DETAILED COST ESTIMATE (ECONOMIC), SABO WORK, NASISI RIVER TABLE-I.22

| | + 4 | | Foreign Currency | Currency | Local | Local Currency | |
|--------------------------------------|--------------|----------------|------------------|---------------------------------------|-------------------|----------------|----------------|
| | | ro to the road | Unit Price | Amount | Unit Price | Amount | - Kenerks |
| Cobble stone | ต. นว | 1.150 | 0.77 | 068 | 61.61 | 70.850 | |
| Tries Toolers a morton | £ | ξ | פר מאני | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | () () () | | |
| | i . | 3 | 245.15 | 24,510 | 255.45 | 25,550 | |
| (ii) No.2 Consolidation Dam ((=230m) | | | | | | | F/C: 2,558,970 |
| Consolidation Dam (230m) | | | | | | | L/c: 3,204,020 |
| Excavation | m.uo | 13,030 | 14.60 | 190,240 | 4.62 | 60,200 | |
| Backfill | m.uo | 1,500 | 13.88 | 20,820 | 9.20 | 13,800 | |
| Concrete, type A | u-no | 3,570 | 172.38 | 615,400 | 186,31 | 655,130 | |
| Rubble concrete | cu.m | 10,430 | 138.69 | 1,446,540 | 149.35 | 1,557,720 | |
| Backfill concrete, type B | cu.m | 880 | 144.00 | 126,720 | 175,55 | 154,480 | |
| Formwork | a. ps | 6,320 | | | 86.22 | 544,910 | |
| Joint filler | E S | 310 | 54.60 | 16,930 | 3.70 | 1,150 | |
| Spur Dike (160m) | | | | | | | |
| Excavation, in common | cu.m | 2,870 | 14.60 | 41,900 | 4.62 | 13,260 | |
| Embankment | m. no | 1,380 | 16.01 | 22,090 | 80.9 | 8,390 | |
| Riprap bedding | 日 * n o | 380 | 17.07 | 6,490 | 24.90 | 9,460 | |
| Backfill | m.uo | 1,360 | 13.88 | 18,880 | 9.20 | 12,510 | |
| Concrete, type B | cu.m | 430 | 113.00 | 48,590 | 171.35 | 73,680 | |
| Pormwork | m•ps | 2,450 | | | 40.42 | 99,030 | |
| Joint filler | m.ps | 80 | 54.60 | 4,370 | 3.70 | 300 | |
| No.1-No.3 Ground Sill ({=690m) | ; | | | | | | F/C: 2.877.250 |
| Ground Sill (690m) | | | | | | | L/C: 4.254.180 |

| | Kemarks | | | | | | | | | | | | | | | | | | | | | | where the constant and the same that the same $\delta \phi$ | |
|------------------|-------------|----|-----------------------|----------|------------------|----------|--------------|----------------------|-----------------------|------------|----------------|----------|------------------|----------|--------------|---|------------------|----------------------|--------------|----------------------|-------------------------------|------------------|---|--|
| Local Currency | Amount | | 196,530 | 63,480 | 1,364,070 | 241,310 | 1,440 | | 39,780 | 25,170 | 28,390 | 37,540 | 221,040 | 297,090 | 1,330 | | 193,110 | 267,640 | 188;530 | 68,970 | | 586,020 | 421,980 | |
| Local | Unit Price | | 4.62 | 9.20 | 179.72 | 40.42 | 3.70 | | 4.62 | 80.9 | 24.90 | 9.20 | 171.35 | 40.42 | 3.70 | | 175.55 | 48.75 | 61.61 | 255.45 | | 171.35 | 40.42 | |
| Foreign Currency | Amount | | 621,080 | 95,770 | 963,020 | | 21,290 | | 125,710 | 66,280 | 19,460 | 56,630 | 145,770 | * . : | 19,660 | | 158,400 | 109,140 | 2,360 | 66,190 | | 386,460 | | |
| Foreign | Unit Price | | 14.60 | 13.88 | 126.88 | | 54.60 | | 14.60 | 16.01 | 17.07 | 13.88 | 113.00 | | 54.60 | | 144.00 | 19.88 | 0.77 | 245.13 | | 113.00 | | |
| 4 4 4 4 4 4 4 | guanti ty | 1. | 42,540 | 6,900 | 7,590 | 5,970 | 390 | | 8,610 | 4,140 | 1,140 | 4,080 | 1,290 | 7,350 | 360 | | 1,100 | 5,490 | 3,060 | 270 | | 3,420 | 10,440 | |
| 1 1 1 | ם דוווי | | ca.m | m.uo | m.uo | m 5c | ន ្ន | | cu.m | E no | m.uo | en-no | m•no | w•bs | m. ps | | m.uo | m•ps | m. no | m.bo | | cu.m | m. os | |
| | nescriberon | | Excavation, in common | Backfill | Concrete, type A | Pormvork | Joint filler | (b) Spur Dike (960m) | Excavation, in common | Embankment | Riprap bedding | Backfill | Concrete, type B | Formwork | Joint filler | (c) Wet masonry (5,490 m ²) | Concrete, type B | Rubble stone masonry | Cobble stone | Inter locking mortar | (d) Concrete Block (600 nos.) | Concrete, type B | Pormwork | |

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| Description | it Quantity | Foreign Unit Price | Currency | Local Currency Unit Price Amount |
|---|-------------|-----------------------|--|----------------------------------|
| Reinforcing bar, \$16 mm kg | 7,980 | 2.51 | 20,030 | |
| Sub total (1) | | | 8,136,760 | 10,966,730 |
| (2) General (10% of (1)) | | | 813,680 | 1,096,670 |
| (3) Supervision and Miscellaneous (6% of (1) to (2)) | | | 537,030 | 723,800 |
| (4) Profit (10% of (1) to (3)) | | | 1 | |
| (5) Contractor's Tax (3% of (1) to (4)) | | | 1 | |
| Sub total (Contract Cost) | | | 9,487,470 | 12,787,200 F22,274,670 |
| Right of Way/Site Acquisition | | | | |
| Engineering Cost (10% of Item 1) | | | ************************************** | 2,227,470 |
| Project Management Cost (5% of Item 1) | | | *** | 1,113,730 |
| Contingency | | | | |
| Physical Contingency (15% of Item 1) Price, Escalation | | | 1,423,120 | 1,918,080 |
| Total Estimated Project Cost | | | 10,910,590 | 18,046,480 P28,957,070 |
| | | | ·. | |

RABLE-I.23 DETAILED COST ESTIMATE (ECONOMIC), SABO WORK, ANULING RIVER

| (Unit: Pesos) | c c | Wemarks | | F/C: 1.139.810 | L/C: 1,403,300 | | | | | | | | | 1/C: 337,400 | | | | | | | | | Property of the Control of the Contr | | |
|---|-------------|---------------|------------------|-----------------|---------------------------------------|-----------------------|----------|------------------|-----------------|---------------------------|---|--------------|----------------------------------|--------------|-----------------------|-----------------------|----------|------------------|----------|--------------|------------------------------|------------------|--|-----------------|--|
| NAME OF THE PARTY | Currency | Amount | | | | 42,130 | 3,680 | 117,380 | 857,270 | 103,570 | 278,490 | 780 | | | | 22,780 | 7,360 | 158,150 | 27,890 | 190 | | 78,820 | 40,820 | 1,430 | |
| | Local | Unit Price | | | | 4.62 | 9.20 | 186,31 | 149.35 | 175.55 | 86.22 | 3.70 | | | | 4.62 | 9.20 | 179.72 | 40.42 | 3.70 | | 171.35 | 40.42 | 1.35 | |
| .* | Currency | Amount | | | : : : : | 133,150 | 5,550 | 108,600 | 796,080 | 84,960 | | 11,470 | | | . : | 71,980 | 11,100 | 111,650 | | 2,730 | | 51,980 | | 2,660 | |
| | Foreign (| Unit Price | | | | 14.60 | 13.88 | 172.38 | 138.69 | 144.00 | ing Visite in the second secon | 54.60 | | | | 14.60 | 13.88 | 126.88 | | 54.60 | | 113,00 | | 2.51 | |
| | Onentity | C = 2 = 2 = 2 | | | | 9,120 | 400 | 630 | 5,740 | 290 | 3,230 | 210 | | | | 4,930 | 800 | 880 | 069 | 50 | | 460 | 1,010 | 1,060 | |
| | Unit | | | | g (1) | en.m | Cu. H | cn•m | m.mo | cu.m | m-ps | m.ps | | | | m no | m.uo | m.uo | m.ps | e.ps | | m.u | S.Q. | kg | |
| | Description | | 1. Contract Cost | (1) Direct Cost | (i) No.1 Sabo Dam (/=60m), Anuling (1 | Excavation, in common | Backfill | Concrete, type A | Rubble concrete | Backfill concrete, type B | Pormwork | Joint filler | (ii) No.1 Ground Sill (A) (80m), | | (a) Ground Sill (80m) | Excavation, in common | Backfill | Concrete, type A | Formwork | Joint Filler | (b) Concrete Block (80 nos.) | Concrete, type B | Formwork | Reinforcing bar | |

| Description | Unit | Quantity | roreign direct | carrency | Local Currency | Jurency | Remarks |
|---------------------------------------|-----------|----------|--|---------------------------------------|----------------|------------|--------------|
| | | | Unit Frice | Amount | Unit Price | Amount | |
| (iii) No.2 Ground Sill ((=130m) | | | | | | | |
| (a) Ground Sill (130 m) | | | | | | | 1/C: 780,540 |
| Excavation, in common | m•no | 8,010 | 14.60 | 116,950 | 4.62 | 37,010 | |
| Backfill | m.uɔ | 1,300 | 13.88 | 18,040 | 9,20 | 11,960 | |
| Concrete, type A | m.uo | 1,430 | 126.88 | 181,440 | 179.72 | 257,000 | |
| Formwork | so.m | 1,120 | Test Test Test Test Test Test Test Test | | 40.42 | 45,270 | |
| Joint filler | m ps | 20 | 54.60 | 3,820 | 3.70 | 260 | |
| (b) Spur Dike (170 m) | | | | | | | |
| Excavation, in common | m.uo | 1,520 | 14.60 | 22,190 | 4.62 | 7,020 | |
| Embankment | m.uo | 730 | 16.01 | 11,690 | 80*9 | 4,440 | |
| Riprap bedding | g. n. | 200 | 17.07 | 3,410 | 24.90 | 4,980 | |
| Backfill | ш•nэ | 720 | 13.88 | 066,6 | 9.20 | 6,620 | |
| Concrete, type B | m-no | 230 | 113.00 | 25,990 | 171.35 | 39,410 | |
| Formwork | SQ.m | 1,300 | | | 40.42 | 52,550 | |
| Joint filler | ន្ន - មួន | 9 | 54.60 | 3,280 | 3,70 | 220 | |
| (c) Wet masonry (970 m ²) | • | | | | | | |
| Concrete, type B | m.uo | 190 | 144.00 | 27,360 | 175.55 | 33,350 | |
| Rubble stone masonry | m.uo | 970 | 19.88 | 19,280 | 48.75 | 47,290 | |
| Cobble stone | m. no | 540 | 0.77 | 420 | 61.61 | 33,270 | |
| Inter locking mortar | m.no | 20 | 245,13 | 12,260 | 255.45 | 12,770 | |
| (d) Concrete Block (110 nos.) | | : | | · · · · · · · · · · · · · · · · · · · | | A Vagorian | |
| Concrete, type B | พากอ | 630 | 113.00 | 71,190 | 171.35 | 107,950 | |
| | | | | | | | |

| | 4 % -24 | | Foreign Currency | Jurrency | Local C | Local Currency | |
|--|---------|----------|------------------|------------|------------|----------------|----------------|
| Lescription | Unit | Quantity | Unit Price | Amount | Unit Price | Amount | Kemarks |
| | | | | | | | |
| Formwork | SQ. III | 1,910 | | * . • . | 40.42 | 77,200 | |
| Reinforcing bar \$16 mm | 80 X | 1,460 | 2,51 | 3,660 | 1.35 | 1,970 | |
| (iv) No.1 Training Levee (600 m), | | | | | | | |
| | | | | | | | r/c: 1,556,080 |
| (4) Levee (600 m) | | | | | | | |
| Excavation, in common | cn m | 4,500 | 14.60 | 65,700 | 4.62 | 20,790 | |
| Embankment | ca•m | 3,600 | 16.01 | 57,640 | 80.9 | 21,890 | |
| Ripray bedding | m.uo | 006 | 17.07 | 15,360 | 24.90 | 22,410 | |
| Backfill | cu on | 3,570 | 13.88 | 49,550 | 9.20 | 32,840 | |
| Concrete, type B | m.uo | 1,140 | 113.00 | 128,820 | 171.35 | 195,340 | |
| Formwork | m. ps | 6,420 | | | 40.42 | 259,500 | |
| Joint filler | n os | 210 | 54.60 | 11,470 | 3.70 | 780 | |
| (b) Wet masonry (4800 m ²) | | | | | | | |
| Backfill concrete, type B | u.us | 096 | 144.00 | 138,240 | 175.55 | 168,530 | |
| Rubble stone masonry | ¤•₽s | 4,800 | 19.88 | 95,420 | 48.75 | 234,000 | |
| Cobble stone | co m | 2,690 | 0.77 | 2,070 | 61.61 | 165,730 | |
| Inter locking mortar | m.u. | 240 | 245.13 | 58,830 | 255.45 | 61,310 | |
| (c) Concrete Block (220 nos.) | | | | | | | |
| Concrete, type B | m no | 1,250 | 113.00 | 141,250 | 171.35 | 214,190 | |
| Pormvork | m•ps | 3,830 | | | 40.42 | 154,810 | |
| Reinforcing bar, 616-mm | kg | 2,930 | 2.51 | 7,350 | 1.35 | 3,960 | |
| | | | | | | | |

| 1 | | 7 - 744 | +:+: | Foreign (| Currency | Local C | Local Currency | Domondo |
|------------|---|-------------|----------|------------|----------|------------|----------------|-------------|
| | Description | בתח | Vuantiny | Unit Price | Amount | Unit Price | Amount | ACHIGAL NO. |
| | | | | | | | | |
| * 4 | Excavation, in common | en-m | 8,620 | 14.60 | 125,850 | 4.62 | 39,820 | |
| | Embankment | m.us | 4,130 | 16.01 | 66,120 | 80.9 | 25,110 | |
| | Riprap bedding | m.uo | 1,130 | 17.07 | 19,290 | 24.90 | 28,140 | |
| | Backfill | m•no | 4,080 | 13.88 | 56,630 | 9.20 | 37,540 | |
| | Concrete, type B | en.mo | 1,300 | 113.00 | 146,900 | 171.35 | 222,760 | |
| | Formwork | ដ្ឋ•្ | 7,340 | | | 40.42 | 296,680 | |
| | Joint filler | sq.∙m | 240 | 54.60 | 13,100 | 3.70 | 068 | |
| <u>(a)</u> | (b) Wet masonry (5,500 m ²) | | | | | | | |
| | Backfill concrete, type B | u no | 1,100 | 144.00 | 158,400 | 175.55 | 193,110 | |
| | Rubble stone masonry | នច្ចកា | 5,500 | 19,88 | 109,340 | 48.75 | 268,130 | |
| | Cobble stone | en.uo | 3,080 | 77.0 | 2,370 | 61.61 | 189,760 | |
| | Inter locking mortar | m.uo | 280 | 245.13 | 68,640 | 255.45 | 71,530 | |
| (0) | (c) Ground Sill (240 m) | | | | | | | |
| | Excavation, in common | cu.m | 1,760 | 14.60 | 25,700 | 4.62 | 8,130 | |
| | Backfill | eu.no | 909 | 13.88 | 8,330 | 9.20 | 5,520 | |
| | Concrete, type A | en. | 096 | 126,88 | 121,800 | 179.72 | 172,530 | |
| ٠ | Formwork | ag. ps | 096 | | | 40.42 | 38,800 | |
| | Joint filler | н • р. В | 48 | 54.60 | 2,620 | 3.70 | 180 | |
| (P) | Concrete Block (160 nos.) | | | | | | | |
| | Concrete, type B | cu.no | 910 | 113.00 | 102,830 | 171.35 | 155,930 | |
| | Formwork | នច្ច. ព | 2,780 | | | 40.42 | 112,370 | |
| | Reinforcing bar, & 16mm | kg | 2,130 | 2.51 | 5,350 | 1.35 | 2,880 | |
| | | | | | | | | |

| | | | | • | | | | |
|--------|--|--------|----------|-------------------|--------|------------|-----------------------------|--------------|
| | Description | Unit | Quantity | Unit Price Amount | Amount | Unit Price | Local Currency Price Amount | - Remarks |
| | | | | | | | | |
| (*) | No. 4 Smm Dike (170 m). | | | | | | | |
| (++) | Anuling (1) | | | | | | | L/C: 589,340 |
| (g) | Spur Dike (170 m) | | | • | | | | |
| | Excavation, in common | m.uo | 3,340 | 14.60 | 48,760 | 4.62 | 15,430 | |
| • | Embankment | m•no | 1,460 | 16.01 | 23,370 | 6.08 | 8,880 | |
| 2.1 | Riprap bedding | ш-n | 400 | 17.07 | 6,830 | 24.90 | 096,6 | |
| | Backfill | u-no | 1,440 | 13.88 | 19,990 | 9.20 | 13,250 | |
| | Concrete, type B | m.us | 460 | 113.00 | 51,980 | 171.35 | 78,820 | |
| | Formwork | w•bs | 2,600 | | | 40.42 | 105,090 | |
| | Joint filler | SQ. R | 85 | 54.60 | 4,640 | 3.70 | 310 | |
| (9) | (b) Wet masonry (1950 m ²) | | : | | | | | |
| | Backfill concrete, type B | m.mo | 390 | 144.00 | 56,160 | 175,55 | 68,460 | |
| | Rubble stone masonry | m• ្ព្ | 1,950 | 19.88 | 38,770 | 48.75 | 95,060 | |
| · . | Cobble stone | m• no | 1,090 | 0.77 | 840 | 61.61 | 67,150 | |
| | Inter locking mortar | m no | 100 | 245.13 | 24,510 | 255,45 | 25,550 | |
| (၁) | Concrete Block (60 nos.) | | .* | | | | | |
| | Concrete, type B | m.uo | 340 | 113.00 | 38,420 | 171.35 | 58,260 | |
| | Formvork | ad. | 1,040 | | | 40.42 | 42,040 | |
| | Reinforcing bar, \$16mm | .gy | 008 | 2.51 | 2,010 | 1.35 | 1,080 | |
| (viii) | (viii) No.5 Spur Dike (170m), | | | | | | | F/C: 316,280 |
| | Anuling (1) | | | | | : . | | |
| (a) | (a) Spur Dike (170 m) | | | | | | | |
| | | | | | | | | |

| | | T 27 T d de | 7 | Foreign Currency | urrency | Local C | Local Currency | Demonte | |
|------|---------------------------------------|---------------|----------|--|--|------------|----------------|--|----|
| | Description | 6 4 4 | Zuantzay | Unit Price | Amount | Unit Price | Amount | TA TRAITIES | |
| | | | | | 1 | | , | | |
| | Excavation, in common | eu.uo | 3,340 | 14.60 | 48,760 | 4.62 | 15,430 | | |
| | Embankment | m.uo | 1,460 | 16.01 | 23,370 | 80.9 | 8,880 | | |
| | Riprap bedding | eu.no | 400 | 17.07 | 6,830 | 24.90 | 096.6 | | |
| | Backfill | u°no | 1,440 | 13.88 | 19,990 | 9.20 | 13,250 | | |
| | Concrete, type B | m.no | 460 | 113.00 | 51,980 | 171.35 | 78,820 | | |
| | Pormwork | 89. m | 2,600 | | • | 40.42 | 105,090 | | - |
| | Joint filler | E . Q. | 85 | 54.60 | 4,640 | 3.70 | 310 | | |
| (৭) |) Wet masonry (1,950 m ²) | | | | | | | | |
| | Backfill concrete, type B | m no | 390 | 144.00 | 56,160 | 175.55 | 68,460 | | |
| | Rubble stone masonry | នច្ច | 1,950 | 19.88 | 38,770 | 48.75 | 95,060 | | |
| | Cobble stone | m no | 1,090 | 77.0 | 840 | 61.61 | 67,150 | | |
| • . | Inter locking | ca.m | 100 | 245.13 | 24,510 | 255.45 | 25,550 | | |
| (°) | Concrete Block (60 nos.) | | | | Turk, | | | | |
| | Concrete, type B | u-no | 340 | 113.00 | 38,420 | 171.35 | 58,260 | | |
| | Formwork | # - 68 | 1,040 | | | 40.42 | 42,040 | | |
| | Reinforcing bar, \$16 mm | k8 | 800 | 2.51 | 2,010 | 1.35 | 1,080 | | |
| (ix) | No.1 Sabo Dam (70m). Anuling (2) | | | | | | | F/C: 1,327,120 L/C: 1,634,410 | 00 |
| | Excavation, in common | m.uo | 10,630 | 14.60 | 155,200 | 4.62 | 49,110 | | |
| | Backfill | m.uo | 460 | 13.88 | 6,380 | 9.20 | 4,230 | | |
| | Concrete, type A | cu.m | 730 | 172.38 | 125,840 | 186,31 | 136,010 | | |
| | Rubble concrete | m.uo | 6,700 | 138.69 | 929,220 | 149.35 | 1,000,650 | The state of the s | |
| | | | | The second secon | and the second of the second o | | | | 1 |

| | Describation | Dest | Onantity | roreign. | Foreign Currency | Local | Local Currency | and high a Commission to the contract of the contract of |
|--------------|-----------------------------------|---------------|----------|------------|------------------|------------|----------------|--|
| | | | 7 | Unit Price | Amount | Unit Price | Amount | Aemerks |
| | Backfill concrete, type B | ca.m | 680 | 144.00 | 97,920 | 175.55 | 119,370 | |
| | Formwork | B. P. | 3,760 | | | 86.22 | 324,190 | |
| | Joint filler | 84.p8 | 230 | 54.60 | 12,560 | 3.70 | 850 | |
| 3 | No.1 & No.2 Spur Dike (540 m) | | | | | | | F/C; 981.00 |
| (a): | Spur Dike (540 m) | | | | | | | L/C: 1,846,750 |
| riger Pos | Excavation, in common | m-no | 9,700 | 14.60 | 141,620 | 4.62 | 44,810 | |
| | Embankment | m.no | 4,640 | 16.01 | 74,290 | 80.9 | 28,210 | |
| | Riprap bedding | m. no | 1,260 | 17.07 | 21,510 | 24.90 | 31,370 | |
| · | Backfill | ш• no | 4,600 | 13.88 | 63,850 | 9.20 | 42,320 | |
| | Concrete, type B | ш • по | 1,460 | 113.00 | 164,980 | 171.35 | 250,170 | |
| | Formwork | m*ps | 8,260 | | | 40,42 | 333,870 | |
| | Joint filler | a. ₽. | 270 | 54.60 | 14,740 | 3.70 | 1,000 | |
| (9) | Wet masonry $(6,180 \text{ m}^2)$ | | | | | | | |
| | Backfill concrete, type B | m-no | 1,240 | 144.00 | 178,560 | 175.55 | 217,680 | |
| | Rubble stone masonry | sq.m | 6,180 | 19.88 | 122,860 | 48.75 | 301,280 | |
| | Cobble stone | E a | 3,460 | 0.77 | 2,660 | 61.61 | 213,170 | |
| | Inter locking mortar | en-m | 300 | 245.13 | 73,540 | 255.45 | 76,640 | |
| (0) | Concrete Block (180 nos.) | | | | | | | |
| : | Concrete, type B | m-no | 1,030 | 113.00 | 116,390 | 171,35 | 176,490 | |
| | Formwork | m. os | 3,130 | | | 40,42 | 126,510 | |
| : | Reinforcing bar, ø16 mm | 88 | 2,390 | 2.51 | 6,000 | 1.35 | 3,230 | |
| | Sub total (1) | | | | 7,615,990 | | 12,390,680 | |

| Remarks | | | | | P23,327,790 | | | | | | | P30,326,130 |
|------------------------------------|---------------------------|---|---------------------------------|--|---------------------------|--------------------------------------|--|---|----------------|--|----------------------|------------------------------|
| Local Currency Price Amount | 1,239,070 | 817,790 | 1 | • | 14,447,540 | | 2,332,780 | 1,166,390 | | 2,167,130 | | 20,113,840 |
| Local (Unit Price | | | | | .,, | | | | | | | |
| Foreign Currency t Price Amount | 761,600 | 502,660 | | | 8,880,250 | .1 | 1 1 1 | • | | 1,332,040 | | 10,212,290 |
| Foreign Unit Price | | | | | | | | | | | | |
| Quantity | | | | | | | A STATE OF THE STA | | | | | |
| Description | (2) General (10% of (1)) | (3) Supervision and Miscellaneous (6% of (1) to (2)) | (4) Profit (10% of (1) to (3)) | (5) Contractor's Tax (3% of (1) to (4)) | Sub total (Contract Cost) | 2. Right of Way/Site Acquisition ha. | 3. Engineering Cost (10% of Item 1) | 4. Project Management Cost (5% of Item 1) | 5. Contingency | (1) Physical Contingency (15% of Item 1) | (2) Price Escalation | Total Estimated Project Cost |

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| | DETAILED COST ESTIMATE (ECONOMIC) |
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|--|--------------|----------|-----------------------|------------------------------------|---------------------|---|--|
| Description | Unit | Quantity | Foreign Unit Price | Foreign Currency t Price Amount | Local Unit Price | Local Currency Price Amount | Remarks |
| | | | | | | A Comments of the Comments of | The second secon |
| 1. Contract Cost | | | | | | | |
| | | | | | | | |
| (1) Direct Cost | | | | | | | |
| (1) No.1 Sabo Dam (90 m) | | | | | | | F/c: 1,708,050 |
| Excavation, in common | m.uo | 13,670 | 14.60 | 199,580 | 4.62 | 63,160 | 1/0: 2,103,010 |
| S. Sackfill | en-mo | 909 | 13.88 | 8,330 | 9.20 | 5,520 | |
| Concrete, type A | u-no | 950 | 172.38 | 163,760 | 186.31 | 176,990 | |
| Rubble concrete | en•m | 8,600 | 138.69 | 1,192,730 | 149.35 | 1,284,410 | |
| Backfill concrete, type B | cu.m | 880 | 144.00 | 126,720 | 175.55 | 154,480 | |
| Formwork | E oc | 4,840 | | | 86.22 | 417,300 | |
| Joint filler of the state of th | m.ps | 310 | 54.60 | 16,930 | 3.70 | 1,150 | |
| (ii) No.1 Training Levee (400 m) | | • | | | | | |
| (a) Levee (400 m) | | - | | | | | L/C: 788,540 |
| Excavation | m°no | 3,000 | 14.60 | 43,800 | 4.62 | 13,860 | |
| Embankment | u•no | 2,400 | 16.01 | 38,420 | 80-9 | 14,590 | |
| Riprap bedding | u°no | 009 | 17.07 | 10,240 | 24.90 | 14,940 | |
| Backfill | m.uo | 2,380 | 13.88 | 33,030 | 9.20 | 21,900 | |
| Concrete, type B | m.uo | 760 | 113.00 | 85,880 | 171.35 | 130,230 | |
| Formyork | sq.m | 4,280 | | | 40.42 | 173,000 | Section 1997 - Section of the sectio |
| Joint filler | sq.m | 140 | 54.60 | 7,640 | 3.70 | 520 | |
| (b) Wet masonry (3200 m ²) | | | | | | | |
| Backfill concrete, type B | พ• พอ | 640 | 114.00 | 72.960 | 175.55 | 112,350 | |

| | 1 | + 1 0 0 | Foreign Currency | urrency | Local C | Local Currency | |
|--|--------------|---------|--|---------|------------|----------------|--|
| TO TO THE SOUTH DO T | 3 1 00 | Kanan A | Unit Price | Amount | Unit Price | Amount | remarks |
| | | | | | | | |
| Rubble stone masonry | អ កូស | 3,200 | 19.88 | 63,620 | 48.75 | 156,000 | |
| Cobble stone | u no | 1,790 | 0.77 | 1,380 | 61.61 | 110,280 | |
| Inter locking mortar | m.uo | 160 | 245.13 | 39,220 | 255.45 | 40,870 | |
| (iii) No.1 Smir Dike (270 m) | | | | | | | |
| | | | | | | | L/C: 924,480 |
| Excavation, in common | я°no | 4,850 | 14.60 | 70,810 | 4.62 | 22,410 | |
| Embankment | u•no | 2,320 | 16.01 | 37,140 | 80*9 | 14,110 | |
| Riprap | m-no | 630 | 17.07 | 10,750 | 24.90 | 15,690 | |
| Backfill | m.no | 2,300 | 13.88 | 31,920 | 9.20 | 21,160 | |
| Concrete, type B | m.uo | 730 | 113.00 | 82,490 | 171.35 | 125,090 | |
| Formwork | SQ.m | 4,130 | | | 40.42 | 166,930 | |
| Joint filler | a. ps | 140 | 54.60 | 7,640 | 3.70 | 520 | |
| (b) Wet masonry (3,090 m ²) | | | | | | | |
| Backfill concrete, type B | m•no | 620 | 144.00 | 89,280 | 175.55 | 108,840 | |
| Rubble stone | 8 ° 0's | 3,090 | 19.88 | 61,430 | 48.75 | 150,640 | |
| Cobble stone | m*no | 1,730 | 77.0 | 1,330 | 61.61 | 106,590 | |
| Inter locking mortar | u*no | 150 | 245.13 | 36,770 | 255.45 | 38,320 | |
| (c) Concrete Block (90 nos.) | | | | | | | |
| Concrete, type B | m·no | 520 | 113.00 | 58,760 | 171.35 | 89,100 | |
| Pormwork | ដ•់្ខ | 1,570 | The second secon | | 40.42 | 63,460 | e de la companya de l |
| Reinforcing ber . 016 mm | χc | 1.200 | 2.51 | 3.010 | 1,35 | 1.620 | |

| | 19001111100 | Traft. | O. t. t. t. t. a. t. C. | Foreign Currency | urrency | Local C | Local Currency | |
|----------|-------------------------------------|--|-------------------------|------------------|---------|----------------|--|---------------|
| | | | | Unit Price | Amount | Unit Price | Amount | A Mender K.S. |
| | | | | | | | | 34 |
| (AT) | No.2 Spur Dike (270 m) | | | | | | | F/C: 463,360 |
| (a) Sp | Spur Dike (270 m) | | | | | | | ± . |
| ä | Excavation, in common | ພະກວ | 4,850 | 14,60 | 70,810 | 4.62 | 22,410 | |
| B | Smbankment | m.us | 2,320 | 16.01 | 37,140 | 80*9 | 14,110 | |
| K | Riprap bedding | cu.m | 630 | 17.07 | 10,750 | 24.90 | 15,690 | |
| B | Beckfill | cu.m | 230 | 13.88 | 3,190 | 9.20 | 2,120 | |
| ဒိ | Concrete, type B | m.us | 730 | 113.00 | 82,490 | 171.35 | 125,090 | |
| 윤 | Formwork | S. D. | 4,130 | | | 40.42 | 166,930 | |
| Jo | Joint filler | E | 135 | 54.60 | 7,370 | 3.70 | 8 | |
| (p) We | Wet masonry (3,090 m ²) | | | | | | | |
| ស្តី | Backfill concrete, type B | m.uo | 6.18 | 144.00 | 88,990 | 175.55 | 108,490 | |
| rg. | Rubble stone masonry | m. px | 3,090 | 19.88 | 61,430 | 48.75 | 150,640 | |
| ပိ | Cobble stone | m°no | 1,730 | 0.77 | 1,330 | 61.61 | 106,590 | |
| H | Inter locking mortar | m.uo | 160 | 245.13 | 39,220 | 255.45 | 40,870 | |
| ် (၁) | Concrete Block (90 nos.) | | | | | | | |
| පි වි | Concrete, type B | m.no | 510 | 113.00 | 57,630 | 171.35 | 87,390 | |
| o A | Pormwork | E OS | 1.570 | | | 40.42 | 63 460 | |
| o Oc | Reinforcing bar, 616 mm | ko k | 1,200 | 2.51 | 3.010 |) (- - - | 009 (| |
| (v) | No.3 Spur Dike (400 m) | 0 | | | | | 1 | |
| (a) Sp | Spur Dike | A CANADA A C | | | | | And the second and th | 1,520,120 |
| | | | | | | | | |

| and the state of t | +441 | *************************************** | Foreign Currency | urrency | Local | Local Currency | |
|--|---------|---|------------------|---------|------------|----------------|--|
| 101001 1010001 101001 101001 101001 101001 101001 101001 101001 101001 1010001 101001 101001 101001 101001 101001 101001 101001 101001 1010001 101001 101001 101001 101001 101001 101001 101001 101001 1010001 101001 101001 101001 101001 101001 101001 101001 101001 1010001 101001 101001 101001 101001 101001 101001 101001 101001 1010001 101001 101001 101001 101001 101001 101001 101001 101001 1010001 101001 101001 101001 101001 101001 101001 101001 101001 1010001 1010001 1010001 1010001 1010001 1010000 1010000 1010000 10100000 1010000 1010000 1010000 1010000 1010000 1010000 1010000 10100000 1010000 1010000 1010000 1010000 10100000 10100000 101000000 | 0 1110 | Ko to manx | Unit Price | Amount | Unit Price | Amount | Kemarks |
| Excavation, in common | w°nɔ | 7,180 | 14.60 | 104,830 | 4.62 | 33,170 | |
| Embankment | w•mɔ | 3,440 | 16.01 | 55,070 | 80.9 | 20,920 | |
| Riprap bedding | m. wo | 940 | 17.07 | 16,050 | 24.90 | 23,410 | |
| Backfill | m-no | 3,400 | 13.88 | 47,190 | 9.20 | 31,280 | |
| Concrete, type B | m.us | 1,080 | 113.00 | 122,040 | 171.35 | 185,060 | |
| Formwork | H. O. | 6,120 | | | 40.42 | 247,370 | |
| Joint filler | m. ps | 200 | 54.60 | 10,920 | 3.70 | 740 | |
| (b) Wet masonry (4,580 m ²) | | | | | | | |
| Backfill concrete, type B | B cu.m | 920 | 144.00 | 132,480 | 175.55 | 161,510 | |
| Rubble stone | a.ps | 4,580 | 19.88 | 91,050 | 48.75 | 223,280 | |
| Cobble stone | cu.m | 2,560 | 0.77 | 1,970 | 61.61 | 157,720 | |
| Inter locking mortar | m•no | 230 | 245.13 | 56,380 | 255.45 | 58,750 | |
| (c) Ground Sill (190 m) | | | | | | | |
| Excavation, in common | w.uo | 1,170 | 14.60 | 17,080 | 4.62 | 5,410 | |
| Backfill | cu.m | 400 | 13.88 | 5,550 | 9,20 | 3,680 | |
| Concrete, type A | m•no | 640 | 126_88 | 81,200 | 179.72 | 115,020 | |
| Forkwork | w•bs | 640 | | | 40.42 | 25,870 | |
| Joint filler | ព • ជុំ | 32 | 54,60 | 1,750 | 3.70 | 120 | |
| (d) Concrete Block (134 nos. | | | | | | | |
| Concrete, type B | ca.m | 760 | 113,00 | 85,880 | 171,35 | 130,230 | |
| Formwork | m.ps | 2,330 | | | 40.42 | 94,180 | Section 1997 Application and control of the con- |
| Reinforcing bar, 616 mm | | 1.780 | ú | .047.7 | ¥** | • | |

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| Competition of the Competition o | Control of the Contro | The second properties of the Second | + - + | Foreign Currency | Currency | Local | Local Currency | |
|--|--|-------------------------------------|-----------|------------------|-----------|------------|----------------|--------------|
| | CONTROL TO THE CONTROL OF THE CONTRO | on i | Kuanti ty | Unit Price | Amount | Unit Price | Amount | ve mar vs |
| | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | | | | | | |
| (42) | No.4 Spur_Dike (280 m) | | | | | | | F/C: 509,230 |
| (a) | Spur Dike (280 m) | | | | | | | |
| | Excavation, in common | er no | 5,030 | 14.60 | 73,440 | 4.62 | 23,240 | |
| | Embankment | m.m2 | 2,410 | 16.01 | 38,580 | 80.9 | 14,650 | |
| | Ripray bedding | m-m | 099 | 17.07 | 11,270 | 24.90 | 16,430 | |
| | Backfill | cu.m | 2,380 | 13,88 | 33,030 | 9.20 | 21,900 | |
| | Concrete, type B | æ•m | 760 | 113.00 | 85,880 | 171.35 | 130,230 | |
| | Formwork | m.ps | 4,290 | | | 40.42 | 173,400 | |
| | Joint filler | m•ps | 140 | 54.60 | 7,640 | 3.70 | 520 | |
| (Q) | Wet masonry (3,210 m ²) | | | | | | | |
| | Backfill concrete, type B | cu.m | 640 | 144-00 | 92,160 | 175.55 | 112,350 | |
| | Rubble stone masonry | E o's | 3,200 | 19.88 | 63,620 | 48.75 | 156,000 | |
| | Cobble stone | u.uo | 1,800 | 0.77 | 1,390 | 61.61 | 110,900 | |
| | Inter locking mortar | m·no | 160 | 245.13 | 39,220 | 255.45 | 40,870 | |
| (°) | Concrete Block (93 nos.) | | | | | | | |
| | Concrete, type B | m.uo | 530 | 113,00 | 59,890 | 171.35 | 90,820 | |
| | Formwork | w•bs | 1,620 | | | 40.42 | 65,480 | |
| | Reinforcing bar, \$16 mm | kg. | 1,240 | 2.51 | 3,110 | 1,35 | 1,670 | |
| | Sub total (1) | | | | 4,402,070 | | 7,200,520 | |
| | | | | | | , 1. | | |

| Only Number of Unit Price Amount Unit Price Amount (440,210 720,050 ellaneous (3)) (290,540 475,230 ontract Cost) isition if (55 of Item 1) (155 of Item 1) (155 of Item 1) Togict Cost in (55 of Item 1) | 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | • | Foreign Currency | Local Currency | Dome |
|---|--|------------------|--|----------------|--|
| General (10% of (1) | Lescription | out value of the | | | INCHINAL INS |
| Supervision and Miscellaneous 290,540 475,230 6% of (1) to (2) | (1) (1) (2) (1) (1) | | O CO OFF | 720 050 | |
| Supervision and Miscellaneous 290,540 475,230 (6% of (1) to (2)) | Content for Charles | | | | |
| Frofit (10% of (1) to (3)) | Supervision and Miscellaneous (6% of (1) to (2)) | | 290,540 | 475,230 | |
| Contractor's Tax (3% of (1) to (4) |) Profit (10% of (1) to (3)) | | | | |
| Sub total (Contract Cost) 5,132,820 8,395,800 Right of Way/Site Acquisition - 1,352,860 Engineering Cost (10% of Item 1) - 1,352,860 Project Management Cost (5% of Item 1) 769,920 1,259,370 Contingency Physical Contingency (15% of Item 1) 1,259,370 Price Escalation Total Estimated Project Cost 11,684,460 |) Contractor's Tax (3% of (1) to (4) | | | | |
| Right of Way/Site Acquisition Engineering Cost (10% of Item 1) Project Management Cost (5% of Item 1) Contingency Physical Contingency (15% of Item 1) Price Escalation Total Estimated Project Cost Total Estimated Project Cost | Sub total (Contract Cost) | | 5,132,820 | 8,395,800 | 213,528,620 |
| Engineering Cost (10% of Item 1) Project Management Cost (5% of Item 1) Contingency Contingency Physical Contingency (15% of Item 1) Price Escalation Total Estimated Project Cost Total Estimated Project Cost | Right of Way/Site Acquisition | | | | |
| Project Management Cost (5% of Item 1) Contingency Contingency Physical Contingency (15% of Item 1) Physical Contingency (15% of Item 1) Price Escalation Total Estimated Project Cost 11.684.460 | Engineering Cost (10% of Item 1) | | | 1,352,860 | |
| Contingency Physical Contingency (15% of Item 1) Price Escalation Total Estimated Project Cost Total Estimated Project Cost | | | | 676,430 | |
| 5.902.740 | | | 769,920 | 1,259,370 | |
| 11, 684, 460 11, 684, 460 |) Physical Contingency (15% of Item 1 | | | | |
| 5.902,740 | Price Escalation | | | | |
| | Total Estimated Project Cost | | 5,902,740 | 11,684,460 | p17,587,200 |
| | | | | | |
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|--|-------|----------|------------|------------------|------------|----------------|----------------|
| Description | Unit | Quantity | Unit Price | Amount | Unit Price | Amount | - Remarks |
| 1. Contract Cost | | | | | | | |
| (1) Direct Cost | | | | | | | |
| (i) No.1 Sabo Dam (80 m) | | | | | | | F/C: 1,517,840 |
| Excavation, in common | a•no | 11,700 | 14.60 | 170,820 | 4.62 | 54,050 | L/C: 1,872,720 |
| Excavation, in rock | ⊯° ກວ | 150 | 45.49 | 6,820 | 40.51 | 080,9 | |
| Backtill | m•m | 530 | 13.88 | 7,360 | 9.20 | 4,880 | |
| Concrete, type A | ដ. ជ. | 840 | 172.38 | 144,800 | 186.31 | 156,500 | |
| Rubble concrete | m•no | 7,650 | 138.69 | 1,060,980 | 149.35 | 1,142,530 | |
| Backfill concrete, type B | m.u. | 780 | 144.00 | 112,320 | 175.55 | 136,930 | |
| Pormwork | a•ps | 4,300 | | | 86.22 | 370,750 | |
| Joint filler | E S | 270 | 54.60 | 14,740 | 3.70 | 1,000 | |
| (ii) No.1 Consolidation Dam (120 m) | | | | | | | F/C: 1,260,190 |
| Excavation, in common | m no | 6,800 | 14.60 | 99,280 | 4.62 | 31,420 | L/C: 1,563,470 |
| Backfill | น•ทจ | 780 | 13.88 | 10,830 | 9.20 | 7,180 | |
| Concrete, type A | m.uo | 1,860 | 172.38 | 320,630 | 186,31 | 346,540 | |
| Rubble concrete | ca.m | 5,440 | 138.69 | 754,470 | 149.35 | 812,460 | |
| Backfill concrete, type B | m-uo | 460 | 144.00 | 66.240 | 175 65 | 80.750 | |

86,22

-590

3.70

8,740

54.60

3,300

Formwork Joint filler

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| | + % 5 | ; ; ; ; ; | Foreign | Foreign Currency | Local | Currency | 200 A |
|---|----------------|-----------------------|------------|------------------|------------|----------|--|
| Lescriphron | 0.11.2 U | Zuen cz cy | Unit Price | Amount | Unit Price | Amount | Ne marks |
| (iii) No.1 & No.2 Spur Dike (500 m) | | | | | | | F/C: 909, 780 |
| | | | | | | | 1/0: 1,715,780 |
| Excavation, in common | ພຸກວ | 9,160 | 14.60 | 133,740 | 4.62 | 42,320 | |
| Babankment | cu.m | 4,300 | 16.01 | 68,840 | 80-9 | 26,140 | |
| Riprap bedding | cu.m | 1,180 | 17.07 | 20,140 | 24.90 | 29,380 | |
| Backfill | m-no | 4,260 | 13.88 | 59,130 | 9.20 | 39,190 | |
| Concrete, type B | cu.mo | 1,360 | 113.00 | 153,680 | 171.35 | 233,040 | |
| Formwork | a. ps | 7,650 | | | 40.42 | 309,210 | |
| Joint Riller | sq.m | 250 | 54.60 | 13,650 | 3.70 | 930 | |
| (b) Wet masonry (5,720 m ²) | | | | | | | |
| Backfill concrete, type B | cu.m | 1,150 | 144.00 | 165,600 | 175.55 | 201,880 | |
| Rubble stone masonry. | ж о -т | 5,720 | 19.88 | 113,710 | 48.75 | 278,850 | |
| Cobblestone | en.m | 3,200 | . 22.0 | 2,460 | 19•19 | 197,150 | |
| Inter locking mortar | eu.m | 280 | 245.13 | 68,640 | 255.45 | 71,530 | |
| (c) Concrete Block (170 nos.) | | | | | | | |
| Concrete, type B | ca.m | 970 | 113,00 | 109,610 | 171.35 | 166,210 | |
| Formvork | æ ď• bs | 2,960 | | | 40.42 | 119,640 | |
| Reinforcing bar, \$16 mm | ук | 230 | 2.51 | . 085 | 1,35 | 310 | |
| (iv) No.3 Spur Dike (240 m) | | | | | | | F/c: 436,030 |
| (a) Spur Dike (240 m) | | | | | | | |
| Excavation, in common | cu.m | 4,310 | 14.60 | 62,930 | 4.62 | 19,910 | And the second s |
| | | | | | | | |

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|--|------------------|-------------------|-----------|----------|------------|---|--------------|
| le scription | unt | Quantity | | Amount | Unit Price | Amount | Komarks |
| | | 030 6 | 10.51 | 000 66 | 00 | | |
| Tankaran Carana and Ca | 5 1 1 1 | | T | 72,900 | 00.0 | 14,740 | |
| Riprap bedding | m.no | 520 | 17.07 | 8,880 | 24.90 | 12,950 | |
| Backfill | cu.m | 2,040 | 13.88 | 28,320 | 9.20 | 18,770 | |
| Concrete, type B | cu.m | 650 | 113.00 | 73,450 | 171.35 | 111,380 | |
| Pormwork | æ•ŏs | 3,530 | | | 40.42 | 142,680 | |
| Joint filler | sq.m | 120 | 54.60 | 6,550 | 3.70 | 440 | |
| (b) Wet masonry $(2,750 \text{ m}^2)$ | | 7 | | | | | |
| Backfill concrete, type B | m•no | 550 | 144.00 | 79,200 | 175.55 | . 96,550 | |
| Rubble stone masonry | E OS | 2,750 | 19.88 | 54,670 | 48.75 | 134,060 | |
| Cobble stone | ш • по | 1,540 | 0.77 | 1,190 | 61.61 | 94,880 | |
| Inter locking mortar | m.uo | 140 | 245.13 | 34,320 | 255.45 | 35,760 | |
| (c) Concrete Block (180 nos.) | | | • | | | | |
| Concrete, type B | E. U.S | 450 | 113.00 | 50,850 | 171.35 | 77,110 | |
| Pormwork | n.ps | 1,390 | | | 40,42 | 56,180 | |
| Reinforcing bar, \$16 mm | kg | 1,070 | 2.51 | 2,690 | 1.35 | 1,440 | |
| (v) No.4 Spur Dike (260 m) | | | | | | E/ | F/C: 475,660 |
| (a) Spur Dike (260 m) | | | | | | | |
| Excavation, in common | m•no | 4,670 | 14.60 | 68,180 | 4.62 | 21,580 | |
| Embankment | m-no | 2,240 | 16.01 | 35,860 | 80.9 | 13,620 | |
| Riprap bedding | m no | 610 | 17.07 | 10,410 | 24.90 | 15,190 | |
| Backfill | ພ. ກວ | 2,210 | 13.88 | 30,670 | 9.20 | 20,330 | |
| | | | | | | * | |

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| | | | | | | | |
| Concrete, type B | cu.m | 700 | 113.00 | 79,100 | 171.35 | 119,950 | |
| Formwork | នច្ច-ព | 3,980 | | | 40.42 | 160,870 | |
| Joint filler | m.ps | 130 | 54.60 | 7,100 | 3.70 | 480 | |
| (b) Wet masonry (2,980 m ²) | | · | • | | | | |
| Backfill concrete, type B | m. uo | 009 | 144.00 | 86,400 | 175.55 | 105,330 | |
| Rubble stone masonry | w•bs | 2,980 | 19.88 | 59,240 | 48.75 | 145,280 | |
| Cobble stone | m.us | 1,670 | 0.77 | 1,290 | 61.61 | 102,890 | |
| Inter locking mortar | en.m | 150 | 245.13 | 36,770 | 255.45 | 38,320 | |
| (c) Concrete Block (90 nos.) | | | | | | | |
| Concrete, type B | er-no | 510 | 113.00 | 57,630 | 171.35 | 87,390 | |
| Formvork | m•ps | 1,570 | | | 40.42 | 63,460 | |
| Reinforcing bar, ø 16 mm | kg | 1,200 | 2.51 | 3,010 | 1.35 | 1,620 | |
| (vi) No.5 Spur Dike (500 m) | | | | | | | F/C: 1,009,540 |
| (a) Spur Dike (500 m) | * : | | | | | | L/C: 1,845,800 |
| Excavation, in common | m.uo | 8,970 | 14.60 | 130,960 | 4.62 | 41,440 | |
| Embankment | u-no | 4,300 | 16.01 | 68,840 | 80.9 | 26,140 | |
| Riprap bedding | m. uo | 1,170 | 17.07 | 19,970 | 24.90 | 29,130 | |
| Backfill | m-no | 4,260 | 13.88 | 59,130 | 9.20 | 39,190 | |
| Concrete, type B | cu.m | 1,360 | 113.00 | 153,680 | 171.35 | 233,040 | |
| Formwork | sq.m | 7,660 | | | 40.42 | 309,620 | |
| Joint filler | w•bs | 250 | 54.60 | 13,650 | 3.70 | 930 | manufactured amplitude of the first transfer of the special state of the |
| | | | | | 5 m 1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Andrew to the second se | |

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| | Unit | Quantity | Foreign | Foreign Currency | Local | Curr | Remarks |
|-------------------------------------|-------|----------|------------|------------------|-----------|--|----------------|
| | | | onit Frice | Amount | Ont Frice | Amount | |
| Wet masonry (5,730 m ²) | | | | | | | |
| Backfill concrete, type B | ພູກວ | 1,150 | 144.00 | 165,600 | 175.55 | 201,880 | |
| Rubble stone masonry | sq.m | 5,730 | 19.88 | 113,910 | 48.75 | 279,340 | |
| | a no | 3,210 | 0.77 | 2,470 | 61.61 | 197,770 | |
| Inter locking mortar | m. no | 290 | 245.13 | 71,090 | 255.45 | 74,080 | |
| | | | | | | | |
| Excavation, in common | m-no | 1,170 | 14.60 | 17,080 | 4.62 | 5,410 | |
| | m.uo | 400 | 13.88 | 5,550 | 9.20 | 3,680 | |
| | m.us | 640 | 126.88 | 81,200 | 179,72 | 115,020 | |
| | sq.m | 640 | | | 40.42 | 25,870 | |
| | sq.m | 32 | 54.60 | 1,750 | 3.70 | 120 | |
| Concrete Block (156 nos.) | | | | | | | |
| | m•no | 880 | 113.00 | 99,440 | 171.35 | 150,790 | |
| | a. ps | 2,710 | | | 40.42 | 109,540 | |
| Reinforcing bar, ø 16 mm | Кg | 2,080 | 2.51 | 5,220 | 1.35 | 2,810 | |
| (vii) No.6 Spur Dike (250 m) | • | | | | | | 3/C: 642.890 |
| | | | | | | | L/C: 1,197,890 |
| Excavation, in common | cu.m | 4,490 | 14.60 | 65,550 | 4.62 | 20,740 | |
| | m.uo | 2,150 | 16.01 | 34,420 | 80-9 | 13,070 | |
| | cu.no | 280 | 17.07 | 006'6 | 24.90 | 14,440 | |
| | cu.m | 2,130 | 13.88 | 29,560 | 9.20 | 19,600 | |
| | | | | | | William of the control of the contro | ÷ |

| | E + | Onsantation | Foreign Currency | Jurrency | Local C | Local Currency | Pamarana Managarana da Managar |
|-------------------------------------|--------|------------------------|---|----------|------------|----------------|--|
| Les et liberou | 2 1110 | Kotomana | Unit Price | Amount | Unit Price | Amount | Wellian A.S. |
| | | | | | | | |
| Concrete, type B | u no | 089 | 113.00 | 76,840 | 171.35 | 116,520 | |
| Formwork | E os | 3,820 | | | 40.42 | 154,400 | |
| Joint filler | u bs | 130 | 54.60 | 7,100 | 3.70 | 480 | |
| Wet masonry (2,860 m ²) | | | | | | | |
| Backfill concrete, type B | m.uo | 570 | 144.00 | 82,080 | 175.55 | 100,060 | |
| Rubble stone | so. | 2,860 | 19.88 | 56,860 | 48.75 | 139,430 | |
| Cobble stone | E no | 1,600 | 0.77 | 1,230 | 61.61 | 98,580 | |
| Inter locking mortar | cu.mo | 140 | 245.13 | 34,320 | 255.45 | 35,760 | |
| Ground Sill (180 m) | · · | | | | | | |
| Excavation, in common | m.uo | 1,320 | 14.60 | 19,270 | 4.62 | 6,100 | |
| Backtill | m.uo | 450 | 13.88 | 6,250 | 9.20 | 4,140 | |
| Concrete, type A | cu.m | 720 | 126.88 | 91,250 | 179.72 | 129,400 | |
| Formwork | 8q.•m | 720 | | | 40.42 | 29,100 | |
| Joint filler | sq.m | 4 | 54.60 | 2,180 | 3.70 | 150 | |
| Concrete Block (186 nos.) | | | | | | | |
| Concrete, type B | m.uo | 1,060 | 113.00 | 119,780 | 171.35 | 181,630 | |
| Formwork | sq. | 3,240 | | | 40.42 | 130,960 | |
| Reinforcing bar, \$16 mm | kg | 2,470 | 2.51 | 6,200 | 1,35 | 3,330 | |
| No.7 Spur Dike (350 m) | | y O' la ver la v | | | | | F/C: 783,520 |
| Spur Dike (350 m) | | | dan | | | | |
| Excavation, in common | ພຸກວ | 6,280 | 14.60 | 91,690 | 4.62 | 29,010 | may defen provide a filtrag provide or for the first of the second of |

| | **** | + | Foreign | Foreign Currency | Local | Local Currency | |
|---|----------------|---|------------|------------------|------------|----------------|---------|
| 101041100b | 3 1110 | X roman X | Unit Price | Amount | Unit Price | Amount | Kemerks |
| · · · · · · · · · · · · · · · · · · · | | | | | | | |
| Embankment | cu.m | 3,020 | 16.01 | 48,350 | 80.9 | 18,360 | |
| Riprap bedding | ca•m | 820 | 17.07 | 14,000 | 24.90 | 20,420 | |
| Backfill | m.uo. | 2,980 | 13.88 | 41,360 | 9.20 | 27,420 | |
| Concrete, type B | m.no | 950 | 113.00 | 107,350 | 171.35 | 162,780 | |
| Formwork | E • Q.º | 5,350 | | | 40.42 | 216,250 | |
| Joint filler | 8 ₫ • ⊞ | 180 | 54.60 | 9,830 | 3.70 | 670 | |
| (b) Wet masonry (4,000 m ²) | | | | | | | ** * . |
| Backfill concrete, type B | E no | 800 | 144.00 | 115,200 | 175.55 | 140,440 | |
| Rubble stone masonry | a. ps | 4,000 | 19,88 | 79,520 | 48.75 | 195,000 | |
| Cobble stone | cu.m | 2,230 | 0.77 | 1,720 | 61.61 | 137,390 | |
| Inter locking mortar | ш-no | 200 | 245.13 | 49,030 | 255.45 | 51,090 | |
| (c) Ground Sill (160 m) | | | | | · · | | |
| Excavation, in common | er no | 1,170 | 14.60 | 17,080 | 4.62 | 5,410 | |
| Backfill | m.uo | 400 | 13,88 | 5,550 | 9.20 | 3,680 | |
| Concrete, type A | cu.m | 640 | 126.88 | 81,200 | 179.72 | 115,020 | |
| Formwork | n Da | 640 | | | 40.42 | 25,870 | |
| Joint filler | sq.m | 30 | 54.60 | 1,640 | 3.70 | 110 | |
| (d) Concrete Block (176 nos.) | | | | | | | |
| Concrete, type B | en.no | 1,010 | 113.00 | 114,130 | 171.35 | 173,060 | |
| Formvork | SQ.1 | 3,070 | | | 40.42 | 124,090 | |
| Reinforcing bar, \$16 mm | kg | 2,340 | 2.51 | 5,870 | 1,35 | 3,160 | |
| Sub total (1) | | | | 7,035,450 | | 11,355,830 | |

| Local Currency Unit Price Amount | 1,3 | 749,480 | | | 13,240,890 P21,444,230 | | 2,144,420 | 1,072,210 | | 1,986,130 | | 18,443,650 P27,877,490 | The property of the second of |
|---------------------------------------|---------------------------|---|---------------------------------|--|---------------------------|----------------------------------|-------------------------------------|---|----------------|--|----------------------|------------------------------|---|
| Foreign Currency Unit Price Amount | | 464,340 | • | 4 | 8,203,340 | 1 | | | | 1,230,500 | 1 | 9,433,840 | |
| Quantity - | | | ž. | | | | | | | | | . : | |
| Description | (2) General (10% of (1)) | (3) Supervision & Miscellaneous (6% of (1) to (2)) | (4) Profit (10% of (1) to (3)) | (5) Contractor's Tax (3% of (1) to (4)) | Sub total (Contract Cost) | 2. Right of Way/Site Acquisition | 3. Engineering Cost (10% of Item 1) | 4. Project Management Cost (5% of Item 1) | 5. Contingency | (1) Physical Contingency (15% of Item 1) | (2) Price Escalation | Total Estimated Project Cost | |

| E - | | | Fore ion Currency | Local | Local Currency | |
|------|---------------|----------|--|------------|----------------|--|
| - : | Unit Quantity | Uni | Amount | Unit Price | Amount | Remarks |
| | | | | | | |
| ٠. | | | | | | |
| | | | | | | |
| | | | | • . | | F/C: 710,910 |
| | cu.m 6,000 | 14.60 | 87,600 | 4.62 | 27,720 | |
| | cu.m 400 | 45.49 | 18,200 | 40.51 | 16,200 | |
| | cu.m 230 | 172.38 | 39,620 | 186.31 | 42,850 | |
| Ŭ | cu.m 3,060 | 138.69 | 424,390 | 149.35 | 475,010 | |
| Ü | cu.m 330 | 144.00 | 47,520 | 175.55 | 57,930 | |
| .0 | cu.m 280 | 144.00 | 40,320 | 175.55 | 49,150 | |
| U) | sq.m 1,750 | - | | 86.22 | 150,890 | |
| | sq.m 140 | 54.60 | 7,640 | 3.70 | 520 | design of the state of the stat |
| 91 | sq.m 1,400 | 19.88 | 27,830 | 48.75 | 68,250 | |
| _ | cu.m 780 | 0.77 | 009 | 61.61 | 48,060 | |
| | cu.m 70 | 245.13 | 17,160 | 255.45 | 17,880 | |
| | | | | | | F/C: 427,460 |
| Ü | cu.m 1,500 | 14.60 | 21,900 | 4.62 | 6,930 | L/C: 681,940 |
| o | cu.m 410 | 172.38 | 70,680 | 186,31 | 76,390 | |
| 0 | cu.m 1,230 | 138,69 | 170,590 | 149.35 | 183,700 | |
| | cu.m. 530 | 144.00 | 76,320 | 175,55 | 93,040 | The second secon |
| w bs | | | The second secon | \$\$ 70 | 004 04 | |

| Foreign Currency Local Currency | | m 50 54.60 2,730 3.70 | m 2,630 19.88 52,280 48.75 128,210 | 1,470 61.61 | 130 245.13 31,830 255.45 | 1,138,370 | 113,840 | 75,130 | | | 1,327,340 | | 323,540 | - 161,770 | | 199,100 | 如我们的我们的是我们的更好的,不是一个人,我们们还有一个人,也可以不是一个人,也可以不是一个人,也可以不是一个人,我们们也不是一个人,也不是一个人,也不是一个人,也不是一个人,也不是一个人,也不是一个 | |
|---------------------------------|--|-----------------------|------------------------------------|--------------|--------------------------|---------------|--------------------------|--|-------------------------------|--|---------------------------|----------------------------------|-------------------------------------|---|----------------|--|--|--|
| Decomination That | | Joint filler sq.m | Rubble stone masonry sq.m | Cobble stone | Inter locking cu.m | Sub total (1) | (2) General (10% of (1)) | (3) Supervision and Miscellaneous (6% of (1) to (4)) | (4) Profit (10% of (1) to (3) | (5) Contractor's Tax (3% of (1) to (4) | Sub total (Contract Cost) | 2. Right of Way/Site Acquisition | 3. Engineering Cost (10% of Item 1) | 4. Project Management Cost (5% of Item 1) | 5. Contingency | (1) Physical Contingency (15% of Item 1) | | |

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| Unit Quantity Porcign Currency | Onnonia de la companya de la company | | | mon cu.m 1,738,000 31.64 54,990,320 7.98 13,869,240 | cu.m 3,706,000 16.06 59,518,360 4.99 18,492,940 | sq.m 1,493,000 | sq.m 299,000 17.32 5,178,680 42.25 12,632,750 | | common cu.m 31,000 19.53 605,430 5.11 158,410 | cu.m 1,327,000 16.06 21,311,620 4.99 6,621,730 | sq.m 640,000 23.66 15,142,400 | sq.m 128,000 17.32 2,216,960 42.25 5,408,000 | | mon cu.m 901,000 29.67 26,732,670 7.99 7,198,990 | cu.m 252,000 16.06 4,047,120 4.99 1,257,480 | • |
|--------------------------------|--|-------------|-------------------|---|---|----------------|---|---------------|---|--|-------------------------------|--|--------------|--|---|---|
| Description | Contract Cost | Direct Cost | Ouinali (A) River | Excavation, in common | Embankment | Sod facing | Slope protection | Talisay River | Excavation, in con | Embankment | Sod facing | Slope protection | Nasisi River | Excavation, in common | Embankment | • |

| () () () () () () () () () () () () () (| The | ÷ ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | Foreign Currency | urroncy | Local Cu | Currency | 0.000 |
|--|--------|---|------------------|---------------|------------|-----------|---------|
| יים אין די פאין | 7 1170 | אַר איז איז אַר אַ | Unit Price | γιασαυτ | Unit Price | Amount | lomarks |
| Removal of Existing Head Works | : | | | | | | |
| South-Quinali head works | m-no | 260 | 61.34 | 15,950 | 80,26 | 20,870 | |
| San Agustin head works | m-no | 230 | 61.34 | 14,110 | 80.26 | 18,460 | |
| Agus. Sta. Gruz head works | m.us | 500 | 61.34 | 12,270 | 80.26 | 16,050 | |
| Relating Structures | | | | | | | |
| Sluiceway | . nos | 10 | 29,400 | 294,000 | 20,300.00 | 203,000 | |
| Infrastructure | | | | | | | |
| (a) Quinali (A) River | | | | | | | |
| Matacon Bridge | g | 359 | 17,500 | 6,282,500 | 11,900 | 4,272,100 | |
| Quinali Bridge | E | 318 | 17,500 | 5,565,000 | 11,900 | 3,784,200 | |
| Tagpo Bridge | E | 196 | 17,500 | 3,430,000 | 11,900 | 2,332,400 | |
| Busac Bridge | E | 270 | 17,500 | 4,725,000 | 11,900 | 3,213,000 | |
| Oas Bridge | £ | 270 | 17,500 | 4,725,000 | 11,900 | 3,213,000 | |
| (b) Nasisi River | | | | | | | |
| Binatagan Bridge | E | 94 | 17,500 | 1,645,000 | 11,900 | 1,118,600 | |
| Gamot Bridge | ៩ | 94 | 17,500 | 1,645,000 | 11,900 | 1,118,600 | |
| (c) Talisay River | | | | | | | |
| Bacolod Bridge | E | 200 | 17,500 | 3,500,000 | 11,900 | 2,380,000 | |
| Bailey Bridge | ٤ | 200 | 17,500 | 3,500,000 | 11,900 | 2,380,000 | |
| | | | | - 1-40 | | | |

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| Description Unit Ouantity | | Porelign Currency | Local C | Local Curroncy | Sept. |
|---|--------------|-------------------|------------|----------------|--|
| | - Unit Price | Amount | Unit Price | Amount | ACTION AND |
| (d) National Railway | | | | | |
| Nasisi Bridge | 7,000 | 700,000 | 4,800 | 480,000 | |
| Sub total (1) | 211,572,950 | | | 149,213,070 | |
| General (10% of (1)) | 21,157,300 | | | 14,921,310 | |
| (3) Supervision and Miscellaneous (6% of (1) to (2)) | | 13,963,820 | | 9,848,060 | |
| (4) Profit (10% of (1) to (3)) | | | | | |
| (5) Contractor's Tax (3% of (1) to (4)) | | | | 1 | |
| Sub total (Contract Cost) | | 246,694,070 | | 173,982,440 | £420,676,510 |
| Right of way / Site Acquisition ha 1,11 | ,114.0 | | | | |
| | | | | : | |
| Resettlement (Type A: 113 nos., Type B: 322 nos., Type C: 676 nos.) | | 1 | | 24,293,400 | (Type A:Ell5,000) (Type B:E 29,000) (Type C:E 2,900) |
| Engineering Cost (10% of Item 1) L.S. | | 24,669,410 | | 17,398,240 | |
| Project Management Cost (5% of Item 1.)L.S. | | - 1 | | 21,033,830 | |

| Dosonintion | Trait Orestit | + | Porelign Currency | urrency | Local C | Local Currency | | |
|--|---------------|-----------|-------------------|-------------|------------|----------------|--------------|-----|
| | 3 | £0 +0 111 | Unit Price | γωσαυς | Unit Price | Amount | Kemariks | |
| 6. Contingency | | | | | | | | |
| (1) Physical Contingency (20% of Item 1.) | .) I.s. | | | 49,338,810 | | 34,796,490 | | |
| (2) Price Escalation (F/C: 7%, L/C: 13%)L.S. | č. Š | | | · | | 1 | | |
| Total Estimated Project Cost | | | | 320,702,290 | | 271,504,400 | P592,206,690 | 063 |

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| | TABLE-I.28 DETAILED COST ESTIN | : |
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| Description | Մու Ն | Quantity | Unit Price | يد ا | Unit Price | Amount | Remarks |
| Contract Cost | | | | | | | |
| (1) Direct Cost | | | | | | | |
| Ouinali (B) River | | | | | | | |
| Excavation, in common | m.uo | 1,130,000 | 29.67 | 33,527,100 | 7.99 | 9,028,700 | |
| Embankment | m.uo | 745,000 | 16.06 | 11,964,700 | 4.99 | 3,717,550 | |
| Sod facing | sq.m | 456,000 | | • | 23.66 | 10,788,960 | |
| Slope protection | e o | 91,000 | 17.32 | 1,576,120 | 42.25 | 3,844,750 | |
| San Francisco River | | | | | | | |
| Excavation, in common | m•no | 509,000 | 29.67 | 15,102,030 | 7.99 | 4,066,910 | |
| Embankment | m-no | 142,000 | 16.06 | 2,280,520 | 4.99 | 708,580 | |
| Sod facing | m. ps | 236,000 | | 1 | 23.66 | 5,583,760 | |
| Slope protection | sq.m | 49,000 | 17.32 | 848,680 | 42.25 | 2,070,250 | |
| San Vicente River | | | | | | | |
| Excavation, in common | m. vo | 94,000 | 29.67 | 2,788,980 | 4.99 | 751,060 | |
| Embankment | m.uo | 89,000 | 16.06 | 1,429,340 | 4.99 | 444,110 | |
| Sod facing | នq. m | 136,000 | | I | 23.66 | 3,217,760 | |
| Slope protection | m•ps | 27,000 | 17.32 | 467,640 | 42.25 | 1,140,750 | |
| | | | | • | | | |

| Remarks | | | | | | | | | Approximation of the Market State of the Sta | | | £154,652,930 | | (Type A:#115,000) (Type B:# 29,000) | |
|------------------|----------------|-----------------------|--------------|---------------|-------------------------|--------------|---------------|--------------------------|--|---------------------------------|---|---------------------------|---------------------------------|---|-----------------------------------|
| Currency | a money | | 3,213,000 | 2,618,000 | | 1,166,200 | 52,360,340 | 5,236,030 | 3,455,780 | | | 61,052,150 £154,652 | | 877,600 | 6,105,220 |
| Local | | | 11,900 | 11,900 | | 11,900 | | | | | | | | | |
| arreney | | | 4,725,000 | 3,850,000 | | 1,715,000 | 80,275,120 | 8,027,510 | 5,298,160 | | | 93,600,780 | 1 " | 1 . | 9,360,080 |
| Foreign Currency | 333 | | 17,500 | 17,500 | | 17,500 | | | : | | | | | | |
| Quantity | | | 270 | 220 | | 86 | | | (2)) | | | | 227.3 | | |
| Unit | | | E | æ | | E | | | (6% of (1) t | | (4)) | ost) | ह्य | ŗ.s. | L.S. |
| | | я Ф | | | iver | | (t) | | cellaneous | to (3)) | % of (1) to | (Contract C | quisition | B: 12 nos., | of Item 1.) |
| Description | Infrastructure | (a) Quinali (B) River | Balza Bridge | Labnig Bridge | (b) San Francisco River | Tuliw Bridge | Sub total (1) | (2) General (10% of (1)) | (3) Supervision and Miscellaneous (6% of (1) to (2) | (4) Profit (10% of (1) to (3)) | (5) Contractor's Tax (3% of (1) to (4)) | Sub total (Contract Cost) | Right of Way / Site Acquisition | Resettlement (Type A: 12 nos. Type C 24 nos.) | Engineering Cost (10% of Item 1.) |

| Control of the Cont | 1 | Poreign Currency | Local Currency |
|--|--|--|-------------------------|
| OHT DO THE STATE OF THE STATE O | Zago en ez | Unit Price Amount | Unit Price Amount |
| 5. Project Management Cost (5% of Item 1.)L.S. | | | 7,732,650 |
| | | | |
| 6. Contingency | | | |
| (1) Physical Contingency (20% of Item 1.)L.S. | | 18,720,160 | 12,210,430 |
| (2) Price Escalation (F/C: 7%, L/C: 13%) L.S. | ************************************** | | |
| Total Estimated Project Cost | | 121,681,020 | 87,978,050 ₱209,659,070 |
| | | · 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | |

TABLE-I.29 DETAILED COST ESTIMATE (ECONOMIC), RIVER IMPROVEMENT WORKS, YAWA RIVER

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| Description | Init | Onantity | A TABLE | out telley | T 10000 | Corragions | Down of the |
|---|-----------|--|---------------------------------------|------------|------------|------------|--------------------------------------|
| | , T. | X marriage A | Unit Price | Amount | Unit Price | Aniount | ue marits |
| 1. Contract Cost | e i. | a a | | | | | |
| (1) Direct Cost | | | | | | | |
| Yawa River | | | | | | | |
| Embankment | m.uo | 317,000 | 16.06 | 5,091,020 | 4.99 | 1,581,830 | |
| Sod facing | m.ps | 217,000 | | 1 | 23.66 | 5,134,220 | |
| Slope protection | នណ្ឌិញ | 43,000 | 17.32 | 744,760 | 42.25 | 1,816,750 | |
| Infrastructure | | | | | | | |
| Yawa Bridge | Æ | 196 | 17,500 | 3,430,000 | 11,900 | 2,332,400 | |
| Sub total (1) | | | · · · · · · · · · · · · · · · · · · · | 9,265,780 | | 10,865,200 | |
| (2) General (10% of (1)) | | | | 926,580 | | 1,086,520 | |
| (3) Supervision and Miscellaneous (6% of (1) to | of (1) to | (2)) | • | 611,540 | | 717,100 | |
| (4) Profit (10% of (1) to (3)) | | | | | | | |
| (5) Contractor's Tax (3% of (1) to (4)) | ~ | | | 1 | | | |
| Sub total (Contract Cost) | | | | 10,803,900 | | 12,668,820 | £23,472,720 |
| 2. Right of Way / Site Acquisition | ha | 24.6 | 9 | • | | | |
| 3. Resettlement (Type A: 6 nos., Type B: 14 nos., Type C 13 nos.) | . S. | | | | | 1,133,700 | (Type A:F115,000 (Type B:F.29,000 |
| | | A CONTRACT WAS MADE AND A CONTRACT OF THE CONT | | | | | (Type C: ≠ 2, |

| 4. Engineering Cost (10% of Item 1.) L.S. 5. Project Management Cost (5% of Item 1.)L.S. 6. Contingency (1) Physical Contingency (20% of Item 1.)L.S. (2) Price Escalation (F/C: 7%, L/C: 13%) L.S. | Description | Unit Quantity | Poroign Currency Unit Price Amou | rrency Amount | Local Currency Unit Price Amou | urrency | Remarks |
|---|--|---------------|-------------------------------------|------------------|-----------------------------------|-----------|---------|
| Project Management Cost (5% of Item 1.)L.S. Contingency Physical Contingency (20% of Item 1.)L.S. Physica Escalation (F/C: 7%, L/C: 13%) L.S. | | | | 1,080,390 | | 1,266,880 | |
| Contingency Dhysical Contingency (20% of Item 1.)L.S. Price Escalation (F/C: 7%, L/C: 13%) L.S. | 5. Project Management Cost (5% of Item 1.)L.S. | | | | | 1,173,640 | |
| 2,160,780 | 6. Contingency | | | | | | |
| (2) Price Escalation (F/C: 7%, L/C: 13%) L.S. | (1) Physical Contingency (20% of Item 1.)L.S | ÷ | | 2,160,780 | | 2,533,760 | |
| | (2) Price Escalation (F/C: 7%, L/C: 13%) L.S | | | • | | | |

TABLE-I.30 DETAILED COST ESTIMATE (ECONOMIC), RIVER IMPROVEMENT WORKS, QUINALI (A) RIVER, DIVERSION TO TALISAY RIVER

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| Description | 71, | ÷ ; | Foreign C | Currency | Local | Currency | Dorso wice |
|--------------------------------|-----------------------|------------|------------|-------------|------------|------------|------------|
| | 3 1 1 1 1 | Yuan un uy | Unit Price | Amount | Unit Price | Amount | CA THEORY |
| | | | | | | | |
| 1. Contract Cost | | : | - | | | | |
| (1) Direct Cost | | | | | | | |
| Quinali (A) River | | | | | | | |
| Excavation, in common | ca.m | 211,000 | 31.64 | 6,676,040 | 7.98 | 1,683,780 | |
| Embankment | m.uo | 2,006,000 | 16.06 | 32,216,360 | 4.99 | 10,009,940 | |
| Sod facing | e. G | 833,000 | 1 | .1 | 23.66 | 19,708,780 | |
| Slope protection | E 00 | 167,000 | 17.32 | 2,892,440 | 42.25 | 7,055,750 | |
| Concrete weir, type B concrete | w·no | 12,000 | 113.00 | 1,356,000 | 171.35 | 2,056,200 | - |
| Sheet pile | E | 2,750 | 160,64 | 441,760 | 56.11 | 154,300 | |
| | | | *. • | | | | |
| Talisav River | | | | | : | : | |
| Excavation, in common | er.no | 9,524,000 | 19.53 | 186,003,720 | 5.11 | 48,667,640 | |
| Embankment | er.m | 834,000 | 16.06 | 13,394,040 | 4.99 | 4,161,660 | |
| Sod facing | sq.m | 768,000 | . . | 1 | 23.66 | 18,170,880 | |
| Slope protection | a. ps | 154,000 | 17.32 | 2,667,280 | 42.25 | 6,506,500 | |
| | | | | • | | | |
| Nasisi River | | | | | | | |
| Excavation, in common | m-no | 901,000 | 29:67 | 26,732,670 | 7.99 | 7,198,990 | |
| Embankment | ผ•กว | 252,000 | 16.06 | 4,047,120 | 4.99 | 1,257,480 | |
| Sod facing | sq.m | 267,000 | ì | | 23.66 | 6,317,220 | |
| Slope protection | sq.m | 53,000 | 17.32 | 917,960 | 42.25 | 2,239,250 | |

| Unit Price Amount Unit 61.34 14,110 61.34 12,270 17,500 3,482,500 17,500 1,890,000 17,500 1,890,000 17,500 1,645,000 17,500 1,645,000 17,500 1,645,000 17,500 1,645,000 17,500 1,645,000 17,500 1,645,000 17,500 1,645,000 11,5 | cu.m 230 61.34 cu.m 200 61.34 61.34 cu.m 200 17,500 3,48 | Unit Price 80.26 80.26 11,900 | 1,608,000 1,285,200 |
|---|--|--|---|
| l of Existing Head Works ustin head works cu.m 230 61.34 14,110 Sta. Cruz head works cu.m 200 61.34 12,270 control gate (30 m x 6.7 m) L.S. tructure inali (A) River tacon Bridge m 196 17,500 3,482,500 11,9 gro Bridge m 196 17,500 4,725,000 11,9 sisi River matagan Bridge m 270 17,500 1,645,000 11,9 slisi River matagan Bridge m 94 17,500 1,645,000 11,5 mot Bridge m 94 17,500 1,645,000 11,5 colod Bridge m 420 17,500 1,550,000 11,9 | cu.m 230 61.34 cu.m 200 61.34 L.S. 199 17,500 3,48 | 80.26 80.26 11,900 | 18,460 16,050 1,608,000 2,368,100 1,285,200 |
| ustin head works cu.m 230 61.34 14,110 Sta. Cruz head works cu.m 200 61.34 12,270 tructure inali (A) River tacon Bridge m 199 17,500 3,482,500 11,9 gpo Bridge m 196 17,500 1,890,000 11,9 s. Bridge m 270 17,500 4,725,000 11,9 s. Bridge m 270 17,500 1,645,000 11,9 mot Bridge m 94 17,500 1,645,000 11,9 disay River m 94 17,500 1,645,000 11,9 dolod Bridge m 94 17,500 1,645,000 11,9 | cu.m 230 61.34 cu.m 200 61.34 4,8 m 199 17,500 3,48 | 80.26 80.26 | 18,460 16,050 1,608,000 2,368,100 1.285,200 |
| ### 12,270 Sta. Cruz head works Cu.m 200 61.34 12,270 Control gate (30 m x 6.7 m) L.S. 4,824,000 Control gate (30 m x 6.7 m) L.S. 4,824,000 Control gate (30 m x 6.7 m) L.S. 4,824,000 Control gate (30 m x 6.7 m) L.S. 1,500 1,890,000 11,9 Control gate m 199 17,500 1,890,000 11,9 Control gate m 196 17,500 1,890,000 11,9 Control gate m 270 17,500 1,645,000 11,9 Control gate m 94 17,500 1,645,000 11,9 Control gate m 94 17,500 1,645,000 11,9 Control gate m 94 17,500 1,645,000 11,9 Control gate m 420 17,500 1,645,000 11,9 Control gate m 420 17,500 11,9 Control | cu.m 200 61.34 L.S. 199 17,500 3,48 | 80.26 | 1,608,000 2,368,100 1,285,200 |
| Control gate (30 m x 6.7 m) L.S. control gate (30 m x 6.7 m) L.S. tructure inali (A) River tacon Bridge m 199 17,500 3,482,500 11,9 gro Bridge m 196 17,500 1,890,000 11,9 gro Bridge m 270 17,500 4,725,000 11,9 sisi River matagan Bridge m 94 17,500 1,645,000 11,9 lisay River m 94 17,500 1,645,000 11,9 lisay River m 420 17,500 7,350,000 11,9 | cu.m 200 01.34 4,8 m 199 17,500 3,48 | 11,900 | 1,608,000 2,368,100 1,285,200 |
| 0 m x 6.7 m) L.S. 4,824,000 m 199 17,500 3,482,500 m 108 17,500 1,890,000 m 270 17,500 3,430,000 m 270 17,500 1,645,000 m 94 17,500 1,645,000 m 94 17,500 1,645,000 | n.s. | 11,900 | 1,608,000 2,368,100 1,285,200 |
| 0 m x 6.7 m) L.S. 4,824,000 m 199 17,500 3,482,500 m 196 17,500 1,890,000 m 270 17,500 4,725,000 m 94 17,500 1,645,000 m 94 17,500 1,645,000 | m 199 17,500 3 | 11,900 | 1,608,000 2,368,100 1,285,200 |
| m 199 17,500 3,482,500 m 1,890,000 m 196 17,500 3,430,000 m 270 17,500 4,725,000 m 94 17,500 1,645,000 m 94 17,500 1,645,000 m 94 17,500 7,350,000 | m 199 17,500 | 11,900 | 2,368,100 1,285,200 |
| m 199 17,500 3,482,500 m 108 17,500 1,890,000 m 270 17,500 4,725,000 m 94 17,500 1,645,000 m 94 17,500 1,645,000 m 94 17,500 1,645,000 m | 17,500 | 11,900 | 2,368,100 |
| m 199 17,500 3,482,500 m 108 17,500 1,890,000 m 270 17,500 4,725,000 m 94 17,500 1,645,000 m 94 17,500 1,645,000 | 17,500 | 11,900 | 2,368,100 |
| m 199 17,500 3,482,500 m 108 17,500 1,890,000 m 270 17,500 4,725,000 m 94 17,500 1,645,000 m 94 17,500 1,645,000 m 94 17,500 1,645,000 m | 17,500 | 11,900 | 2,368,100 |
| ge m 199 17,500 3,482,500 ge m 108 17,500 1,890,000 m 196 17,500 3,430,000 m 270 17,500 4,725,000 m 94 17,500 1,645,000 r ge m 94 17,500 1,645,000 r ge m 420 17,500 7,350,000 | 17,500 | 11,900 | 2,368,100 1.285,200 |
| ge m 108 17,500 1,890,000 m 196 17,500 3,430,000 m 270 17,500 4,725,000 m 94 17,500 1,645,000 r m 94 17,500 1,645,000 r m 94 17,500 1,645,000 ge m 420 17,500 7,350,000 | | | 1.285.200 |
| idge m 270 17,500 3,430,000 adge m 270 17,500 4,725,000 m 94 17,500 1,645,000 m 94 17,500 1,645,000 m 94 17,500 1,645,000 m 94 17,500 1,645,000 | 17,500 | 11,900 | |
| idge m 94 17,500 1,645,000 m 94 17,500 1,645,000 m 94 17,500 1,645,000 r m 94 17,500 1,645,000 ge m 420 17,500 7,350,000 | 17,500 | 11,900 | 2,332,400 |
| idge m 94 17,500 1,645,000 m 94 17,500 1,645,000 r at m 420 17,500 7,350,000 | 17,500 | 11,900 | 3,213,000 |
| idge m 94 17,500 1,645,000 m 94 17,500 1,645,000 r 420 17,500 7,350,000 | | | |
| m 94 17,500 1,645,000 m 420 17,500 7,350,000 | 94 17,500 | 11.900 | 1,118,600 |
| e m 420 17,500 7,350,000 | 94 17,500 | 006,11 | 1,118,600 |
| e m 420 17,500 7,350,000 | | | · |
| m 420 17,500 7,350,000 | | | |
| | 420 17,500 | 11,900 | 4,998,000 |
| 17,500 7,525,000 | 430 17,500 | 11,900 | 4,998,000 |

| Romarks | C | 0 | 6 | | | | <u>2551,904,010</u> | | (Type A: B115,000) (Type B: B 29,000) (Type C: B 2,900) | | |
|-------------------------------------|---------------------------------------|---------------|--------------------------|--|----------------------------|-------------------------------------|---------------------------|---------------------------------|--|----------------------------------|--|
| Local Currency Unit Price Amount | 4,800 480,000 | 158,742,780 | 15,874,280 | 10,477,020 | | | 185,094,080 | | 13,603,700 | 18,509,410 | |
| n Currency Amount | 700,000 | 314,588,270 | 31,458,830 | 20,762,830 | 1 | | 366,809,930 | 1 | | 36,680,990 | |
| Poreign Unit Price | 7,000 | - | | | | | | | | | |
| Quantity | 100 | | | to (2)) | | | | 1,039.2 | | | |
| Uni t | ន | | | s (6% of (1) | | to (4)) | Çost) | eu | L.S. | | |
| Description | (d) National Railway Nasisi Bridge | Sub total (1) | (2) General (10% of (1)) | Supervision and Miscellaneous (6% of (1) to (2)) | Profit (10% of (1) to (3)) | Contractor's Tax (3% of (1) to (4)) | Sub total (Contract Cost) | Right of Way / Site Acquisition | Resettlement (Type A: 64 nos., Type B: 177 nos Type C: 383 nos.) | Engineering Cost (10% of Item 1. | |

| Pomarics | | | | | ¥758,674,120 | |
|---------------------------------------|--|----------------|---|--|------------------------------|--|
| Local Currency | 27,595,200 | | 37,018,820 | | 281,821,210 | |
| Poreign Currency Unit Price Amount | | | 73,361,990 | | 476,852,910 | |
| Quantity | | | | | | |
| Description | 5. Project Management Cost (5% of Item 1.) | 6. Contingency | (1) Physical Contingency (20% of Item 1.) | (2) Price Escalation (F/C: 7%, L/C: 13%) | Total Estimated Project Cost | |

IRRIGATION WORKS, QUINALI (A) RIVER BASIN AREA TABLE-I.31 DETAILED COST ESTIMATE

X

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| Parm Road Sq.m 420,000 3.94 1,654,800 1.09 457,800 1.09 457,800 1.09 457,800 1.09 457,800 1.09 457,800 1.09 46,800 1.09 46,800 1.09 46,800 1.09 46,800 1.09 46,800 1.09 46,800 1.09 64,900 1.09 64,900 1.09 64,900 1.09 64,900 1.09 64,900 1.09 64,900 1.09 64,900 1.09 64,900 1.09 64,900 1.09 64,900 1.09 64,900 1.09 64,900 1.09 64,840 1.000 | A STATE OF THE STA | . i. c. T | ÷ | Poredgn Currency | urrency | Local | Local Currency | |
|--|--|-----------|---------|------------------|-----------|------------|----------------|----------|
| Contract Cost Direct Cost Direct Cost Direct Cost | ossarije da sa | n #110 | gaaa ey | Unit Price | Autount | Unit Price | Amount | Kemariks |
| Danal and Farm Road ag ag.m 420,000 3.94 1,654,800 1.09 ion, in common cu.m 120,000 10.33 1,259,600 3.89 ion, in common cu.m 223,000 5.84 1,360,720 31.55 7, Canal ag sq.m 610,000 3.94 2,403,400 1.09 ion, in common cu.m 96,000 10.33 991,680 3.89 ent 165,000 5.84 963,600 31.55 5, antal Appe A cu.m 7,070 126.88 897,040 179.72 1, ype B cu.m 7,070 126.88 897,040 177.35 ton 220 12,000,00 2,640,000 4,000.00 bar ton 312 2,509.08 1,284,650 1,354.44 1350 mm dia. m 350 6.48 2,270 702.50 | l ' | | | | | | | |
| Canal and Farm Road sq.m 420,000 3.94 1,654,800 1.09 ag sq.m 420,000 10.33 1,239,600 3.89 ion, in common cu.m 120,000 10.33 1,259,600 3.89 ant cu.m 233,000 5.84 1,360,720 31.55 7, canal sq.m 610,000 3.94 2,403,400 1.09 ion, in common cu.m 96,000 10.33 991,680 3.89 ion, in common cu.m 96,000 10.33 991,680 3.89 ion, in common cu.m 7,070 5.84 963,600 31.55 5, intures for Main Canal 165,000 5.84 963,600 31.55 5, snall 1 cu.m 7,070 126.88 897,040 179.72 1, ype B cu.m 7,070 126.88 897,040 4,000.00 4,000.00 bar ton 220 12,000.00 2,640,000 4,000.00 1,3554.44 bar | | | | | | | | |
| tion Canal and Farm Road tin Canal canal sq.m 420,000 3.94 1,654,800 1.09 cervation, in common cu.m 120,000 10.33 1,239,600 3.89 teral Canal cavation, in common cu.m 610,000 3.94 2,403,400 1.09 cavation, in common cu.m 96,000 10.33 991,680 3.89 bbankment cavation, in common cu.m 165,000 5.84 963,600 31.55 5, d Structures for Main Canal trail Canal ton 7,070 126.88 897,040 179.72 1, ton 220 12,000.00 2,640,000 4,000.00 cxcing bar ton 350 6.48 2,270 702.50 | (1) Direct Cost | | | | | | | |
| rin Canal rripping reavation, in common cu.m 120,000 10.33 1,239,600 3.89 reavation, in common cu.m 233,000 5.84 1,360,720 31.55 7, reral Canal sq.m 610,000 3.94 2,403,400 10.93 991,680 3.89 reavation, in common cu.m 96,000 10.33 991,680 3.89 reavation, in common cu.m 96,000 10.33 991,680 3.89 real Canal cu.m 7,070 126.88 897,040 179.72 1, real Canal cu.m 7,070 126.88 897,040 171.35 real Canal real Canal cu.m 7,070 126.88 897,040 171.35 real Canal real Canal cu.m 7,070 126.88 897,040 171.35 real Canal real Canal cu.m 7,070 126.88 12,000.00 2,640,000 4,000.00 real Canal real Canal cu.m 7,070 126.88 1,284,650 1,354.44 171.35 real Canal real Canal cu.m 7,070 126.88 1,284,650 1,354.44 1,099 1,254.44 1,099 1,284,650 1,354.44 1,099 1,284,650 1,354.44 1,099 1,284,650 1,355.444 1,099 | Irrigation Canal and Farm Road | | | | • | ٠ | - | |
| rripping sq.m 420,000 3.94 1,654,800 1.09 (cavation, in common cu.m 120,000 10.33 1,239,600 3.89 (teral Canal caral Canal sq.m 610,000 3.94 2,403,400 1.09 (cavation, in common cu.m 96,000 10.33 991,680 3.89 (cavation, in common cu.m 96,000 10.33 991,680 3.89 (cavation, in common cu.m 165,000 5.84 963,600 31.55 5, ral Canal canal canal to cu.m 7,070 126.88 897,040 179.72 1, re, type B cu.m 7,070 126.88 897,040 171.35 (ce, type B ton 220 12,000.00 2,640,000 4,000.00 (ce, type B ton 220 12,000.00 1,284,650 1,354.44 (ce, type B ton 350 m 350 6.48 2,270 702.50 | (a) Main Canal | | | | | | | |
| cervation, in common cu.m 120,000 10.33 1,239,600 3.89 beankment cu.m 233,000 5.84 1,360,720 31.55 7, theral Canal sq.m 610,000 3.94 2,403,400 1.09 caration, in common cu.m 96,000 10.33 991,680 3.89 caration, in common cu.m 165,000 5.84 963,600 31.55 5, d Structures for Main Canal ral Canal to ton 7,070 126.88 897,040 179.72 1, to ton 220 12,000,00 2,640,000 4,000,00 xcing bar ton 350 1,284,650 1,354.44 sipe, 1350 mm dia. m 350 6.48 2,270 702.50 | Stripping | e os | 420,000 | 3.94 | 1,654,800 | 1.09 | 457,800 | |
| teral Canal tripping ccavation, in common cu.m 610,000 3.94 2,403,400 1.09 ccavation, in common cu.m 96,000 10.33 991,680 3.89 ccavation, in common cu.m 165,000 10.33 991,680 3.89 dastructures for Main Canal ral Canal tral Canal tral Canal cu.m 165,000 10.33 991,680 3.89 dastructures for Main Canal ral Canal tral Canal cu.m 7,070 126.88 897,040 179.72 1, ton 220 12,000,00 2,640,000 4,000.00 xtcing bar ton 512 2,509.08 1,284,650 1,354.44 sipe, 1350 mm dia. m 350 6.48 2,270 702.50 | Excavation, in common | cu.m | 120,000 | 10.33 | 1,239,600 | 3.89 | 466,800 | |
| teral Canal ripping ccavation, in common cu.m 610,000 3.94 2,403,400 1.09 ccavation, in common cu.m 96,000 10.33 991,680 3.89 de Structures for Main Canal real Canal real Canal te, type A cu.m 7,070 126.88 897,040 179.72 1, to, type B cu.m 7,070 126.88 897,040 179.72 1, ton 220 12,000,00 2,640,000 4,000,00 2,640,000 4,000,00 2,640,000 4,000,00 2,640,000 4,000,00 2,640,000 4,000,00 2,640,000 4,000,00 2,000,0 | Embankmen t | en-no | 233,000 | 5.84 | 1,360,720 | 31.55 | 7,351,150 | |
| cavation, in common sq.m 610,000 3.94 2,403,400 1.09 cavation, in common cu.m 96,000 10.33 991,680 3.89 dashuncat cu.m 165,000 5.84 963,600 21.55 5, dastructures for Main Canal cu.m 7,070 126.88 897,040 179.72 1, te, type A 7,070 126.88 897,040 171.35 1, te, type B 7,070 126.88 897,040 177.35 1, te, type B 7,070 126.88 897,040 1,70.72 1, te, type B 220 12,000.00 2,640,000 4,000.00 2,640,000 4,000.00 ton 512 2,509.08 1,284,650 1,354.44 2,270 702.50 top, 1350 mm dia. | (b) Lateral Canal | | | | | | | |
| ccavation, in common cu.m 96,000 10.33 991,680 3.89 ibankment cu.m 165,000 5.84 963,600 21.55 5, d Structures for Main Canal 1.26.88 897,040 179.72 1, re, type A 2.880 113.00 438,440 171.35 1, re, type B cu.m 3,880 113.00 4,000.00 4,000.00 re, type B ton 512 2,509.08 1,284,650 1,254.44 ste, 1350 mm dia. m 350 6.48 2,270 702.50 | Stripping | m. 08 | 610,000 | 3.94 | 2,403,400 | 1.09 | 664,900 | |
| d Structures for Main Canal -d Structures for Main Canal -ral Canal -re, type A -te, type B -ton -xeing bar -ton -d Structures for Main Canal -rel Canal | Excavation, in common | m.uo | 96,000 | 10.33 | 991,680 | 3.89 | 373,440 | |
| ral Canal ral Canal rel Ca | Embankment | m.uo | 165,000 | 5.84 | 963,600 | 31.55 | 5,205,750 | |
| ral Canal re. type A cu.m 7,070 126.88 897,040 179.72 1,354 re. type B cu.m 3,880 113.00 438,440 171.35 171.35 ten 220 12,000.00 2,640,000 4,000.00 preing bar ton 512 2,509.08 1,284,650 1,354.44 oipe, 1350 mm dia. m 350 6.48 2,270 702.50 | Related Structures for Main Can | r e | | | | | | |
| te, type A cu.m 7,070 126.88 897,040 179.72 1, te, type B cu.m 3,880 113.00 438,440 171.35 ton 220 12,000.00 2,640,000 4,000.00 co.ncing bar ton 512 2,509.08 1,284,650 1,354.44 ton 350 6.48 2,270 702.50 | & Lateral Canal | | | | | | | |
| rte, type B cu.m 3,880 113.00 438,440 171.35 ton 220 12,000.00 2,640,000 4,000.00 orcing bar ton 512 2,509.08 1,284,650 1,354.44 of 2,270 702.50 | Concrete, type A | m-no | 7,070 | | 897,040 | 179.72 | 1,270,620 | |
| ton 220 12,000.00 2,640,000 4,000.00 20 20 12,000.00 20 20 20 20 20 20 20 20 20 20 20 20 2 | type | m.uo | 3,880 | | 438,440 | 171.35 | 664,840 | |
| ton 512 2,509.08 1,284,650 1,354.44 m 350 6.48 2,270 702.50 | Metal | ton | 220 | 12,000,00 | 2,640,000 | 4,000.00 | 880,000 | |
| m 350 6.48 2,270 702.50 | Reinforcing bar | ton | 512 | 2,509.08 | 1,284,650 | 1,354.44 | 693,470 | |
| | R.C. pipe, 1350 mm dia. | E | 350 | 6.48 | 2,270 | 702.50 | 245,880 | |

| | | • | Unit Price | Anount | Unit Price | Amount | - |
|---|-------|---------|------------|------------|------------|------------|---|
| | | | | | | | |
| Trainson Canal | ٠ | | | | | | |
| | | | | | | | |
| Excavation, in common | m. uo | 310,000 | 10.33 | 3,202,300 | 3.89 | 1,205,900 | |
| Field drain | ພ ກວ | 29,000 | | | 15.71 | 455,590 | |
| | | | • | | | | |
| Related Structures for Drainage (| Canal | · | | | | | |
| G | | | | - | | | |
| Concrete, type A | m-no | 2,000 | 126.88 | 253,760 | 179.72 | 359,440 | |
| Concrete, type B | e no | 800 | 113.00 | 90,400 | 171.35 | 137,080 | |
| Metal | top | 4 | 12,000.00 | 480,000 | 4,000.00 | 160,000 | |
| Reinforcing bar | ton | 95 | 2,509.08 | 238,360 | 1,354.44 | 128,670 | |
| | | ur. | | | | | • |
| Land Clearing and Grading | ha | 20 | 1,765.80 | 83,790 | 519.40 | 25,970 | |
| Hood Works | | | <u>.</u> | | | | |
| nega works | | | | | | | |
| Cabilogan head works | m no | 1,425 | 113.00 | 161,030 | 171.35 | 244,170 | - |
| South Quinali bead works | m.no | 2,025 | 113.00 | 228,830 | 171.35 | 346,980 | |
| Relating structures | L.S. | | | 557,300 | | 454.100 | |
| (16 nos. sluiceway, 8 nos. irrigation intake) | | | | | • | | |
| | | | | | | | |
| Gate Work | | | | | | | - |
| | | | | | | | |
| Cabilogan head works (35m x 2.5m)L.S. |)L.S. | | | 2,275,000 | | 0 | |
| | | | | • | | | |
| South Quinali head works (55m x 2.5m) | . 5m) | | | | | | |
| | Ľ.S. | | | 3,575,000 | | 0 | |
| Sub total (1) | | | • | 25,021,970 | | 27 775 550 | |

| (2) General (10% of (1)) (3) Supervision and Miscellaneous (6% of (1) to (2)) (4) Profit (10% of (1) to (3)) (5) Contractor's Tax (3% of (1) to (4)) Sub total (Contract Cost) 2. Engineering Cost (10% of Item 1.) 3. Project Management Cost (5% of Item 1.) 4. Contingency (1) Physical Contingency (20% of Item 1.) (2) Price Escalation (F/C: 7%, L/C: 13%) | 2,502,200 1,651,450 1,651,450 29,175,620 5,835,120 | Unit Price Amour 2,177, 1,436, 5,456, 5,456, 5,477, | Amount 2,177,260 1,436,990 25,386,800 5,456,240 2,728,120 5,077,360 | Romarks 254,562,420 |
|---|--|---|---|-------------------------------|
| | 35,010,740 | | 38,648,520 | ₽73,659,260 |

()

| (Unit: Pesos) | Remarks | | | | | | | | • | | | | | | | ÷ | | | | |
|--|--------------------------------------|------------------|-----------------|--------------------------------|----------------|-----------|-----------------------|------------|-------------------|-----------|-----------------------|------------|---|------------------|------------------|-----------|-----------------|-------------------------|----------------|----------|
| CONTOUR OF THE TOTAL OF THE CONTOUR OF THE PROPERTY OF THE PRO | Local Currency Price Amount | | | | | 195,110 | 256,740 | 2,460,900 | | 297,570 | 210,060 | 3,407,400 | | 431,330 | 257,030 | 360,000 | 284,430 | 126,450 | | |
| ATAY (A) TAYAN | Local Unit Price | | | | | 1.09 | 3.89 | 31.55 | | 1.09 | 3.89 | 31.55 | • | 179.92 | 171.35 | 4,000.00 | 1,354.44 | 702.50 | | |
| W FORMS , SO | Jurroncy | | | | | 705,260 | 681,780 | 455,520 | | 1,075,620 | 557,820 | 630,720 | | 304,510 | 169,500 | 1,080,000 | 526,910 | 1,170 | | |
| 110011111111111111111111111111111111111 | Poroign Currency Unit Price Amoun | | | | | 3.94 | 10.33 | 5.84 | | 3.94 | 10.33 | 5.84 | | 126.88 | 113,00 | 12,000.00 | 2,509.08 | 6.48 | | |
| 1 1 | Quantity | | | | | 179,000 | 99,000 | 78,000 | | 273,000 | 54,000 | 108,000 | : | 2,400 | 1,500 | 90 1 | 210 | 180 | | |
| | Unit | | | | | a. ps | en. | cu.m | | m. ps | m. ao | E 70 | ر. تا | m-no | eu.mo | ton | top | £ | | |
| | Description | 1. Contract Cost | (1) Direct Cost | Irrigation Canal and Farm Road | (a) Main Canal | Stripping | Excavation, in common | Embankment | (b) Lateral Canal | Stripping | Excavation, in common | Embankment | Rolated Structures for Main Canal & Lateral Canal | Concrete, type A | Concrete, type B | Metal | Reinforcing bar | R.C. pipe, 1350 mm dia. | Drainage Canal | . |

| Description | Unit | Oughtity | Foreign Currency | Surrency | | Currency | Romarica |
|--|-------------|----------|------------------|------------|------------|-----------|------------------------|
| | | C | Unit Price | Amount | Unit Price | Аточис | - Court Property Court |
| | w•no | 009,6 | | | 15.71 | 150,820 | |
| Related Structures for Drainage Canal | Canal | | | | | | |
| | cu.m | 290 | 126.88 | 36,800 | 179.72 | 52,120 | |
| | m-no | 120 | 113.00 | 13,560 | 171.35 | 19,360 | |
| | t o t | 9 | 12,000.00 | 72,000 | 4,000.00 | 24,000 | |
| | ton | 14 | 2,509.08 | 35,130 | 1,354.44 | 18,960 | |
| Land Clearing and Grading | ha | 380 | 1,765.80 | 671,000 | 519.40 | 197,370 | |
| | · | | | | | | |
| Bantayan head works | | | | | | | |
| | m.uo | 825 | 113,00 | 93,230 | 171.25 | 141,360 | |
| ÷ | r.s. | | | 2,548,000 | | • | |
| | ٤ | 19 | 304.00 | 5,780 | 982.00 | 18,660 | |
| Sub total (1) | | | | 10,289,280 | | 9,145,020 | |
| General (10% of (1)) | | ·. | | 1,028,930 | | 914,500 | |
| Supevision and Miscellaneous (6% of (1) to | % of (1) to | 0 (2)) | | 679,090 | | 603,570 | |
| (4) Profit (10% of (1) to (3)) | | | | • 1 | | 1 | |
| | • | | | | | | |

| Description Unit Quantity | Poreign Curr Unit Price | ıt Unit | Local Currency Price Amount | Romarks |
|---|----------------------------|------------|--------------------------------|-------------|
| (5) Contractor's Tax (3% of (1) to (4)) | | | | |
| Sub total (Contract Cost) | 11,99 | 1,997,300 | 10,663,090 | P22,660,390 |
| Engineering Cost (10% of Item 1.) | | 1 | 2,266,040 | |
| Project Management Cost (5% of Item 1.) | | • | 1,133,020 | |
| Contingency | | | | |
| (1) Physical Contingency (20% of Item 1.) | 2,39 | 2,399,460 | 2,132,620 | |
| (2) Price Escalation (F/C: 7%, L/C: 13%) | | | . • | |
| Total Estimated Project Cost | 14,39 | 14,396,760 | 16,194,770 | ¥30,591,530 |
| | | | | |

,**-** ·

II. UNIT PRICE BREAKDOWN

And the state of t

| | | | Financial Cost | ol Cost | Economic Cost | Cost |
|---------|---------------------------|-------|--------------------|------------------|--------------------|------------------|
| | Description | Unit | Foreign (Pesos) | Local (Pesos) | Foreign (Pesos) | Local (Pesos) |
| 1. Sabo | Sabo Works | | | | | |
| s-001 | Excavation, common | m. no | 14.60 | 8.06 | 14.60 | 4.62 |
| S-002 | Excavation, rock | m.uo | 45.49 | 54.73 | 45.49 | 40.51 |
| S-003 | Backfill | m.uo | 13.88 | 12.17 | 13.88 | 9.20 |
| S-004 | Embankment | m.uo | 16.01 | 9.85 | 16.01 | 6.08 |
| S-005 | Riprap bedding | m.uo | 17.07 | 28.93 | 17.07 | 24.90 |
| S-006 | Concrete, type A | m.uo | 172.38 | 233.33 | 172.38 | 186.31 |
| S-007 | Rubble concrete | m.uo | 138.69 | 186.87 | 138.69 | 149.35 |
| 8-008 | Backfill concrete, type B | m. no | 144.00 | 215.06 | 144.00 | 175.55 |
| 8-009 | Concrete, type B | cu.m. | 113.00 | 203.54 | 113.00 | 171.35 |
| S-010 | Concrete, type A | m no | 126.88 | 216.37 | 126.88 | 179.72 |
| s-011 | Concrete, type C | m. uo | 156.94 | 243.43 | 156.94 | 198.06 |
| S-012 | Formwork, Fl | m bs | | 40.42 | | 40.42 |
| \$-013 | Formwork, F2 | sg. m | | 86.22 | | 86.22 |
| S-014 | Reinforcing bar | ton | 2,509.08 | 2,190.80 | 2,509.08 | 1,354.44 |
| S-015 | Waterstop, width 300 mm | E | 80.00 | 26.30 | 80.00 | 6.30 |
| S-016 | Joint filler | m•ps | 54.60 | 17.35 | 54.60 | 3.70 |
| S-017 | R.C. pipe, 300 mm dia. | Ħ | 2.78 | 60.43 | 2.78 | 52.84 |
| 8-018 | R.C. pipe, 600 mm dia. | E | 4.63 | 188.55 | 4.63 | 163.16 |
| | | | | | | |

| S-019 Wet-rubble masonry, spur dike S-020 Wet-rubble masonry, levce S-021 Weep hole, 50 mm dia. S-022 Crib work S-050 Spoil banking, sand & gravel S-050 Blasting | | | (Pesos) | Poreign Local Poreign (Pesos) (Pesos) | (Pesos) | Foreign Local (Pesos) |
|---|---|----------|---------|---|---------|-----------------------|
| | spur dike | ម. ភូ | 19.88 | 53.06 | 19.88 | 48.75 |
| | levce | g. bs | 17.32 | 46.56 | 17.32 | 42.25 |
| | | E | 28.00 | 10.21 | 28.00 | 3.21 |
| | | € : | 16,41 | 15.50 | 16.41 | % 1 |
| | | | | | | |
| | k gravel | m. n. | 0.54 | 0.51 | 0.54 | 0.38 |
| | | m. m. | 16.80 | 39.36 | 16.80 | 31.90 |
| S-053 Spoil banking, rock | | ພະກວ | 0.76 | 0.62 | 92.0 | 0.44 |
| S-054 Filling with hand, sand & gravel | and & gravel | m-no | | 4.78 | | 4.78 |
| S-055 Backfilling cobble st | Backfilling cobble stone behind wet masonry | cu.m | 0.77 | 61.74 | 22.0 | 61.61 |
| S-056 Filling with hand, rock & rubble | ock & rubble | er no | | 8.01 | | 8.01 |
| S-057 Excavation with hand, sand & gravel | , sand & gravel | m.uo | | 15.71 | | 15.71 |
| S-058 Excavation with hand, weathered rock | , weathered rock | en.m | 18.91 | 20.24 | 18.91 | 15.66 |
| S-059 Excavating rock with hand | hand | ຕຸ ກວ | 21.11 | 53.30 | 21.11 | 48.18 |
| S-060 Concrete material, type A | уре А | cu.m | 99.44 | 167.14 | 99.44 | 137.31 |
| S-061 Mixing concrete with portable batcher, 0. | portable batcher, 0.75cu.m | m.uo | 26.77 | 22.09 | 26.77 | 15.86 |
| S-062 Carrying concrete with agitator truck, | th agitator truck, 1.7cu.m | cu.m | 21.42 | 11.32 | 21.42 | 6.24 |
| S-063 Placing concrete with concrete bucket | concrete bucket | m.uo | 24.75 | 31.34 | 24.75 | 25.46 |
| S-064 Curing concrete with mat | mat | cu.m | | 1.44 | | 1.4 |
| S-065 Placing rubble stone | | m. uo | 20.52 | 26,55 | 20.52 | 21.60 |
| | | | | | | |
| | | | | | | |

| 0 0 0 | Local (Pesos) | 16.89 | 128.94 | 23.07 | 128.94 | 17.90 | 155.65 | | 7.98 | 4-99 | 23.66 | 5.11 | 7.99 | 80.26 | 20,300 | 11,900 | 4,800 | 56.11 |
|----------------|--------------------|-----------------------------------|---------------------------|------------------|---------------------------|---|---------------------------|----------------------------|--------------------|------------|------------|--------------------|--------------------|-------------------------------|-----------|-------------|----------------|------------|
| Economic Cost | Foreign (Pesos) | 17.07 | 85.56 | 10.25 | 85.56 | 17.19 | 129.50 | | 31.64 | 16.06 | | 19-53 | 29.67 | 61,34 | | 17.500 | 7,000 | 160.64 |
| Cost | Local (Pesos) | 20.92 | 154.61 | 25.60 | 154.61 | 21.89 | 194.50 | | 15.48 | 8.77 | 23.66 | 9.73 | 14.98 | 94.93 | 29,700 | 17,500 | 7,000 | 106.51 |
| Financial Cost | Foreign (Pesos) | 17.07 | 85.56 | 10.25 | 85.56 | 17.19 | 129.50 | | 31.64 | 16.06 | | 19.53 | 29.67 | 61.34 | 29,400 | 17,500 | 7,000 | 160.64 |
| | Unit | m.uo | m-no | Cu.m. | m.uo | u no | a.uo | | cu.m | m.uo | e o | m.uo | m.uo | m-no | . ou | E | E | E |
| | Description | Supply rubble stone from riverbed | Concrete material, type B | Placing concrete | Concrete material, type B | Mixing concrete with light mixer, O.2cu.m | Concrete material, type C | 2. River Improvement Works | Excavation, common | Embankment | Sod facing | Excavation, common | Excavation, common | Removal of existing headworks | Sluiceway | Road bridge | Railway bridge | Sheet pile |
| | | S-066 | S-067 | S-068 | 690 - 8 | S-070 | S-071 | 2. Riv | R-001 | R-002 | R-003 | R-004 | R-005 | R-006 | R-007 | R-009 | R-010 | R-008 |

| Economic Cost Foreign Local | 1.09 3.89 | 31.55 702.50 | 15.71 | 454,100 | |
|--------------------------------|-----------------|--|---|----------------------------|--|
| Econom Foreign | 3.94 | 5.84 6.48 | 1,765.80 | 557,300 26,000.00 | |
| Financial Cost eign Local | 2.01 | 33.22 | 15.71 | 643,200 6,500.00 | |
| Financie Foreign | 3.94 | 5.84 4.48 | | 1 T | |
| Unit | m•n o | ω•πο | eq. | 20. T | |
| | | | | | |
| Description Irrigation Works | Service Service | Embankment R.C. pipo, 1,350 mm dia. | Excavation, common, field drain Land levelling and grading | Relating structure Gate | |
| | I-001 I-002 | I-003 | I-005 I-006 | I-007 | |

TABLE-11.2 ESTIMATED HOURLY CONSTRUCTION EQUIPMENT COST

| | | | Purchase | Freight | Insurance | CIF | CIP | Market | Economic | Hours | Ownership | Estimated | • | perating & | Owning Cost | |
|-------------------------------|-----------------------|-------|--------------------|---------|-----------|---------|---------|-----------|----------|----------------|----------------------|---------------------|-----------|------------|-------------|-----------|
| Equipment | Spec. | M/T | Price | | | Mánila | Manila | Price | Life | Used Yearly | Rate | Hourly Ownership | Poreign | | | |
| | | | (F.O.B) (1000¥) | (1000¥) | (1000¥) | (1000¥) | (Pesos) | (Pesos) | (Hrs) | (Hrs) | (x10 ⁻⁶) | Cost | rorerga | Local | Tax | Sub-total |
| Bulldözer W/R | 21 t | 41.9 | 26,900 | 838 | 269 | 28,007 | 933,567 | 1,260,315 | 6,600 | 1,100 | 352 | 443.63 | 288.36 | 88.73 | 66.54 | 155.27 |
| Bulldozer | 11t | 31.5 | 12,000 | 630 | 120 | 12,750 | 425,000 | 573,750 | 6,600 | 1,100 | 352 | 201.96 | 131.27 | 40.39 | 30.30 | 70.69 |
| Bulldozer | 3t | 7.5 | 4,350 | 150 | 44 | 4,544 | 151,467 | 204,480 | 4,000 | 800 | 513 | 104.90 | 68.19 | 20.98 | 15.73 | 36.71 |
| Backhoe | 0.2m ³ | 28.0 | 6,450 | 560 | 65 | 7,075 | 235,833 | 318,375 | 5,000 | 1,000 | 380 | 120.98 | 78.64 | 24.20 | 18.14 | 42.34 |
| Backhoe | 0.4m^3 | 52.8 | 12,800 | 1,056 | 128 | 13,984 | 466,133 | 629,280 | 6,500 | 1,300 | 308 | 193.82 | 125.98 | 38.76 | 29.08 | 67.84 |
| Backhoe | $0.6m^3$ | 69.8 | 15,800 | 1,396 | 158 | 17,354 | 578,467 | 780,930 | 6,500 | 1,300 | 308 | 240.53 | 156.34 | 48.11 | 36.08 | 84.19 |
| Tractor shovel | $1.4m^3$ | 28.1 | 11,350 | 562 | 114 | 12,026 | 400,867 | 541,170 | 6,600 | 1,100 | 359 | 194.28 | 126.28 | 38.86 | 29.14 | 68.00 |
| Tractor shovel | 1.8m ³ | 37.7 | 14,800 | 754 | 148 | 15,702 | 523,400 | 706,590 | 6,600 | 1,100 | 359 | 253.67 | 164.89 | 50.73 | 38.05 | 88.78 |
| Dump truck | 6t | 41.2 | 6,000 | 824 | 60 | 6,884 | 229,467 | 309,781 | 6,000 | 1,500 | 367 | 113.69 | 73.90 | 22.74 | 17.05 | 39.79 |
| Dump truck | 8t | 45.4 | 8,000 | 908 | 80 | 8,988 | 299,600 | 404,460 | 6,400 | 1,600 | 328 | 132.67 | 86.24 | 26.53 | 19.90 | 46.43 |
| Dump truck | 10t | 56.4 | 8,600 | 1,128 | 86 | 9,814 | 327,133 | 441,630 | 6,800 | 1,700 | 309 | 136.46 | 88.70 | 27.29 | 20.47 | 47.76 |
| Truck crane (M) | 15t | 85.9 | 23,000 | 1,718 | 230 | 24,948 | 831,600 | 1,122,660 | 6,600 | 1,100 | 276 | 309.85 | 201.40 | 61.97 | 46.48 | 108.45 |
| Truck crane (M) | 20 t | 99.9 | 26,500 | 1,998 | 265 | 28,763 | 958,767 | 1,294,335 | 6,600 | 1,100 | 276 | 357.24 | 232.21 | 71.45 | 53.58 | 125.03 |
| Truck crane (H) | 15t | 85.9 | 21,000 | 1,718 | 210 | 22,928 | 764,267 | 1,031,760 | 6,600 | 1,100 | 276 | 284.77 | 185.10 | 56.95 | 42.72 | 99.67 |
| Truck crane (H) | 20 t | 99.9 | 25,500 | 1,998 | 255 | 27,753 | 925,100 | 1,248,885 | 6,600 | 1,100 | 276 | 344.69 | 224.05 | 68.94 | 51.70 | 120.64 |
| Hand hammer | 20kg | 0.2 | 200 | 4 | 2 | 206 | 6,867 | 9,270 | | | (a)4,500 | (d) 41.72 | (d) 27.12 | (a) 8.34 | (d) 6.26 | (d) 14.60 |
| Pick hammer | 7kg | 0.1 | 30 | 2 | | 32 | 1,067 | 1,440 | | | (d)4,500 | (d) 6.48 | (d) 4.21 | (d) 1.30 | (d) 0.97 | (d) 2.27 |
| Crawler drill | 7m3/min | 6.5 | 6,300 | 130 | 63 | 6,493 | 216,433 | 292,185 | 4,000 | 1,000 | 470 | 137.33 | 89.26 | 27.47 | 20.60 | 48.07 |
| Crawler drill | 10m ³ /min | 10.1 | 8,200 | 202 | 82 | 8,484 | 282,800 | 381,780 | 4,000 | 1,000 | 470 | 179.44 | 116.64 | 35.89 | 26.91 | 62.80 |
| Vibration Roller | 1t | 2.7 | 1,500 | 54 | 15 | 1,569 | 52,300 | 70,605 | 3,750 | 750 | 520 | 36.71 | 23.87 | 7.34 | 5.50 | 12.84 |
| Vibration Roller | 3~4t | 9.2 | 4,000 | 184 | 40 | 4,224 | 140,800 | 190,080 | 3,750 | 750 | 471 | 89.53 | 58.19 | 17.91 | 13.43 | 31.34 |
| Tamper, Rammer | 60~100kg | 0.5 | 250 | 10 | 3 | 263 | 8,767 | 11,835 | | | (d)4,167 | (d) 49.32 | (d) 32.06 | (a) 9.86 | (d) 7.40 | (d) 17.26 |
| Portable Conc. Mix | | 110.0 | 10,500 | 2,200 | 105 | 12,805 | 426,833 | 576,224 | 4,000 | 800 | 463 | 266.78 | 173.41 | 53.36 | 40.02 | 93.38 |
| Concrete Mixer | $0.08m^3$ | 3.0 | 150 | 60 | 2 | 212 | 7,067 | 9,540 | | | (d)3,083 | (d) 29.41 | (a) 19.12 | (d) 5.88 | (d) 4.41 | (d) 10.29 |
| Concrete Mizer | 0.15m ³ | 11.3 | 1,500 | 226 | 15 | 1,741 | 58,033 | 78,345 | | | (a)3,083 | (d)241.54 | (d)157.00 | (d) 48.31 | (d) 36.23 | (d) 84.54 |
| Agitator truck | 1.9m3 | 32.5 | 4,500 | 650 | 45 | 5,195 | 173,167 | 233,775 | 4,500 | 900 | 400 | 93.51 | 60.78 | 18.70 | 14.03 | 32.73 |
| Agitator | 3.2m ³ | 58.1 | 6,500 | 1,162 | 65 | 7,727 | 257,567 | 347,715 | 5,000 | 1,000 | 360 | 125.18 | 81.37 | 25.04 | 18.77 | 43.81 |
| Air Compressor | $3.5m^3/min$ | 7.0 | 2,000 | 140 | 20 | 2,160 | 72,000 | 97,200 | | | (d)2,500 | (d)243.00 | (d)157.95 | (a) 48.60 | (d) 36.45 | (d) 85.05 |
| Air Compressor | 7m ³ /min | 11.7 | 4,000 | 234 | 40 | 4,274 | 142,467 | 192,330 | | i . | (4)2,500 | (d)480.83 | (d)312.54 | (d) 96.17 | (d) 72.12 | (d)168.29 |
| Air Compressor | 10m ³ /min | 15.4 | 5,600 | 308 | 56 | 5,964 | 198,800 | 268,380 | | | (d)2,500 | (d)670.95 | (a)436.12 | (d)134.19 | (d)100.64 | (d)234.83 |
| Conc. Vibrator | 45m/m | 0.1 | 150 | 2 | 2 | 154 | 5,133 | 6,930 | | | (d)4,028 | (d) 27.91 | (d) 18.14 | (a) 5.58 | (d) 4.19 | (d) 9.77 |
| Velt Conveyor 10 ^m | 4PS | 1.5 | 250 | 30 | $\bar{3}$ | 283 | 9,433 | 12,735 | | and the second | (d)8,667 | (4)110.38 | (d) 71.75 | (d) 22.08 | (a) 16.55 | (a) 38.63 |
| Water Sprinkler | 1750 | 15.8 | 2,500 | 316 | 25 | 2,841 | 94,700 | 127,845 | 6,000 | 1,200 | 333 | 42.57 | 27.67 | 8.51 | 6.39 | 14.90 |
| Water Sprinkler | 5500£ | 38.5 | 5,000 | 770 | 50 | 5,820 | 184,000 | 261,900 | 6,000 | 1,200 | 333 | 87.21 | 56.68 | 17.44 | 13.09 | 30.53 |
| Motor Grader | 3.1m | 37.4 | 11,500 | 748 | 115 | 12,363 | 412,100 | 556,335 | 6,000 | 1,000 | 353 | 196.39 | 127.65 | 39.28 | 29.46 | 68.74 |
| ozalisti. | 20kVA | | 2,800 | | | 3,024 | 100,800 | 136,080 | | | (a)1,905 | 259.23 | 168.50 | 51.85 | 38.88 | 90.73 |
| Generator | 15 ton | * ** | 15,300 | | | 16,218 | 540,600 | 729,810 | | | 352 | 256.89 | 166.98 | 51.38 | 38.53 | 89.91 |
| Bulldozer | I) WIL | | 6,600 | | | 6,996 | | 314,820 | | | 317 | 99.80 | 64.87 | 19.96 | 14.97 | 34.93 |
| Tamping roller | | * | 0,000 | 14 | | 0,550 | 200 | 22.,020 | | | | ,,,,,, | J | -7.70 | | |