| TOTAL MATERIAL COST | | | | | | <u>12,468.90</u> | / cu. m. |

B. LABOR COST:

1. Cut, Bend and Place of RSB

| | | | | | | | |
|------------------|-----------------|---------|----------------|---------|---|----------------|------------|
| 1.00 | Steelman | @ | 650.00 | / day | = | 650.00 | / day |
| 1.00 | Bar Cutter | @ | 429.00 | / day | = | 429.00 | / day |
| 1.00 | Laborer | @ | 429.00 | / day | = | 429.00 | / day |
| | | | | | | <u>1508.00</u> | / day |
| Capability = | 10.00 | kgs/hr. | x | 8.00 | = | 80.00 | kgs. / day |
| | Labor Cost | = | <u>1508.00</u> | / day | = | 18.85000 | / kg. |
| | | | 80 | kgs/day | | | |
| LaborCost/cu.m = | <u>18.85000</u> | x | 70.00 | | = | <u>1319.50</u> | / cu. m. |

2. Fabrication, Placing and Dismantling of Forms

| | | | | | | | |
|-----------------|------------------|---|-----------------|-------|---|-----------------|----------|
| 2.00 | Carpenters | @ | 650.00 | / day | = | 1,300.00 | / day |
| 4.00 | Laborers | @ | 429.00 | / day | = | 1,716.00 | / day |
| | | | | | | <u>3,016.00</u> | |
| Capability: | 3.50 cu. m / day | | | | | | |
| Labor Cost/cu.m | = | | <u>3,016.00</u> | | = | <u>861.71</u> | / cu. m. |
| | | | 3.50 | | | | |

3. Concreting and Curing

a. With concrete mixer - bagger

Capability: 3.50 cu. m/day

| | | | | | | | | | | |
|-----------------|--------------|-------------|-----------------|-------|------------|-----------------|----------|----------|---|------|
| Time of mixer = | 9.00 | bags/cu. m. | X | 3.50 | cu. m./day | X | 10 | min./bag | = | 5.25 |
| | | | | 60 | min./hr. | | | | | |
| 1.00 | Foreman | @ | 750.00 | / day | = | 750.00 | / day | | | |
| 2.00 | Mason | @ | 650.00 | / day | = | 1,300.00 | / day | | | |
| 8.00 | Laborers | @ | 429.00 | / day | = | 3,432.00 | / day | | | |
| 1.00 | L.E Operator | @ | 429.00 | / day | | 429.00 | | | | |
| | | | | | | <u>5,911.00</u> | | | | |
| Labor Cost/cu.m | = | | <u>5,911.00</u> | | = | <u>1,688.86</u> | / cu. m. | | | |
| | | | 3.50 | | | | | | | |

C. EQUIPMENT COST

One bager Mixer 1 x 300.00 /day = 300.00

SUMMARY:

A. MATERIAL COST = 12,468.90

B. LABOR COST:

1. Cut, Bend and Place of RSB = 1,319.50

2. Fabrication Placing and Dismantling of forms = 861.71

3. Concreting and Curing w/ concrete mixer = 1,688.86

3,870.07

C. EQUIPMENT COST

1. Equipment Cost = 300.00

ESTIMATED DIRECT COST (EDC)

Plus = 16,638.97

30% I.C. 4,991.69

TOTAL 21,630.67

R2A CONSTRUCTION AND TRADING

PROJECT: Construction of Canal Lining (Sta. 1+503.80-1+672.00 MC)
LOCATION: Dasmariñas, Cavite

CLASS "A" CONCRETE (Side Wall & Fillet)

A. MATERIAL COST:

| | | | | | | | |
|----------------------------|-------|-------|---|----------|---|-------------------------|---------|
| Cement | 9.00 | bags | @ | 230.00 | = | 2,070.00 | |
| Gravel | 0.90 | cum | @ | 1,900.00 | = | 1,710.00 | |
| Sand | 0.45 | cum | @ | 1,250.00 | = | 562.50 | |
| RSB | 40.00 | kgs. | @ | 75.00 | = | 3,000.00 | |
| Tie wire | 0.48 | kgs. | @ | 85.00 | = | 40.80 | |
| F. Lumber | 25.00 | b. f. | @ | 75.00 | = | 1,875.00 | |
| Cwnail | 2.00 | kgs. | @ | 90.00 | = | 180.00 | |
| Plywood | 1.25 | pcs. | @ | 600.00 | = | 750.00 | |
| TOTAL MATERIAL COST | | | | | | <u>10,188.30</u> | / cu.m. |

B. LABOR COST:

1. Cut, Bend and Place of RSB

| | | | | | | | |
|------------------|-----------------|---------|----------------|---------|---|----------------|------------|
| 1.00 | Steelman | @ | 650.00 | / day | = | 650.00 | / day |
| 1.00 | Bar Cutter | @ | 429.00 | / day | = | 429.00 | |
| 1.00 | Laborer | @ | 429.00 | / day | = | 429.00 | / day |
| | | | | | | <u>1508.00</u> | / day |
| Capability = | 10.00 | kgs/hr. | x | 8.00 | = | 80.00 | kgs. / day |
| | Labor Cost | = | <u>1508.00</u> | / day | = | 18.85000 | / kg. |
| | | | 80 | kgs/day | | | |
| LaborCost/cu.m = | <u>18.85000</u> | x | 40.00 | | = | <u>754.00</u> | / cu.m. |

2. Fabrication, Placing and Dismantling of Forms

| | | | | | | | |
|-----------------|-----------------|-----------------|--------|---------------|---------|-----------------|-------|
| 2.00 | Carpenters | @ | 650.00 | / day | = | 1,300.00 | / day |
| 4.00 | Laborers | @ | 470.00 | / day | = | 1,880.00 | / day |
| | | | | | | <u>3,180.00</u> | |
| Capability: | 3.50 cu.m / day | | | | | | |
| Labor Cost/cu.m | = | <u>3,180.00</u> | = | <u>908.57</u> | / cu.m. | | |
| | | 3.50 | | | | | |

3. Concreting and Curing

a. With concrete mixer - bagger

Capability: 3.50 cu.m/day

| | | | | | | | | | | |
|-----------------|--------------|-----------------|--------|-----------------|-----------|-----------------|-------|----------|---|------|
| Time of mixer = | 9.00 | bags/cu.m. | X | 3.50 | cu.m./day | X | 10 | min./bag | = | 5.25 |
| | | | | 60 | min./hr. | | | | | |
| 1.00 | Foreman | @ | 750.00 | / day | = | 750.00 | / day | | | |
| 2.00 | Mason | @ | 650.00 | / day | = | 1,300.00 | / day | | | |
| 8.00 | Laborers | @ | 429.00 | / day | = | 3,432.00 | / day | | | |
| 1.00 | L.E Operator | @ | 429.00 | / day | = | 429.00 | | | | |
| | | | | | | <u>5,911.00</u> | | | | |
| Labor Cost/cu.m | = | <u>5,911.00</u> | = | <u>1,688.86</u> | / cu.m. | | | | | |
| | | 3.50 | | | | | | | | |

C. EQUIPMENT COST

One bager Mixer 1 x 300.00 /day = 300.00

SUMMARY:

A. MATERIAL COST = 10,188.30

B. LABOR COST:

1. Cut, Bend and Place of RSB = 754.00

2. Fabrication Placing and Dismantling of forms = 908.57

3. Concreting and Curing w/ concrete mixer = 1,688.86

3,351.43

C. EQUIPMENT COST

1. Equipment Cost = 300.00

ESTIMATED DIRECT COST (EDC) = 13,839.73

Plus 30% I.C. 4,151.92

TOTAL 17,991.65

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R2A CONSTRUCTION AND TRADING

PROJECT: Construction of Canal Lining (Sta. 1+503.80-1+672.00 MC)
LOCATION: Dasmariñas, Cavite

CLASS "A" CONCRETE (FLOORING)

A. MATERIAL COST:

| | | | | | | |
|----------------------------|-------|-------|---|----------|---|--------------------------------|
| Cement | 9.00 | bags | @ | 230.00 | = | 2,070.00 |
| Gravel | 0.90 | cum | @ | 1,900.00 | = | 1,710.00 |
| Sand | 0.45 | cum | @ | 1,250.00 | = | 562.50 |
| RSB | 40.00 | kgs. | @ | 75.00 | = | 3,000.00 |
| Tie wire | 0.48 | kgs. | @ | 85.00 | = | 40.80 |
| F. Lumber | 5.00 | b. f. | @ | 75.00 | = | 375.00 |
| Cwnail | 0.25 | kgs. | @ | 90.00 | = | 22.50 |
| Plywood | 0 | pcs. | @ | 600.00 | = | - |
| TOTAL MATERIAL COST | | | | | | <u>7,780.80</u> / cu.m. |

B. LABOR COST:

1. Cut, Bend and Place of RSB

| | | | | | | | |
|------------------|-----------------|---------|----------------|---------|---|----------------------|------------|
| 1.00 | Steelman | @ | 650.00 | / day | = | 650.00 | / day |
| 1.00 | Bar Cutter | @ | 429.00 | / day | = | 429.00 | |
| 1.00 | Laborer | @ | 429.00 | / day | = | <u>429.00</u> | / day |
| | | | | | | 1508.00 | / day |
| Capability = | 10.00 | kgs/hr. | x | 8.00 | = | 80.00 | kgs. / day |
| | Labor Cost | = | <u>1508.00</u> | / day | = | 18.85000 | / kg. |
| | | | 80 | kgs/day | | | |
| LaborCost/cu.m = | 18.85000 | x | 40.00 | | = | <u>754.00</u> | / cu.m. |

2. Fabrication, Placing and Dismantling of Forms Capability

| | | | | | | | |
|-----------------|----------------|---|-----------------|-------|---|----------------------|---------|
| 2.00 | Carpenters | @ | 650.00 | / day | = | 1,300.00 | / day |
| 4.00 | Laborers | @ | 429.00 | / day | = | <u>1,716.00</u> | / day |
| | | | | | | 3,016.00 | |
| Capability: | 3.50/ cum /day | | | | | | |
| Labor Cost/cu.m | = | | <u>3,016.00</u> | | = | <u>861.71</u> | / cu.m. |
| | | | 3.50 | | | | |

3. Concreting and Curing

a. With concrete mixer - bagger

| | | | | | | | |
|-----------------|--------------|-------------|-----------------|----------|-----------|------------------------|-----------------|
| | | Capability: | 3.50 | cu.m/day | | | |
| Time of mixer = | 9.00 | bags/cu.m. | X | 3.50 | cu.m./day | X | 10 |
| | | | | 60 | min./hr. | | |
| | | | | | | | min./bag = 5.25 |
| 1.00 | Foreman | @ | 750.00 | / day | = | 750.00 | / day |
| 2.00 | Mason | @ | 650.00 | / day | = | 1,300.00 | / day |
| 8.00 | Laborers | @ | 429.00 | / day | = | 3,432.00 | / day |
| 1.00 | L.E Operator | @ | 429.00 | / day | = | <u>429.00</u> | |
| | | | | | | 5,911.00 | |
| Labor Cost/cu.m | = | | <u>5,911.00</u> | | = | <u>1,688.86</u> | / cu.m. |
| | | | 3.50 | | | | |

C. EQUIPMENT COST

| | | | | | | |
|-------------------------|---|---|--------|------|---|---------------|
| One bagger Mixer | 1 | x | 300.00 | /day | = | 300.00 |
|-------------------------|---|---|--------|------|---|---------------|

SUMMARY:

| | | |
|---|---|-----------------|
| A. MATERIAL COST | = | 7,780.80 |
| B. LABOR COST: | | |
| 1. Cut, Bend and Place of RSB | = | 754.00 |
| 2. Fabrication Placing and Dismantling of forms | = | 861.71 |
| 3. Concreting and Curing w/ concrete mixer | = | <u>1,688.86</u> |
| | | 3,304.57 |
| C. EQUIPMENT COST | | |
| 1. Equipment Cost | = | 300.00 |

ESTIMATED DIRECT COST (EDC)

| | | |
|--------------|---|-------------------------|
| | = | 11,385.37 |
| Plus | | |
| 30% I.C. | = | 3,415.61 |
| TOTAL | | <u>14,800.99</u> |

