| HORKS UI | ÷ | | | | | | | | | ÷ | (1/3) |
|-----------------------|---------------|----------------------|--------------------|-------------------|-----------------------|-------------------|--------------------|-------------------|-------------------|------------------|------------|
| | 9 LINN WNS | SUMBARI RAL 60008 | RAUNING B 60038 | S. BERA. 50025 | SIDOMUKUTI A 50057 | EK PALIA 50091 | PAM. B AE 50129 | EK SIPA. 50141 | KUTAMALE 50218 | ASAHAN 8 A 50240 | EK SIHIM |
| 1. GENERAL ITEMS ha | ત્ય | 17 | 66 | 124 | 27 | 8 3 3 | 4 8 | 26 | 40 | 66 | 40 |
| 2.DIRECT CONSTRUCTION | | | | | | | . ' | | | | • |
| Clearing ha | ಲ್ | 32 | ÷. | | ŝ | ţ | ຕ າ | | ~~ | 13 | 80 |
| Leveling S | | 42 | 47 | • | . | ц СС С | ຕ່ | 5 | 00 1 1 | 19 | 8 |
| Formatting | | 42. | 11 | | ີ. ເກ | ŝ | ŝ | | ∞. | 19 | ∞ |
| Weir (LOW) h≒ m | | | | | • • | | Re | Reha. 20m | | | 15 |
| Weir (midle)h= m | | | | | h=1.0 m | | h=2.5 m ¥ | Weir up | Rehabili. | · | |
| (high) h= m | | | | | 8 80 | • | +. | | Spillway | | |
| Intake gate n | nos | | | | 67 | •. • | | | , 1 | | |
| Excavation m | <u>в</u> 3 | | | | | | | | ιņ | | |
| t Work | nos | | | | | | | | | | |
| Rehabili Apronnos | 0.0 | | | | : | 1 | | | | | |
| New Canal I m | | 200 | 500 | | | | | | | | |
| Canal II m | | | | | 200 | | 500 | | - , | 600 | |
| Canal III m | | | | : | | | | | | - | |
| Reh. Canal I m | | | | 1,000 | · · · · | | | 400 | | | |
| Canal II m | | | | | | 800 | | · . | 600 | 600 | 1,200 |
| S.Del.Canal m | - 2 | 2,000 | 2,900 | | 2,000 | 200 | 2,150 | 100 | 400 | 1,000 | 400 |
| Turnout n | nos | | | 7 | 4 | | | | • 1 | | 2 |
| Culvert n | nos | 2 | 2 | | 2 2 | · . | 2 | | | 9 | ର ୀ |
| O&M ROAD m | | | 300 | | 750 | | 800 | 200 | 200 | • | 800 |
| Aqua-Duct m | | | a. | · . | | | | | | Pump 2 set | |
| Base | set . | | | | | | ••• | | | @2.7m3/mi | |
| Canal Cover m | ~ * | | | | | | | | | | • |
| • | | | | | | | | | | | |

| (2/3) | MARIRI 10354 | 63 23 | | | 29 | 29 | h=1.0 m | 17 | | | , | | | 1,500 | | 600 | | 600 | | | | | | |
|----------------|---------------------------------|------------------|------------------------|------------|-----|------------------|----------------|---------|-------------|------------|--------------------|--------------------|-------------|----------|-----------|--------------|----------|-------------|---------|---------|----------|------------|----------|-------------|
| | SALU AKUNG 10332 | 26 | | | | · | h=2.0 m | 12 | | | - -4 | | •. | | | | 500 | | | | 550 | | | |
| | MAL IMBU SAI 10287 | 32 | | | | • | h=1.0 m h= | 40 | : . | | , -1 | | | 100 | | | 400 | | ۲≁ | | | | | |
| | PADAELO 10227 | 138 | | 41 | 61 | 61 | | | | | . : | | 1,000 | 2,000 | | | | 4,500 | | | | PUMP 4 set | .0m3/min | |
| | PAKELLI II 10201 | С 4, | | 16 | 35 | 35 | ћ=0.8 ш | 50 | | | Ч | | | | | 600 | : | 1,600 | | .च | 400 | ਜ | ø | |
| | MARIO. P. 10182 | 57 | 1.4 | | · 1 | 1 | h=0.5 m] | 01 | 2 | | | | | 400 | | | 800 | 400 | | | 300 | - | | |
| | PANRITA 10168 | ະດ ຜ | ÷. | | 2 | 2 | e | Rehabi. | L=7.0 m | | | | | | | | 400 | 100 | | | | | | |
| | LEM. BATA 1 10140 | 76 | | ₹ ¥ | 4 | ∙ej t | .5 m | 30 1 | ü | · | ي ئيو | | | 006 | | | 600 | 200 | ιQ | | | | | |
| lawesi | KAINDI LEN 10115 | 71 | | | 57 | 57 | h=1.0 m x2 h=1 | 6+15 | | | 2 | | | | | | 600 | 2,700 | | ო | 2,000 | | | |
| South Sulawesi | | 224 | · · · · | | 53 | 53 | | 30 | | | F-1 | | | | | 4,000 | | 2,500 | ω | - | 2,000 | | | |
| | PAJJENGE KADIENG 10055 10099 | 143 | | | | | h=0.5 m] | 28 | | | | | | | • | 1,000 | | | ന | ŝ | 1,400 | | | |
| | KALU 1 20003 | | · | | 23 | 23 | | | | | | | | | | 500 | : | 1,100 | | 2 | 400 | | | |
| | UNIT | ha | NOIL | ha | S | | đ | E | nos | ш3. | ork nos | pronnos | u | Ē | E | 8 | H | E | nos | nos | e | E | set | Ē |
| | HORKS | 1. GENERAL ITEMS | 2. DIRECT CONSTRUCTION | Clearing | | Formatting | Weir HEIGHT h= | LENGTH | Intake gate | Excavation | Revetment Work nos | Rehabili. Apronnos | New Canal I | Canal II | Canal III | Reh. Canal I | Canal II | S.Del.Canal | Turnout | Culvert | O&M ROAD | Aqua-Duct | Base | Canal Cover |

West Nusa Tenggara

| | | | 1 | 1 1 1 1 1 1 1 | | | 1 | | | (3/3) |
|------------------------|-----------------|---------------------|--------------------------|---------------------------------|--------------|------------------------------------|---|---|---|--------------------------------|
| HORKS | LINU | D. JENGK A 45010 | M. MANINI 32013 | UMA L 3 | EBANGL. | TRIPAS 34004 | L. DUDU 35035 | K. UDANG 35045 | R. SANGGA 36016 | M. SAPAH 37003 |
| 1. GENERAL ITEMS | स मुप्त र | 120 | 70 | | 89 | 34 | 2 (| 111 | | ၊ က ၊ က ၊ ၊ ၊ ၊ |
| 2. DIRECT CONSTRUCTION | N 0 1 | | | | | | | | | |
| Clearing | ra L | 10 11 11 | | | | - | 5 | | | |
| Leveling n | | 115 | | | 21 | | 5 | 9 | • | |
| Formatting | | 115 | | | 21 | · | 2 | 9 | | |
| Weir (midle)h= | 8 | h=1.2 W | h≍0.8 m | h=1. | 5 m h | =1.9 m | h=4.0 m | h=0.5 m | | h=0.9 m |
| Length | e | 10 | 12 | | 7 | 1 | 20 | ¢ | | 10 |
| Intake gate | nos | : ref | | | • • | | Frid | • | | |
| Excavation | ш.3 С | 3,000 | | | | | | | | |
| Revetment Work | k nos | | ***** | • | r ‡ | | . | . | | - -1 |
| Rehabi. Apron | | | | • | | - | | • | | |
| New Canal I | R | | | | 150 | : | | | 400 | |
| Canal II | E | 2,000 | | | | 100 | • | · | | |
| Canal III | Ē | | | • | | | | | | |
| Reh. Canal I | Ē | 400 | 450 | | 500 | | | 650 | 400 | |
| Canal II | E | | | | | 600 | 30 | | | 350 |
| S.Del.Canal | æ | 5,000 | 400 | | ,000 | •* | 94 | 300 | | 2,300 |
| Turnout | DOS | ်က | | | 1 | 2 | 5 | * | : | · · · |
| Culvert | nos | - +-1 - | ، سبع ۲۰ ۱۰ | | •••• •••• | 2 | | 4 | 2 | 3 |
| O&M ROAD | E | | 009 | 2 | 2,000 | 500 | | 450 | | 350 |
| Aqua-Duct | æ | 2.8 | | | | | | • | | |
| Base | set | ••••• | | | | | | | • | |
| Canal Cover | Ē | 1,000 | : ** | · · | • | • | - - - | · · · | | |
| | • | | | :. · | | | | | | ·. |
| | | | | | | | | | | |

Table VIII-3 SUMMARY OF PROJECT COST FOR REPRESENTATIVE 30 SCHEMES US\$ 1.0=

2 000 D

| | | | | | | | | JS\$ 1.0= | 2.000 | Rp |
|---------|-------|----------------------|-----------|---------|-------|-------|--------------|-----------|-----------|---------------------------------------|
| e e e | CODE | Project Name | I YPE | Irri. A | | 1 | Construction | Proje | ct Cost | (1.000Rp) |
| | | ···· | ļ | Present | Plan | Area | (1000 Rp) | L/C | F/C | Total |
| | | [NIB] | ļ | ha | ha | ha | | | * 54 | |
| | 15010 | Danar Jengkang | Δ4 | 5 | 120 | 227 | 411,885 | 288,621 | 270, 177 | 558, 798 |
| | 32013 | Mada Manini | C2 | 70 | 70 | 98 | 85,021 | 72,091 | 72,506 | 144,597 |
| | B3050 | Uma Lebang | BL | . 68 | 89 | 96 | 98,536 | 86,085 | 86,212 | 172,297 |
| | 84004 | Lokok Tripas | C1 | 34 | 34 | 57 | 50,861 | 42,245 | 39,167 | 81,412 |
| | 85035 | Lengkok Dudu | B1 | 24 | 26 | 45 | 79,982 | 49,679 | 62,489 | 112,168 |
| | 85045 | Kelokos Udang | B5 | 105 | | 128 | 66,855 | 67,371 | 79,836 | 147,207 |
| | 86016 | Raba Sangga | <u>C1</u> | 111 | 111 | 125 | 58,038 | 61,478 | 75.077 | 136,555 |
| | 87003 | Montong Sapah/Puri | Cl | 13 | 33 | 37 | 36,070 | 31, 125 | 32, 198 | 63,323 |
| | | SUB-TOTAL | | 430 | 594 | 813 | 887,248 | 698,695 | 717,662 | 1,416,357 |
| | | [SULAWESI SELATAN] | | | |]i | | | | |
| | 20003 | Kalu | A3 | 47 | 70 | 101 | 66,101 | 50,033 | 43,573 | 93,606 |
| | 10055 | Pajjenge | C1 | 100 | 143 | 160 | 99,114 | 94,891 | 110,435 | 205,326 |
| | 10099 | Kadieng | B1 | 171 | 224 | -270 | 342,922 | 276,691 | 271,590 | 548,281 |
| | 10115 | kaindi | B4 | 67 | 124 | 195 | 133,862 | 117,024 | 118.894 | 235,918 |
| | 10140 | Lembang Bata | B5 | 72 | 76 | 175 | 104.898 | 65,909 | 70.897 | 136,806 |
| · | 10168 | Panrita | B2 | 55 | 65 | 78 | 24,419 | 29,024 | 39,388 | 68.412 |
| | 10182 | Mario I-II-III | B4 | 50 | 57 | 74 | 68,139 | 56.224 | 58.745 | 114,969 |
| | 10201 | Pakelli II | B5 | 19 | 54 | 168 | 117,479 | 86,905 | 87,315 | 174,220 |
| | 10227 | Padae1o | B3 | 77 | 138 | .161 | 283,806 | 207,954 | 210,162 | 418,116 |
| | 10287 | Malimbu | C2 | 0 | 32 | 44 | 46,823 | 33,067 | 42,279 | 75,346 |
| - | 10332 | Salu Akung | C1 | 26 | 26 | 30 | 50,625 | 35,472 | 41.239 | 76,711 |
| • | 0354 | Mariri | B1. | 0 | 63 | 151 | 133, 118 | 98.392 | 94.646 | 193,038 |
| | | SUB-TOTAL | | 684 | 1,072 | 1,607 | 1, 471, 306 | 1,151,586 | 1,189,163 | 2,340,749 |
| | | [NORTH SMATERA] | 1 | | | | | | ļ | · · · · · · · · · · · · · · · · · · · |
| | 60011 | Sumbari | ۸4 | 34 | 77 | 163 | 112,830 | 85,801 | 75,619 | 161,420 |
| | 60038 | Rauning B | Λ2 | 5 | 66 | - 99 | 137,250 | 104,396 | 89,509 | 193,905 |
| | 50025 | Sumbul Berampu | C1 | 124 | 124 | 234 | 101,994 | 93, 418 | 104.010 | 197.428 |
| | 50057 | Sidomukuli | B1 | 12 | 27 | 68 | 48,745 | 38,093 | 36,057 | 74,150 |
| · · · · | 50091 | Aek Palia | B1 | 34 | 38 | 64 | 57,284 | 46,698 | 45,240 | |
| | 50129 | Pangambatan (B) | 82 | 30 | 48 | 56 | 85,673 | 63,453 | 66.535 | 129,988 |
| | 50141 | Aek Siparbu | B4 | 23 | 26 | 37 | 51,993 | 38,885 | 39.478 | 78.363 |
| | 50218 | Kutamale | B4 | 32 | 40 | 69 | 55,443 | 45,805 | 45.108 | 90,913 |
| | 60240 | Asahan VIII | B3 | 45 | 66 | 100 | 136,985 | 100,072 | 102.222 | 202,294 |
| | 50256 | Aek Sihim | B5 | 40 | 48 | 103 | 77,339 | 61,589 | 60,558 | 122,147 |
| | | SUB-TOTAL | | 379 | 560 | 993 | 865,536 | 678,210 | 664, 336 | 1,342,546 |
| | | (1,000 Rp) | 1 | 1,493 | 2,226 | 3,413 |) | 2,528,491 | 1 | 5,099,652 |
| | 1 | TOTAL (1,000 USS) | | | | | 1,612 | 1,264 | 1,286 | 2,550 |
| : | | (US \$ /ila) | | | | | 724 | | <u> </u> | 1,145 |

| ene 60011 60035 50057 50057 50057 FD Af Runing B Sumbul Berampu Sidomikri Sidomikri Yr al. FD Af Runing B Sumbul Berampu Sidomikri Sidomikri Yr al. FD Af Runing B Sumbul Berampu Sidomikri Sidomikri Yr al. Fortin Portion Portion Portion Portion Portion Portion Portion Portion 21:42 1,428 3;70 2.397 1,598 3,775 43.27 10,360 1,377 10,357 2.295 Portion 0 0 0 0 0 0 1,377 <td< th=""><th>•</th><th></th><th></th><th></th><th></th><th></th><th></th><th>North Sumatra</th><th>atra <l></l></th><th></th><th></th><th>Unit : 1.0x3 Rp.</th><th>ß Rp.</th><th></th></td<> | • | | | | | | | North Sumatra | atra <l></l> | | | Unit : 1.0x3 Rp. | ß Rp. | |
|--|--|---------------------------|---|---|--|---|--------------------------------------|---|---------------------------------|---|--|------------------|----------------------------|--|
| Project Cast Project Cast Project Cast Project Cost Prospect Prospect< | Schene | 60011 Sumbari LD A4 | L | 7 5 1 1 2 1 2 3 1 | 60038 Rauning B LD A2 | , , , , , , , , , , , , , , , , , , , | | | rempu | 1 · · · · | 50057 Sidomukti VI B1 | | 6 6 7 8 7 8 | |
| thest 2.142 1.428 3.570 2.397 1.596 3.995 6.324 4.216 10.540 1.377 918 nent 39.628 39.528 79.256 35.199 35.199 70.398 0 0 0 2.683 2.813 3.471 nittles 10 0 0 0 0 0 0 5.914 3.471 nittles 10 0 0 0 0 0 0 5.914 2.739 nittles 16.708 16.868 33.576 32.4354 65.853 152.756 49.237 101.995 14.462 17.397 202 1.142 1.344 2.643 1.516 1.5164 5.173 3.149 7.477 3.31 8.068 1.623 2.863 1.736 7.401 7.34 7.401 7.417 1.737 7.411 7.345 3.740 3.740 3.740 3.740 3.740 3.761 1.737 7.401 8.741 1.777 7.401 8.741 1.777 7.401 8.741 1.777 7.401 | 1 1 2 7 7 7 7 7 1 1 1 1 | Foreign Portion | ect Cost Local Portion | Total | Foreign P | t Cost ocal ortion | Total | Foreign E | at Cost Local Portion | Total | Foreign Foreign Fortion | ocel | Total | |
| ment $39,628$ $39,628$ $79,256$ $35,199$ $37,199$ $70,398$ 0 0 0 0 $2,883$ $2,883$ litties $16,708$ $16,868$ $33,575$ $32,758$ $49,237$ $101,995$ $14,452$ $17,397$ litties $16,708$ $16,868$ $33,575$ $55,336$ $52,758$ $49,237$ $101,995$ $14,452$ $17,397$ litties $16,708$ $15,868$ $33,751$ $53,751$ $52,758$ $49,237$ $101,995$ $14,452$ 1734 litties 202 $1,442$ $1,344$ $2,834$ $31,531$ $53,751$ 5397 31968 1132 734 litties 202 $1,442$ $1,344$ $2,834$ $31,531$ $31,149$ $7,477$ 831 $8,306$ $1,528$ 181 litties $25,332$ $25,422$ $5,642$ $5,642$ $5,642$ $5,642$ $5,642$ $5,642$ $5,642$ $5,427$ $4,953$ $31,903$ $7,976$ $39,676$ $1,737$ litties $10,806$ $2,701$ $13,507$ $12,502$ $3,792$ $3,623$ $4,701$ $5,100$ $5,100$ $5,100$ $5,100$ $5,100$ $5,100$ $5,100$ $5,100$ $5,100$ $5,107$ litties $10,806$ $5,274$ 853 $168,355$ $99,057$ $7,966$ $1,717$ $1,737$ $1,737$ $1,737$ litties $7,010$ $11,002$ $3,100$ $10,100$ $31,702$ $15,010$ $5,100$ $5,100$ $5,100$ $5,100$ </td <td>1 5</td> <td>2,142</td> <td>1 </td> <td>3,570</td> <td>1 2</td> <td>1.598</td> <td>3,995</td> <td>6,324</td> <td>4,216</td> <td>10.540</td> <td>1,377</td> <td>918</td> <td>2,295</td> <td></td> | 1 5 | 2,142 | 1 | 3,570 | 1 2 | 1.598 | 3,995 | 6,324 | 4,216 | 10.540 | 1,377 | 918 | 2,295 | |
| acilities 0 0 0 0 0 6,914 3,471 Structure 16,708 16,868 33,576 32,499 34,534 66,653 52,756 49,237 101,995 14,452 17,397 Structure 16,708 12,868 33,576 32,499 34,531 15,515 52,756 49,237 101,995 24,492 13,97 Sc,335 56,496 112,832 67,56 69,537 101,995 24,492 130 Titon 202 1,144 2,834 315 3,149 7,477 831 8,308 1,628 181 Ition 5,642 5,834 655 655 1,736 1,736 1,737 37,93 Ition 5,642 5,642 12,503 15,115 31,903 7,976 34,71 1,737 Ition 5,642 5,642 6565 1,736 1,736 1,736 1,736 1,737 Ition 5,642 5,642 65,643 16,643 1,736 1,736 1,737 1,737 1,737 1, | 2.1 Land Development | . : | | 79,256 | 35,199 | 35 I99 | 70,398 | 0 | O O | 0 | 2,883 | 2,883 | 5.766 | |
| 16,708 16,868 33,575 32,459 34,554 55,575 49,237 101,995 14,462 17,537 56,335 56,496 112,832 67,698 69,553 137,251 52,775 49,237 101,995 24,259 23,751 202 1,144 2,834 315 3,149 7,477 831 8,908 1,528 181 202 1,144 2,834 315 3,149 7,477 831 8,908 1,63 747 202 1,142 2,834 315 3,149 7,477 831 8,908 16,947 1,30 740 21 5,642 5,642 5,642 5,668 1,756 1,736 1,736 2,401 25,642 5,642 5,643 5,668 1,756 31,903 7,976 39,678 1,137 27 10,806 2,701 13,507 12,092 3,523 5,510 5,100 5,100 5,100 5,100 5,100 5,100 5,100 5,100 5,100 5,100 5,100 5,100 5,100 | ake Facilities | | . • | 0 | 0 | 0 | 0 | 0 | o | 0 | 6,914 | 3,471 | 10,385 | |
| 3133 31,443 1,578 1,504 31,443 1,535 31,73 31,958 1,134 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,534 1,535 3,733 3,958 1,133 1,334 1,534 1,534 1,638 1,658 658 658 658 658 1,736 1,735 3,749 1,735 3,749 1,737 3,749 1,737 3,749 1,737 3,749 1,737 3,749 1,737 3,749 1,737 3,749 1,737 3,749 2,401 3,749 2,401 2,401 2,401 2,401 2,401 1,737 2,401 2,401 2,401 1,737 2,401 2,401 2,731 6,947 1,737 2,401 2,503 3,4,547 3,503 3,4,547 3,503 3,4,564 1,737 1,737 1,737 1,737 1,737 1,737 1,505 3,1,604 1,604 1,717 1,505 3,1,604 1,604 1,604 1,604 1,716 1,716 1,716 1,716 1,716 1,604 1,604 | 50 | | | 33,576 | 32,499 | 34,334 60 660 | 66,853 107 041 | 52,758 40 758 | 49.237 | 101,995 | 14,462 | 17,397 | 31,859 | |
| 2,533 281 $2,814$ $2,834$ 315 $3,149$ $7,477$ 831 $8,308$ $1,628$ 181 ation 588 588 658 658 $1,736$ $1,736$ $3,73$ $5,642$ $5,642$ $5,642$ $5,642$ $5,642$ $5,642$ $2,401$ $5,642$ $5,642$ $5,642$ $5,642$ $5,642$ $5,642$ $2,401$ $5,612$ $5,642$ $5,642$ $5,642$ $5,002$ $3,414$ $7,737$ $72,018$ $68,279$ $140,297$ $85,247$ $8,235$ $99,057$ $7,976$ $39,878$ $6,947$ $1,737$ $72,018$ $68,279$ $12,092$ $3,228$ $168,235$ $99,057$ $7,976$ $39,878$ $6,947$ $1,737$ $72,018$ $68,279$ $140,297$ $85,247$ $8,235$ $99,057$ $7,976$ $39,878$ $6,947$ $1,737$ $72,619$ $14,108$ $14,108$ $14,108$ $16,944$ $16,944$ $16,944$ $17,327$ $17,327$ $36,057$ $31,604$ $75,619$ $85,801$ $161,420$ $89,509$ $104,010$ $93,418$ $197,428$ $36,057$ | 18 IS | 202 | | 1,344 | | 1.278 | 1.504 | 365 | 3,373 | 3,968 | 130 | 734 | 46,010 864 | |
| Dn 588 558 656 1,736 1,736 3,79 Ation 5,642 5,642 6,863 6,863 5,100 5,100 2,401 S,642 5,542 6,863 6,863 5,115 31,903 7,976 39,878 6,947 1,737 rvices 10,806 2,701 13,507 12,092 3,023 15,115 31,903 7,976 39,878 6,947 1,737 rvices 10,806 2,701 13,507 12,092 3,023 15,115 31,903 7,976 39,878 6,947 1,737 rvices 10,806 2,701 13,507 85,247 83,288 168,535 99,057 31,603 34,340 36,057 31,604 rvices 75,619 14,108 14,108 16,944 16,944 17,327 17,327 5,057 5,057 31,604 rvices 14,108 14,108 14,108 16,944 16,944 17,327 17,327 5,057 5,057 36,057 36,057 36,057 36,057 36,057 36,057 | uipments | 2,533 | | 2,814 | • | 315 | 3,149 | 7,477 | 831 | 8,308 | 1,628 | 181 | 1,809 | |
| ation 588 558 658 658 1,736 1,736 378 5,642 5,642 5,642 5,642 5,642 5,642 5,100 5,100 2,401 rvices 10,806 2,701 13;507 12,092 3,023 15,115 31,903 7,976 39,878 6,947 1,737 rvices 10,806 2,701 13;507 12,092 3,023 15,115 31,903 7,976 39,878 6,947 1,737 rvices 10,806 2,7018 68,279 85,247 83,288 168,535 99,057 72,468 1711,525 34,340 30,099 ngency 3,414 7,015 4,522 4,164 5,427 4,953 3,623 36,057 31,604 rx 14,108 14,108 14,103 16,944 16,944 177,327 17,327 5,057 31,604 rx 14,108 14,108 16,944 16,944 16,944 177,327 17,327 5,057 5,057 31,604 rx 75,619 85,801 161 | cquisition | | | | | | | | • • | | | | | |
| 5,642 5,642 6,863 5,100 5,100 5,100 2,401 rvices 10,806 2,701 13,507 12,092 3,033 7,976 39,878 6,947 1,737 rvices 10,806 2,701 13,507 12,092 3,023 15,115 31,903 7,976 39,878 6,947 1,737 rvices 72,018 68,279 140,297 85,247 83,288 168,535 99,057 72,468 17155 34,340 30,099 ngency 3,414 7,015 4,154 8,453 36,057 31,604 1,717 1,505 ngency 3,619 14,108 14,108 14,101 76,091 180,101 36,057 31,604 x 14,108 14,108 16,944 16,944 16,944 17,327 17,327 5,057 31,604 75,619 85,801 161,420 89,509 104,010 93,418 197,428 36,057 38,093 75,619 85,801 161,420 89,509 104,010 93,418 197,428 36,057 | Compensation | | 588 | 588 | | | 658 | | 1,736 | 1,736 | | 378 | 378 | |
| 10,806 2,701 13,507 12,092 3,023 15,115 31,903 7,976 39,878 6,947 1,737 72,018 68,279 140,297 85,247 83,288 168,535 99,057 72,468 171,525 34,340 30,059 3,601 3,414 7,015 4,262 4,164 6,427 4,953 3,623 8,576 1,717 1,505 75,619 71,693 147,312 89,509 87,452 176,961 104,010 76,091 180,101 36,057 31,604 75,619 71,685,801 161,420 89,509 87,452 17,327 17,327 17,327 6,488 75,619 85,801 161,420 89,509 104,396 104,010 93,418 197,428 36,057 38,053 | stration | | | 5,642 | . • | | 6,863 | | 5,100 | 5,100 | | 2,401 | 2,401 | |
| 72,018 68,279 140,287 85,247 83,288 168,535 99,057 72,468 171,525 34,340 30,059 3,601 3,414 7,015 4,262 4,164 6,427 4,953 3,623 8,576 1,717 1,505 75,619 71,693 147,312 89,509 87,452 176,961 104,010 76,091 180,101 36,057 31,604 75,619 14,108 14,108 16,944 16,944 16,944 16,944 16,944 16,944 16,944 16,944 17,327 17,327 36,057 56,058 75,619 85,801 161,420 89,509 104,396 104,010 93,418 197,428 36,057 38,093 | ering Services | | | 13,507 | 12,092 | | 15,115 | 31,903 | 7,976 | 39,878 | 6,947 | 1,737 | 8,683 | |
| 3,601 3,414 7,015 4,262 4,164 8,427 4,953 3,623 8,576 1,717 1,505 75,619 71,693 147,312 89,509 87,452 176,961 104,010 76,091 180,101 36,057 31,604 14,108 14,108 14,108 16,944 16,944 16,944 17,327 17,327 17,327 6,488 75,619 85,801 161,420 89,509 104,396 193,906 104,010 93,418 197,428 35,057 38,093 | 1-7) | | Ű. | 140,297 | 85,247 | - L | 168,535 | 99,057 | 72,468 | 171.525 | 34,340 | 30,059 | 64,440 | |
| 75,619 71,693 147,412 89,509 87,452 176,944 16,944 10,701 75,091 180,101 36,057 5,408 14,108 14,108 14,108 16,944 16,944 15,944 17,327 17,327 17,327 5,093 75,619 85,801 161,420 89,509 104,396 193,906 104,010 93,418 197,428 36,057 38,093 | sal Contingency | • | | 7,015 | • | 4 164 | 6.427 | 4,953 | 3,623 | 8,576 | 1,717 | 1,505 | 3,222 | |
| 75,619 85,801 161,420 89,509 104,010 93,418 197,428 36,057 38,053 | Added Tax | / 0 , 6, 19 | | 14,108 14,108 | • • • | 16,944 | 1/0,954 16,944 | | 10,091 17,327 | 17,327 | 30,057 | 31,604 6,488 | 61,662 6,488 | |
| | Grand total | 75,619 | | 161,420 | , 509. | 104,396 | 1 | 104,010 | 93,418 | 197,428 | 36,057 | 38,093 | 74,150 | |
| | | | E 3 1 5 3 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 | | | | ± 1 1 5 5 5 1 1 | 1 1 1 1 1 1 1 1 1 | 1 5 1 1 1 1 8 | | 1 1 1 1 1 1 1 1 1 1 | | | |
| | | | | · . : | • | | | • | | • | • | • | ··· · | |
| | | | | | | | | • | | | | | | |

Table VIII-4 PROJECT COST OF REPRESENTATIVE SCHEMES

| · · · · · · · · · · · · · · · · · · · | • | | x | | | | North Sumatra | atra <2> | 14 | | Unit : 10 | 10×3 Rp. |
|---------------------------------------|--|--|----------|---------------------------------|--|---------|---|---|--------|---|--|----------|
| Code No. Name of Scheme Group | 50091 Aek ⁻ Palia VI B1 | | | 50129 Fangambatan B VI B2 | | | 50141 50141 Aek Siparbue VI B4 | bue | | 50218 Kutamale VI B4 | | |
| Item Item | Project Cost Foreign Local Portion Portion | Project Cost ign Local ion Portion | Total | Foreign Fortion Fortion | Project Cost ign Local ion Portion | Total | Frojec Foreign I Fortion F | Project Cost Sign Local | Total | Froject Co Foreign Local Fortion Fortio | Froject Cost ign Local ion Portion | Total |
| 1. Preparatory Works 2. Civil Work | | 1,292 | 3,230 | 2,448 | 1,632 | 4,080 | 1,326 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2,210 | 2,040 | 1,360 | 3,400 |
| 2.1 Land Development | 4,281 | 4,281 | 8,562 | 2,883 | 2,883 | 5,766 | 1,612 | 1,612 | 3,224 | 5,923 | 5,923 | 11,846 |
| Z.Z Intake Facilities | | 65 | 130 | 18,158 | 8,289 | 26.447 | 5,844 | 2,933 | 9,777 | 191 | 330 | 1,091 |
| 2.3 Canal & Structure | 24,551 | 24,042 | 48,593 | 24,403 | 27,216 | 51,619 | 19,434 | 19,559 | 38,993 | 21,341 | 21,167 | 42,508 |
| Sub total | 28,897 | 28,388 | 57,285 | 45,444 | 38,388 | 83,832 | 27,890 | 24,104 | 51,994 | 28,025 | 27,420 | 55,445 |
| 3.Training | 182 | 1,034 | 1,216 | 230 | 1,306 | 1,536 | 125 | 707 | 832 | 192 | 1,088 | 1,280 |
| 4.0kM Equipments | 2,291 | 255 | 2,546 | 2,894 | 322 | 3,216 | 1,568 | 174 | 1,742 | 2,412 | 268 | 2,680 |
| 5.Land Acquisition | | | | | : | | | | | | | |
| & Crop Compensation | | 532 | 532 | | 672 | 672 | | 364 | 364 | | 560 | 560 |
| 6.Administration | | 2,864 | 2,864 | | 4,192 | 4,192 | | 2,600 | 2,600 | | 2,772 | 2,772 |
| 7.Engineering Services | 9,777 | 2,444 | 12,221 | 12,349 | 3,087 | 15,437 | 6,689 | 1,672 | 8 362 | 10,291 | 2,573 | 12,864 |
| Total(1-7) | л. | 36,809 | 79,894 | 63,366 | 49,598 | 112,964 | 37,598 | 30,505 | 68,103 | 42,960 | 36,041 | 79,001 |
| 8. Phisical Contingency | | 1,840 | 3,995 | 3,168 | 2,480 | 5,648 | 1,880 | I,525 | 3,405 | 2,148 | 1,802 | 3,950 |
| Total | 45,240 | 38,649 | 83,889 | 66,535 | 52,078 | 118,613 | 39,478 | 52,031 | 71,508 | 45,108 | 37,843 | 82,951 |
| 9.Value Added Tax | | 8,049 | 8,049 | | 11,375 | 11,375 | | 6,854 | 6,854 | | 7,962 | 7,962 |
| Grand total | 45.240 | 46.598 | 91.938 | 56.535 | 63.453 | 129.988 | 39,478 | 38.885 | 78,363 | 45.108 | 45.805 | 90.913 |

| (4/8) 10x3 Rp. | | Total | 10,540 | 59,024 14,776 60,064 133,864 3,968 8,308 8,308 | 6,693 39,878 204,988 10,249 215,237 20,681 | 235,918 | |
|-------------------|--|--|--------|---|---|-------------|---------------------------------------|
| Unit : 10x | | Project Cost ign Local ion Portion | 4,216 | 29,512 4,960 32,459 66,459 66,459 3,373 831 | 7,976 7,976 91,755 91,755 96,343 96,343 96,343 | 117,024 | |
| | 10115 Kaindi VI B4 | Proje Foreign Fortion | 6,324 | 29,512 9,816 27,605 66,933 66,933 7,477 | 31,903 113,232 118,894 118,894 | 118,894 | |
| | | Total | 19,040 | 44,092 18,661 280,169 342,922 7,168 15,008 | 5,155 17,145 72,038 476,459 23,823 500,281 48,000 | 548,281 | |
| awesi <1> | 2 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | Project Cost ign Local ion Portion | 2,616 | 22,046 5,862 139,994 167,902 6,093 1,501 | 17,146 17,146 14,408 217,801 10,890 228,691 48,000 | 276,691 | |
| South Sulawesi | 10099 Kadleng VI Bl | Proje Foreign Portion | 11,424 | 22,046 12,799 140,175 175,020 175,020 1,075 13,507 | 57,631 258,657 12,933 271,590 | 271,590 | |
| | 2 6 1 1 1 1 1 1 1 | Total | 12,155 | 11,154 87,961 99,1154 9,567 9,581 | 4,956 45,989 178,374 84,292 187,292 18,033 | 205,326 | |
| | 1 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | Project Cost ign Local ion Portion | 4,862 | 43,610 43,722 47,332 890 958 | z,002 9,198 73,197 3,660 76,857 18,033 | 94,891 | · · · · |
| | 10055 Pajjenge VI Cl | Foreign I Portion I | 7,293 | 7,544 44,239 51,783 51,783 8,623 8,623 | 36,791 105,176 5,259 110,435 | 110,435 | |
| | 1 | Total | 1,955 | 23,816 23,816 42,286 66,102 1,541 | 3,305 7,397 81,358 81,358 85,426 85,426 8,180 | 93,606 | · · · · · · · · · · · · · · · · · · · |
| | , t ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | Project Cost ign Local ion Portion | 782 | 11,908 11,908 21,284 33,192 626 154 | 3,305 3,305 1,479 39,860 1,993 8,1853 8,180 | 50,033 | |
| | 20003 Kalu LD A3 | Foreign Foreion | 1,173 | 11,908 21,002 32,910 1,387 1,387 | 5,917 41,498 2,075 43,573 | 43,573 | |
| | Code No. Name of Scheme Group | Item | | 2.1 Land Development 2.2 Intake Facilities 2.3 Canal & Structure Sub total 3. Training 4.0&M Equipments 5. Land Acquisition | & Crop Compensation 6.Administration 7.Engineering Services Total(1-7) 8.Phisical Contingency Total 9.Value Added Tax | Grand total | |
| | 1081 1020 | I I I | 1 4 0 | N () () UJ | | i í | |

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| · · · · | | | | · . | | | South Sulawesi | awesi <2> | | _ | Unit : 10×3 Rp. | 13 Rp. |
|---------------------------------------|--|---|---------------------------------|-----------------------------|--|----------------------------|--|--|--|--|--|--|
| Code No. Name of Scheme Group | 10140 Lembang Bata VI B5 | រ រ រ រ រ រ រ រ រ រ រ រ រ រ រ រ រ រ រ | 1 1 3 9 8 4 9 | lol68 Panrita VI B2 | | 4 1 5 2 1 1 | 10182 Mario I-II-III VI B4 | | L L 1 1 1 1 1 1 1 1 | 10201 Pakelli II VI B5 | t . 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| 1 | Project Cost Foreign Local Portion Portion | Froject Cost ign Local ion Portion | Total | Proje Foreign Fortion | Project Cost ign Local ion Portion | Total | Project Cost Foreign Local Fortion Portion | Project Cost ign Local ion Portion | Total | Project Co Foreign Local Fortion Porti | Project Cost ign Local ion Portion | Total |
| L. Preparatory Works 2. Civil Work | 3,876 | 2,584 | 6,450 | 970 970 | 2,210 | 5,525 | 2,907 | 1,938 | 4,845 | 2,754 | 1,836 1,836 | 4,590 |
| 2.1 Land Development | | 2,136 | 4,272 | 823 | 823 | 1,646 | 3,624 | 3,624 | 7,248 | 22,122 | 22,122 | 44,244 |
| 2.2 Intake Facilities | | 1,594 | 3,168 | 1,721 | 738 | 2,459 | 4,624 | 2,359 | 6,983 | 16,927 | 7,631 | 24,558 |
| 2.3 Canal & Structure | | 32,723 | 68,137 | 10,699 | 9,617 | 20,316 | 26,417 | 26,287 | 52,704 | 23,946 | 24,734 | 48,680 |
| Sub total | 39,144 | 36,453 | 75,597 | 13,243 | 11,178 | 24,421 | 34,665 | 32,270 | 66,935 | 62,995 | 54,487 | 117,482 |
| S.Training | 365 | 2,067 | 2,432 | 312 | 1,768 | 2,080 | 274 | 1,550 | 1,824 | 259 | 1,469 | 1,728 |
| 4.0&M Equipments | 4,583 | 503 | 5,092 | 3,920 | 436 | 4,355 | 3,437 | : 382 | 3,819 | 3,256 | 362 | 3,618 |
| 5.Land Acquisition | | | : | | | | | | : | • | | |
| & Crop Compensation | | 1,064 | 1,064 | | 016 | 910 | | 798 | 798 | | 756 | 756 |
| 6.Administration | | 3 780 | 3,780 | | 1 221 | 1,221 | | 3.347 | 3,347 | | 5.874 | 5,874 |
| 7. Engineering Services | 19,553 | 4 888 | 24,442 | 16,723 | 4 181 | 20,904 | 14,665 | 3,666 | 18,331 | 13,893 | 3,473 | 17,366 |
| Total(1-7) | 67,521 | 51,346 | 118,866 | 37,513 | 21,903 | 59,416 | 55,948 | 43,951 | 99,899 | 83,158 | 68.257 | 151,415 |
| 8. Phisical Contingency | • • | . • | 5,943 | 1,876 | 1,095 | 2.971 | 2,797 | 2,198 | 4,995 | 4,158 | 3.413 | 7 571 |
| Total | c | 63 | 124,810 | 39,388 | 22,999 | 62,387 | 58,745 | 46 149 | 104,894 | 87,315 | 71,670 | 158,985 |
| S.Value Added Tax | | 11,997 | 11,997 | • | 6,026 | 6,026 | | 10 075 | 10,075 | | 15,236 | 15,236 |
| - | • . | | | | | | | | | • | | |

87,315 86,905 174,221

58,745 56,224 114,969

39,388 29,024 68,412

65,909 136,806

70,897

Grand total

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(5/8)

| | | | | | | | | | · | · | | |
|-------------------------|----------------------------------|--|---------|---------------------------|---------------------------|--------|------------------------------|--|----------------------------|--------------------------|--|---------------------------------|
| | | | | | | | | | · | | <u> </u> | (8/9) |
| • | | . * | | | | | South Sul | Sulawesi <3> | | - | Unit : 103 | 10×3 Rp. |
| | 10227 Padaelo VI B3 | | | 10287 Malimbu VI C2 | | | 10332 Salu Akung VI Cl | 1 1 1 1 1 1 1 1 5 0 | E 3 4 4 3 4 | 10354 Mariri VI B1 | 1 1 1 1 1 1 1 | 4 4 5 6 8 8 8 |
| | Foreign Local Portion Portion | Froject Cost ign Local ion Portion | Total | Foreign Foreign | Froject Cost Egn Local | Total | Foreign Portion | Project Cost ign Local ion Portion | Total | Foreign 1 Fortion 1 | Project Cost ign Local ion Portion | Total |
| | 7,038 | 4,692 | 11,730 | 1,632 | 1,088 | 2,720 | 1,326 | 884 | 2,210 | 3,213 | 2,142 | 5,355 |
| 2.1 Land Development | 35,336 | 35, 336 | 70,672 | 0 | Ö | 0 | 0 | 0 | 0 | 11,926 | 11,926 | 23,852 |
| 2.2 Intake Facilities | 35,280 | 15,120 | 50,400 | 16,846 | 7,596 | 24,442 | 16,870 | 7,606 | 24,476 | 7,539 | 3,607 | 11,146 |
| Structure | 78,012 | 78,697 | 156,709 | 11,472 | 10,608 | 22,080 | 12,697 | 13,453 | 26,150 | 47,151 | 46,452 | 93,603 |
| | 148,628 | 129,153 | 277,781 | 28,318 | 18,204 | 46,522 | 29,567 | 21,059 | 50,626 | 66,616 | 61,985 | 128,601 |
| | 662 | 3,754 | 4,416 | 154 | 870 | 1,024 | 125 | 707 | 832 | 302 | 1,714 | 2,016 |
| 4.0&M Equipments | 8,321 | . 925 | 9,246 | 1,930 | 214 | 2.144 | 1,568 | 174 | 1,742 | 3,799 | 422 | 4,221 |
| S.Land Acquisition | | | ÷ | | | | | | • | • | • • | |
| & Crop Compensation | | 1,932 | 1,932 | | 448 | 448 | | 364 | 364 | | 882. | 882 |
| 6.Administration | | 13,889 | 13,889 | | 2,326 | 2,326 | | 2,531 | 2,531 | | 6,430 | 6,430 |
| 7.Engineering Services | 35,505 | 8,876 | 44,381 | 8,233 | 2,058 | 10,291 | 6,689 | 1,672 | 8,362 | 16,209 | 4,052 | 20,261 |
| | 200,154 | 163,220 | 363,375 | 40,266 | 25,209 | 65,475 | 39,275 | 27,392 | 66,667 | 90, I39 | 77,627 | 167,766 |
| 8. Phisical Contingency | 10,008 | 8,161 | 18,169 | 2,013 | 1,260 | 3,274 | 1,964 | 1,370 | 3,333 | 4,507 | 3,881 | 8,388 |
| | 210,162 | 171,381 | 381,544 | 42,279 | 26,470 | 68,749 | 41,239 | 28,762 | 70,000 | 94,646 | 81,508 | 176,154 |
| 9 Value Added Tax | | 36,572 | 36,572 | | 6.597 | 6,597 | | 6,710 | 6,710 | | 16,884 | 16,884 |
| 1 . F t t t | 210.162 | 207.954 | 418.116 | 42.279 | 33,067 | 75,347 | 41.239 | 35,472 | 76,711 | 94,646 | 98,392 | 193,038 |

| 45010 45010 LD A4 Project Cost Portion Portion 5,865 3,910 9, 5,865 3,910 9, 80,453 160, 9,538 6,440 15, 124,373 191,293 405, 214,373 191,293 405, 214,373 191,293 405, 214,373 191,293 405, 214,373 191,293 405, 229,587 7,397 36, 229,587 7,392 20, 229,587 7,392 485, 229,587 7,392 485, 229,587 7,392 485, 229,587 7,392 485, 229,587 7,392 485, 229,587 7,392 485, 220,223 20,223 20, 220,223 20,223 20, 220,223 20,223 20, 220,223 20,223 20,205 200,205 20,205 20,205 20,205 20,205 20,205 20,205 20,205 20,205 200,205 20,205 200,205 20,205 200,205 20, | | | | | | | | | |
|--|-------------------------|-------------|---------|--|-----------------------------|---------------------------------------|--|--|---------|
| Project Cost Foreign Foreign Foreign Foreign Roreign Fortion Fortion Fortion aratory Works 5,865 3,910 9, aratory Works 5,865 3,910 9, aratory Works 5,865 3,910 9, and Development 80,453 80,453 160, anal & Structure 124,382 104,400 228, anal & Structure 124,373 191,293 405, otal 214,373 191,293 405, ning 552 3,128 3, Rquipments 6,935 771 7, op Compensation 1,610 1, 1610 1, nistration 20,287 773 26, 36, .100 287,312 28,323 485, 26, | 32013 32013 VI C2 | -4 | | 33050 Uma Lebang VI Bl | | \$ 7 4 4 4 1 1 1 | 34004 Lokok Tripas VI C1 | ន ង ជ | |
| 5,865 3,910 9, 80,453 80,453 160, 9,538 6,440 15, 124,382 104,400 228, 214,373 191,293 405, 5,935 3,128 3, 6,935 1,610 1, 2,9,587 7,397 36, 229,587 7,397 36, | tal Fortion Portion | 1 4 1 | Total | Project Cost Foreign Local Portion Portion | ct Cost Local Portion | Total | Project Cos Foreign Local Portion Portic | Project Cost ign Local ion Portion | Total |
| 80,453 80,453 160, 9,538 6,440 15, 214,373 191,293 405, 552 3,128 3, 6,935 171 7, 1,610 1, 29,587 7,397 36, 29,587 7,397 36, 29,587 7,397 36, | 9,775 3,570 | 2,380 | 5,950 | 4,539 | 3,026 | 7,565 | 1,734 | 1,156 | 2,890 |
| 9,538 6,440 15, 124,382 104,400 228, 552 3,128 3, 6,935 771 7, 1,610 1, 29,587 7,397 36, 29,587 7,397 36, 29,587 7,397 36, | 0 906 0 | Ċ | | 8.706 | 8.706 | 17.412 | | , c | |
| 124,382 104,400 228. 214,373 191,293 405, 552 3,128 3, 6,935 771 7, 1,610 1, 29,587 7,397 36, 229,587 7,397 36, | | 2,387 | 7,038 | 5,104 | 2,582 | 7,686 | 8,447 | 4,015 | 12,462 |
| 214.373 191.293 405, 552 3.128 3, 6,935 771 7, 1,610 1, 29,587 7,397 36, 29,587 7,392 485, 257,312 228,392 485, | .782 3 | 39,718 | 77,984 | 35,066 | 38,374 | 73,440 | 19,091 | 18,999 | 38,090 |
| 552 3,128 3, 6,935 771 7, 7,510 1, 20,283 20, 29,587 7,397 35, 29,587 7,397 36, 29,587 7,392 485, 257,312 228,392 485, 257,312 228,392 485, 2557,312 228,392 25,392 485, 2557,312 228,392 485, 2557,357 75,352 75,552 75,552 75,552 75,552 75,552 75,552 75,552 75,552 75,5777 75,5777 75,5777 75,5777 75,5777 75,5777 75,5777 75,5777 75,5777 75,5777 75,57777 75,577777777 | ,666 | 42,105 | 85,022 | 48,876 | 49,662 | 98,538 | 27,538 | 23,014 | 50, 552 |
| 6,935 771 7, 1,610 1, 20,283 20, 29,587 7,397 36, 257,312 228,392 485, | 680 | ۰. | 2,240 | | 2,421 | 2,848 | 163 | 925 | 1,088 |
| 1,610 1, 20,283 20,283 20, 29,587 7,397 36, 257,312 228,392 485, | 7,705 4,221 | 469 | 4,690 | 5,367 | 596 | 5,963 | 2,050 | 228 | 2,278 |
| 1,610 1, 20,283 20, 29,587 7,397 36, 257,312 228,392 485, | | | | | : | | | | • |
| 29,587 7,397 36, 29,587 7,397 36, 257,312 228,392 485, | 1,610 | 580 | 980 | | 1,246 | 1,246 | • | 476 | 476 |
| 29,587 7,397 36, 257,312 228,392 485, | 20,283 | 4,251 | 4.251 | | 4.927 | 4,927 | | 2,528 | 2,528 |
| 257,312 228,392 485, 17 856 11 490 74 | 36,984 18,010 | 4,502 | 22,512 | 22,898 | 5,724 | 28,622 | 8,748 | 2,187 | 10,934 |
| 10 007 11 200 CT | . 703 | 56,592 1 | 125,645 | | 67,602 | 149,709 | 40,233 | 30,513 | 70,746 |
| 14 | | 2,830 | 6, 282 | 4,105 | 3,380 | 7,485 | 2,012 | | 3,537 |
| 270,177 239,811 509 | 09,988 72,506 | 59,421 1 | 31,927 | 86,212 | 70, 983 | 157,195 | 42,245 | ຕ ່ | 74,283 |
| Added Tax 48,810 48 | .810 - | 12,670 | 12,670 | | 15,102 | 15,102 | : | 7,128 | 7,128 |

81,411

42,245 39,167

86,212 86,085 172,297

72,091 144,597

72,506

270,177 288,621 558,798

Grand total

11111111

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(2/8)

| 8/8) 3 Rp. | | Total | 2,805 | 0 | 7.244 | 28,827 | 1000 | 2.211 | 1 | 462 | 1,804 | 10,013 66 033 | 2.751 | 57.72 | 5,551 | 63,323 | - | | | |
|--|---|--|----------------------|------------------------------------|-------------------|-------------|---------------------|-------------|--|---------------------|------------------|-------------------------|------------------|---|----------------------|-------------|---|---|---|---|
| (8/8 (nít : 10×3 Rp. | apah/Puri | Project Cost ign Local ion Portion | I,122 | 0 | 2,449 | 15,279 | 1/,/28 | 160 | 1 2 2 | 462 | 1,804 | 2,123 | 1.218 | 25.575 | 5,551 | 31,125 | : | | | |
| | 37003 Montong Sapah/Puri VI Cl | Foreign l Foreign l Portion | 1,683 | o | 4,795 | 13,548 | 16,343 | | 000 | | | 8,490 | 500000 1 5000 | 32,198 |) | 32,198 | | | | |
| € Second Second | | Total | 9,435 | o | ο | 58,038 | 58,038 7 7 7 5 0 | 200 2 | - 0 # | 1,554 | 2,902 | 35,698 | 110,010 5,031 | 124 546 | 12,009 | 136,555 | | | | |
| tr St St St St St St St St St St St St St | ಕ | Project Cost ign Local ion Portion | 3,774 | 0 | 0 | 27,981 | 27,981 | 8T0 8 | 1 1 | 1,554 | 2,902 | 7,140 | 47, 113 7 356 | 000 000 | 12,009 | 61,478 | - - - - - - - - - - - - - - - - - - - | | | • |
| West Nusa Tensor | 36016 Raba Sangga VI Cl | Project Co Foreign Local Portion Portic | 5,661 | D | o | 30,057 | 30,057 | | 0 | · | | 28,558 | 71,502 | 750.07 | | 75,077 | 1 1 1 1 1 k f f | | | |
| | | Total | 9,435 | 6,254 | 3, 518 | 57,085 | 66,857 | | | 1,554 | 3,343 | 35,698 | 127 875 6 304 | 1090 Per | 12,937 | 147,206 | 6 2 6 4 5 7 1 1 1 | | | |
| | Udans | oject Cost n Local n Portion | 3,774 | 3,127 | 1,331 | 27,810 | 32,268 | 3,019 | 747 | 1,554 | 3,343 | 7.140 | 51,841 | 7 A A A A A A A A A A A A A A A A A A A | 12,937 | 67,371 | 1 1 5 1 1 1 1 | | | |
| | - SO | | 199 . 5 | | 2,187 | 29,275 | 34,589 | | 6,693 | | | | 76,034 | 3, 3U2 70 936 | 0.00 m | 79,836 | ¢ 5 · . 5 · . 1 | | : | : |
| | 1 - 1 - 1 - 1 | Total | 2,210 | 2,798 | 48,604 | 28,582 | 79,984 | 832 | 1,742 | 364 | 3,999 | 8,362 | 97,493 | 4, 0,0 100 001 | - 008'6 6'800 | 112,168 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ı | | |
| | nqn | Project Cost ign Local ion Portion | 884 | 1,399 | 14,857 | 13,923 | 30,179 | 707 | 174 | 364 | 3,999 | 1,672 | 37,980 | н, очи 20. 64.0 | 9,800 | 49,679 | | • | • | |
| | SS035 SS035 Lengkok Dudu VI B1 | Project Cost Foreign Local Portion Portion | 1,326 | 1,399 | 33,747 | 14,659 | 49,805 | 125 | . 1,568 | | | . 6,689 | 59,513 | 0/6.2 | 07,404 | 62,489 | | | | |
| | 1 · · · · · · · · · · · · · · · · · · · | • • • • • • • • | ry Works | evelopment | Intake Facilities | & Structure | ÷ | | ments isition | & Crop Compensation | ation | 7. Engineering Services | ~ ~ | 8. Phisical Contingency | Added Tax | al. | | | • | |
| | Code No. Name of Scheme Group | I T T T T T T T T T T T T T T T T T T T | 1. Preparatory Works | .uvii muta 2.1 Land Development | 2.2 Intake | | Sub total | 3. Training | 4.0&M Equipments 5.Land Acquisition | & Crop Co | 6.Administration | .Engineeri | Total(1-7) | "", Phisical | lotal 9.Value Add | Grand total | 1.6 F L. I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I. | | | |

| T | able | VIII-5 | BREAKDOWN CONSTRUCT | | GENI | ERAL ITE | MS FOR (Rp/1000Ha) |
|-----|-------------------|------------------------------|-----------------------------|------|-------|--|-------------------------|
| NO. | | DESCRIPT | TION | UNIT | Q' TY | UNIT PRICE | AMOUNT |
| | Mainte SUB TO | | cess Road | L/S | 1 | 5,000,000 | 5,000,000 5,000,000 |
| | labour | | s, include land | L/S | 1 | 5,000,000 | 5,000,000 |
| • | Photog | raph) | | | | | |
| | | g apparatus; eedy moistu | 1 | nos | 2 | 10 C C C C C C C C C C C C C C C C C C C | 6,000,000 |
| | | ne penetrome | | nos | | | 6,000,000 |
| | | eld permeabi eld density | lity apparatus apparatus | nos | | | 1,500,000 3,000,000 |
| | | | nder (1000cc) | nos | . 1 | 500,000 | 500,000 |
| | (6) SI | ump test app | Daratus | nos | 1 | 500,000 | 500,000 |
| | Cost f | or tests | | L/S | 1 | 1,000,000 | 1,000.000 |
| | | llaneous Wor zation in ar | ∙ks(including ∙ea) | L/S | 1 | 30,000,000 | 30,000,000 |
| | SUB TO | FAL | | | | | 53, 500, 000 |
| 3 | Commun | ication syst | em: | | | | |
| | | w Rig(25watt | | L/S | 1 | 1,000,000 | 1,000,000 |
| | | w Handy Tall | | L/S | 2 | 600,000 | 1,200.000 |
| | (3) 0 3 | & M cost | | L/S | 18 | 50,000 | 900,000 |
| | SUB TO | TAL | | | | | 3, 100, 000 |
| 4 | Ássist | ance Enginee | er s staff; | : | | | · . |
| | | - | e (100cc), 1989 | L/S | 4 | 3,000,000 | 12,000,000 |
| | (2) 0 8 | & M Cost for | motor cycle | L/S | 18 | 500,000 | 9,000,000 |
| | SUB TO | ΓAL | | | | | 21,000,000 |
| | | g out of car g reference | al, structure, peg | L/S | 1 | 2,000,000 | 2,000,000 |
| | Longitu | udinal secti | on of canal | L/S | 1 | 4,000,000 | 4,000,000 |
| | and otl SUB_TO | | tion drawing | | - | | 6,000,000 |
| | TOTAL | | | | | | 88, 600, 000 88, 600 |

٦P ò TP4 iπ. np ENTER TOTAL

(1/30)[SUMBARI] _____ F/C L/C WORKS UNIT QUANT. PRICE (Rp) AMOUNT L. Amount ____ (1,000Rp)(1,000Rp)(1, 000 Rp)(1,000Rp)2,729 4,093 - 0 1. GENERAL ITEMS 77 88,600 6,822 * ha 2. DIRECT CONSTRUCTION 32 1,050,000 33,600 * 16,800 16,800 0 Clearing ha 12.016 12.016 0 572,194 24.032 * Leveling S 42 21,623 10,812 10,812 514,840 21.623 * 42 Formatting Weir (LOW) h= m Weir (midle) h= m (high) h= m Intake gate nos Excavation m3 Revetment Work nos Rehabili. Apronnos 8,917 0 17,833 * 8,917 89.169 200 New Canal I **B** : Canal II m Canal III m Reh. Canal I m Canal II m 3,310 2,128 8.274 * 4,964 2.000 4,137 S. Del. Canal m Turnout nos 258388 0 646 * 2 323, 363 Culvert nos **O&M ROAD** m Aqua-Duct m Base set Canal Cover m

Table VIII-6 BREAKDOWN OF DIRECT CONSTRUCTION COST

sub-total

VIII - 21

56.496

112,830 *

56,334

23,751

(2/30)

| | | • . • | | | [] | RUNING B] | | |
|----------------------|------|--------|------------|---|------|---|--|--|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | · | L/C | F/C L | ., Amount |
| 1. GENERAL ITEMS | ha | 66 | 88,600 | | | (1,000Rp) 2,339 | | |
| | | | | | | n Anna - An Anna - An | | · · · · · |
| 2. DIRECT CONSTRUCTI | ON | · . | | | | | | |
| Clearing | ha | 44 | 1,050,000 | 46,200 | *. | 23,100 | 23,100 | 0 |
| Leveling | ha | 47 | | 0 | | | | 0 |
| Formatting | | 47 | 514,840 | 24, 197 | * | 12,099 | 12,099 | 24, 197 |
| Weir (LOW) h= | m | | | | • | | | Martin A. |
| Weir (midle)h= | m | | | | . : | | | en plante de |
| (high) h= | m | · . | | : | | · · · · · | | |
| Intake gate | nos | | · | | | | en e | App. An |
| Excavation | m3 | | | | | a series La stra | | n an |
| Revetment Work | nos | | | an a | | e de la companya de l La companya de la comp | an de l'he | 4.1. |
| Rehabili. Apro | nnos | | | | | | | |
| New Canal I | m | 500 | 89.169 | 44, 584 | * . | 22,292 | 22,292 | 0 |
| Canal II | m | | | | | | | en e |
| Canal III | m | | | | | | | 1 - 1 h |
| Reh. Canal I | CT 1 | | | | | an a | | |
| Canal II | m | | | | .: ' | | | |
| S. Del. Canal | m | 2,900 | 4, 137 | 11,997 | * | 7,198 | 4,799 | 3,085 |
| Turnout | nos | | | e e seren e e e e e e e e e e e e e e e e e e | | en e | | denar ku |
| Culvert | nos | 2 | 323, 363 | 646 | * | 258 | 388 | 0 |
| O&M ROAD | m | 300 | 12,597 | 3,779 - | * | 2,267 | 1.512 | 664 |
| Aqua-Duct | m | | | | | | | n na sta Maria Maria |
| Base | set | | | | | | a dia serie di serie di | |
| Canal Cover | m | | | | | . * | | en e |
| · | | | | | | | | |

sub-total

137,250 * 69,553 67,697 27,946

(3/30)

| | | | | | | (SUMBUL_BER/ | MPU] |
|----------------------------------|--------|--------|------------|-----------|-----------|---|-----------|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | L/C | F/C | L. Amount |
| | : : | | | (1,000Rp) | (1,000Rp) | (1,000Rp) | (1,000Rp) |
| 1. GENERAL ITEMS | ha | 124 | 88,600 | 10,986 * | 4,394 | 6,592 | C |
| 2. DIRECT CONSTRUCTI | ON | | | | . * | : . | • |
| Clearing | ha | | | | | | · . |
| Leveling n | ha | | | | | | · · |
| Formatting | | 5 | | ·. | | | |
| Weir (LOW) h= | m | 1.4.1 | . ! | | 1 | | |
| Weir (midle)h= | a | | | 1. j. | | н. 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - | а. а. |
| (high) h= | m | | | | | | |
| Intake gate | nos | | | | | - | |
| Excavation | m3 | | | | | | |
| Revetment Work Rehabili. Apro | | | | | | | |
| New Canal I | m | | | | | | |
| Canal II | m | | | | | · · · · | 4 . · |
| Canal III | m | | | | | • | |
| Reh. Canal I | m | 1,000 | 84, 397 | 84,397 * | 42,199 | 42,199 | 15,95 |
| Canal II | m | | | | | · · · | • |
| S. Del. Canal | DL 🕺 | | · · · | | | | |
| Turnout | nos | | 1,491,417 | 5.965 * | 2,386 | | |
| Cuivert | nos | 2 | 323, 363 | 646 * | 258 | 388 | ۰ . ۱ |
| O&M ROAD | m | | | | | | |
| Aqua-Duct | m | | | | | | |
| Base | set | | | | | | |
| Canal Cover | M | | | · . | | | |
| | | | | | <u>.</u> | | |
| sub-total | | | | 101,994 * | 49,237 | 52,757 | 15,95 |

101.994 * 49,237

52,757

| | | : * | | | (4/30) [SIDOMUKUTI] | | | |
|---------------------|------|--|------------|----------|------------------------|--------------------|---------------------------------------|--|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | L/C | F/C I | "Amount | |
| 1. GENERAL ITEMS | ha | 27 | 88,600 | | | (1,000Rp) 1,435 | | |
| 2. DIRECT CONSTRUCT | (ON | • | | | : | | | |
| Clearing | ha | 3 | 1,050,000 | 3,150 * | 1,575 | 1,575 | | |
| Leveling n | | 3 | 357,621 | 1,072 * | 536 | 536 | | |
| Formatting | | 3 | 514.840 | 1,544 * | 772 | 772 | 1,544 | |
| Weir (LOW) h= | m | 8 | 806,720 | 6,453 * | 1,936 | 4.517 | | |
| Weir (midle)h= | m | | | · · · · | | | | |
| (high) h= | m | | | | · . | | | |
| Intake gate | | 2 | 1.077.694 | 2,155 * | 647 | 1,509 | 0 | |
| Excavation | | : | | | | | | |
| Revetment Worl | | 1 | 1,776,988 | 1,776 * | 888 | 888 | • • • • • • • • • • • • • • • • • • • | |
| Rehabili. Apro | | | | | 1 | | | |
| New Canal I | m | | | | | | | |
| Canal II | m | 200 | 59,182 | 11,836 * | 5,918 | 5,918 | tana na 0 - | |
| Canal III | m | | • ` | | | | e a l'activ | |
| Reh. Canal I | m | | | | | | | |
| Canal II | ៣ | | | | | | | |
| S.Del.Canal | m | 2,000 | 4,137 | 8,274 * | 4,964 | 3, 310 | 2,128 | |
| Turnout | nos | en e | · · · · | | | | | |
| Culvert | nos | 2 | 323, 363 | 646 * | 258 | 388 | 0 | |
| O&M ROAD | m | 750 | 12,597 | 9,447 * | 5,668 | 3,779 | 1.660 | |
| Aqua-Duct | т | | | · · · · | | | | |
| Base | set | | | | | | | |
| Canal Cover | m | • | 9 | | | | | |

sub-total

24,626 48,745 * 24, 119

5,332

VIII 24 ----

(5/30)

50091

| | | | 1. | · · · | ł | AEK PALIA] | | |
|----------------------|------|--|----------------|------------|-----------|------------|-----------|--|
| WORKS | ÚNIT | QUANT. | PRICE (Rp) | AMOUNT | L/C | F/C | L. Amount | |
| | | | | (1, 000Rp) | (1,000Rp) | (1,000Rp) | (1,000Rp) | |
| 1. GENERAL ITEMS | ha | 38 | 88,600 | 3,366 * | 1,346 | 2,020 | 0 | |
| | | | | | | | | |
| 2. DIRECT CONSTRUCTI | ON | | · · · · · | | | | • | |
| Clearing | ha | 4 | 1,050,000 | 4,200 * | 2,100 | 2,100 | 0 | |
| Leveling n | ha | 5 | 357,621 | 1.788 * | 894 | 894 | . 0 | |
| Formatting | | 5 | 514,840 | 2,574 * | 1,287 | 1,287 | 2,574 | |
| Weir (LOW) h= | . m | · · · | | н | | | | |
| Weir (midle)h= | m | | | | | . • | * | |
| (high) h= | m | | : | | | ; ; ; | | |
| Intake gate | nos | | · | | · · · | | ÷ | |
| Excavation | ៣3 | | | | · . | | | |
| Revetment Work | nos | | .* | | · · · · | • | | |
| Rehabili. Apro | nnos | 1 | 129,502 | 129 * | 65 | 65 | 166 | |
| New Canal I | m | | | | · · · | | | |
| Canal II | m | | · · · | | | | | |
| Canal III | m | | | | | | | |
| Reh. Canal I | m: | | | | | . * | | |
| Canal II | m | 800 | 55,501 | 44,400 * | 22,200 | 22,200 | 8,456 | |
| S. Del. Canal | 0 | 200 | 4,137 | 827 * | 496 | 331 | 212 | |
| Turnout | nos | | | | | | а. - | |
| Culvert | nos | • | | | | | | |
| O&M ROAD | m | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | · · · · | | | · · · | |
| Aqua-Duct | 01 | · · · | 1. A. 1. A. 1. | | | | | |
| Base | set | | | | | | | |
| Canal Cover | m | | | | | | | |
| | | : | | | | | | |
| | | | | | | | · | |

sub-total

57,284 * 28,388

28,896 11,408

[PAMGAMBATAN B]

| WORKS | UNIT | QUANT. | PRICE (Rp) | | L/C | F/C L | Amount |
|------------------------|------|---------|--------------|---------------------------------|----------------------|--|---------------|
| 1. GENERAL ITENS | ha | 48 | 88.600 | (1,000Rp) 4,252 * | | (1,000Rp) 2,551 | |
| 2. DIRECT CONSTRUCTION | ON | | · · · | | | 。 1993年1月1日 1993年1月11日 1995年1月1日 1995年1月1日 1995年1月1日 1995年1月1日 1995 1995 1995 1995 1995 1995 1995 19 | |
| Clearing | | 3 | 1,050,000 | 3,150 * | 1,575 | 1,575 | 0 |
| Leveling n | | | 357,621 | 1.072 * | 536 | 536 | |
| Formatting | • | . 3 | 514,840 | 1,544 * | 772 | 772. | 1,544 |
| Weir (LOW) h= | m | 1 | | | and the second | | |
| Weir (midle)h= | m | | | andar Ali ang kang taong tao | | | lega et la j |
| (high) h= 2.5 | m | 10 | 2,467,145 | 24,671 * | 7,401 | 17,270 | 0 |
| Intake gate | nos | | | | ч. т. ^т . | | |
| Excavation | m3 | | | | | and the | 1. 19 j |
| Revetment Work | nos | 1 | 1,776,988 | 1,776 * | 888 | 888 | |
| Rehabili. Apro | nnos | | | | | | n ann Anns |
| New Canal I | m | | | | | | e pole Ma |
| Canal II | m | 500 | 59,182 | 29,591 * | 14.795 | 14, 796 | esta di |
| Canal III | m | | :- | | | | |
| Reh. Canal I | m | | | | | | |
| Canal II | m | an da a | | | 5 900 | 0.550 | 0 007 |
| S. Del. Canal | m | 2,150 | 4,137 | 8,894 * | 5, 336 | 3, 558 | 2,287 |
| Turnout | nos | | | 0.10 | 950 | | 0 |
| Culvert | nos | | 323, 363 | | 258 | K. B. M. M. B. M. | 1 771 |
| O&M ROAD | m | 800 | 12,597 | 10.077 * | 6,046 | 4,031 | 1,771 |
| Aqua-Duct | m | | | | | | a farmaña |
| Base | set | | н 1913 г. | | | | |
| Canal Cover | m | | | | | | es pipe d |

sub-total

85, 673 * 39, 310 46, 363 5, 602

50129

| 1 | 7 | 1 | \mathbf{a} | n. | Ň | |
|----|---|---|--------------|----|---|--|
| ١. | 1 | 1 | J | U. | , | |

| 1. GENERAL ITEMS ha 26 88.600 2,303 * 921 1,382 2. DIRECT CONSTRUCTION Clearing ha 1 1.050,000 1,050 * 525 525 Leveling s ha 2 572,194 1,144 * 572 572 Formatting 2 514,840 1,029 * 515 515 1 Weir (LOW) h= 0.2 m 20 488.869 9,777 * 2.933 6.844 Weir (midle) h= m (high) h= m Intake gate nos Excavation m3 Revenment Work nos Rehabili. Apronnos New Canal I m Canal II m Canal III m | | | | | | [AEK SIPARBUE |] |
|---|---|--|------------|----------|--------|---------------|----------------|
| 1. GENERAL ITEMS ha 26 88.600 2.303 * 921 1.382 2. DIRECT CONSTRUCTION Clearing ha 1 1.050,000 1.050 * 525 525 Leveling s ha 2 572,194 1.144 * 572 572 Formatting 2 514,840 1.029 * 515 515 1 Weir (LOW) h= 0.2 m 20 488.869 9.777 * 2.933 6.844 Weir (midle) m (high) h= m (high) h= m (high) h= m na canal in m canal in na Canal II m canal II m canal II m canal II m S.Del.Canal m 100 4.137 413 * 248 165 Turnout nos canal II m 200 12.597 2.519 * 1.511 1.008 Quert nos canal m 200 12.597 2.519 * 1.511 1.008 | WORKS | UNIT QUANT. | PRICE (Rp) | AMOUNT | L/C | F/C L | Amount |
| Clearing ha 1 1.050.000 1.050 * 525 525 Leveling s ha 2 572,194 1,144 * 572 572 Formatting 2 514,840 1.029 * 515 515 1. Weir (LOW) h= 0.2 Mexage 488,869 9.777 * 2.933 6.844 Weir (midle) h= m 1 1.029 * 515 515 1. Weir (midle) h= m 1 1.029 * 2.933 6.844 Weir (midle) h= m 1 1.029 * 2.933 6.844 Weir (midle) h= m 1 1.029 * 2.933 6.844 Weir (midle) h= m 1 1.029 * 2.933 6.844 Weir (high) h= m 1 1.028 6 6 Canal II m 200 84.397 33.758 * 16.879 16.879 6 Canal II m < | 1. GENERAL ITEMS | ha 26 | 88,600 | | | | (1,000Rp) 0 |
| Clearing ha 1 1.050.000 1.050 * 525 525 Leveling s ha 2 572,194 1.144 * 572 572 Formatting 2 514,840 1.029 * 515 515 1. Weir<(LOW) | | | | | | | |
| Leveling s ha 2 572,194 1,144 * 572 572 Formatting 2 514,840 1,029 * 515 515 1. Weir (LOW) h= 0.2 m 20 488.869 9.777 * 2.933 6.844 Weir (midle) h= m n 1.144 * 572 572 1. Weir (midle) h= m n 6.844 1.029 * 515 515 1. Weir (midle) h= m n 6.844 1.029 * 515 515 1. Weir (midle) h= m n 6.844 1.029 * 515 6.844 Weir (midle) h= m n 6.844 1.029 * 6.844 Weir (midle) h= m n 1.008 8.44 1.008 1.008 Revetment Work nos Revetment Work nos Revetment Work nos Revetment Work nos 1.008 6.879 16.879 16.879 16.879 6 Canal II m 100 4.137 413 * 248 165 16 Turnout nos 100 12.597 <td></td> <td>1 () () () () () () () () () (</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> | | 1 () () () () () () () () () (| | | | | _ |
| Formatting 2 514,840 1.029 * 515 515 1. Weir (LOW) h= 0.2 m 20 488.869 9.777 * 2.933 6.844 Weir (midle) h= m n n n n n (high) h= m n n n n n n Intake gate nos Excavation m3 Revetment Work nos Rehabili. Apronnos New Canal I m Canal II m Canal II m Canal II m Canal II m S. Del. Canal I m 10.0 4.137 413 * 248 165 Turnout nos Culvert nos Culvert 1.008 Aqua-Duct m 200 12.597 2.519 * 1.511 1.008 | | and the second | | - | | | 0 |
| Weir (LOW) h= 0.2 m 20 488.869 9.777 * 2.933 6.844 Weir (midle) h= m (high) h= m intake gate nos Intake gate nos Excavation m3 Revetment Work nos Rehabili. Apronnos New Canal I m Canal II m Canal II m Canal II m 400 84.397 33.758 * 16.879 16.879 6 Canal II m 400 84.397 33.758 * 16.879 16.879 6 Canal II m 100 4.137 413 * 248 165 Turnout nos 00 12.597 2.519 * 1.511 1.008 Aqua-Duct m a a a a a a a Base set set set set set a b a b a a a a a a a a a a a a a a a a a a a | and the second | | | | | | 0 |
| Weir (midle) h= m (high) h= m Intake gate nos Excavation m3 Revetment Work nos Rehabili. Apronnos New Canal I m Canal II m Canal II m Reh. Canal I m 400 84.397 33.758 * 16.879 16.879 6 Canal II m S. Del. Canal m 100 4.137 413 * 248 165 Turnout nos Culvert nos O&M ROAD m 200 12.597 2.519 * 1.511 1.008 Aqua-Duct m Base set | | | | | | | |
| (high) h= m Intake gate nos Excavation m3 Revetment Work nos Rehabili. Apromos New Canal I m Canal II m Canal II m Reh. Canal I m 400 84.397 33.758 * 16.879 16.879 6 Canal II m S. Del. Canal m 100 4.137 413 * 248 165 Turnout nos Culvert nos Culvert nos Culvert nos Culvert nos Culvert nos Culvert nos S. Del. Canal m 200 12.597 2.519 * 1.511 1.008 | Weir (LOW) h= 0.2 | m 20 | 488,869 | 9,777 * | 2,933 | 6,844 | 0 |
| Intake gate nos Excavation m3 Revetment Work nos Rehabili. Apronnos New Canal I m Canal II m S. Del. Canal m 100 4.137 413 248 165 Culvert nos O&M ROAD m 200 12,597 2.519 1.511 1.008 | Weir (midle)h= | រា | | | •• | | |
| Excavation m3 Revetment Work nos Rehabili. Apronnos New Canal I m Canal II m Canal III m Reh. Canal I m Mex Canal II m Reh. Canal I m 400 84.397 33.758 * 16.879 16.879 6 Canal II m 400 84.397 33.758 * 16.879 16.879 6 Canal II m 100 4.137 413 * 248 165 Turnout nos 7 7 1.511 1.008 O&M ROAD m 200 12.597 2.519 * 1.511 1.008 Aqua-Duct m 8 8 8 8 | (high) h= | m | | · · · | | | |
| Revenuent Work nos Rehabili. Apronnos New Canal I m Canal II m Canal III m Canal III m Reh. Canal I m 400 84.397 33.758 * 16.879 16.879 6 Canal II m 400 84.397 33.758 * 16.879 16.879 6 Canal II m 100 4.137 413 * 248 165 Canal II m 200 12.597 2.519 * 1.511 1.008 O&M ROAD m 200 12.597 2.519 * 1.511 1.008 | Intake gate | nos | | • | | 1: | |
| Rehabili. Apronnos New Canal I m Canal II m Canal III m Canal III m Reh. Canal I m 400 84.397 33.758 * 16.879 100 4.137 413 * 248 165 Canal II m S. Del. Canal m 100 4.137 413 * 248 165 Turnout nos Culvert nos 0&M ROAD m 200 12,597 2.519 * 1,511 1.008 | Excavation | m3 | | · · · | | | |
| New Canal I m Canal II m Canal III m Canal II m Reh. Canal I m 400 84.397 33.758 * 16.879 100 84.397 33.758 * 16.879 100 4.137 11 m S. Del. Canal m 100 4.137 413 * 248 165 Turnout nos Culvert nos O&M ROAD m 200 12.597 2.519 * 1.511 1.008 Aqua-Duct m Base set | Revetment Work | t nos | | | | | |
| Canal II m Canal III m Reh. Canal I m 400 84,397 33,758 * 16.879 16.879 6 Canal II m M 400 84,397 33,758 * 16.879 16.879 6 Canal II m M M M M M M G G Canal II m M M M M M G G G G G G G M G | Rehabili. Apro | mnos | | | | | |
| Canal III m Reh. Canal I m 400 84.397 33.758 * 16.879 16.879 6 Canal II m m 100 4.137 413 * 248 165 S. Del. Canal m 100 4.137 413 * 248 165 Turnout nos 08 08 80.00 12.597 2.519 * 1.511 1.008 Aqua-Duct m ase set set 10.008 10.008 | New Canal I | m | | . • | | | |
| Canal III m Reh. Canal I m 400 84.397 33.758 * 16.879 16.879 6 Canal II m m 100 4.137 413 * 248 165 S. Del. Canal m 100 4.137 413 * 248 165 Turnout nos Culvert nos 1.511 1.008 O&M ROAD m 200 12.597 2.519 * 1.511 1.008 Aqua-Duct m Base set | Canal II | m | | | | | |
| Reh. Canal I m 400 84.397 33.758 * 16.879 16.879 6 Canal II m m 100 4.137 413 * 248 165 S. Del. Canal m 100 4.137 413 * 248 165 Turnout nos 0 0 12.597 2.519 * 1.511 1.008 Aqua-Duct m ase set set 100 100 100 | | m | | | | ÷ : | |
| Canal II m S. Del. Canal m M 100 4.137 413 * 248 165 Turnout nos Culvert nos O&M ROAD m 200 12,597 2.519 * 1,511 1.008 Aqua-Duct m Base set | | m 400 | 84, 397 | 33,758 * | 16,879 | 16,879 | 6,382 |
| S. Del. Canal m 100 4.137 413 * 248 165 Turnout nos Culvert nos Culvert nos 1.511 1.008 O&M ROAD m 200 12,597 2.519 * 1.511 1.008 Aqua-Duct m Base set Set Set | | m | | · · · | | + 1 | |
| Turnout nos Culvert nos O&M ROAD m 200 12,597 2,519 * 1,511 1,008 Aqua-Duct m Base set 1008 1008 1008 | | m 100 | 4,137 | 413 * | 248 | 165 | 106 |
| Culvert nos O&M ROAD m 200 12,597 2,519 * 1,511 1,008 Aqua-Duct m Base set 1 <t< td=""><td>and the second second</td><td>a she ta ka ta she</td><td></td><td></td><td></td><td></td><td></td></t<> | and the second | a she ta ka ta she | | | | | |
| O&M ROAD m 200 12,597 2,519 * 1,511 1,008 Aqua-Duct m Base set Set Set | | | | | | | |
| Aqua-Duct m Base set | a fa su anna a su an | | 12,597 | 2,519 * | 1,511 | 1,008 | 442 |
| Base set | and the second | | | . • | | | |
| | (a) The Association of the second s second second s Second second sec | | | | | | |
| | | | | | | | |
| | VURAL VUTUL | •42 | н. Н | | | | |
| | | | | | | | |
| sub-total 51,993 * 24,104 27.889 7 | cub-total | ja sta | | 51.993 * | 24.104 | 27,889 | 7,959 |

| • | | • • | | | | [KUTAMALE] | (8/30) |
|---------------------|-------|--|------------|----------------------|--------------------|--------------------|--|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | L/C | F/C J | Amount |
| 1. GENERAL ITEMS | ha | 40 | 88,600 | (1,000Rp) 3,544 * | (1,000Rp) 1,418 | (1,000Rp) 2,126 | (1,000Rp) 0 |
| 2. DIRECT CONSTRUCT | TON | | | • • • • | · . · | | |
| Clearing | ha | 3 | 1,050,000 | 3,150 * | 1,575 | 1,575 | 0 |
| Leveling s | ha | 8 | 572.194 | 4.577 * | | | 0 |
| Formatting | | 8 | 514,840 | 4.118 * | 2,059 | 2,059 | 4,118 |
| Weir (LOW) h= | m | | | | | 2,000 | x, 110 |
| Weir (midle)h= | m | | | | | | a da séries An series de la companya |
| (high) h= | m | | | | | | |
| Intake gate | nos | 1 | 1,077,694 | 1,077 * | 323 | 754 | 0 |
| Excavation | m3 | 5 | 2,705 | 13 * | 7 | 7 | 0 |
| Revetment Wor | k nos | | | | | | |
| Rehabili. Apro | onnos | | . , | | | | |
| New Canal I | m | | | | | | |
| Canal II | m | | | | | | · · · |
| Canal III | , m | | | | | | |
| Reh. Canal I | m · | n en | | | | | linga tara si ta |
| Canal II | m | 600 | 55,501 | 33,300 * | 16,650 | 16,650 | 6,342 |
| S. Del. Canal | m = | 400 | 4,137 | 1,654 * | 992 | 662 | 425 |
| Turnout | nos | 1 | 1,491.417 | 1,491 * | 596 | 895 | 0 |
| Culvert | nos | | | | | 1. A. A. A. A. | |
| O&M ROAD | m | 200 | 12.597 | 2,519 * | 1,511 | 1,008 | 442 |
| Aqua-Duct | m | | | | · | | |
| Base | set | . * | | | | . * | |
| Canal Cover | M | | | · · · | | | |
| | | | | | · · · | | 54 ⁻¹ |

sub-total

55,443 * 27,420

28,023

11, 327

| | | | | | [, | ASAHAN VIII] | | (9/30) |
|---------------------------------------|--------------|---------|---|-----------|-----|--------------|--|-----------|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | | L/C | F/C | L. Amount |
| | • | | | (1,000Rp) | | (1,000Rp) | (1,000Rp) | |
| 1. GENERAL ITEMS | ha | 66 | 88,600 | 5,847 | * | 2,339 | 3,508 | 0 |
| 2. DIRECT CONSTRUCTI | ON | : | : | | | | . 11 | |
| Clearing | ha | 13 | 1,050,000 | 13,650 | * | 6,825 | 6,825 | 0 |
| Leveling n | ha | 19 | 357,621 | 6,794 | * | 3, 397 | 3,397 | 0 |
| Formatting | | 19 | 514,840 | 9,781 | * | 4,891 | 4,891 | 9,781 |
| Weir (LOW) h= | m | | : | | | | | - - |
| Weir (midle)h= | m | | : | | | | | |
| (high) h= | m | | | | • | | | |
| Intake gate | nos | · . · · | | , | | | · | |
| Excavation | m3 | | | | | | | |
| Revetment Work | nos | | | | | | | |
| Rehabili. Apro | nnos | | | | | | an a | |
| New Canal I | m | | · . | | | 1 | · . | |
| Canal II | m | 600 | 59, 182 | 35,509 | * | 17,755 | 17,755 | 0 |
| Canal III | m | | | | | • | | |
| Reh. Canal I | m · | , the | | | - | | | |
| Canal II | n] : | 600 | 55,501 | 33, 300 | * | 16,650 | 16,650 | 6.342 |
| S. Del. Canal | m | 1,200 | 4.137 | 4,964 | * | 2,978 | 1,986 | 1,276 |
| Turnout | nos | | a rationationationationationationationation | • | ÷ į | | | |
| Culvert | nos | 6 | 323,363 | 1,940 | * | 776 | 1,164 | 0 |
| O&M ROAD | m | | | | | н 1. | | |
| Aqua-Duct | m | | | : | | | | · · |
| Pump q=2.7m3/m | set | 2 | 12,600,000 | 25,200 | * | 7,560 | 17,640 | 0. |
| Canal Cover | m | | | : | | | · . | |
| · · · · · · · · · · · · · · · · · · · | · | | | | | | | |
| cub-total | | : | | 136 985 | * | 63.170 | 73,815 | 17.399 |

sub-total

136.985 * 63,170 73.815

5 17,399

| | : | : . | | | | (10/30) [AEK STHIM] |
|------------------------|--------|-----------|------------|-------------------------|--|---|
| WORKS | UNII | ' QUANT'. | PRICE (Rp) | AMOUNT | l/C | F/C L. Aniount |
| 1. GENERAL LITEMS | ha | 48 | 88,600 | (1.000Rp) (1 4,252 * | | (1,000Rp) (1,000Rp) 2,551 0 |
| 2. DIRECT CONSTRUCTION | N | - | | | | 一种"我们的"。"我们是这一 |
| Clearing | | 8 | 1,050,000 | 8,400 * | 4,200 | 4,200 |
| Leveling s | | 8 | 572, 194 | | | 2.289 0 |
| Formatting | 114 | 8 | 514,840 | | 2,059 | and the second |
| Weir (LOW) h= 0.5 | ni | | 488,869 | 7,333 * | 2,200 | 5,133 |
| Weir (midle)h= | m | | | | | |
| (high) h= | m | | | | | |
| Intake gate | nos | | | | | anan sa ngawada ni ka |
| Excavation | m3 | · · · · | | | · · | |
| Revetment Work | | | · | | : . | |
| Rehabili. Apro | | | | | | |
| New Canal I | ណ | | | | $ _{\mathcal{H}_{\mathcal{H}}} = _{\mathcal{H}_{\mathcal{H}}}$ | |
| Canal II | m | ÷ 1. | | e ja an tu | nt sé | |
| | m | | | | | and the standard second |
| Reh. Canal I | ក | · . | | ÷ | | |
| Canal II | m | 600 | 55, 501 | 33,300 * | 16,650 | 16,650 6,342 |
| S. Del. Canal | M) | 400 | 4,137 | 1,654 * | 992 | 662 425 |
| Turnout | nos | 2 | 1,491,417 | 2,982 * | 1,193 | 1.789 0 |
| Culvert | nos | 2 | 323, 363 | 646 * | 258 | 388 0 |
| ORM ROAD | m | 800 | 12,597 | 10,077 * | 6,046 | 4,031 1,771 |
| Aqua-Duct | m | | A | | | |
| Base | set | | | | | and a second second Second second |
| Canal Cover | л П | ÷. | | 1 | | |
| | | | | | • | · |
| sub-total | | | | 77.339 * | 37,588 | 39,751 12,656 |

| | · . · · · | | | | [| KALU] | : | (11/30) |
|----------------------------------|------------|----------|--------------------|-----|----------------------|--------------------|--------------------|----------------|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMO | NI | L/C | F/C | L. Anount |
| 1. GENERAL ITEMS | ha | 70 | 88.600 | | | (1,000Rp) 2,481 | (1,000Rp) 3,721 | (1,000Rp) 0 |
| 2.DIRECT CONSTRUCTI Clearing | | | | | | | | |
| Leveling S Formatting | | 23 23 | 567,989 467,519 | | 13.063 * 10.752 * | | | |
| Weir (LOW) h= | m | 23 | 407, 313 | | 10,792 * | 5, 370 | 0,379 | 10, 732 |
| Weir (midle)h= (high) h= | M M | | | | | | | |
| Excavation | nos m3 | | | | | • • | | |
| Révetment Work Réhabili. Apro | | | | | | | | |
| New Canal I Canal II | m | | | | | | | |
| Canal III Reh. Canal I | m m | 500 | 54,409 | | 27,204 * | 13,602 | 13,602 | 3,799 |
| Canal II S.Del.Canal | m m | 1,100 | 3,478 | | 3.825 * | 2,295 | 1.530 | 558 |
| Turnout Culvert | nos nos | 2 | | | 631 * | | 379 | |
| 0&M ROAD Aqua-Duct | m m : | 400 | 11,061 | | 4,424 * | 2,654 | 1,770 | 422 |
| Base Canal Cover | set M | | | | | | | |
| sub-total | | | <u></u> | | 66,101 * | 33, 192 | 32,909 | 15, 531 |

sub-total

137

04,

VIII - 31

(11/30)

(12/30)

| | • • • | | | | : | [PAJJENGE] | |
|---------------------|------------|--------|-------------|--|--|-------------|--|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | L/C | F/C I | Amount |
| 1. GENERAL ITEMS | ha | | | (1,000Rp) 12,669 * | | | (1,000Rp) 0 |
| 2. DIRECT CONSTRUCT | ION | · . | | | | | |
| Clearing | ha | 1 | | | | | |
| Leveling | ha | 11 11 | | e da beta | | | |
| Formatting | | | | | e stationer and the second s | | |
| Weir (LOW) h= 0.5 | n | 28 | 351, 312 | 9,836 * | 2,951 | 6,885 | 0 |
| Weir (midle)h= | m | | . : | | | | |
| (high) h= | 1 1 | | | | | | ete e la |
| Intake gate | nos | | | | | | |
| Excavation | m3 | | | | | | |
| Revetment Work | nos | 1 | 1,318,440 | 1.318 * | 659 | 659 | 0 |
| Rehabili. Apro | nnos | | | | · . | | |
| New Canal I | m | | | | | | e grad ¹ e d |
| Canal II | m | | | and the second | | | |
| Canal III | m | | | | | | |
| eh. Canal I | m | 1,000 | 54,409 | 54,409 * | 27,205 | 27,205 | 7,598 |
| Canal II | . 01 | | | | | | |
| .Del.Canal | m | | a tetas est | | | | |
| urnout | nos | 3 | 1, 483, 848 | 4,451 * | 1,780 | 2,671 | 0 |
| ilvert | nos | ÷ 3 | 315,633 | 946 * | 378 | 568 | |
| M ROAD | m | 1,400 | 11,061 | 15,485 * | 9,291 | 6, 194 | 1,478 |
| jua-Duct | m | : | | a | | | |
| Base | set | | | ж. н. н | | | |
| unal Cover | m | ÷ | | | | Lage en tra | |
| | | • | | | | | |
| sub-total | | | | 99,114 * | 47,332 | 51,782 | 9,076 |

10055

| | | | n an | | | [KADIENG] | (13/30) |
|---------------------|---------|--------|---|-----------|-------------------|---------------------|-----------------|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | L/C | F/C | L. Amount |
| | | | | (1,000Rp) | | (1,000Rp) | (1.000Rp) |
| 1. GENERAL ITEMS | ha | 224 | 88,600 | 19.846 * | 7,938 | 11,908 | 0 |
| | | | en de la composition de la composition Carteria de la composition de la composit | : : | | · · · | |
| 2. DIRECT CONSTRUCT | | | 500 000 | | ан сайта. Алаг | | 2 |
| Clearing | | 1 | 500,000 | | | 250 | |
| Leveling n | | 53 | 354,993 | | | 9,407 | |
| Formatting | | 53 | | 24,778 * | | 12,389 | 24,778 |
| Weir (LOW) h= | | 30 | 578,121 | 17,343 * | 5,203 | 12,140 | . 0 |
| | m | . : | | | | | |
| | m | | | | : | 12. | - |
| Intake gate | 10.00 | | | | | | |
| Excavation | m3 | | | | | | |
| Revetment Worl | (nos | 2 - L | 1,318,440 | 1.318 * | 659 | 659 | . · 0 |
| Rehabili. Apro | nnos | | | | | | |
| New Canal I | m | | | | | a di ser Antonio | · |
| Canal II | . 19 | | | | | | |
| Canal III | m | | | | | | and the provide |
| Reh. Canal I | m | 4,000 | 54,409 | 217.636 * | 108,818 | 108,818 | 30,392 |
| Canal II | ក | | 1 | | | | |
| S.Del.Canal | m | 2,500 | 3,478 | 8,695 * | 5,217 | 3,478 | 1,268 |
| Turnout | nos | 8 | 1,483,848 | 11,870 * | 4.748 | 7,122 | 0 |
| Culvert | nos | ÷ . | | | | . : | · . |
| O&M ROAD | m | 2,000 | 11,061 | 22,122 * | 13,273 | 8,849 | 2,111 |
| Aqua-Duct | m | | | | | | le de Arra |
| Base | set | | | | | • | |
| Canal Cover | m | | 1. C | | | | |
| | | · . | | | | | · · |
| sub-total | | | | 342,922 * | 167,903 | 175,020 | 58, 549 |

342,922 *

(14/30)[KAINDI] AMOUNT L/CF/C L. Amount UNIT QUANT. PRICE (Rp) 1.6 1.3 WORKS (1,000Rp)(1,000Rp)(1,000Rp)(1,000Rp)3,774 0 6,290 * 2.516 71 88,600 1. GENERAL ITEMS ha 2. DIRECT CONSTRUCTION Clearing ha 32,375 * 16,188 16,188 0 567,989 57 Leveling S ha 13, 324 13.324 26,648 * 26,648 467,519 Formatting 57 3,642 8,498 0 12,140 * Weir (LOW) h= 21 578,121 1 m Weir (midle) h= m (high) h= M Intake gate nos Excavation mЗ 1.318 1.318 2,636 * 1,318,440 Revenment Work nos 2 Rehabili. Apronnos New Canal I m Canal II m Canal III m et gi Reh. Canal I m 10,658 3,020 Canal II 600 35, 526 21,315 * 10,658 П 3,756 1,369 5.634 9,390 * S. Del. Canal 2,700 3,478 m Turnout nos 0 946 * 378 568 315,633 Culvert 3 nos 2,111 11,061 22,122 * 13,273 8,849 **O&M ROAD** 2,000 Ш Aqua-Duct m Base set Canal Cover m

sub-total

133,862 * 66,931

66,931 33,148

| Į. | ñ | i | 40 | ÷., | |
|----|---|---|----|-----|--|
| E | v | T | 40 | | |

(15/30)

| |) ¹ 2 | | | | | [LEMBANG BA | [A] |
|------------------------------------|------------------|--|------------|--|-----------|-------------|--|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | L/C | F/C | L. Anount |
| 이는 것이 있지 않는다. 같은 전문 방법 방법 방법 방법 | | | | (1,000Rp) | (1,000Rp) | (1,000Rp) | (1,000Rp) |
| 1. GENERAL ITEMS | ha | 76 | 88,600 | 6.733 * | 2,693 | 4,040 | 0 |
| 2. DIRECT CONSTRUCTI | · · | | 1 | • | | | |
| Clearing | | | 500,000 | 2,000 * | 1,000 | 1,000 | 0 |
| Leveling S | | 4 | 567,989 | 2,271 * | 1,136 | 1.136 | 0 |
| Formatting Weir (LOW) h= | | 4 | 467,519 | 1.870 * | 935 | 935 | 1,870 |
| Weir (midle)h= 1.5 | m | | 886,424 | 26,592 * | 7,978 | 18,614 | 0 |
| (high) h= | | | | | | | · . |
| Intake gate | 1.1 | | | 1 : | | | |
| Excavation Revetment Work | | 1 | 1,318,440 | 1 910 . | 050 | ССО | 0 |
| Rehabili. Apro | 4 | 1 | 1,310,440 | 1.318 * | 659 | 659 | 0 |
| New Canal I | m | ta series de la composición de la composicinde la composición de la composición de la composición de l | | | · | | an a |
| Canal II | m | 900 | 38 539 | 34,685 * | 17 3/3 | 17 342 | .0 |
| Canal III | m | | 00,000 | 04,000 # | 17,040 | 17,040 | .0 |
| Reh. Canal I | m | | | | | | |
| Canal II | | 600 | 35, 526 | 21,315 * | 10,658 | 10,658 | 3.020 |
| S. Del. Canal | nì | | 3.478 | and the second | 417 | | 101 |
| Turnout | nos | | 1,483,848 | | 2,968 | | 0 |
| 0.1 | nos | | | | | | 0 |
| O&M ROAD | m | | | · . | | н. Н | |
| Aqua-Duct | m | | | | | | |
| Base | set | | | | | , | |
| Canal Cover | m | | | | | | |
| | : | | | · · · · · · | | | |

sub-total

104.898 * 45.785 59.113 4.991

(16/30)

[PANRITA]

| WORKS | UNIT QUANI | · PRICE (Rp) | AMOUNT | L/C | F/C | L. Amount |
|--|------------|--------------|---|---|--|---|
| | | | (1,000Rp) | (1,000Rp) | (1,000Rp) | (1.000Rp) |
| . GENERAL ITEMS | ha 6 | 5 88,600 | 5,759 * | 2,304 | 3,455 | 0 |
| DIRECT CONSTRUCTIO | : | | | | | |
| 1 | | | | | | |
| Clearing | | 0 054 000 | 700 | 066 | 0.55 | • |
| Leveling n | | | 709 * | 355 | 355 | 0 |
| Formatting | | | 935 * | 468 | | 935 |
| Weir (LOW) h= 0.6 | | 7 351, 312 | 2.459 * | 738 | 1,721 | 0 |
| Weir (midle)h= | | | an a | 1.11 | | |
| (high) h= | | | | | | |
| Intake gate | | | | | na e seguite. Angelse seguite | |
| Excavation | | | | | | |
| Revetment Work | · | | | 1 | | a shaharan a |
| Rehabili. Apron | nos | · | | | | |
| and the second | m | | ar an | | | |
| Canal II | m . | | | | | · · · · |
| Canal III | m | | | | 111 | ÷ * |
| eh. Canal I | m. | | | n de la composición d Reference de la composición de la compos | | |
| Canal II | m 40 | 35,526 | 14,210 * | 7.105 | 7,105 | 2,013 |
| Del. Canal | ni 100 | 3, 478 | 347 * | 208 | 139 | 50 |
| rnout | nos | | in the second second | | | |
| ilvert | nos | | | | an a | |
| M ROAD | 11 | | | н 1 | • | |
| D | 1 | | | | : | 가지 않는다. |
| - : | set | | | | an a | |
| | n | | | | n an | |
| | | 4 t. | | | | : 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 |

sub-total

24, 419 * 11, 177 13, 243 2, 998

......

(17/30)

[MARIO I-II-III]

| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | L/C | F/C | L. Amount |
|------------------------|------|--------|--|------------|---------------------------------------|-----------|-----------------|
| | | | | (1, 000Rp) | (1,000Rp) | (1,000Rp) | (1,000Rp) |
| 1. GENERAL ITEMS | ha | ~ 57 | 88,600 | 5,050 * | 2,020 | 3,030 | 0 |
| | | | | | | | н. н. на |
| 2. DIRECT CONSTRUCTION | | | | | | | |
| Clearing | | | | | · . | · · · | |
| Leveling s | ha | 7 | 567,989 | 3,975 * | 1,988 | 1,988 | C C |
| Formatting | | 7 | 467,519 | 3,272* | 1,636 | 1,636 | 3,272 |
| Weir (LOW) h= 0.5 | m | 10 | 351.312 | 3,513 * | 1,054 | 2,459 | · · · · · (|
| Weir (midle)h= | m | | | | | | |
| (high) h= | ៣ | | t e Alinati | | | | |
| Intake gate | nos | 2 | 1,076,057 | 2,152 * | 646 | 1,506 | (|
| Excavation | | | · * | | | | |
| Revetment Work | | . 1 | 1,318,440 | 1,318 * | 659 | 659 | (|
| Rehabili. Apro | | | | | · · · · · · · · · · · · · · · · · · · | · · · | |
| New Canal I | | | | | | | |
| Canal II | | 400 | 38, 539 | 15,415 * | 7.708 | 7,708 | . (|
| Canal III | m | | 001000 | 100 000 | | | · · |
| Reh. Canal I | | | · . | · · · · · | | | |
| Canal II | m | 800 | 35,526 | 28 420 4 | 4,210 | 14, 210 | 4,027 |
| | | 400 | | 1,391 * | | 556 | · · · · |
| たたい 医療の しんじゅう | m | 400 | 9,410 | 1,001 | | 000 | |
| | nos | · · · | 916 699 | 315 * | 126 | 189 | . (|
| Culvert | nos | | and the second | | 1,991 | 1,327 | |
| O&M ROAD | m | 300 | 11,061 | 3, 310 4 | 1, 331 | 1,047 | 510 |
| Aqua-Duct | m | | | | | | |
| Base | set | | н - | | | | |
| Canal Cover | m | | | | | | |
| | | . • | | | | | 4 ¹⁴ |

sub-total

68,139 * 32,871

35,268

7.817

| | | | | | | (PAKELLI II | |
|----------------------|------|---------------------------------------|------------|----------------------|--------|---------------------------|---|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | I./C | F/C | L. Amount |
| 1. GENERAL ITEMS | ha | 54 | 88,600 | (1,000Rp) 4,784 * | | | (1,000Rp) 0 |
| 2. DIRECT CONSTRUCTI | ON | | | | | e yes | |
| Clearing | ha | 16 | 500,000 | 8,000 * | 4,000 | 4,000 | 0 |
| Leveling s | ha | 35 | 567.989 | 19,879 * | 9,940 | 9,940 | $(\mathbf{u}_{1},\mathbf{u}_{2}) \in \{\mathbf{u}_{1},\mathbf{u}_{2}\} \to 0^{T}$ |
| Formatting | | 35 | 467,519 | 16,363 * | 8,182 | 8,182 | 16,363 |
| Weir (LOW) h= 0.8 | n) | · · · 50 | 464,804 | 23,240 * | 6,972 | 16,268 | 0 . |
| Weir (midle)h= | m | | | | | $\mathcal{L}_{p}^{(1)}$ (| |
| (high) h= | m | | | | | | |
| Intake gate | nos | 11 | | | | | |
| Excavation | m3 | | | · | | | |
| Revetment Work | nos | · · · · · · · · · · · · · · · · · · · | 1,318,440 | 1,318 * | 659 | 659 | |
| Rehabili. Apro | nnos | | ۰. | | • | a ten pala | |
| New Canal I | m | | · · · | : | | | |
| Canal II | m | . i. | - | di altino. | | | an faith a star |
| Canal III | m : | | | | | | |
| Reh. Canal I | m | 600 | 54,409 | 32,645 * | 16,323 | 16.323 | 4,558 |
| Canal II | ៣ | | | e et para | | | en prese |
| S. Del. Canal | m | 1,600 | 3,478 | 5.564 * | 3,338 | 2.226 | 811 |
| Turnout | nos | | | | · · | | |
| Culvert | nos | 4 | 315,633 | 1,262 * | 505 | 757 | 0 |
| O&M ROAD | m | 400 | 11,061 | 4,424 * | 2,654 | 1,770 | 422 |
| Aqua-Duct | m | | | | | | |
| Base | set | ÷ | | | | | |

(18/30)

sub-total

Canal Cover

Π

117,479 *

62.993

54,486

22,154

| | | | | | | | | (PADAELO) | (19/30 |
|----------------------|------|----------------|------------------|-----|---------------------|----|--------------------|--------------------|---------------------------------------|
| WORKS | UNIT | QUANT. | PRICE (Rp) | • : | AMOUNT | • | L/C | F/C | L. Amount |
| 1. GENERAL ITEMS | ha | 138 | 88,600 | | (1,000Rp) 12,226 | | (1,000Rp) 4,890 | (1.000Rp) 7,336 | (1,000Rp) 0 |
| 2. DIRECT CONSTRUCTI | ON | | | | | | | | |
| Clearing | ha | 41 | 500,000 | | 20,500 | * | 10,250 | 10,250 | : 0 |
| Leveling n | ha | 61 | 354,993 | | 21,654 | | 10,827 | 10,827 | 0 |
| Formatting | | 61 | 467,519 | | 28,518 | | 14,259 | 14, 259 | - |
| Weir (LOW) h= | m | · | | | | | | | |
| Weir (midle)h= | m | | | . • | | | | · . · | |
| (high) h= | m | | | | · · · | | | | |
| Intake gate | nos | . • | | | | | | | 1. J. A. |
| Excavation | m3 | | 1 | | | | | | |
| Revetment Work | nos | . ¹ | والمتحدث والمحاج | | · · · | | | 1 | · · · · |
| Rehabili. Apro | nnos | : | | | | | | · . | |
| New Canal I | m | 1,000 | 57,779 | | 57,779 | * | 28,890 | 28,890 | 0 |
| Canal II | m. | 2,000 | 38,539 | | 77.078 | * | 38,539 | 38,539 | . 0 |
| Canal III | m | | | | | | | | |
| Reh. Canal I | m | | | | · . | | | · . | · . |
| Canal II | . 61 | | | | | | | | ÷ . |
| S. Del. Canal | m | 4,500 | 3,478 | | 15,651 | * | 9,391 | 6,260 | 2.283 |
| Turnout | nos | · . | | | | | | | |
| Culvert | nos | | | | | | | | |
| O&M ROAD | m | | | | | | | | |
| Aqua-Duct | m | | | | | | | | |
| Pump q=3.0m3/m | set | 4 | 12,600,000 | | 50,400 | * | 15.120 | 35,280 | 0 |
| Canal Cover | m | • | | | | | | | · · · · · · |
| | | | | | | | | | |
| | | | | | | '- | | | · · · · · · · · · · · · · · · · · · · |

sub-total

283,806 * 132,166 151,641

30,801

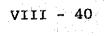
| 1 | (| 2 | 0 | 7 | 3 | Ò |) | |
|---|---|---|---|---|---|---|---|--|
| | | | | | | | | |

| | | | | 1 ¹ * | | [MALIMBU] | (20/00) |
|--------------------|----------------------|-----------|------------|--|--------------------|---------------------------------------|---|
| WORKS | UNIT | ' QUANT. | PRICE (Rp) | AMOUNT | L/C | F/C | L. Amount |
| 1. GENERAL ITEMS | ha | 32 | 88,600 | (1.000Rp) 2.835 * | (1,000Rp) 1,134 | (1,000Rp) 1,701 | (1,000Rp) 0 |
| 2. DIRECT CONSTRUC | TTON | | | | | | |
| Clearing | ha | | 1. | | · · | | |
| Leveling | ha | · · · | | | | | an an taon an t |
| Formatting | | | | an a | | | |
| | 1 m | 40 | 578, 121 | 23,124 * | 6,937 | 16, 187 | · · · · · |
| Weir (midle)h= | m | | | | 01001 | 10, 107 | U |
| (high) h= | ш | | | | . * | | e de la composition d Composition de la composition de la comp |
| Intake gate | nos | | | ÷ | | general de la | |
| Excavation | тЗ | | | - | | e e e e e e e e e e e e e e e e e e e | |
| Revetment Wo | rk nos | 1 | 1,318,440 | 1,318 * | 659 | 659 | 0 |
| Rehabili. Ap | ronnos | · · · | | | | | |
| New Canal I | តា | the state | | | | ta in star in si | |
| Canal II | m | 100 | 38,539 | 3,853 * | 1,927 | 1,927 | 0 |
| Canal III | m | | • | | | | e de la composition d |
| Reh. Canal I | m | | | | e Maria | | |
| Canal II | ា | 400 | 35, 526 | 14.210 * | 7,105 | 7,105 | 2,013 |
| S. Del, Canal | នា | · | | | | | inter pri |
| Turnout | nos | 1 | 1,483,848 | 1,483 * | 593 | 890 | 0 |
| Culvert | nos | | | | | | a faith a |
| O&M ROAD | | 1 | | d. | | | |
| Aqua-Duct | m | | | | | | |
| Base | set | 1 | | | | 15 | |
| Canal Cover | m | | | · . | | | |
| | | | | · · · . | | | |

sub-total

46,823 * 18,355 28,468

2,013



| | | | | | ÷ | |
|----|--------|----|-----|----------|------------------|----|
| | \sim | ч. | _ / | γ | \boldsymbol{n} | ١. |
| 1 | 2 | 1 | 1 | . " | v. | ł |
| ۰. | | | 1 | ~ | ~ | |

| · · · · · · · · · · · · · · · · · · · | | | : · · · · | | | [SALU AKUNG |] |
|--|---|--------|---|----------------------|-------|-------------|------------------------|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNI | L/C | F/C | L. Amount |
| 1. GENERAL ITEMS | ha | 26 | 88,600 | (1,000Rp) 2,303 * | | | (1,000Rp) |
| | | 10 | 00,000 | 2,JUJ * | 921 | 1,382 | 0 |
| 2. DIRECT CONSTRUCTI | ON | | | | | | |
| Clearing | ha | | | | | · · · · · | |
| Leveling | ha | . * | | | | | |
| Formatting | | | · · · · | | | | - : |
| Weir (LOW) h= | m | | · · · · · | | •: | | . • • |
| Weir (midle)h= | m | | e e de la composition | | | · . | · · · |
| (high) h= 2 | m | 15 | 1,543,883 | 23,158 * | 6,947 | 16,211 | 0 |
| Intake gate | nos | | | | | | |
| Excavation | m3 | | | ÷ | | | |
| Revetment Work | nos | - 1 | 1.318,440 | 1,318 * | 659 | 659 | 0 |
| Rehabili. Apro | nnos | | | | | | 1. (1. ¹⁴) |
| New Canal I | នា | | | | | | |
| Canal II | m | | | 1 | | • | |
| Canal III | m | | | | | | |
| and the second | m | | 1 | | | | · · · |
| Canal II | m | 500 | 35.526 | 17,763 * | 8,882 | 8,882 | 2,516 |
| S. Del. Canal | m | | | | | | |
| Turnout | nos | | | | | | |
| Culvert | nos | | | | | | |
| 0&M ROAD | m . | 550 | 11,061 | 6,083 * | 3,650 | 2,433 | 580 |
| Aqua-Duct | m | · . | | | | | н. Т. |
| Base | set | | | | | | |
| Canal Cover | m | | : | | | | |
| | 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - | | | | | | |

sub-total

50,625 * 21,059 29,566

.9,566 3,096

| en al la constante de la consta La constante de la constante de | | | : | | | | [MARIRI] | (22/30) |
|--|------|--------|-----------------|--------------------|-------|---------|--|--|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | L/ | C | F/C | L. Amount |
| 1. GENERAL ITEMS | ha | 63 | 88,600 | (1,000Rp) 5,581 | | 1 B | | |
| 2. DIRECT CONSTRUCTION | ON | | • | | | · · · · | | a se de la companya de la companya Esta de la companya d |
| Clearing | ha | | | | | | | |
| Leveling n | ha | 29 | 354,993 | 10,294 | * | 5,147 | 5.147 | 60 (<u>1</u> 1 2 4 5 0) |
| Formatting | ** . | 29 | 467,519 | 13,558 | * | 6,779 | 6,779 | 13,558 |
| Weir (LOW) h= 1 | m | 17 | 578,121 | 9,828 | | | | |
| Weir (midle)h= | m | | * · · · · · | | | | | |
| (high) h= | m | | i de la seconda | - · . | ÷ | | | |
| Intake gate | nos | | | | | ÷ . | والمراجع المراجع | |
| Excavation | m3 | | | 1 | | | | |
| Revetment Work Rehabili. Apror | | - 1 | 1.318,440 | 1,318 | * | 659 | 659 | le replace (e. <mark>0</mark> .) Guidenne (e. |
| New Canal I | m | | · | | | | | |
| Canal II | m | 1,500 | 38,539 | 57,808 | * 28 | 3,904 | 28,904 | 0 |
| Canal III | m | | · . | | | | | |
| Reh. Canal I | m | 600 | 54,409 | 32,645 | * 16 | 5, 323 | 16,323 | 4,558 |
| Canal II | ai | | | | | A. | | n an tha an t |
| S. Del. Canal | m | 600 | 3,478 | 2,086 | | , 252 | 834 | 304 |
| Turnout | nos | • | | · · · · · | a a a | 1. 1 | an a | |
| Culvert | nos | : | | | | | 44.00 | |
| O&M ROAD | m | | | | | ÷ | | |
| Aqua-Duct | m | | | | · | | n an | |
| Base | set | | | | | | | i sana i sa |
| Canal Cover | m | • | - | · · · | | | | and the second |

sub-total

133, 118 * 64, 244 68, 874 18, 420

| | : 1 | | | | [| DANAR JENGKA | ING] | (23/30) |
|--|---------------------------------------|-------------|------------|---------------|--------------|---------------|-----------|-----------|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | | l./C | F/C | L. Amount |
| | · · · · · · · · · · · · · · · · · · · | | | (1, 000Rp) | | (1.000Rp) | (1.000Rp) | (1,000Rp) |
| 1. GENERAL ITEMS | ha | 120 | 88,600 | _ | | 4,253 | 6,379 | – |
| 2. DIRECT CONSTRUCTI | ON | - - - | | | | | ··· . | |
| and the second | ha | 115 | 570,000 | 65,550 | * | 32,775 | 32,775 | 0 |
| Leveling n | | 115 | 355,235 | 40,852 | | 20,426 | 20,426 | 0 |
| Formatting | | 115 | 473,947 | 54,503 | | 27.252 | 27,252 | |
| Weir (LOW) h= | m | 1 | | • • • • • • • | - | 511 101 | 01,000 | 01,000 |
| Weir (midle)h= 1.2 | m | 10 | 667,233 | 6,672 | * | 2,002 | 4,670 | 0 |
| (high) h= | | | - | • • • • | | | | |
| Intake gate | nos | 1 | 1,076,334 | 1,076 | * | 323 | 753 | 0 |
| Excavation | | | 2,283 | 6,849 | * | 3,425 | 3,425 | 0 |
| Revetment Work | nos | 1 | 1,380,860 | 1,380 | * | 690 | 690 | · · 0· |
| Rehabili. Apro | nnos | | | · | | . 1 | | |
| New Canal I | m | | | | | | | |
| Canal II | m | 2,000 | 40,887 | 81,774 | * | 40,887 | 40.887 | 0 |
| Canal III | m | | | | | | | |
| Reh. Canal I | m | 400 | 57,777 | 23,110 | * | 11,555 | 11,555 | 3,494 |
| Canal II | m | | | | | | | |
| S. Del. Canal | m | 5,000 | 3,574 | 17,870 | ¥ | 10,722 | 7,148 | 2,913 |
| Turnout | nos | 3 | 1.247.821 | 3,743 | * | 1.497 | 2,246 | 0 |
| Culvert | nos | 1 | 274,050 | 274 | * | 110 | 164 | 0 |
| O&M ROAD | m | | | | | | | |
| Aqua-Duct | m | 28 | 1,841,708 | 51,567 | * | 15.470 | 36,097 | . 0 |
| Base | set | 1 | 8,257,303 | | | 4,129 | 4, 129 | 11 |
| Canal Cover | m | 1.000 | 37,776 | 37,776 | * | 18.888 | 18,888 | : 0 |
| | : | | | | · <u>·</u> · | | | |

sub-total

194.402 411,885 *

217,483 60,910

VIII - 43

(23/30)

(24/30)

| Weir (midle) h= m (high) h= m Intake gate nos Excavation m3 Revetment Work nos 1 1,380,860 1,380 * Rehabili. Apronnos New Canal I m Canal II m |)Rp) (1.000Rp) | L. Amount |
|--|--|---|
| 1. GENERAL ITEMS ha 70 88,600 6,202 * 2, 2. DIRECT CONSTRUCTION Clearing ha Leveling ha Formatting Weir (LOW) h= 0.8 m 12 471,510 5.658 * 1, Weir (midle) h= m (high) h= m Intake gate nos Excavation m3 Revetment Work nos 1 1.380,860 1.380 * Rehabili. Apronnos New Canal I m Canal II m | | (1 000Pm) |
| Clearing ha Leveling ha Formatting Weir (LOW) h= 0.8 m 12 471,510 5.658 * 1. Weir (midle) h= m (high) h= m Intake gate nos Excavation m3 Revetment Work nos 1 1.380,860 1.380 * Rehabili. Apronnos New Canal I m Canal II m | | |
| Leveling ha Formatting Weir (LOW) h= 0.8 m 12 471,510 5.658 * 1. Weir (midle) h= m (high) h= m Intake gate nos Excavation m3 Revetment Work nos 1 1.380,860 1.380 * Rehabili. Apronnos New Canal I m Canal II m | | n 1910 - Antonio Jacobier, 1910 - Antonio |
| Formatting Weir (LOW) h= 0.8 m 12 471,510 5.658 * 1. Weir (midle) h= m (high) h= m Intake gate nos Excavation m3 Revetment Work nos 1 1.380.860 1.380 * Rehabili. Apronnos New Canal I m Canal II m | | |
| <pre>Weir (LOW) h= 0.8 m 12 471,510 5.658 * 1, Weir (midle) h= m (high) h= m Intake gate nos Excavation m3 Revetment Work nos 1 1.380.860 1.380 * Rehabili. Apronnos New Canal I m Canal II m</pre> | | · · · · · |
| Weir (midle) h= m (high) h= m Intake gate nos Excavation m3 Revetment Work nos 1 1,380,860 1,380 * Rehabili. Apronnos New Canal I m Canal II m | | |
| (high) h= m Intake gate nos Excavation m3 Revetment Work nos 1 1,380,860 1,380 * Rehabili. Apronnos New Canal I m Canal II m | 697 3,961 | 0 |
| Intake gate nos Excavation m3 Revetment Work nos 1 1,380,860 1,380 * Rehabili. Apronnos New Canal I m Canal II m | | |
| Excavation m3 Revetment Work nos 1 1,380,860 1,380 * Rehabili. Apronnos New Canal I m Canal II m | | |
| Revetment Work nos 1 1,380,860 1,380 * Rehabili. Apronnos New Canal I m Canal II m | | |
| Rehabili. Apronnos New Canal I m Canal II m | | |
| New Canal I m Canal II m | 690 690 | 0 |
| New Canal I m Canal II m | | |
| | · · · · · · · · · · · · · · · · · · · | |
| | | |
| Canal III m | an a | |
| Reh. Canal I m 1,000 57,777 57,777 * 28,6 | 889 28,889 | 8,737 |
| Canal II m | | |
| S. Del. Canal m 400 3, 574 1, 429 * | 857 572 | 233 |
| Turnout nos | | |
| Culvert nos 1 274,050 274 * | 110 164 | 0 |
| | 381 4.920 | 1,333 |
| Aqua-Duct m | | |
| Base set | | |
| Canal Cover m | | e de la companya de l La companya de la comp |
| | | |
| sub-total 85.021 * 42, | | 10,303 |

| ······································ | | · · · · · | . * | [U | MA LEBANG] | | (25/30) |
|--|--------------------------|---------------------------------------|--|------------|------------|-------------|-----------|
| WORKS | UNIT QUANT. | PRICE (Rp) | AMOUNT | • - | L/C | F/C | L. Amount |
| | | | (1,000Rp) | | (1,000Rp) | (1,000Rp) | (1,000Rp) |
| 1. GENERAL L'ITEMS | ha 89 | 88,600 | 7,885 | | 3,154 | 4,731 | 0 |
| 2. DIRECT CONSTRUCT | ION | | .* | | | | .* |
| Clearing | ha | | | | | | |
| Leveling n | ha 21 | 355,235 | 7,459 | * | 3,730 | 3,730 | . 0 |
| Formatting | 21 | 473,947 | 9,952 | | 4,976 | 4,976 | 9,952 |
| Weir (LOW) h= | m | | : | | | 1,010 | 0,005 |
| Weir (midle)h= 1.5 | 5 m 7 | 900,861 | 6,306 | * | 1,892 | 4,414 | 0 |
| (high) h= | m | · · · · · · · · · · · · · · · · · · · | | | , | -, | |
| Intake gate | nos | | | | | | |
| Excavation | m3 | · | | | | | |
| Revetment Worl | knos 1 | 1,380,860 | 1,380 | * | 690 | 690 | 0 |
| Rehabili. Apro | nnos | · · · | | | | | |
| New Canal I | m 150 | 61,367 | 9,205 | * | 4,603 | 4,603 | 0 |
| Canal II | n m a ana ana ang | | an a | | | sa 1. st | |
| Canal III | m · | | | | | | |
| Reh. Canal I | m 500 | 57,777 | 28,888 | * | 14, 444 | 14,444 | 4,368 |
| Canal II | m | | | | | | |
| S. Del, Canal | m 1.000 | 3,574 | 3,574 | * | 2,144 | 1,430 | 582 |
| Turnout | nos 1 | 1,247,821 | 1,247 | * | 499 | 748 | 0 |
| Culvert | nos 1 | 274,050 | 274 | * | 110 | 164 | 0 |
| O&M ROAD | m 2,000 | 11, 183 | 22,366 | ¥ | 13, 420 | 8,946 | 2.423 |
| Aqua-Duct | m i i | | | | | | |
| Base | set | | | | | | |
| Canal Cover | m | · · · · | | | | | |
| | | | | | | | |
| | | | | | · | | |

sub-total

98,536 * 49,660 48,876

876 17,325

| | | ·. | [£ | 3] | (26/30) | |
|-------------------------|-------------|-------------|---------------------------------------|---|---|----------------|
| WORKS | UNIT QUANT. | PRICE (Rp) | AMOUNT | L/C | F/C L | Amount |
| 1. GENERAL ITEMS | ha 34 | 88.600 | (1,000Rp) 3,012 * | | (1.000Rp) 1,807 | (1,000Rp) 0 |
| 2. DIRECT CONSTRUCT | ION | | • • • • | | | |
| Clearing | ha | | · · · · · · · · · · · · · · · · · · · | | | |
| Leveling n | ha | - 1 I | | | | |
| Formatting | | | | | | |
| Weir (LOW) h= | m | | | · · · · · | | |
| Weir (midle)h= | m | · · · · | | | t se de la se de la La se de la s | laul thail |
| (high) h= 1. | 9 m 7 | 1,583,240 | 11.082 * | 3,325 | 7,757 | 0 |
| Intake gate | nos | | | | and the second | |
| Excavation | | | : | | | |
| Revetment Worl | | 1,380,860 | 1.380 * | 690 | 690 | 0 |
| Rehabili. Apro | | | | 1 . | nan seren en e | |
| Vew Canal I | B 100 | 10 007 | 1 000 | 0.044 | 0.044 | 0 |
| Canal II | m 100 | 40,887 | 4.088 * | 2,044 | 2,044 | Ű |
| Canal III | | a di saa sa | | anda An ang ang ang ang ang ang ang ang ang an | n an trainin an train Taona an train Taona an taona an taona | |
| eh. Canal I Canal II | m m 600 | 37.776 | 22,665 * | 11,333 | 11,333 | 3,473 |
| .Del.Canal | m ooo | 51.110 | 22,003 + | 11,000 | 11,000 | 0,410 |
| urnout | nos 2 | 1,247,821 | 2.495 * | 998 | 1,497 | 0 |
| ulvert | nos 2 | | 548 * | 219 | 329 | |
| EM ROAD | m 500 | | 5,591 * | 3,355 | 2,236 | 605 |
| jua-Duct | m 000 | | | | _,, | |
| Base | set | | | | | 28 - 19 |
| anal Cover | m | | | 1. | | |
| | | | | | | |
| sub-total | - | | 50,861 * | 23, 168 | 27,693 | 4.078 |

| | · · · · · · · · · · · · · · · · · · · | | [LENGKOK DUDU] | | | | | |
|----------------------|---------------------------------------|---------|----------------|------------------------------|---------------------|-------------|--|--|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNI | L/C | F/C | | |
| | : | | | (1,000Rp) | (1.000Rp) | (1,000Rp) | | |
| 1. GENERAL L'IEMS | ha | 26 | 88,600 | 2,303 * | 921 | 1,382 | | |
| 2. DIRECT CONSTRUCTI | ON | · · · · | | н. Табратана Табратана | • • | | | |
| | ha | 2 | 570,000 | 1,140 * | 570 | 570 | | |
| Leveling n | ha | 2 | 355,235 | 710 * | | 355 | | |
| Formatting | | 2 | 473,947 | 947 * | 474 | 555 474 | | |
| Weir (LOW) h= | m | - | | • • • • | T 1 T | 4/4 | | |
| Weir (midle)h= | m | | | | | | | |
| (high) h= 4 | m | 20 | 2,307,429 | 46.148 * | 13,844 | 32,304 | | |
| Intake gate | nos | 1 | 1.076,334 | 1,076 * | 323 | 753 | | |
| Excavation | mЗ | | | ÷ | | · · · · · · | | |
| Revetment Work | nos | : 1 | 1,380,860 | 1.380 * | 690 | 690 | | |
| Rehabili. Apro | nnos | | | • : • | | | | |
| New Canal 1 | m | | | | | | | |
| Canal II | m | | | | | · · · · · | | |
| Canal III | m | | н. С | | | | | |
| Reh. Canal I | П | · · | | | | 1. | | |
| Cana1 II | m | 600 | 37,776 | 22.665 * | 11.333 | 11,333 | | |
| S. Del. Canal | m, E | | | | | . ** | | |
| Turnout | nos | 2 | 1,247,821 | 2.495 * | 998 | 1,497 | | |
| Culvert | nos | | 2.1 | · | | | | |
| O&M ROAD | m | 100 | 11.183 | 1,118 * | 671 | 447 | | |
| Aqua-Duct | m | | · | | · · · | | | |
| Base | set | | | | | | | |
| Canal Cover | m | | | | | | | |
| | | | | | | | | |

sub-total

79,982 * 30,178 49,804

(27/30)

(28/30)

| | | | | [Kerokos Udang] | | | | | | |
|------------------------|------------|-----------|------------|----------------------|------------|---|--|--|--|--|
| WORKS | UNIT | QUANT. | PRICE (Rp) | AMOUNT | l/C | F/C L | . Amount | | | |
| 1. GENERAL ITEMS | ha | 111 | 88,600 | (1,000Rp) 9,834 * | | (1,000Rp) 5,900 | | | | |
| | | | | • | | an a guis | | | | |
| 2. DIRECT CONSTRUCTION |)N (| | | · . · · | | | | | | |
| Clearing | ha | · . | | o 110 . | 1 705 | 1 705 | | | | |
| | ha | | 568,376 | | 1,705 | | 2,843 | | | |
| Formatting | | 6 | 473,947 | | 1,422 | | 2,043 | | | |
| Weir (LOW) h= 0.5 | m | 6 | 356,368 | 2,138 * | 641 | 1,497 | U | | | |
| Weir (midle)h= | m | | | | - 4 - 1 | | | | | |
| (high) h= | m | | | | | 5. | an a | | | |
| Intake gate | nos | | | | | | | | | |
| Excavation | mЗ | | | e se se la | | . : : | | | | |
| Revetment Work | nos | 1 | 1,380,860 | 1.380 * | 690 | 690 | 0 | | | |
| Rehabili. Apro | nnos | | | - | | | an a | | | |
| New Canal I | n | | | | | | u Alexandre († 1917) 1917 - Alexandre Alexandre († 1917) | | | |
| Canal II | M | | | e je se takina | | | n da karan d Karan da karan da kar | | | |
| Canal III | m | | | | a strajet | | n en el Recentration de la R | | | |
| Reh. Canal I | m . | 650 | 57,777 | 37.555 * | 18,778 | 18,778 | 5,679 | | | |
| Canal II | m | 1993 - | | | | | | | | |
| S. Del. Canal | m | 300 | 3,574 | 1,072 * | 643 | 429 | 174 | | | |
| furnout | nos | 2 | 1,247,821 | 2,495 * | 998 | | 0 | | | |
| Culvert | nos | 4 | 274,050 | 1,096 * | 438 | 658 | 0 | | | |
| O&M ROAD | m | 450 | 11,183 | 5,032 * | 3,019 | 2,013 | 545 | | | |
| Aqua-Duct | m | | | | | | ann Airch Rh. Claim | | | |
| Base | set | | | | | | | | | |
| Canal Cover | m | an Ang | | | | in a start de la seconda d Seconda de la seconda de la | en de la filipe | | | |
| | | | . * | | | | | | | |
| | | | | | <u> </u> | | <u></u> | | | |

sub-total

66,855 * 34,587 32,268

9,241

vIII -48

[RABA SANGGA] WORKS UNIT QUANT. PRICE (Rp) AMOUNT L/C F/C L. Amount -----(1,000Rp)(1, 000Rp)(1,000Rp)(1,000Rp) 1. GENERAL ITEMS 111 ha 88,600 9,834 * 3,934 5,900 0 2. DIRECT CONSTRUCTION Clearing ha Leveling s ha Formatting Weir (LOW) h= m Weir (midle) h= Ш (high) h= m Intake gate nos Excavation m3 Revetment Work nos Rehabili. Apronnos New Canal I m 400 61,367 24.546 * 12,273 12,273 0 Canal II m Canal III m Reh. Canal I 400 57,777 23,110 * 11,555 11,555 m 3,494 Canal II ពរ S.Del.Canal m Turnout nos Culvert 219 nos 2 274,050 329 0 548 * O&M ROAD m Aqua-Duct n · Base set Canal Cover m

sub-total

58,038 * 27,981 30.057

VIII - 49

(29/30)

3.494

[MONTONG SAPAH] L/C F/C L. Amount UNIT QUANT. PRICE (Rp) AMOUNT WORKS (1,000Rp)(1,000Rp)(1,000Rp) (1,000Rp)1.754 2,923 * 1,169 88,600 331. GENERAL ITEMS ha ς. 2. DIRECT CONSTRUCTION Clearing ha Leveling S ha Formatting 4,105 1,759 5,864 586,464 Weir (LOW) h= 0.9 m 10 Weir (midle) h= m (high) h= m Intake gate nos Excavation m3 690 690 1,380 * 1,380,860 Revetment Work nos 1 Rehabili. Apronnos New Canal I m Canal II m Canal III m Reh. Canal I m 6.611 2,026 6,611 37,776 13,221 * 350 Canal II m 1,340 3,288 4,932 8,220 * 3,574 2,300 S. Del. Canal m Turnout nos 0 329 548 * 219 274,050 2 nos Culvert 1,566 424 3,914 * 2.348 11,183 350O&M ROAD m Aqua-Duct m Base set Canal Cover m

sub-total

36,070 * 17,729 18,342 3,790

(30/30)

Table VIII-7 BASIC MATERIAL PRICE & LABOURS COST

(1/3)

| ITEM | UNIT | UNIT PRICE(Rp | COM) F(% | PONENT) L(%) | r UNIT F F/P | PRICE(Rp) L/P |) R | EMARKS |
|---|----------|------------------|--------------|------------------|-------------------|------------------|-------|--------|
| LABOUR | | | | | | | | |
| | m.day | 4,20 | 0 | 100 | | 0 4,20 | าก่ | |
| | m.day | | | 100 | | 0 5,20 | | |
| Carpenter | m.day | | | 100 | | 0 5,80 | | |
| Head of Carpenter | m day | | | 100 | | 0 6,90 | | |
| Worker(Excavation) | m day | | | 100 | | 0 5,40 | | |
| Brick Layer | m.day | | | 100 | | 0 5,80 | | |
| Steel Worker | m.day | | | 100 | | 0 5,80 | | |
| Head of Steel worker | m.day | | | 100 | | 0 6,90 | | |
| Painter | m day | | | 100 | | 0 5,80 | | |
| Head of Painter | m day | | | 100 | | 0 6,90 | | |
| Operator (Heavy Equ.) | m.day | | | 100 | | 0 8,00 | | |
| | m.day | | | 100 | | 0 4,20 | | |
| | m.daj | | | 100 | | 0 6,00 | | |
| Mechanical | m.day | | | 100 | | 0 4,50 | | |
| | m.day | | | 100 | | 0 5,00 | | |
| | m.day | | | 100 | 1 | 0 4,50 | | |
| Watchman | m day | | | 100 | | 0 4,20 | | |
| 2.MATERIAL | | | | | | | | |
| Portland Cement | zac | 6,40 | 0 80 | 20 | 5,12 | 20 1,28 | 30 | |
| Sand for Concrete | m3 | 7,10 | | | 5,68 | | | |
| Gravrl for Concrete | m3 | 16,30 | | | 14,67 | | | |
| Gravel for Masonry | m3 | 20,00 | | 20 | 16,00 | | × 00 | |
| Brick | nos | | 5 | | | | 65 | |
| Asphalt | kg | 48 | | | | | 40 | |
| Reinforcement Bar | t | 1,400,00 | | | 1,400,00 | | 0 | |
| Binding Wire | kg | 2,00 | | | 2,00 | | õ | |
| Nail | kg | 1,60 | | | | | Õ . | |
| Timber II | m3 | 297,30 | | | | 0 297,30 | | |
| Light Oil | 1 | 35 | | | | | 31 ** | |
| Gasoline | l | 55 | | | | | 20 ** | |
| Heavy Oil | · · Î | 28 | | | | | 85 ** | |
| Engine Oil | ī | 5,30 | | | 5,08 | | 12 ** | |
| Gear 011 | 1 | 5,70 | | | 5,4 | | 28 ** | |
| Steel Gate | m2 | 466,00 | | | | | | . * |
| B.EQUIPMENT | 11125 | 400,00 | , | | | | | |
| Track (4 t) | hr | 20,00 | 0 90 | 10 | 18,00 | 0 2,0 | 00 | |
| Bulldozer t-16 | hr | 52,00 | | | | 00 5,20 | 00 | |
| | | 50,00 | | | 45,00 | | | |
| Excavator 0.7 m3 Compactor 9-12 ton | hr hr | 45,00 | | | 40,50 | | | |
| | | 45,00 | | | 4,50 | | 00 | |
| Vibro roller 0.6 t | hr | 4,00 | | | 3,60 | | 00 | |
| Tamping Rammer 80 kg | hr | 4,00 | | | | | 40 | |
| Diesel Engine 5 ps Concrete Mixer 0.22m3 | hr hr | 2,00 | | | 1,80 | | 00 | |

Sorce; DAFTAR HARGA SATUAN BAHAN BANGUNAN/PEKERJA PROPINSI SUMATERA UTARA

Note; 1) Transportation cost by track is included 2) Forign cost were estimated withoexcluding oil price in INDONESIA 3) Equipment cost were estimated by hearing

(2/3)

(SOUTH SULAWESI)

| ГТЕМ | UNIT | UNIT PRICE(Rp) | | ONENT L(%) | | ICE(Rp) L/P | REMARKS |
|---|----------|--|----------------|----------------|-----------------------|---|--|
| 1. LABOUR | | | | | | | |
| Labour | m.day | 2,000 | | 100 | 0 | 5 | |
| Foreman | m.day | 4,000 | | 100 | 0 | | |
| Carpenter | m.day | 4,500 | | 100 | . 0 | 4,500 | |
| Head of Carpenter | m.day | 5,000 | | 100 | . 0 | 5,000 | |
| Worker(Excavation) | m.day | 2,000 | | 100 | 0 | | · · · |
| Brick Layer | m.day | 4,500 | | 100 | . 0 | | |
| Steel Worker | m.day | 4,500 | | 100 | 0 | | |
| Head of Steel worker | m.day | | | 100 | 0 | 5,000 | |
| Painter | m.day | the second s | | 100 | 0 | | |
| Head of Painter | m.day | | 1 | 100 | . 0 | 5,000 | |
| Operator(Heavy Equ.) | m.day | | | 100 | 0 | 7,000 | |
| Assistant | m.day | | | 100 | 0 | | |
| Driver | m.day | | | 100 | 0 | 6,000 | |
| Mechanical | m.day | the second s | | 100 | 0 | 4,500 | 1. A. |
| Head of Mechanical | m.day | | · | 100 | 0 | 5,000 | |
| Electric Worker | m.day | | | 100 | . 0 | 4,500 | |
| Watchman | m.day | | | 100 | 0 | 3,000 | |
| 2.MATERIAL | in a day | · • | | | | | |
| Portland Cement | zac | 5,800 | 80 | 20 | 4,640 | 1,160 | • |
| Sand for Concrete | m3 | 8,100 | 80 | 20 | 6,480 | | * |
| Gravrl for Concrete | . m3 | 9,100 | 90 | 10 | 8,190 | | |
| Gravel for Masonry | m3 | 10,000 | 80 | 20 | 8,000 | | * |
| Brick | nos | 38 | | 100 | 0 | | |
| Asphalt | kg | 600 | 50 | 50 | 300 | 300 | · · |
| | n t | 1,400,000 | 100 | | 1,400,000 | | · . |
| Reinforcement Bar | kg | 2,340 | 100 | õ | 2,340 | | 19 - L L L L L L L L |
| Binding Wire | kg | 2,700 | 100 | ŏ | 2,700 | | |
| Nail | m3 | 428,000 | 0 | 100 | | 428,000 | |
| Timber II | 1 | 428,000 | 34 | 66 | 119 | | * * |
| Light Oil | | 550 | 60 | 40 | 330 | | e transference and a second |
| Gasoline | . 1 1 | 280 | 34 | 66 | 95 | | Charles and the second s |
| lleavy 011 | J. 1 | 5,300 | 96 | 4 | 5,088 | | |
| Engine Oil | | | 96 | 4 | 5,472 | | |
| Gear Oil | 1 | 5,700 | . 90 | 10 | 419,400 | | |
| Steel Gate | m 2 - | 466,000 | 90 | 10 | 410,400 | 40,000 | the state of the s |
| 3.EQUIPMENT | · . | 00 000 | 00 | 10 | 18,000 | 2,000 | н. 1 |
| Track (4 t) | hr | 20,000 | 90 | | 46,800 | | - ¹ 1 |
| Bulldozer t-16 | hr | 52,000 | 90 | 10 | | | $\frac{1}{2}$ |
| Excavator 0.7 m3 | hr | 50,000 | 90 | 10 | 45,000 | | |
| Compactor 9-12 ton | hr | 45,000 | 90 | 10 | 40,500 | - 1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 | t de la companya de la |
| Vibro roller 0.6 t | . hr . | 5,000 | 90 | 10 | 4,500 | | |
| ATDIO TOTTEL 0.0 C | | | ~ ^ | 1 | ···. ი ^^^ | | |
| Tamping Rammer 80 kg | hr | 4,000 | 90 | 10 | 3,600 | | |
| Tamping Rammer 80 kg Diesel Engine 5 ps Concrete Mixer 0.22m3 | hr hr | 4,000 400 2,000 | 90 90 90 | 10 10 10 | 3,600 360 1,800 | 40 | |

Sorce; DAFTAR HARGA SATUAN BAHAN BANGUNAN/PEKERJA PROPINSI SULAWESI SELATAN

Note; 1) Transportation cost by track is included 2) Forign cost were estimated withoexcluding oil price in INDONESIA

3) Equipment cost were estimated by hearing

(3/3)

| | | | (WEST NUSA TENGGARA) | | | | | |
|-----------------------|--------|-------------------|----------------------|---------------|-----------|----------------|----|-------|
| ITEM | UNIT | UNIT PRICE(Rp) | | ONENI L(%) | | ICE(Rp) L/P | RE | MARKS |
| 1.LABOUR | | | | | | | | |
| Labour | m.day | 2,300 | | 100 | 0 | 2,300 | | |
| Foreman | m.day | 4,500 | - ¹ | 100 | 0 | 4,500 | | |
| Carpenter | m.day | 4,200 | | 100 | | 4,200 | | |
| Head of Carpenter | m,day | 4,800 | | 100 | 0 | 4,800 | | |
| Worker(Excavation) | m.day | , 3,500 | | 100 | • 0. | | | |
| Brick Layer | m.day | 4,100 | | 100 | 0 | 4,100 | | |
| Steel Worker | m.day | | | 100 | 0 | 4,200 | | |
| llead of Steel worker | m.day | | | 100 | . 0 | 2,800 | | |
| Painter | m.day | 3,900 | | 100 | 0 | 3,900 | | |
| Head of Painter | m.day | 4,200 | | 100 | Ò | 4,200 | | |
| Operator(Heavy Equ.) | m.day | 7,000 | | 100 | 0 | 7,000 | | |
| Assistant | m.day | | | 100 | . 0 | 2,300 | | |
| Driver | m.day | ٬ 6,000 | | 100 | · • • • • | 6,000 | | |
| Mechanical | m.day | 4,500 | | 100 | 0 | 4,500 | | |
| Head of Mechanical | m.day | , 5,000 | | 100 | 0 | 5,000 | | |
| Electric Worker | m.day | 4,500 | | 100 | 0 | 4,500 | | |
| Watchman | _m.day | 2,500 | | 100 | 0. | 2,500 | | |
| 2.MATERIAL | | | | | | | | |
| Portland Cement | zac | 7,100 | 80 | 20 | 5,680 | 1,420 | | |
| Sand for Concrete | m3 | 6,000 | 80 | 20 | 4,800 | 1,200 | | |
| Gravrl for Concrete | .m3 | 8,500 | 90 | 10 | 7,650 | 850 | | |
| Gravel for Masonry | m3 | 8,500. | 80 | 20 | 6,800 | 1,700 | ¥ | |
| Brick | nos | 39 | | 100 | 0 | 39 | | |
| Asphalt | kg | 600 | 50 | 50 | 300 | 300 | | |
| Reinforcement Bar | t | 1,017,000 | 100 | 0 | 1,017,000 | 0 | | |
| Binding Wire | kg | 1,200 | 100 | 0 | 1,200 | 0 | | |
| Nail | kg | 1,900 | 100 | 0 | | 0 | | |
| Timber II | m3 | 248,300 | 0 | 100 | | 248,300 | | |
| Light Oil | - 1 | 350 | 34 | 66 | | 231 | | 1.1 |
| Gasoline | 1. | 550 | 60 | 40 | 330 | 220 | | |
| lleavy Oil | 1 | 280 | 34 | 66 | . 95 | | | |
| Engine Oil | 1 | 5,300 | 96 | 4 | | | | |
| Gear Oil | 1 | 5,700 | 96 | 4 | | | ** | |
| Steel Gate | m2 | 466,000 | 90 | 10 | 419,400 | 46,600 | | |
| 3.EQUIPMENT | | | | : | | | | |
| Track (4 t) | hr | 20,000 | 90 | 10 | 18,000 | 2,000 | | |
| Bulldozer t-16 | hr | 52,000 | 90 | | 46,800 | | | |
| Excavator 0.7 m3 | hr | 50,000 | 90 | 10 | 45,000 | 5,000 | | |
| Compactor 9-12 ton | hr | 45,000 | 90 | 10 | 40,500 | 4,500 | | |
| Vibro roller 0.6 t | hr | 5,000 | 90 | 10 | 4,500 | 500 | | |
| Tamping Rammer 80 kg | hr | 4,000 | 90 | 10 | 3,600 | 400 | | |
| Diesel Engine 5 ps | hr | 400 | 90 | 10 | 360 | 40 | | |
| Concrete Mixer 0.22m3 | | 2,000 | 90 | 10 | 1,800 | 200 | | |

. .

Sorce; DAFTAR HARGA SATUAN BAHAN BANGUNAN/PEKERJA PROPINSI NUSA TENGGARA BARAT

Note; 1) Transportation cost by track is included 2) Forign cost were estimated withoexcluding oil price in INDONESIA

3) Equipment cost were estimated by hearing

| | | IN NOF | RTH SUMATRA | |
|--------|---------------------------|--------|----------------------|-------------|
| NO | ITEM | UNIT | UNIT PRICE (RP) C. L | abours Cost |
| E-1 | Bulldozer 11t | hr | 53,055 | 600 |
| E-2 | Bulldozer 16t | hr | 62,195 | 600 |
| E-3 | Excavator 0.4m3 | hr | 50,135 | 600 |
| E-4 | Excavator 0.7m3 | hr | 56,726 | 600 |
| E-5 | Compactor 9-12t | hr | 49,712 | 600 |
| E-6 | Vivro roller 0.6t | hr | 7,250 | 600 |
| E-7 | Tamping Rummer 80kg | hr | 5.887 | 600 |
| É-8 | Concrete Mixer 0.22m3 | day | 27.744 | 4.200 |
| | | | | |
| S-E1 | Earthfill I(Mech.) | m3 | 3,017 | 32 |
| S-E2 | Earthfill II(Man) | m3 | 5.527 | 970 |
| S-E3 | Trimming Work | m2 | 309 | 268 |
| S-E4 | Excavation I(Mech.) | m3 | 3.008 | 36 |
| S-E5 | Excavation II(Man) | m3 | 1,699 | 1,512 |
| S-E6 | Earthfill III(Road) | m3 | 3.348 | 526 |
| S-E7 | Back-fill for Structure | m3 | 6,517 | 1,399 |
| S-E8 | Asphalt Pavement | m2 | 5,375 | 113 |
| S~E9 | Gravel Metaling | m2 | 3,366 | 533 |
| 5-E10 | Clearing | m2 | 92 | 92 |
| S-E11 | Backfill for Borrowpit | m3 | 906 | 10 |
| S-E12 | Grass and Sod | m2 | 1.113 | 546 |
| | | | | |
| S-S1 | Concrete Type I(T.BOX)) | m3 | 70,415 | 4.187 |
| S-S2 . | Concrete Type II (Siphon) | m3 | 84.328 | 4,187 |
| 5-53 | Concrete Type III(lining |) m3 | 68,630 | 4,187 |
| S-S4 | Concrete Type IV(levelin | gm3 | 53.512 | 4.187 |
| S-S5 | Reinforcement Work | t | 1,482,960 | 5,460 |
| S~S6 | Wooden Form | m2 | 15.883 | 672 |
| 5-87 | Brick Masonry | m3 | 122.230 | 26.460 |
| 5-88 | Masonry Work | m3 | 71,486 | 8.400 |
| S-S9 | Mortar | m3 | 89,092 | 4.620 |
| 5-510 | Mortar Plastering | m2 | 5,122 | 16 |
| 5-511 | Asphalt joint | m2 | 5,689 | 109 |
| 5-\$12 | Gabion | m3 | 30.329 | 3,586 |
| | ÷ | | · · · · · | |

Table VIII-8 (1/3) UNIT PRICE OF MAJOR WORKS IN NORTH SUMATRA

| anti Anti- M | | | 1 | | | | | |
|--------------------|--------|-------|-------|---------|------|-------|-------|--|
| Table | VIII-8 | (2/3) | UNIT | PRICE | OF | MAJOR | WORKS | |
| | | | IN SC | DUTH SU | JLAV | IESI | | |

| 10 ITEM | UNIT UNI | Γ PRICE (RP) | C.Labours Cost |
|------------------------------|----------|--------------|----------------|
| I-1 Bulldozer 11t | hr | 52,598 | 286 |
| E-2 Bulldozer 16t | hr | 61,738 | 286 |
| E-3 Excavator 0.4m3 | hr | 49,678 | 286 |
| E-4 Excavator 0.7m3 | hr | 56., 269 | 286 |
| E-5 Compactor 9-12t | hr | 49,255 | 286 |
| -6 Vivro roller 0.6t | hr | 6,936 | 286 |
| E-7 Tamping Rummer 80kg | hr | 5,573 | 286 |
| -8 Concrete Mixer 0.22m3 | day | 25,544 | 2,000 |
| G-El Earthfill I(Mech.) | m3 · | 2,993 | 15 |
| -E2 Earthfill II (Man) | m3 | 5,019 | 463 |
| -E3 Trimming Work | m2 | 160 | 128 |
| -E4 Excavation I (Mech.) | m3 | 2,980 | 17 |
| -E5 Excavation II(Man) | m3 | 864 | 720 |
| -E6 Earthfill III(Road) | m3 : | 3,008 | 251 |
| -E7 Back-fill for Structure | m3 | 5,655 | 667 |
| -E8 Asphalt Pavement | m2 | 5,682 | 54 |
| -E9 Gravel Metaling | ~ m2 * | 2,434 | 254 |
| -E10 Clearing | m2 | 44 | 44 |
| -Ell Backfill for Borrowpit | m3 | 899 | 5 |
| -E12 Grass and Sod | m2 | 812 | 260 |
| -S1 Concrete Type I(T.BOX)) | m3 | 59,880 | 1,994 |
| -S2 Concrete Type II (Siphon | | 72.401 | 1.994 |
| -S3 Concrete Type III(linin | | 58,319 | 1,994 |
| -S4 Concrete Type IV(leveli | | 44.393 | 1,994 |
| -S5 Reinforcement Work | | 1,476,050 | 2,600 |
| -S6 Wooden Form | m2 . | 21.852 | 320 |
| -S7 Brick Masonry | m3 | 77,330 | 12.600 |
| -S8 Masonry Work | m3 | 51,428 | 4,000 |
| -S9 Mortar | m3 | 80.340 | 2,200 |
| -S10 Mortar Plastering | m2 | 4.138 | 8 |
| -Sll Asphalt joint | m2 | 7,020 | 52 |
| -S12 Gabion | m3 | 19.300 | 1.708 |

| | IN | NTB | | | | |
|--------------|----------------------------|------------|------|---------------|--------------|---------------|
| NO | ITEM | UNIT | UNIT | PRICE (RP) C. | Labours Cost | |
| E-1 | Bulldozer 11t | hr | | 52,640 | 328 | |
| E-2 | Bulldozer 16t | hr | | 61,780 | 328 | |
| E-3 | Excavator 0.4m3 | hr | | 49,720 | 328 | |
| E-4 . | Excavator 0.7m3 | hr | | 56,311 | 328 | |
| E-5 | Compactor 9-12t | hr | | 49,297 | 328 | ÷ . |
| | Vivro roller 0.6t | hr | | 6,978 | 328 | |
| E-7 | Tamping Rummer 80kg | hr | | 5,615 | 328 | |
| E-8 | Concrete Mixer 0.22m3 | day | | 25,844 | 2.300 | |
| | | | | | | |
| S-E1 | Earthfill I(Mech.) | m3 | | 2,994 | 17 | |
| S-E2 | Earthfill II(Man) | m3 | | 5,088 | 531 | 4 |
| S-E3 | Trimming Work | m2 | | 183 | 147 | 1 |
| S-E4 | Excavation I (Mech.) | m3 | e | 2,983 | 20 | |
| S-E5 | Excavation II (Man) | m3 | | 990 | 828 | |
| S-E6 | Earthfill III (Road) | m3 | | 3,070 | 288 | an an an A |
| S-E7 | Back-fill for Structure | m3 | | 5,809 | 766 | . A |
| S-E8 | Asphalt Pavement | m2 | | 4,947 | 61 | |
| S-E9 | Gravel Metaling | m2 | . • | 2.242 | 291 | 1 |
| | Clearing | mŻ | | 50 | 50 | |
| | Backfill for Borrowpit | m3 | | 899 | 6 | 1.1.1 |
| | Grass and Sod | m2 | | 857 | 299 | |
| 0 510 | | ·····, | | | | 1.1.1 |
| S-S1 | Concrete Type I(T.BOX)) | m3 | | 67,960 | 2,293 | · . |
| S-S2 | Concrete Type II (Siphon) | m3 | | 83,393 | 2,293 | |
| S-S3 | Concrete Type III (lining) | · . | | 66,187 | 2,293 | |
| S-S4 | Concrete Type IV (leveling | | • | 49.306 | 2,293 | |
| S-S5 | Reinforcement Work | , t | | 1,075,700 | 2,990 | |
| S-S6 | Wooden Form | m2 | | 13,277 | 368 | • • |
| s 50 S-S7 | Brick Masonry | . m3 | | 82,340 | 14,490 | · · |
| S-S8 | Masonry Work | m3 | | 54,757 | 4,600 | |
| 5-20 S-29 | Mortar | ш3 | | 94,225 | 2,530 | |
| | Mortar Plastering | m2 | | 4,152 | 9 | in the second |
| | | m2 | · | 7,028 | 59 | |
| | Asphalt joint Gabion | - m2 m3 | | 14,707 | 1,964 | |

Table VIII-8 (3/3) UNIT PRICE OF MAJOR WORKS IN NTB

Table VIII-9 PROJECT COST OF 795 F/S SCHEMES

North Sumatra

(1/12)

| No. | CODE No. | Area Name | Gr. | Gross Field | i Paddy Is (11a) | | D. 1 (Ha) | Civil Work | Grand Total | Unit Cost | |
|--------------|------------------|--------------------------|------------|----------------|---------------------|---------|--------------|---------------|----------------|--------------|------------------|
| | | 1RR | | isted | Planned | isted | Planned | 1000Rp. | 1000Rp. | 1000Rp. /Ha | US \$ /Ha |
| . 1 | | Kuta Gambir | A4 | 144 | 101 | 104 | 73 | 226, 300 | 317, 022 | | |
| 2 | 60003 | Siarung Arung | A4 | 197 | 138 | 47 | 33 | 102, 300 | 143, 311 | 4, 343 | 2, 17 |
| 3 | | Gapaulako-Galian Pancur | nandiA4 | 192 | 134 | 42 | 29 | 89, 900 | 145, 311 | 4, 343 | 2, 17 |
| 4 | 60005 | Parikki II | A4 | 200 | 140 | 160 | 112 | 347, 200 | 486, 389 | 4, 343 | 2, 17 |
| 5 | 60006 | Kabau Tengak | A4 | 185 | 130 | 160 | 112 | 347, 200 | 486, 389 | 4, 343 | 2, 17 |
| 6 | 60008 | Amborgang | A1 - | 300 | 210 | 125 | - 188 | 211, 200 | 307, 766 | 4, 343 | 2.17 |
| 7 | 60010 | Lae Pangaroan | Á3 | 148 | 104 | 58 | 41 | 102, 500 | 148, 343 | 3, 497 | 1,74 |
| 8 | | Sumbari | A4 | 110 | 77 | 60 | 42 | 130, 200 | 146, 545 | 3, 618 | 1, 80 |
| 9 | 60012 | Lae Rakkon | AZ | 140 | 98 | 40 | 28 | 84,000 | 118, 216 | 4, 343 | 2, 17 |
| 10 | 60013 | Lae Pinagar | A4 | 117 | 82 | 117 | 82 | 254, 200 | 356, 107 | 4, 222 | 2, 11 |
| 11 | 60014 | Paniki I | A2 | 75 | 53 | 65 | 46 | 138,000 | 194, 211 | 4, 343 | -2, 17 |
| 12 | 60016 | Sileu leu Sagala Raja | A4 | 150 | 105 | 30 | 21 | 65, 100 | | 4, 222 | 2, 11 |
| 13 | 60017 | Simanduma | A 3 | 175 | 122 | 25 | 18 | 45,000 | 91, 198 | 4, 343 | 2, 1 |
| 14 | 60020 | Mungkur | - 14 | 199 | 139 | 159 | 111 | 344, 100 | 65, 126 | 3, 618 | 1, 8 |
| | 60021 | Paluh Paki | ÂŹ | 709 | 496 | 300 | 210 | 544, 100 | 482, 047 | 4, 343 | 2, 1 |
| | | Timbang Lawang | A2 | 825 | 578 | 25 | 18 | | 886, 617 | 4, 222 | 2, 1 |
| 17 | 60023 | Sinar Toba Simanggala | A2 | 50 | 35 | 45 | - 31 | 54,000 | | | 2, 11 |
| 18 | 60025 | Ulu Mahuan | AZ | 75 | 53 | 50 | 35 | 93,000 | 130, 882 | 4, 222 | 2,1 |
| 19 | | | ĂŽ | 57 | 49 | 36 | 25 | 105,000 | 147, 770 | 4, 222 | 2, 1 |
| | | Ack Tobang Mandailing | A2 | 265 | 186 | 215 | 151 | 75,000 | 105, 550 | 4, 222 | 2, 1 |
| | | Aek Baja | ÂŽ | 100 | 70 | 55 | 39 | 453,000 | 637, 520 | 4, 222 | 2, 11 |
| 22 | | Aek Sipalis | AL | 225 | 158 | JJ (| 0 | 117,000 | 164, 658 | 4, 222 | 2, 11 |
| | | Parlunggean | A4 | 245 | 172 | 50 | | 100 500 | 0 | **** | **** |
| | | Sisuhar-Suhar | A4 | 550 | 385 | 200 | 35 | 108, 500 | 151, 997 | 4, 343 | 2, 17 |
| | | Aek Silalang | A3 | 245 | 172 | 200 | 140 | 434,000 | 607, 987 | 4, 343 | 2,17 |
| | | Aek Sidoras | A3 | 75 | 53 | U 0 | 0 | . 0 | 0 | **** | **** |
| 27 | | Silinggon Linggon | A4 | 285 | 200 | 210 | 0 | - 0 | 0 | **** | **** |
| | | Rauning B | A2 | 203 | 66 | | 147 | 455, 700 | 638, 386 | 4, 343 | 2, 17 |
| | | Aek Solok | AZ Al | 125 | 00 88 | 67 | . 47 | 141,000 | 198, 433 | 4, 222 | 2, 11 |
| | | tahalak Rauning A | | | | - 0 | 0 | 100,000 | 0 | **** | **** |
| | | Aek Suhat | A2 | 500 | 350 | 375 | 253 | 789,000 | 1, 110, 383 | 4, 222 | 2, 11 |
| 22 . 21 . | \$0042 \$004C | Reha Relati | A2 | 140 | 98 | 45 | 31 | 93,000 | 130, 882 | 4, 222 | 2, 11 |
| 36 | 00043 | Saba Bolak | A3 | 80 | 56 | 5 | 4 | 10, 000 | 14, 472 | 3, 618 | 1, 80 |
| To | otal | | | | 4, 889 | | 2,012 | 6 045 400 | 8, 505, 993 | 117, 131 | 58, 57 |
| | verage | · · · | | | 153 | | 72 | 215, 907 | 303, 785 | 4, 183 | 2,09 |

Remarks : * ; Representative Scheme

COST ESTIMATION

North Sumatra

(2/12)

| | CODE NO. | Area Name | Gr | | Paddy s (Ha) | | D. 1 (Ha) | Civil Work | Grand Total | Unit Cost | |
|----------|-------------|-----------------------------------|------------|-----------|-----------------|-----------|--------------|----------------------|----------------------|----------------------|-------------------|
| | | 188 | | Listed I | Planned | Listed | Planned | 1000Rp. | 1000Rp. | 1000Rp. /Ila | US \$/ Ila |
| 1 | | Parongil Jehe | C1 | | 60 | 0 | 0 | 72, 600 | 123, 607 | | 1, 030 |
| 2 | | Marsada Loo Janing | B4 C1 | | 98 39 | 40 | 28 | 154, 800 47, 520 | 245, 636 80, 743 | | 1, 253 1, 035 |
| 34 | | Lae Jering Ulu Merah | 84 | | 133 | 40 | Z8 | 202,000 | 323, 598 | | 1, 217 |
| 5 | | Simantas | C1 | 55 | 39 | 0 | . 0 | 47, 280 | 80, 453 | | 1,032 |
| 6 | | Lae Panginuman | C1 C1 | | 63 70 | 0 0 | 0 0 | 75, 600 87, 000 | 129, 026 146, 986 | | 1, 024 1, 050 |
| 7 8 | | Bantun Kerbo Pandeangan | B1 | | 46 | 35 | 25 | 88, 100 | 133, 945 | | 1, 456 |
| ğ | | Tiga Serangkai l | CI | | 53 | 0 | 0 | 67,600 | | | 1,070 |
| D | | Sopokosil | B4 | | 105 | 150 0 | 105 0 | 263, 300 43, 000 | 380, 868 72, 889 | | 1, 814 1, 042 |
| 1 2 | | Simatupang Jugajoring | C3 C3 | | 35 74 | . U 0 | 0 | 88, 800 | 151, 555 | | 1.024 |
| 3 | | Galian Bendar Bt. Beruk | 81 | 45 | 32 | 10 | | 48, 500 | 77, 735 | 2.429 | 1, 215 |
| 4 | | Bekasi (A) | B1 | | 105 42 | 150 80 | 105 42 | 265, 700 108, 200 | 383, 767 155, 826 | | 1,828 |
| 5 6 | | Bekasi (B) Garuh (Hutarahu) | - B1 C1 | | 140 | 00 | 42 | 175,000 | 296, 387 | | 1,059 |
| 7 | | Kuta Ganbir | B4 | 150 | 105 | 110 | 17 | 226, 700 | 336, 664 | 3, 206 | 1,603 |
| 8 | | Junagulangan | CI Di | 70 | 49 | 0 | 0 77 | 66, 800 235, 300 | 110,016 351,242 | | 1, 123 |
| 9 0 | | Lae Laklik Rambong Gapanlaho | B1 B4 | | 112 134 | 110 42 | 29 | 200, 900 | 322, 868 | | 1, 205 |
| 1 | | Gabe Padas/Lae Lahlak | B4 | 150 | 105 | .105 | 74 | 223,000 | 332, 196 | 3, 164 | 1, 582 |
| 2 | | Siaring-aring | B4 | | 138 | 47 | 33 28 | 218, 500 | 346, 519 159, 377 | | 1, 256 1, 423 |
| 3 4 | | Sibora-bora Buparsi | B1 B4 | | 56 63 | 40 75 | 53 | 104, 200 144, 980 | 212, 820 | | 1, 689 |
| ч 5 е | | Sumbul Berampu | C1 | 177 | 124 | 0 | 0 | 151, 800 | 257, 580 | 2,077 | 1,039 |
| 6 | | Lae Tinokkap | C1 | 82 | 57 | 0 | 0 | 68,880 | 117, 318 | | 1, 029 1, 706 |
| 7 8 | | Lae Lancang Lae Situlan | 84 C1 | 75 120 | 53 84 | 65 0 | 46 0 | 123, 400 104, 800 | 180, 769 176, 866 | | 1,053 |
| 9 9 | | Hutamanir | či | | 126 | ŏ | 0 | 154, 800 | 262, 401 | 2, 083 | 1, 042 |
| 0 | 50030 | Junatukko | C1 | | 84 | 0 | 0 | 101,400 | 172, 760 | | 1,029 1,024 |
| 1 2 | | Lae Pinagar Sitalmak | B4 C1 | | 60 140 | 0 0 | 0 0 | 72,000 172,000 | 122, 882 291, 556 | | 1,042 |
| 2 3 | | Sopogadong | či | | 42 | ŏ | ŏ | 50, 400 | 86, 018 | 2, 048 | 1,024 |
| 4 | 50034 | Bulu Ujung | Ci | | 84 | 0 | 0 | 100,800 | 172,035 | 2,048 | 1,024 |
| 5 | | Lingga Raja Lae Nboang | C1 81 | | -109 28 | 0 30 | 0 21 | 131,600 61,700 | 224, 202 91, 283 | | 1,630 |
| 6 7 | | Hutaisbaru | CI | | 126 | Ŭ | Ô | 152, 800 | 259, 985 | 2, 063 | 1, 032 |
| 8 | 50038 | Lae Saradan | B4 | | 74 | 80 | | 162, 400 | 240, 445 | | 1,625 |
| 9. | | Jumarindang Kaulan Dangaulan | C1 84 | | . 70 46 | 0 0 | 0 D | 84, 800 55, 200 | 144, 329 94, 210 | | 1,031 |
| 0 1 | | Karing Pargaulan Jumasianak | C1 | | 40 | ŏ | Ő. | 56,400 | 93, 264 | 2, 221 | 1,111 |
| 2 | 50042 | Jumapetak | B4 | 80 | 56 | Û | 0 | 68, 000 | 115, 656 | | 1,033 |
| 3 | | Sikaleut | C1 B1 | 80 55 | 42 39 | 0 25 | 0 18 | 50, 400 71, 000 | 86, 018 109, 101 | | 1,024 |
| 4 5 | | Sibintuar/Persawa Bangun Mulia | B5 | | . 39 | 10 | 7 | 56, 300 | 91, 347 | | 1, 171 |
| 5 | | Bukit Mas/Pantai Buaya | 81 | 120 | 84 | 20 | 14 | 119, 800 | 194, 982 | 2, 321 | 1, 161 |
| 7 | | Sematar/Panah | Bi | | 21 | 15 | 11 | 49, 500 | 72, 357 | | 1, 723 1, 939 |
| 8 | | Sungai Nibung Cinto Dopot | 86 82 | | 14 56 | 20 10 | 14 7 | 38, 000 82, 300 | 54, 277 132, 927 | | 1, 535 |
| 9) | 50050 | Cinta Dapat Kerpey | BĂ | | 84 | Ő | 0 | 100, 800 | 172, 035 | 2,048 | 1, 024 |
| 1 | 50051 | Sei Tapak Dua | C1 | 25 | 53 | Û | D | 63, 880 | 108, 884 | | 1, 027 |
| 2 | | Bandar Bunga | B1 B6 | 70 70 | 49 49 | 0 0 | . 0 | 58, 800 60, 800 | 100, 354 102, 769 | | 1, 024 1, 049 |
| 3 1 | | Selemak/Sejagat Simpang Lukis | 81 | 80 | 42 | 0 | ŏ | 51, 400 | 87, 225 | | 1, 039 |
| 5 | | Sei Bekurman | B4 | 60 | 42 | 10 | 1 | 59, 900 | 97, 491 | 2, 321 | 1, 161 |
| 5 | | Sei Tuskan Jaya | B5 | 55 | 39 | 0 4 | 0 3 | 49, 800 40, 300 | 83, 497 64, 838 | | 1, 071 1, 201 |
| 7 + 3 | | Sidosukti Perpulungan | 81 85 | 39 50 | 27 35 | 4 | 5 0 | 40, 500 | 71, 681 | | 1, 024 |
| 9 | | Sibertung | B2 | 55 | 39 | 0 | . · Ö | 46, 800 | 79, 873 | 2, 048 | 1,024 |
|) | | Suka Pulung | B1 | 170 | 119 | 0 | · 0 . | 142, 800 | 243, 717 | | 1,024 |
| 1 2 | | Paya Salit Sei Sirit | 86 B4 | 50 80 | 35 56 | 10 10 | 0 | 44, 000 82, 300 | 74, 097 132, 927 | | 1, 059 1, 187 |
| 2 3 | | Sei Tungkamsakti | 83 | | 53 | . 0 | Ó | 67,600 | 113, 377 | 2, 139 | 1,070 |
| 1 | 50064 | Kp. Mandailing | C1 | 55 | 39 | Ó | 0 | 46, 800 | 79, 873 | 2, 048 | 1,024 |
| 5 | | Namu Tembis Reference | 61 80 | 200 | 140 | 0 | 0 0 | 158,000 | 286, 725 163, 632 | | 1, 024 1, 106 |
| 6 7 | | Bekancan Indra Kaya | 85 B3 | | 74 81 | 0 -35 | 25 | 98, 800 129, 700 | 205, 143 | | 1, 100 |
| 3 | | Aek Menek | B6 | | 32 | 22 | 15 | 58, 700 | 90, 055 | 2, 814 | 1, 407 |
| 9 | 50070 | Kp. Lalang II | - 83 | | 25 | 20 | 14 | 48, 200 | 73, 182 | | 1,464 |
|) | | Parmanukan | 83 81 | 100 80 | 70 56 | 93 55 | 65 39 | 168, 500 117, 900 | 245, 418 175, 923 | | 1, 753 1, 571 |
| 1 2 | | Aeksihare-hare Aek Kandis | в1 В1 | | 30 88 | 33 1 | | 106, 900 | 175, 923 | | 1,033 |
| 3 | | Janji Lobi | 83 | 60 | 42 | 10 | 7 | 59, 500 | 97,008 | 2, 310 | 1, 155 |
| 1 | 50076 | Sihosur | Bi | 80 | 56 | 50 | 35 | 112,700 | 169, 643 | | 1,515 |
| 5 | | Sibara-bara Aek Tapa | 85 81 | | 95 105 | 100 50 | 70 35 | 205, 000 173, 900 | 304, 469 272, 895 | i 3, 205 i 2, 599 | 1,603 1,300 |
| 7 | | Aek Halubi | B3 | | 60 | 45 | 32 | 113, 600 | 173, 125 | | 1, 443 |
| 8 | | Ack Paing | 83 | | 140 | 50 | 35 | 213, 500 | 341, 678 | | 1, 221 |

| | | | | | | (3/12) |
|--|---|--|--|--|--|---|
| 81 5000 82 5000 83 5000 84 5000 85 5000 86 5000 87 5000 88 5000 90 5000 91 5000 92 5000 93 5010 94 5010 95 5010 96 5010 97 5010 98 5010 98 5010 99 5010 98 5010 98 5010 99 5010 98 5010 99 5011 100 5011 101 5011 102 5011 103 5012 104 5011 105 5011 106 5012 110 5012 111 5012 111 5012 112 5012 113 5012 114 5012 115 5013 126 5013 127 5014 128 5014 129 5014 121 5013 122 5013 123 5014 124 5014 125 5015 133 5015 134 5015 135 5015 136 5015 137 5015 138 5016 144 5016 145 5016 146 5017 148 5017 1 | 8 Aek Silang 9 Aek Sitapean/Parsisioran 0 Parmansian 1 Aek Nabara 2 Aek Sipollas 3 Sikual-Kual Silah Bulugading 4 Sipapan/Danau Toba | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c} 596, 878\\ 35, 909\\ 238, 079\\ 423, 047\\ 154, 924\\ 85, 555\\ 121, 924\\ 387, 079\\ 282, 208\\ 239, 199\\ 405, 802\\ 239, 199\\ 405, 802\\ 218, 909\\ 124, 930\\ 112, 431\\ 180, 379\\ 181, 677\\ 75, 546\\ 417, 694\\ 413, 359\\ 87, 950\\ 364, 204\\ 288, 079\\ 281, 771\\ 71, 681\\ 680, 146\\ 302, 164\\ 236, 079\\ 281, 771\\ 71, 681\\ 680, 146\\ 302, 164\\ 236, 079\\ 281, 771\\ 71, 681\\ 680, 146\\ 302, 164\\ 123, 359\\ 173, 161\\ 121, 937\\ 249, 128\\ 427, 307\\ 249, 128\\ 173, 161\\ 121, 937\\ 219, 875\\ 133, 857\\ 238, 720\\ 249, 128\\ 173, 161\\ 121, 937\\ 219, 875\\ 238, 636\\ 228, 270\\ 228, 253\\ 331, 997\\ 228, 7250\\ 2269, 105\\ 448, 194\\ 2269, 105\\ 427, 250\\ 2279, 659\\ 231, 998\\ 231, 649\\ 200, 361\\ 2279, 659\\ 231, 998\\ 2306, 229\\ 279, 659\\ 231, 998\\ 236, 649\\ 231, 887\\ 22\\ 200, 361\\ 227\\ 262, 141\\ 249, 609\\ 201, 214\\ 248, 633\\ 22\\ 204, 612\\ 2334, 093\\ 22\\ 344, 093\\ 22\\ 142, 533\\ 22\\ 164, 493\\ 22\\ 146, 251\\ 2346, 995\\ 23\\ 266, 384\\ 22\\ 142, 533\\ 22\\ 164, 933\\ 22\\ 216, 493\\ 22\\ 200, 505\\ 21\\ 990, 272\\ 24\\ 109, 995\\ 22\\ 566, 384\\ 22\\ 142, 533\\ 22\\ 164, 493\\ 22\\ 164, 493\\ 22\\ 164, 493\\ 22\\ 164, 493\\ 22\\ 216, 493\\ 22\\ 200, 505\\ 21\\ 990, 272\\ 24\\ 109, 993\\ 22\\ 240, 993\\ 22\\ 279, 659\\ 23\\ 200, 505\\ 21\\ 331, 998\\ 23\\ 200, 505\\ 21\\ 331, 998\\ 23\\ 200, 505\\ 21\\ 331, 998\\ 23\\ 200, 505\\ 21\\ 331, 993\\ 22\\ 246, 993\\ 22\\ 240, 993\\ 22\\ 340, 993\\ 23\\ 340, 993\\ 340\\ 340, 993\\ 340\\ 340\\ 340\\ 340\\ 340\\ 340\\ 340\\ 34$ | 3, 305 1, 653 2, 842 1, 421 2, 244 1, 122 2, 705 1, 353 3, 439 1, 720 2, 823 1, 462 2, 2, 823 1, 126 3, 484 1, 742 2, 240 1, 120 2, 278 1, 139 2, 405 1, 043 2, 048 1, 024 2, 295 1, 148 5, 154 2, 577 2, 065 1, 033 2, 158 1, 079 2, 078 1, 039 2, 078 1, 039 2, 078 1, 039 2, 078 1, 037 2, 078 1, 039 2, 078 1, 033 3, 274 1, 637 4, 025 2, 013 2, 048 1, 047 2, 048 1, 047 2, 048 1, 024 2, 050 1, 526 4, 701 2, 351 3, 267 1, 634 2, 177 1, 089 2, 2330 1, 167 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 5 Aek Mandosi 6 Aek Sampuran 7 Aek Sitasik 8 Aek Bari Balon 9 Siparolo Sulupapi Duan 9 Siparolo Sulupapi Duan 9 Sigiro (Bandar Nagidang) 2 Aek Harangan 3 Aek Siborong-borong 4 Saba Bolak Pakpohan II, III, I 6 Aek Sigilang 7 Aek Sia Tunggal 8 Bulugading 9 Lau Rambung 1 Mandah Nangka Glugur 2 Parit Rumah Gugung 3 Sumbeiken Elok 1 Lau Lenting 5 Serdang 3 Sawah Galumpang 7 Sabah Bernch/Lau Jandi | B1 95 B4 150 B6 95 B4 120 B4 270 C1 150 B4 100 B2 350 B4 100 B4 100 B4 100 B4 165 B4 120 B4 60 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 0 84, 800 0 127, 200 28 132, 800 7 115, 900 | 142, 533 2 216, 493 2 200, 505 2 190, 272 2 218, 903 2 218, 903 2 218, 903 2 218, 903 2 218, 903 2 218, 903 2 218, 903 2 218, 903 2 218, 903 2 254, 843 2 254, 843 2 236, 650 2 87, 950 2 43, 975 2 43, 975 2 649, 963 2 59, 761 2 21, 517 2 47, 840 2 | 2, 127 1, 064 2, 062 1, 031 2, 993 1, 497 2, 265 1, 133 |

| 183 50216 Summe Provided Herrich 189 50215 S. Kenjahe 190 50217 Sukajulu 192 50220 Beringin 193 50220 Beringin 194 50225 Marjanji Aceh 195 50226 Desa Gajah 194 50226 Desa Gajah 195 50226 Desa Gajah 197 50240 Asahan VIII Pengajiar 198 50245 Pulorejo 199 50246 Ack Sangulan 200 50247 Tanohudon 201 50248 Rahalak Saba Bahalan 202 50248 Rangang Batang Pa 203 50250 Ack Sitekkean 204 50251 Ack Harsik 205 50252 Marsungsang Batang Pa 206 50253 Sungai Sidadi 207 50254 Batang Galis 208 50253 Sungai Sidadi 207 50254 Batang Matal 211 50262 Sungai Sidadi < | ne B4 B1 B1 B1 B1 B1 B1 B1 B4 B3 B4 B3 B4 B4 B4 B4 B4 B4 B4 B4 B4 B4 B4 B4 B4 | 300 70 90 125 100 95 150 200 50 69 190 155 85 245 150 100 100 142 245 150 1000 100 100 100 100 100 100 100 1000 100 | 131 84 63 140 162 70 70 70 49 105 123 21, 504 | $\begin{array}{c} 0 \\ 0 \\ 0 \\ 200 \\ 300 \\ 0 \\ 110 \\ 0 \\ 0 \\ 400 \\ 111 \\ 0 \\ 0 \\ 0 \\ 100 \\$ | 4,000 | 248, 400 151, 000 32, 196, 120 | 163, 483 143, 942 86, 018 146, 261 233, 702 124, 815 97, 286 57, 345 57, 345 57, 345 57, 345 57, 345 57, 345 109, 995 105, 378 434, 919 69, 785 187, 325 159, 618 98, 347 71, 681 215, 044 720, 678 235, 635 189, 157 432, 503 111, 344 129, 026 196, 049 160, 633 162, 098 215, 044 135, 343 226, 035 237, 025 237, 025 237, 025 237, 025 237, 025 237, 025 237, 025 237, 025 244, 054 125, 817 253, 088 242, 249 160, 53 316, 925 237, 025 237, 025 237, 025 244, 054 125, 817 253, 088 242, 249 144, 054 187, 325 354, 359 369, 805 354, 359 86, 018 138, 845 284, 490 506, 600 274, 090 181, 367 335, 035 421, 276 145, 935 335, 035 421, 276 145, 27 | 3, 011 2, 071 2, 492 2, 576 2, 459 2, 048 2, 048 2, 059 3, 366 2, 866 2, 866 2, 272 2, 048 2, 228 2, 272 2, 048 2, 228 2, 272 2, 048 2, 228 2, 272 2, 048 2, 272 2, 048 2, 272 2, 048 2, 171 2, 048 2, 171 2, 048 2, 171 2, 153 2, 171 2, 048 2, 103 2, 103 2, 103 2, 103 2, 103 2, 479 2, 596 2, 288 3, 046 2, 103 2, 103 2, 103 2, 103 2, 103 2, 303 2, 048 2, 103 2, 103 2, 103 2, 305 2, 009 2, 531 2, 048 2, 009 2, 008 2, 008 2, 009 2, 008 2, 009 2, 008 2, 009 2, 008 2, 008 2, 008 2, 009 2, 008 2, 008 2, 009 2, 008 2, | $\begin{array}{c} 1, 111\\ 1, 245\\ 1, 038\\ 1, 506\\ 1, 036\\ 1, 246\\ 1, 338\\ 1, 425\\ 1, 230\\ 1, 024\\ 1, 030\\ 1, 683\\ 1, 433\\ 1, 030\\ 1, 683\\ 1, 433\\ 1, 030\\ 1, 683\\ 1, 433\\ 1, 030\\ 1, 136\\ 1, 024\\ 1, 1024\\ 1, 1024\\ 1, 209\\ 1, 077\\ 1, 086\\ 1, 024\\ 1, 107\\ 1, 086\\ 1, 024\\ 1, 155\\ 1, 107\\ 1, 086\\ 1, 024\\ 1, 155\\ 1, 107\\ 1, 086\\ 1, 024\\ 1, 155\\ 1, 228\\ 1, 144\\ 1, 131\\ 1, 090\\ 1, 298\\ 1, 144\\ 1, 523\\ 1, 074\\ 1, 359\\ 1, 338\\ 1, 045\\ 1, 052\\ 1, 228\\ 1, 470\\ 1, 355\\ 1, 052\\ 1, 228\\ 1, 470\\ 1, 355\\ 1, 052\\ 1, 256\\ 1, 034\\ 1, 045\\ 1, 052\\ 1, 258\\ 1, 034\\ 1, 046\\ 1, 032\\ 1, 056\\ 1, 034\\ 1, 046\\ 1, 032\\ 1, 056\\ 1, 024\\ 1, 355\\ 1, 034\\ 1, 041\\ 1, 041\\ 1\\ 302, 576\\ \end{array}$ |
|---|---|---|--|---|-------|--------------------------------------|--|--|---|
| Average | | | 87 | | 31 | | | 2, 450 | 1, 225 |

Remarks : * ; Representative Scheme

31SELLD. WK1

(5/12)

| | | COST ESTIMATIO | N | : | South Su | lawesi | | | | | |
|--------|-------------|----------------|----------|-----|----------|---------------------------|------|---------------|----------------|--------------|------------------|
| io. | CODE No. | Area Name | | | s (Ha) | L.D. Area isted Pla | | Civil Work | Grand Total | Unit Cost | |
| | х 1. 1. | IRR | | H | | Ha, | | 1000Rp. | 1000Rp. | 1000Rp. /Ha | US \$/ Ha |
| 1 | 20002 | Cerowali | A1 | 800 | 560 | 0 | 0 | 0 | 0 | **** | **** |
| 2 | +20003 | | A3 | 100 | 70 | 33 | 23 | 57,500 | 83, 217 | 3,618 | 1,809 |
| - Ĩ | | Leko Ballo | A1 | 227 | 159 | 50 | 35 | 84.000 | 122, 407 | 3 497 | 1,749 |
| 4 | | Taretta | A3 | 300 | 210 | 0 | 0 | 0 | 0 | **** | **** |
| 5 | 20008 | Jinetalasa | A1 | 200 | 140 | 200 | | 336, 000 | | | 1, 749 |
| 6 | 20009 | Belong | Α3 | 250 | 175 | 50 | 35 | 87,500 | 126, 634 | 3,618 | 1,809 |
| .7 | 20010 | Calendu I | A3 | 217 | 152 | 20 | - 14 | 35, 000 | 50, 654 | 3, 618 | 1, 809 |
| 8 | 20011 | Panaikang II | <u>M</u> | 210 | | 10 | | 21, 700 | 30, 399 | 4, 343 | 2, 172 |
| ġ | 20017 | Salobunne | A1 | 722 | 505 | 0 | 0 | 0 | 0 | | |
| 10 | 20393 | Sumamillan | A2 | 50 | 35 | 40 | 28 | 84,090 | 118, 216 | 4, 222 | 2, 111 |
| זר | tal | | | | 2, 153 | | 282 | 705, 700 | 1, 021, 153 | 26, 413 | 13, 208 |
| | erage | | | | 215 | | | 100, 814 | | | 1,887 |

Remarks : * ; Representative Scheme

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| 0. | CODE No. | Area Name | Gr. | Gross Fields | | L. Area | | Civil Work | Grand Cost | Uni Cos | t. t:. |
|------------|-------------|------------------------------------|------------|-----------------|------------|------------|----------|----------------------|----------------------|------------------|-------------------|
| | | IRR | | Listed P | lannedi | isted | Planned | 1000Rp. | 1000Rp. | 1000Rp. /Ka | US \$/ lla |
| 1 | | Balangninring | 84 | 54 | 38 | 27 | 19 | 64, 900 | 101, 135 | | 1, 331 1, 274 |
| 2 3 | | Kijang Batu Kanre | 84 C1 | 120 64 | 84 45 | 60 D | 42 0 | 135,600 54,900 | 214,065 93,249 | 2, 072 | 1,036 |
| 4 | | Bunglee | 85 | 30 | 21 | 9 | 6 | 31, 500 | 50,618 | 2, 410 | 1, 205 |
| 5 | 10008 | Sinoa l | BS | 166 | 116 | 86 | 60 | 190, 800 | 299, 892 | | 1, 29; 1, 51] |
| 6 7 | | Parangpangi Bulu sugang | 85 85 | 97 60 | 68 42 | 63 0 | 44 0 | 136, 400 49, 800 | 205, 451 85, 293 | 3, 021 2, 031 | 1.01 |
| 8 | | Sabarro | 85 | 24 | 17 | 2 | ĭ | 28, 600 | 44, 720 | 2, 631 | 1, 31 |
| 9 | 10013 | Woddie | B3 | 88 | 62 | 0 | 0 | 85, 800 | 140, 747 | 2, 270 | |
| 10 | | Batu Gading | B3 B3 | 200 250 | 140 175 | 121 0 | 85 | 248, 500 160, 300 | 383, 949 298, 381 | 2, 742 | 1, 37 |
| 11 12 - | | Cenrana Lapaupang | во 86 | 200 | 140 | · 0 | 0 | 150,000 | 264, 986 | | 94 |
| 13 | | Sabbang Paru | B3 | 200 | 140 | 0 | 0 | 133, 200 | 244, 696 | | 87 |
| 14 | | Lawara | 81 B4 | 100 120 | 70 84 | 0 | 0 0 | 93, 000 79, 600 | 154, 232 146, 431 | 2, 203 1, 743 | 1, 10 87 |
| 15 16 | | Pising Liu Sitoppo | 54 84 | 100 | 70 | 150 | 195 | 211, 500 | 297, 351 | 4, 248 | 2, 12 |
| 17 | 10022 | | Βĩ | 50 | 35 | . 0 | 0 | 38, 500 | 67,454 | | 96 |
| 18 | | Tondon Buah (Tondon) | 84 | 100 | 70 | 0 | | 71, 400 | 128, 145 | | 9 <u>1</u> 87 |
| 19 20 | | Elle (Tondon) Ompang Use | 84 84 | 100 250 | 70 175 | 0 | 0 0 | 66, 600 181, 500 | 122, 348 323, 986 | | 920 |
| 21 | | Toila | 84 | 250 | 175 | Ŏ | 0 | 163, 500 | 302, 246 | 1, 727 | 85 |
| 22 | 10028 | Tubung | 84 | 360 | 252 | 0 | 0 | 228, 400 | 426, 732 | | 84 |
| 23 | | Balsiru | 81 B1 | 200 150 | 140 105 | 0 0 | 0 0 | 138,000 96,900 | 250, 493 179, 898 | | 89 85 |
| 24 25 | | Ajakkang Aluppang | 81 | 150 | 105 | Ű, | Ő | 106, 500 | 191, 493 | | |
| 26 | | Padang Lampe | B4 | 200 | 140 | Ó | Q | 130, 800 | 241, 797 | | 86 |
| 27 | | Lappa Talle | 84 | 150 | 105 | 0 | 0 | 106, 500 70, 200 | 191, 493 126, 696 | | 91 90 |
| 28 29 | 10034 | Toddang Jompi Goari | 81 84 | 100 200 | 70 140 | 0 100 | 0 70 | 223,000 | 353, 152 | | 1. 26 |
| 29 30 | | Salo Pokki | B3 | 200 | 140 | Ũ | Ő | 132,000 | 243, 246 | 1, 737 | . 86 |
| 31 | 10037 | Ulu Bubung | B3 | 200 | 140 | 0 | 0 | 130, 800 | 241, 797 | | 86 |
| 32 | | Maroanging | 84 B4 | 100 50 | 70 35 | 60 50 | 42 35 | 138,000 89,000 | 208, 581 128, 446 | | 1, 49 1, 83 |
| 33 34 | 10039 | Patukku | · C1 | 50 | 35 | 0 | 0 | 38, 100 | 66, 971 | | 95 |
| 35 | | Langgara | B4 | 50 | 35 | 0 | 0 | 41, 10D | 70, 594 | 2, 017 | 1, 00 |
| 36 | | Lakojang | B4 | 45 | 32 70 | 0 0 | 0 | 39, 600 84, 600 | 66, 987 144, 087 | | 1, 04 1, 02 |
| 37 38 | 100413 | Lappa Karong S. Bakke | 84 C1 | 100 - 80 | - 56 | Ű | Ő | 60, 400 | 199,007 | | 95 |
| 39 | | S. Lita | 8î | 200 | 140 | Ð | Ð | 138,000 | 250, 493 | 1, 789 | 89 |
| 40 | 10048 | | B3 | 317 | 222 | 0 | 0 | 204, 600 | 380, 025 | | 85 |
| 41 42 | | A jakkang A lakkang | B1 B1 | 75 200 | 53 140 | 0 115 | 0 81 | 57, 700 231, 300 | 101, 420 363, 176 | | 95 1, 29 |
| 43 | | Batu Marajae | Č3 | 50 | 35 | 0 | Ő | 31, 500 | 59,000 | | 84 |
| 44 | 10052 | Matajang | B1 | 75 | 53 | 0 | 0 | 47, 700 | 89, 343 | | 84 |
| 45 | | Palakka | C1 C1 | 200 204 | 140 143 | 0 0 | 0 0 | 138, 000 138, 700 | 250, 493 253, 134 | | 89 88 |
| 46 · 17 | | Pajjenge Pajjeng E | CI | 200 | 140 | Ū | Ű | 138,000 | 250, 493 | | 89 |
| 48 | | Waepubbu | B 3 | 313 | 219 | 92 | 64 | 280, 300 | 469, 656 | | 1, 07 |
| 19 | 10058 | | C1 | 435 | 305 | 0 | 0 | 294, 500 | 538, 297 | | 88 98 |
| 50 51 | | Bunewe Galung Beru | B1 B2 | 50 40 | 35 28 | 0 40 | 0 28 | 39, 500 65, 200 | 68, 662 95, 510 | | 1,70 |
| 52 | | Baji Areng | B4 | 70 | 49 | 35 | 25 | 81, 400 | 127, 649 | 2,605 | 1, 30 |
| 53 | 10063 | Anisia | B2 | 270 | 189 | 60 | 42 | 230, 700 | 391, 789 | | 1, 03 |
| 54 | | Baluzbung | 82 B1 | 200 150 | 140 105 | 0 20 | 0 14 | 150, 000 121, 100 | 264, 986 209, 126 | | 94 99 |
| 55 56 | | Kompenni Lembang Tinurung | 82 | 150 | 105 | 20 | 9 | 114, 900 | 201. 538 | | 96 |
| 57 | | Kassi Buleng | B1 | 100 | 70 | 10 | 1 | 84, 100 | 143, 483 | 2, 050 | 1, 02 |
| 58 | 10068 | | B4 | 75 | 53 | 0 | - 0 | 59,700 | 103, 836 | 1, 959 | 98 1, 49 |
| 59 50 | | Sarajoko Paocani | 84 84 | 30 60 | 21 42 | 15 0 | 11 0 | 41, 600 55, 800 | 62, 816 92, 539 | 2, 991 2, 203 | 1,49 |
| 50 51 | | Patiroang | Ci | 25 | 18 | Ō | Ŭ | 27,000 | 43, 387 | 2, 410 | 1,20 |
| 2 | 10072 | Bongkarae | B4 | 150 | 105 | 40 | 28 | 139, 300 | 231, 107 | 2, 201 | 1.10 |
| 3 | | Pakosbong I Pakosbong I | 85 84 | 45 | 32 49 | 0 0 | · 0 0 | 39, 600 54, 900 | 66, 987 95, 644 | | 1, 04 |
| 4 5 | | Pakombong 11 Pulonggo | вя В4 | 115 | 49 | 30 | 21 | 118, 200 | 95, 049 191, 254 | 2, 361 | 1, 1 |
| š | | Sengi Panda | Ř4 | 100 | 70 | 35 | 25 | 107, 500 | 171, 745 | 2, 453 | 1, 22 |
| 7 | | Marase I | - B4 | 100 | 70 | 0 | 0 | 87,000 | 146, 986 | | 1,0 |
| 18 10 | 10078 | Marame II Polebalî | B4 B5 | 30 120 | 21 84 | . 0 0 | · 0 0 | 42, 900 99, 600 | 64, 386 170, 586 | | 1, 53 1, 01 |
| 59 10 | | Katute | B4 | 75 | 53 | 25 | 18 | 80, 700 | 129, 199 | | 1, 21 |
| 1 | 10081 | lembang narang | B1 - | 100 | 70 | 0 | · 0 | 76, 200 | 133, 942 | 2 1, 913 | · 9 |
| 2 | 10082 | Capengnge | B2 | 139 | 97 | 50 | 35 | 132, 800 | 218, 467 | 2, 252 | 1, 12 |
| 73 74 | | Bambaungan 115-1 | C2 84 | 50 175 | 35 123 | 0 125 | 0 88 | 37, 500 239, 500 | 66, 246 362, 901 | | 9 1, 47 |
| 14 75 | | | 64 84 | 100 | 70 | 125 | 60 49 | 239, 300 | 212, 325 | i 3, 033 | 1, 4, 1, 5, |
| 76 | 10086 | Løkatoang | C1 | 25 | 18 | . 0 | 0 | 31,800 | 49, 184 | 2,732 | 1, 30 |
| 77 78 | 10087 | Balu'eja I Batu'eja II (La'eja) | 84 84 | 100 | 78 | 0 100 | 0 | 77,400 | 135, 392 | | 98 1, 50 |
| 10 | LIUUÖÄ | DALU CIA II (LA CIA) | B4 | 150 | 105 | - 100 | 70 | 209, 500 | 315, 891 | i 3,008 | 1. 31 |

| .80 10 | D90 Barana 11 B5 | 100 70 n n | | (7/12) |
|--|---|---|--|---|
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Jos CalakangB4J91 BalakangB4J92 MajangkaB5J93 PatontonganB5J94 BalutompoB4J95 MatiluB5J96 LabumuttiB5J97 BorongkondoB5J98 BontorihuB5J99 KadiengB1100 TinurungB2J01 GaloggoB1102 KabibingB2 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1. 724 862 2. 415 1. 208 2. 655 1. 333 2. 430 1. 215 1. 756 878 1. 886 943 2. 356 1. 178 2. 356 1. 117 2. 663 1. 332 2. 154 1. 077 1. 996 998 2. 414 1. 207 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 103 Bassaran 84 104 Hiba 84 105 Lalantedong C1 106 Kalo Baru 84 107 Kalo Kimba C1 108 Kalo Kimba C1 108 Kalolang C1 110 Kaloko C1 112 Kambiolangi 11/Linco Batu C1 113 Kambiolangi 11/Linco C1 114 Totallang C1 115 Kaindi C1 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 13, 000 24, 083 66, 200 121, 865 363, 600 671, 921 194, 700 356, 693 104, 700 188, 121 46, 800 85, 262 113, 400 212, 400 92, 600 170, 514 44, 700 83, 325 40, 100 72, 979 67, 320 125, 612 | 2, 382 1, 191 1, 720 860 1, 741 871 1, 723 862 1, 757 879 1, 826 913 1, 776 888 1, 686 843 1, 740 870 1, 701 851 1, 687 849 1, 627 849 1, 727 864 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 116 Pantawan /BontoC1117 ParindingC1118 PassaranC1118 PassaranC1119 PangurakC2120 BulawanC1121 Datte Malano/Pelan PoranB4122 Gegge /LeonB4123 AwoC2124 SengkaB5125 Kao /TantidoB5126 TuaC2127 DadekoB4 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$ | 1, 727 864 2, 432 1, 216 1, 852 926 1, 739 900 1, 851 926 1, 765 883 1, 761 881 1, 704 852 2, 321 1, 161 2, 152 1, 076 1, 704 852 2, 321 1, 219 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 128KarrangC1129S. DurianB4130MemburaC1131Salu GewangB6132BarakaB3133BaringinC1134Salu DaraB4135SarassangB4136S. NoranB4138Salu KalamaB1139Lembang PanaiB5140Lembang BataB5 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 21,000 33,745 47,700 89,343 38,520 70,472 24,900 45,041 35,700 60,480 21,500 38,540 36,300 61,205 27,000 46,979 88,400 143,577 20,900 37,815 132,000 243,246 | 2, 410 1, 205 1, 686 843 1, 762 881 1, 802 901 2, 086 1, 043 1, 835 918 2, 111 1, 056 1, 957 979 2, 124 1, 062 1, 801 901 1, 737 869 |
| 129 10 130 10 131 10 132 10 133 10 133 10 134 10 135 10 135 10 135 10 136 10 | 141 Gantarang85142 Panaikang85143 BalitiC2144 Paburuang85145 KampaniaC2146 PatalasangC2147 AerelembangC2148 Panting85149 Panting85 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 100, 500 184, 246 128, 400 238, 898 150, 200 276, 005 96, 900 179, 898 134, 000 245, 662 95, 700 178, 449 96, 500 179, 415 130, 000 240, 831 68, 200 124, 280 69, 000 125, 246 | 1, 895 948 1, 755 878 1, 706 853 1, 747 874 1, 713 857 1, 755 878 1, 700 850 1, 703 855 1, 720 860 1, 775 888 1, 789 895 1, 851 926 |
| 141 10 142 10 143 10 144 10 145 10 146 10 147 10 148 10 149 10 | 153 Bangkengtele85154 Pitape85155 Sulurang83156 Birangloe83157 Soga/Datara83158 Balangnabodo /Datara83158 Kalampeto83160 Tangkuluka85161 Tangkuluka81 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1, 958 979 1, 686 843 1, 893 947 1, 916 958 1, 686 843 1, 686 843 1, 686 843 1, 686 843 1, 686 843 2, 100 1, 050 2, 171 1, 086 1, 810 905 |
| 151 10 152 10 153 10 154 10 155 10 156 + 10 157 10 | 101 Fancalist01162 BarobboB4163 TabuakangB4163 TabuakangC3165 PabundukangC1166 PattiroB3167 PunagayaB1168 PanritaB2169 PassaukangB470 BontonompoB571 Pao-paoB4172 KompasaB4 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1, 824 912 1, 686 843 1, 949 975 1, 686 843 1, 755 878 1, 927 964 1, 810 905 1, 841 921 1, 824 912 1, 769 885 1, 863 932 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 70 Bortonompo B5 710 Bortonompo B5 711 Pao-pao B4 712 Kompasa B4 713 Tangaparang C1 714 Bungaeja C3 75 Swadiri B1 76 Samanggi B1 77 Puca B6 78 Tombolo B1 80 Bulumarupa (Masale) B4 82 Mario I-11-111 B6 83 Matajang I B4 84 Mahaka B4 85 Sawaru B1 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 31,500 59,000 62,000 110,805 93,600 175,314 | 1, 605 932 1, 686 843 1, 847 924 1, 686 843 1, 720 860 1, 686 843 2, 814 1, 407 2, 260 1, 130 1, 752 876 1, 686 843 1, 686 843 |

(8/12)

| | | | | | | | | | | . (0) | |
|------------|----------------|---|----------|-------------|------------------|-----------|----------|----------------------|----------------------|------------------|-------------------|
| 172 173 | 10187 | Bontoa Panagi | 84 84 | 68 100 | 48 70 | 0 | 0 | 43, 200 81, 000 | 80, 914 139, 739 | 1, 686 1, 996 | 843 998 900 |
| 174 175 | | Malaka Matanre | 84 84 | 119 94 | 83 66 | 9 0 | · 6 0 | 82, 500 65, 400 | 149, 335 118, 504 | 1, 799 1, 796 | 900 898 |
| 176 177 | 10190 | Bontotanga. Makdenge & Ujung | 84 84 | 100 100 | 70 70 | 0 0 | 0 | 67,000 69,000 | 122, 831 125, 246 | 1, 755 1, 789 | 878 895 |
| 178 | 10192 | Bulu-bulu | B5 | 105 | 74 98 | 35 0 | 25 0 | 99, 100 88, 200 | 163, 995 165, 200 | 2, 216 1, 686 | 1, 108 843 |
| 179 180 | | Malempong Wanuawaru | B4 B5 | 140 130 | 91 | . 0 | Ó | 81, 900 | 153, 400 | 1, 686 | 813 847 |
| 181 182 | | Lasipeppa Bangkeng laboro | C1 85 | 265 30 | 186 21 | 0 0 | 0 | 168, 600 21, 700 | 314, 992 38, 782 | 1, 694 1, 847 | 924 |
| 183 184 | 10197 | Arongo II Rumpala | 84 85 | 30 45 | 21 32 | 8 6 | 6 4 | 32, 700 43, 600 | 52,067 71,818 | 2, 479 2, 244 | 1, 240 1, 122 |
| 185 | 10199 | Buke I & II | 85 86 | 125 180 | 88 126 | 10 18 | 7 | 97, 900 135, 100 | 170, 928 238, 608 | 1, 942 1, 894 | 971 947 |
| | 10201 | Pakelli I Pakelli II | 66 | 77 | 54 | 50 | 35 | 103, 700 28, 800 | 157, 576 41, 968 | 2, 918 3, 497 | 1, 459 1, 749 |
| 188 189 | | Kalibong Kanrung | 86 83 | 17 30 | 12 21 | 0 | 0 | 30,900 | 49, 893 | 2, 376 | 1, 188 |
| 190 191 | | Ciping Kabba | 86 86 | 25 145 | 18 102 | 5 0 | 4 0 | 21, 400 96, 600 | 36, 623 177, 740 | 2.035 1.743 | 1,018 872 |
| 192 | 10206 | Lebba Laiya | 86 86 | 125 75 | 88 53 | · 0 () | 0 | 80, 800 52, 500 | 150, 275 95, 140 | 1, 708 1, 795 | 854 898 |
| 194 | 10208 | Galungtoa | Č3 B3 | 270 200 | 189 140 | 0 60 | 0 42 | 174, 900 189, 800 | 324, 397 313, 054 | 1, 716 2, 236 | 858 1, 118 |
| 196 | 10210 | Kajade Seppae | C2 | 150 | 105 | Q | 0 | 95, 460 | 178, 159 | 1,697 | 849 929 |
| | | Ompo I Latana | C1 B3 | 60 150 | 42 105 | 0 75 | 0 53 | 43, 800 163, 400 | 78, 046 260, 214 | 2, 478 | 1,239 |
| | | Ladope Galung Langi | B6 B6 | 100 100 | 70 70 | 20 0 | 14 0 | 84,000 65,800 | 143, 363 121, 382 | 2, 048 1, 734 | 1, 024 867 |
| 201 | 10216 | Irce/Cenranae 11 Cenranae 11/Solo | C3 83 | 215 85 | 151 60 | 0 0 | 0 0 | 189, 900 108, 000 | 319, 761 166, 361 | 2, 118 2, 773 | 1,059 |
| 203 | 10218 | Cenranae IV/Maffabentae | C3 | 100 | 70 105 | 0 0 | Ŏ | 117,000 99,300 | 183, 218 182, 797 | 2, 617 1, 741 | 1, 309 871 |
| 204 205 | 10220 | Peneki Lokading/Salumpare | 83 86 | 150 70 | 49 | 0 | 0 | 48,900 | 88, 397 | 1,804 | 902 |
| 206 207 | | Lagosi 11/S Lagoari Sakkoli/Doping/Cinaga 11 | B4 B1 | 150 150 | 105 105 | 0 0 | 0 0 | 99, 300 104, 100 | 182, 797 188, 594 | 1, 741 1, 796 | 871 898 |
| 208 | 10226 | Mualla /Cingki /Keeeie Linipua / Padaelo | 83 83 | 100 197 | 70 138 | 0 | 0 61 | 69, 000 203, 500 | 125, 246 328, 403 | 1, 789 2, 380 | 895 1, 190 |
| 210 | 10228 | Pao-Pao danau latapak /Saramae | 86 86 | 60 400 | 42 280 | 0 0 | 0 0 | 37, 800 254, 400 | 70, 800 474, 898 | 1,686 1,696 | 843 848 |
| 211 212 | 10230 | tarampakkae /Tokkoe | B6 | 150 | 105 70 | 0 0 | Ö | 98, 500 99, 000 | 181, 831 161, 479 | 1, 732 2, 307 | 866 1, 154 |
| 213 214 | | Kerabera Pilallang | 83 B4 | 100 192 | 134 | 0 | 0 | 125,000 | 231, 200 | 1, 725 | 863 |
| 215 216 | | Labong (Piampo) Tanlung | 83 83 | 150 200 | 105 140 | 0 | 0 0 | 94, 500 132, 000 | 177, 000 243, 246 | 1, 686 1, 737 | 843 869 |
| 217 | 10236 | Salo-Bulo Lameri | 81 81 | 150 100 | 105 70 | 0 | 0 0 | 97, 300 82, 200 | 180, 382 141, 189 | 1, 718 2, 017 | 859 1,009 |
| 219 | 10239 | Pacciro/Akkajengnge | B1 C1 | 20 150 | 14 105 | 0 0 | 0 0 | 19 400 102, 500 | 31, 813 186, 662 | 2,272 | 1, 136 889 |
| 221 | 10241 | Lompoe/Caramele Pattiro | C1 | 40 | 28 | 0 | Ŭ O | 41,200 61,500 | 66, 524 95, 232 | 2, 376 2, 721 | 1, 188 1, 361 |
| | | Tanette Panasa Batu Lotong | C3 86 | 50 50 | 35 35 | 0 | 0 | 37,500 | 66, 246 | 1, 893 | 947 |
| 224 225 | | Rumbia II Rumbia I | C3 C3 | -100 100 | 70 70 | 0 0 | 0 0 | 75,000 73,000 | 132, 493 130, 077 | 1, 893 1, 858 | 947 929 |
| 226 | | Sambueja Svadiri | C1 C1 | 100 150 | 70 105 | 0 0 | 0 0 | 65,000 102,500 | 120, 415 186, 662 | 1, 720 1, 778 | 860 889 |
| 228 | 10248 | Akkajeng'e Lamalampe | Č1 C1 | 200 150 | 140 105 | 0 | 0 | 134, 000 100, 500 | 245, 662 184, 246 | 1, 755 1, 755 | 878 878 |
| | | | C1 | 180 | 126 | 0 | Ŭ Q | 121, 400 197, 000 | 222, 062 363, 662 | 1, 762 1, 732 | 881 866 |
| 231 232 | 10251 | Labawi DI. Tobangko Bontoraja Batudoli LUWARING | C1 B1 | 300 80 | 210 56 | 0 | 0 | 68, 400 | 116, 139 | 2,074 | 1,037 |
| 233 234 | 10253 10271 | Batudoli LUMARING | 84 B1 | 400 102 | 280 71 | 320 0 | 224 0 | 555, 200 73, 900 | 838, 189 131, 763 | 2, 994 1, 856 | 1. 497 928 |
| 235 | 10272 | SAMPANO Lalento | 81 B1 | 234 300 | 164 210 | 0 54 | 0 38 | 159, 600 248, 400 | 290, 950 425, 740 | 1,774 2,027 | 887 1, 014 |
| 237 | 10274 | TEMBOE | B1 C1 | 200 60 | 140 42 | 0 | 0 | 138,000 43,800 | 250, 493 78, 046 | 1, 789 1, 858 | 895 929 |
| 239 | 10276 | NALOSO TOASYIK | C1 | 120 | 84 | 0 | 0 | 75,600 | 141, 600 | 1, 686 1, 686 | 843 843 |
| 241 | 10278 | B A M B A Kadinge | C2 C1 | 190 170 | 133 119 | 0 0 | 0 | 119,700 111,100 | 224, 200 205, 431 | 1, 726 | 863 |
| | | KATYANG/TOMPO TTROMUNDA | B1 C1 | 280 100 | 196 70 | 0 0 | · 0 0 | 184, 400 81, 000 | 340, 062 139, 739 | 1, 735 1, 996 | 868 998 |
| 244 | 10281 | MURANDE PADANG LAMBE | C1 C1 | 60 317 | 42 222 | 0 | 0 | 41, 800 205, 800 | 75, 631 381, 475 | 1, 801 1, 718 | 901 859 |
| 246 | 10283 | BARANG MAMASE | Č1 84 | 200 125 | 140 88 | Ŏ | 0 0 | 138,000 85,200 | 250, 493 155, 589 | 1,789 1,768 | 895 884 |
| 248 * | 10287 | | C2 | 46 | 32 | 0 | 0 | 34, 800 | 61.189 | 1,912 | 956 |
| | | PARARA WALALING POTANTTU | C1 C2 | 32 100 | 22 70 | 0 | 0 | 19, 800 63, 000 | 37, 086 118, 000 | 1, 686 | 843 843 |
| | | BAEBUNTA S A S S A | C2 C2 | 40 50 | 28 35 | 0 0 | 0 0 | 25, 200 35, 500 | 47, 200 63, 831 | | 843 912 |
| 253 | 10294 | BEBESUK SALULATYA | C1 C1 | 240 100 | 168 70 | 0 0 | 0 | 158, 400 67, 800 | 291, 896 123, 797 | | 869 885 |
| 255 | 10296 | WALU-WALU | C1 C1 | 240 75 | 168 | Ŭ | Ŭ O | 158, 400 51, 900 | 291, 896 94, 415 | | 869 891 |
| 257 | 10298 | KALUKU TANDUNG | C1 | 30 | 21 | 0 | 0 | 20, 900 | 37, 815 | 1,801 | 901 |
| | 10300 | POMPALANGI PATILLA II | B1 C2 | 70 50 | 49 35 | 0 | 0 | 50, 100 33, 500 | 89, 846 61, 415 | 1, 834 1, 755 | 917 878 |
| 260 261 | 10302 | PATILLA I K A L U A | C2 84 | 150 100 | 105 70 | 0 | 0 | 94, 500 63, 000 | 177,000 118,000 | 1,686 1,686 | 843 843 |
| 262 263 | 10303 | TOLIKU PALINO | C3 C1 | 80 60 | 56 4 2 | 0 0 | 0 0 | 50, 400 47, 400 | 94, 400 82, 394 | 1,686 1,962 | 843 981 |
| | - • | | | | VII | | 64 | | | · | |

| | | | | | | | | | | | | , | |
|-----|--------------|----------------|--|------------|------------|------------|--|--|---|--------------------------------|------------------|-----------------|--|
| | 264 265 | 10305 10306 | MEBALI SAPANRA'BA SAMPANG BATU II DI.SAMPANG BATU I DI.SAMPANG BATU I DI.SAMPANG BATU I DI.SAMPANG BATU I DI.SAMPANG BATU I DI.SAMPANG BATU I BOMBO WAY LOMBOK SODE MARARA TO'BATU BUTU TONGKON T Å U R Å PA'DATTERAN MATASALU SALUASA BELALANG BURASEA SA'TANDUNG LEPPAN S.PUTTI SALU RANO O R O N G SINAE K A N A K A LEWANGAN MATANDE SUNGAI URU SALUASA BELALANG D' KANA SILOPA PA'BASEAN DUA PASANBONWAY MATAKALI B Å T U SALUPANGI TAYANG PAMPASE M A M M I AWDLA TANDAKAN KALEOK BUTU LAMBA SILOPO PAPANDANGAN K U N Y I GALUNG LOMBOK LAMASE TANDUNG BATU ALANG MATHI | C1 C1 | 55 110 | 39 77 | 0 | 0 0 | 35, 100 72, 500 | 65,743 | 1, 686 | 843 | |
| | 266 | 10307 | SAMPANG BATU 11 | B4 | 50 | 35 | 0 0 0 0 0 0 0 0 0 0 | 0 | 72, 500 33, 900 | 133, 665 61, 899 82, 394 | 1, 736 1, 769 | 868 885 | |
| | 268 | 10308 | DI, KADA | C1 C1 | 60 100 | 42 70 | Ŭ | 0 0 | 47, 400 65, 800 | 82, 394 | 1, 962 | 981 | |
| | 269 | 10310 | KOMBA II | C2 | 100 | ŻŎ | ŏ | Ő | 63, 800 | 121, 382 118, 966 | 1, 734 1, 700 | 867 850 | |
| | 271 | 10312 | BOMBO WAY | 64 C1 | 100 100 | 70 70 | 0 | 0 0 | 63, 000 63, 000 | 118,000 | 1, 685 | 843 | |
| | 272 | 10313 | LOMBOK SODE | ČÌ | 70 | 49 | ŏ | Ŭ | 48, 500 | 118,000 87,914 | 1, 886 1, 794 | 843 897 | |
| | 273 | 10314 | MARARA TO' BATU | C1 81 | 100 75 | 70 53 | 0 | 0 0 | 86, 20 0 | 121, 865 | 1, 741 | 871 | |
| | 275 | 10316 | BUTU TONGKON | B4 | 95 | 67 | 0 | 0 0 | 49, 300 62, 300 | 91, 275 115, 358 | 1, 722 1, 722 | 861 851 | |
| | 276 277 | 10317 | T A U K A PA' DATTEBAN | 61 61 | 150 100 | 105 70 | 0 0 | 0 | 94, 500 | 115, 358 177, 000 | 1, 686 | 843 | |
| | 278 | 10319 | MATASALU | Bi | 160 | 112 | 0 | 0 0 | 72,600 110,400 | 129, 594 200, 394 | 1, 851 1, 789 | 926 895 | |
| | 279 280 | 10320 | SALUASA RELALANC | C2 85 | 200 100 | 140 | 0 | 0 | 130, 800 | 241, 797 | 1, 727 | 864 | |
| | 281 | 10322 | BURASEA | 86 | 112 | 70 78 | 0 0 0 0 | 0 0 | 87, 000 76, 200 | 146, 986 138, 732 | 2, 100 1, 779 | 1, 050 890 | |
| | 282 | 10323 | SA' TANDUNG LEPPAN | C1 85 | 50 150 | 35 | 0 0 | Q | 53, 100 | 85,087 | 2, 431 | 1, 216 | |
| | 284 | 10325 | SALU RANO | B4 | 125 | 105 88 | u () | 0 | 94, 500 86, 400 | 177,000 157,039 | 1, 586 1, 785 | 843 893 | |
| | 285 | 10326 | ORONG STUAF | 85 | 80 | 56 | 0 | 0 | 58, 800 | 104, 545 | 1,867 | 934 | |
| | 287 - | 10328 | KANAKA | CL | 100 50 | 70 35 | 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 65, 000 45, 900 | 120, 415 76, 392 | 1, 720 2, 183 | 860 1, 092 | |
| | 288 | 10329 | LEWANGAN | C1 | 140 | 98 | Ō | Ő | 94, 200 | 172, 446 | 1, 760 | 1,032 880 | |
| | 209 | 10330 | SUNGAL URU | C1 | 100 70 | 49 | U N | 0 0 | 63, 800 52, 500 | 118, 966 92, 745 | 1, 700 1, 893 | 850 947 | |
| | 291 * | 10332 | SALU A' KUNG | C1 | 70 37 | 26 | Ŏ | õ | 27,000 | 48, 176 | 1, 853 | 947 927 | |
| | 292 293 | 10334 | IU NAKAU PASANG | C1 C1 | 98 200 | 63 140 | 0 0 | 0 | 60, 300 129, 200 | 110, 548 239, 865 | 1,755 | 878 | |
| | 294 | 10335 | PA' BASEAN DUA | CĪ | 90 | 63 | Ő | ŏ | 73, 500 | | 1, 713 2, 008 | 857 1,004 | |
| | 295 296 | 10335 | PASANBUMWAY Matayal I | C1 C1 | 100 75 | 70 53 | 0 0 | 0 | 83,000 | 142, 155 | 2, 031 | 1,016 | |
| | 297 | 10338 | BATU | či | 90 | 63 | 0 | 0 | 59, 100 | 95, 589 109, 099 | 1.822 1.732 | 911 866 | |
| | 298 | 10339 | SALUPANGI TAVANG DANMASE | C1 81 | 80 90 | 56 | 0 | 0 | 73, 500 83, 000 53, 700 59, 100 53, 200 61, 500 30, 000 53, 700 46, 200 46, 200 46, 100 102, 400 50, 400 28, 800 28, 800 54, 400 50, 100 193, 500 40, 200 63, 500 75, 300 130, 000 127, 600 44, 400 38, 100 38, 400 28, 400 | 97, 782 | 1, 746 | 873 | |
| | 300 | 10340 | MANNI | C2 | 45 | 32 | Ŭ | 0 | ar, sou 30, 000 | 111, 997 55, 392 | 1, 778 1, 731 | 889 856 | |
| ÷., | 301 | 10342 | AMOLA | C2 | 70 | 49 | 0 | 0 | 53, 700 | 94, 194 | 1, 922 | 961 | |
| | 302 | 10343 | KALEOK | C1 | 60 - 65 | 46 | U 0 | 0 | 46, 200 | 80, 945 84, 789 | 1, 927 1, 843 | 964 922 | |
| | 304 | 10345 | BUITTU LANBA | Bl | 70 | 49 | Ő | Ŏ | 46, 100 | 85, 015 | 1, 735 | 868 | |
| | 305 | 10340 | PAPANDANGAN | C2 | 160 80 | 56 | 0 | U (1) | 102, 400 | 190, 732 94, 400 | 1, 703 1, 686 | 852 843 | |
| | 307 | 10348 | KUNYI | C2 | 45 | 32 | Ó | Õ | 28, 800 | 53, 943 | 1, 586 | 843 | |
| | 308 389 | 10350 | GALUNG LUMBUK LAMASE | · 01 01 | 80 70 | 50 49 | U () | ย ถ | 54,400 50,100 | 99, 231 89, 846 | 1, 772 1, 834 | 886 917 | |
| | 310 | 10352 | K U N Y I GALUNG LOMBOK LAMASE TANDUKG BATU ALANG MARIRI TABONE SALO RATTE MAKAU L O K O P A R A K OROPUA/UEKATA-S. PARAK SALO BUE S. PONGKO DI. TONDOK BAKARU DI. TAWANE OSANGO | ĊĨ | 250 | 175 | ŏ | Õ | 193, 500 | 338, 479 | 1, 934 | 967 | |
| | 311 312 # | 10353 | BATU ALANG MARIRI | 84 C1 | 50 00 | 42 | 0 41 | 0 20 | 40, 200 | 73, 599 114, 413 | 1, 755 1, 816 | 878 908 | |
| | 313 | 10355 | TABONE | CI | 30 | 21 | Ô | 0 | 23, 700 | 41, 197 | 1, 962 | 981 | |
| | 314 | 10356 | SALO RATTE | B5 | 55 | 39 | 0 | • 0 | 35, 500 | 66, 226 | 1, 698 | 849 | |
| | 315 316 | 10357 | LOKO | C1 | 200 | 140 | 0 | U () | 130, 800 | 139, 441 240, 831 | 1, 721 1, 720 | 861 860 | |
| | 317 | 10359 | PARAK ADDRILLAIEVITE C. DEDLY | C1 | 200 | 140 | 0 | 0 | 127, 600 | 237, 932 | 1, 720 1, 700 | 850 | |
| | 318 319 | 10360 | SALO BUE | C1 | 64 58 | 44 41 | 0 | 0 | 44, 400 38, 100 | .79,969 70,564 | 1, 817 | 909 861 | |
| | 320 | 10362 | S. PONGKO | ČĨ | 40 | 28 | | | | | 1,824 | \$12 | |
| | 321 322 | 10363 | DI. TONDOK BAKARU DI TAWANF | C2 C2 | 75 75 | 53 53 | 0 0 | 0 0 | 50, 900 48, 900 | 93, 208 90, 792 | 1,759 1,713 | 880 857 | |
| | 323 | 10365 | OSANGO | Č2 | 200 | 140 | 0 | 0 | 127, 600 | 237, 932 | 1, 700 | 850 | |
| | 324 325 . | 10366 | SARIAYO PASOAN | C1 C1 | 45 30 | 32 21 | 0 D | 0 · · | 32, 800 22, 100 | 58, 774 39, 265 | 1, 837 1, 870 | 919 935 | |
| | 326 | 10368 | HAKALANGKAN | 61 | 50 60 | 42 | 0 | · 0 | 41, 800 | 75, 631 | 1, 801 | 901 | |
| | 327 | 10369 | PENANIAN | C1 C1 | 60 25 | 42 18 | 0 0 | 0 0 | 41,000 19,400 | 74, 665 34, 208 | 1, 778 1, 900 | 889 950 | |
| | 328 329 | | KADAKE LALAKI | C1 C1 | 25 35 | 18 25 | 0 | 0 | 25, 700 | 46, 008 | 1, 840 | 920 | |
| | 330 | 10372 | BAMBANANGKA | B4 | 50 | 35 | Ó | Ó | 32, 700 | 60, 449 | 1, 727 | 854 | |
| | 331 332 | 10373 | MAKAKIA LEKKONG | C1 C1 | 100 35 | 70 25 | 0 0 | 0 0 | 66, 600 28, 500 | 122, 348 49, 389 | 1, 748 1, 976 | 874 988 | |
| | 333 | 10376 | S. MAMBI | C2 | 100 | 70 | 0 | 0 | 66, 200 | 121, 865 | 1, 741 | 871 | |
| | 334 335 | 10377 | MUKANAN | C1 C1 | 60 42 | 42 29 | 0 0 | 0 0 | 41, 000 32, 100 | 74, 665 56, 132 | 1, 778 1, 936 | 889 968 | |
| | 336 | 10379 | TINGGAS S.E.S.E | B1 | 42 30 | 21 | 0 | 0 | 18, 900 | 35, 400 | 1, 686 | 843 | |
| | 337 | 10380 | BURING | B4 | 48 70 | 34 49 | 0 0 | 0 0 | 34, 600 47, 100 | 62, 145 86, 223 | 1, 828 1, 760 | 914 880 | |
| | 338 339 | 10382 | BALIHANANG/WAI TUMBUR TAOSA | C3 B1 | 70 199 | 49 70 | 0 | ប ប | 93, 868 | 154, 232 | 2, 203 | 1, 102 | |
| | 340 | 10383 | MARURINDING | C3 | 52 | 36 | 0 | 0 | 35, 600 | 64, 550 92, 036 | 1, 793 2, 001 | 897 1, 001 | |
| | 341 342 | | A N U S U Karanamu | C1 C1 | 65 40 | 46 28 | 0 0 | 0 0 | 53, 400 27, 600 | 92, 036 50, 099 | 2, 001 | 1,001 895 | |
| | 343 | 10386 | BONDEPUTE | B3 | 65 | 46 | 0 | Ó | 42, 200 | 78, 509 | 1, 707 | 854 | |
| | 344 | 10387 | PANIKI | 82 | 200 | 140 | 0 0 | 0 0 | 126, 000 152, 200 | 236, DDD 284, 408 | 1, 585 1, 693 | 843 847 | |
| | 345 346 | 10389 | PURE II | C1 C1 | 240 150 | 168 105 | U () | U 0 | 94, 500 | 177,000 | 1, 686 | 843 | |
| | 347 | 10390 | KALUKKU | B3 | 200 | 140 | 0 | 0 | 150,000 | 264, 986 238, 557 | 1, 893 1, 705 | 947 853 | |
| | 348 349 | 10391 | GULILING POKKA PURE I | C1 C1 | 200 250 | 140 175 | 0 0 | 0 | 128, 200 157, 500 | 238, 657 295, 000 | 1, 785 | 843 | |
| | | | | ••• | | | | | | | 681, 135 | 340, 645 | |
| | T | otat | and the second | | | 29, 365 | | 2, 236 35 | 31, 981, 580 91, 638 | 56, 207, 695 161, 054 | 1, 952 | 340, 045 976 | |

Remarks : * ; Representative Scheme

VIII - 65

(9/12)

| | | COST ESTIMATION | N | | | West N | usa Teng | gara | | | · · · · |
|-----|-------------|-----------------|------|----------------|------------------|---------|---------------|---------------|----------------|---------------|----------------|
| | | | · | | | | | | | | |
| No. | CODE No. | Area Name | Gr. | Gross Field | Paddy s (Ha.) | | D. a (Ha.) | Civil Work | Grand Total | Unit Cost | ····· |
| | | IRR | | Listed | Planne | dListed | Planned | 1000Rp. | 1000Rp. | 1000Rp. /łła | US\$/Ha. |
| 1 | 43001 | MOYO | A1 | 827 | 579 | | 94 | 225, 600 | 328, 750 | | 1,749 |
| 2 | 4300Z | BERINGIN SILA | A1 | 503 | | | | 576, 000 | | | 1, 749 |
| 3 | 43003 | KUANG RAKO | Al | 350 | | 0 | . 0 | 0 | 0 | **** 9 209 | |
| 4 | 43004 | MARENTEH | A1 | 376 | 263 | 43 | 30 | 72,000 | 104, 920 | | 1, 749 |
| 5 | | LEKONG | A1 | 425 | 298 | . 0 | 0 | 0 | 0. | | 1.749 |
| 6 | 43006 | TINU KAWA | Al | 703 | 492 | | | 88, 800 | 129, 402 | 3,497 | 1, 143 |
| 7 | 43007 | PLAMPANG | A1 | 400 | 280 | 0 | 0 | | : 0 | **** | **** |
| 8 | | PLAMPO' D | A1 | 300 | 210 | | 0 0 | Ų | 0 | **** | **** |
| 9 | | TARUSAN | A1 | 510 | 357 | 0 | · · | U | 0 | 4444 | **** |
| 10 | | JURU MAPIN | A1 | 400 | 280 | | | 1 I I | 103 000 | | 1.749 |
| 11 | | SANTONG | Al | 1577 | | 69 | 48 | 115, 200 | 167, 872 | | 1, /49 **** |
| 12 | 44008 | MAGIK KEMBAR | A2 | 1, 305 | 913 | | | U | U U | **** **** | **** |
| 13 | | REMPEK | Å1 | 386 | 270 | | Õ | U | U | | **** |
| 14 | 44012 | PRAWIRA | AL | 40 | | | . 0 | | . : U | **** | 4444 |
| 15 | 45004 | BILE REMONG | . A1 | 300 | 210 | | 0 | U | | **** | |
| 16 | +45010 | DANAR JENGKANG | Α4 | 171 | | | 115 | 356, 500 | | | 2, 172 |
| 17. | 45016 | PELEMENG | A3 | 350 | 245 | | | 85,000 | | | 1, 809 |
| 18 | 45017 | 1JO DALIT | Å1 | 388 | 272 | | | 609, 600 | | | 1, 749 |
| 19 | | LENDANG GUAR | A3 | | 590 | 600 | | | 1, 519, 607 | | 1, 809 |
| 20 | | RABA KECIL | A3 | 465 | 326 | 0 | 0 | 0 | 0 | **** . | **** |
| Ĩc | tal | | | | 7, 434 | | 1, 272 | | 4, 600, 670 | 32, 561 | |
| | erage | - 1 | | | 372 | | . 141 | | | | 1,809 |

Remarks : + ; Representative Scheme

31NTVLD

COST ESTIMATION

West Nusa Tenggara

| No. | CODE | Area Name | Gr. | Gross | Paddy | L. | D. | Civil | Grand | Unit | : |
|-----------|----------------|--|--------------|-------------|-------------|-------------|----------------------------------|----------------------|----------------------------|------------------|------------------|
| · | No. | IRR | | | (IIa.) | | | Work | Total | Cost | |
| 1 | 31004 | GUNUNG WAKUL | C1 | 314 359 | | | | | | 1000Rp. /ila | US\$/Ha. |
| 2 | 31005 | REBAN BARU | | | 220 251 | 0 0 | 0 0 | 198, 000 229, 500 | 370, 857 427, 462 | 1,686 1,703 | 843 |
| 3 | | RUMPANG BATU PUTIK | C2 85 | 75 25 | 53 | 0 | 0 | 59,700 | 103, 836 | 1, 959 | 852 980 |
| 5 | 31008 | SIDEMEN | 84 | 283 | 198 | Ü | U A | 19, 800 183, 600 | 34, 691 340, 293 | | 964 |
| 67 | | EYAT TEREP MELEP | 84 83 | 108 430 | 76 | ů, | Ō | 7Z, 600 | 133, 187 | 1, 719 1, 752 | 860 876 |
| 8 | 31011 | PURI | CŻ | 51 | 301 - 36 | 0 0 0 | 0 0 | 274, 500 36, 000 | 511, 748 65, 034 | 1, 700 1, 806 | |
| · 9 10 | | AMARAD DORO KORE | C1 84 | 100 | 70 | 0 | n : | 71, 400 | 128, 145 | 1, 831 | 903 916 |
| 11 | 32004 | KARANG BURA | Cl | 27 | 49 19 | 70 | 49 () | 113, 800 29, 100 | 166, 780 46, 522 | 3, 404 2, 449 | 1, 702 |
| 12 13 | | LORE/SETOLO FOO KOCABO WAWO | C1 C1 | 80 149 | 56 98 | U, | Ō | 56, 400 | 101, 646 | 1.815 | 1, 225 908 |
| - 14 | 32008 | KALATE KOCU | B4 | - 100 | 70 | 0 0 | 49 0 0 0 0 0 0 | 103, 800 70, 200 | 184, 041 126, 696 | 1, 878 1, 810 | 939 |
| 15 16 | | MADA MANINI Langgodu | C2 C1 | 100 50 | 70 | · 0 | Ō | 70, 200 | 126, 696 | 1, 810 | 905 905 |
| 17 | 32017 | NCANGA | C1 C1 | 50 | 35 35 | 0 | . U. | 36, 300 36, 300 | 64, 797 64, 797 | 1, 851 1, 851 | 926 926 |
| 18 19 | | WOKO. I Umpungka | C1 B1 | 40 | 28 | 0 | 0 | 40, 800 | 66, 041 | 2, 359 | 1, 180 |
| 20 | 33005 | KARUAK | Cl | 100 | 105 70 | :0 0 | 0 | 94, 500 72, 000 | 177,000 128,870 | 1, 686 1, 841 | 843 921 |
| 21 22 | | | B1 B1 | 113 148 | 79 104 | 0 0 | 0 | 71, 100 | 133, 171 | 1,686 | 843 |
| 23 | 33009 | EMPANG SABAWA | C1 | 80 | 56 | 0 | 0 0 | 93, 600 60, 600 | 175, 314 106, 719 | 1, 686 1, 906 | 843 953 |
| 24 25 | | | C1 C2 | 200 50 | 140 35 | 0 | 0 · | 132,000 | 243, 245 | 1, 737 | 869 |
| 26 | 33013 | ORONG BALE KEBA | B2 | 70 | 49 | 0 20 | 0 14 | 39, 900 62, 300 | 69, 145 104, 581 | 1, 976 2, 134 | 988 1,067 |
| 27 | | ORONG BATU JANGO ORONG LENGAS | 82 81 | 35 45 | 25 32 | 10 5 | 7 | 35, 200 | 57.481 | 2, 299 | 1, 150 |
| 29 | 33017 | ORONG MASIN | CI | 40 | 28 | 0 | 4 0 | 37, 600 43, 200 | 64, 571 68, 939 | 2, 018 2, 462 | 1,009 1,231 |
| 30 31 | | ODONC TELLCA | 82 C2 | 50 25 | 35 | 25 0 | 18 | 60, 900 | 94, 508 | 2, 700 | 1, 358 |
| 32 | 33020 | AYAN | C1 | - 2J 90 | 63 | n | 0 | 34, 200 62, 100 | 52, 082 112, 722 | 2, 893 1, 789 | 1, 447 895 |
| 33 34 | | KEMANG KUNING PENYAUNG | C1 | 75 | 53 | 0 | 0 | 47, 700 | 89, 343 | 1, 686 | 843 |
| 35 | 33025 | SABURUNG ATAS | B1 | 65 | 70 46 | 0 0 | 0 0 | 63, 000 41, 400 | 118, 000 77, 543 | 1, 686 1, 686 | 843 843 |
| 36 37 | | | C1 B1 | | 21 | 0 | 0 | 21, 300 | 38, 299 | 1, 824 | 912 |
| 38 | | ORONG BAKO ATAS Orong bako bawah | B1 | 55 45 | 39 32 | 15 0 | 11 0 | 73, 400 33, 600 | 112,000 59,740 | 2, 872 1, 867 | 1, 436 934 |
| 39 40 | | PAKAT SABEDO | B1 81 | 155 200 | 109 140 | 40 | 28 | 134, 500 | 227, 705 | 2, 089 | 1, 045 |
| 41 | | BATU ALANG | B1 | | 70 | 15 10 | 11 7 | 164, 300 90, 100 | 282, 257 150, 730 | 2, 016 2, 153 | 1,008 1,077 |
| 42 43 | | SEMINGKAR ORONG TOAN | C1 B1 | 47 60 | 33 42 | 0 35 | 0 | 35, 700 72, 100 | 62, 875 | 1, 905 | 953 |
| 44 | | AI NUNUNG | C2 | | 28 | | 25 0 | | 112, 226 47, 200 | 2, 672 1, 686 | 1, 336 843 |
| 45 46 | | AT SELALO TARUTUM | C2 C1 | 77 60 | 54 | 0 0 | 0 | 53, 400 | 96, 826 | 1, 793 | 897 |
| 47 | | ORONG HALA | 82 | | 42 140 | 50 | 0 35 | 61, 800 171, 500 | 99, 786 290, 952 | 2, 375 2, 078 | 1, 188 1, 039 |
| 48 49 | | AI MALIN GAMENTE | C2 : C1 | | 53 | 0 | 0 | 53, 700 | 96, 589 | 1, 822 | 911 |
| | | UMA LEBANG | B1 | 127 | 18 89 | 30 | 0 21 | 40, 209 122, 400 | 59, 329 201, 116 | 3, 296 2, 260 | 1, 648 1, 130 |
| 51 | 33053 | ORANG PAMONGKA | C1 . | 25 | 18 | 0 | 0 | 25, 200 | 41, 213 | 2, 290 | 1, 145 |
| 52 53 | 33055 | BANTIL PELAT | CI Bi | 50 95 | 35 67 | 0 0 | · 0 0 | 39, 900 70, 500 | 69, 145 125, 262 | 1, 976 1, 870 | 988 935 |
| 54 | 33056 | ORANG LAMEK | B1 | 40 | 28 | 15 | 11 | 46, 700 | 73, 167 | 2, 613 | 1, 307 |
| 55 56 | 33050 | PEMANGAL | DI C1 | 60 75 | 42 53 | 15 0 | 11 | 61, 100 65, 700 | 98, 941 111, 082 | 2, 356 2, 096 | 1, 178 1, 048 |
| 57 | 33061 | REBANSAILE | B1 | 95 | 67 | 15 | 11 | 83, 600 | 141,083 | 2, 106 | 1,053 |
| 58 59 | 34002 | P E L A T ORANG LAMEK TIUKAPAS PEMANGAL REBANSAHE MENDALA LOKOK PELOK LOKOK TRIPAS LENGGORONG LEKOK SOLOH (TODO) SESAOT II (SURANADI) | C1 84 | - 75 300 | 53 210 | 0 0 | 0 0 | .56, 700 196, 200 | 100, 213 362, 696 | 1, 891 1, 727 | 945 864 |
| 60 * | 34004 | LOKOK TRIPAS | C1 | 49 | 34 | 0 | 0 | 35, 400 | 63, 111 | 1, 856 | 928 |
| 61 62 | 34005 | LENGGURUNG | C1 C1 | 200 623 | 140 436 | 0 | 0 0 | 126, 000 423, 000 | 236,000 771,928 | 1, 686 1, 770 | 843 885 |
| 63 | 34007 | SOLOH (TODO) | C1 | 115 | - 81 | - 0 | 0 | 82, 500 | 148, 137 225, 886 | 1,829 | 915 843 |
| 64 65 | 34010 | SESAOT II (SURANADI) JONTLAK |) 63 . 63 | 192 48 | 134 34 | 0 0 | 0 0 | 120, 600 33, 000 | 60, 213 | 1, 686 1, 771 | 885 |
| 66 | 34012 | BURUAN | C1 | 256 | 179 | 0 | 0 | 191, 100 | 337, 975 | 1, 888 | 944 |
| 67 68 | 34013 | JONTLAK BURUAN MANGGALA AMPEL DURI MONTONG BARU I BANGKET BAYAN BANGKET BAYAN | C1 C1 | 144 25 | 101 18 | - 0 - 0 | 0 | 120, 900 22, 200 | 206, 490 37, 589 | 2, 044 2, 088 | 1, 022 1, 044 |
| 69 | 34015 | MONTONG BARU I | Č1 | 25 | 18 | 0 | 0 | 16, 200 | 30, 343 | 1, 686 1, 769 | 843 885 |
| 70 71 | 34015 | BANGKET BAYAN BANGKET UBAN | C3 B1 | 50 52 | 35 36 | 0 | · 0 1 | 33, 900 37, 300 | 61, 899 66, 604 | 1, 850 | 925 |
| 72 | 34018 | TANJUNG RIRIL | ĊÎ | 50 | 35 | 0 | 0 | 35, 100 | 63, 348 | 1, 810 | 905 |
| 73 74 | 34021 34022 | TERES GENIT TELAGA SEGOAR BARUNG BIRAK | C1 R1 | 75 30 | 53 21 | : 0 0 | 0 0 | 52, 500 18, 900 | 95, 140 35, 1 00 | 1, 795 1, 686 | 898 843 |
| 75 | 34023 | BARUNG BIRAK | B1 | 50 | 35 | 40 | 28 | 67,900 | 102, 962 | 2, 942 | 1, 471 |
| 76 77 | 34024 | BARUNG BIRAK KELANJUHAN LABUHAN POH | B4 85 | 100 30 | 70 21 | 25 20 | 18 14 | 89, 400 47, 900 | 149, 885 70, 425 | 2, 141 3, 354 | 1,071 1,677 |
| 78 | 32001 | MELENG | Ū1 | 154 | 108 | 0 | 0 | 101, 400 | 187, 130 242, 773 | 1, 733 1, 759 | 867 880 |
| 79 | J500Z | PEROPOK | C2 | 197 | 138 | 0 | 0 | 132, 600 | 141, 113 | 1, (05 | 0.00 |

Remarks : + ; Representative Scheme

Fig. VIII- 1 IMPLEMENTATION SCHEDULE FOR THE PROJECT

| | | | | | | | • | | ÷. | | |
|---|---------------------|------|---------------------------------------|---|------|--|-------------|------|-------|-------------|--------------|
| I T E M. | (QUANTITY) | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | |
| Loan Period | | | | | | | | | | | |
| I. Preparation | | | · · · · · · · · · · · · · · · · · · · | - | | | | | | | |
| 1.1 Preparation of I/P | | 1 | | | | | | | | | |
| 1.2 Appraisal | | | | | | ······································ | | | | | - |
| 71.3 Loan Agreement | | | 4 | | | · | | | | | T |
| 1.4 Selection of Consultants | | | | | | | | | - | - | T |
| 1.5 Project Coordination | | | 1 1 | - I I I I I I I I I | | | | | | | |
| II. Project Works | | | | | | | | | | | |
| 2.1 Preparatory Works | | | | | | | | | | | |
| (1) Office arrangements | Central & Provinces | | | | | | | | | | T |
| (2) Survey and Investigation | 30, 400 ha | | | | | | | | | | T |
| 2.2 Civil Works (North Sumatra, South Sulawesi, | | | | | | | | | | - | T |
| NTB Province) | | | | | | | | | | | T |
| (1) Land Development | 2.300 ha | | | | | | - | | | | 7 |
| a. Assembling of farmer's groups | 30 Groups | | | | | | | | | | - <u>1</u> - |
| b. Detailed design | 30 Schenes | | | | | | | | | |] |
| c. Rehabilitation & Extension of facilities | 2, 300 ha | | | | | | | | - | | |
| d. Land clearing / levelling | 2, 300 ha | | | | | | | | | | |
| e. Formatting, etc. | 2, 300 ha | | | | | | | | | | |
| (2) Village Irrigation Development | 28.100 ha | | | | | | - - - | | | | |
| a. Assembling of farmer sgroups | 310 Groups | | | | | | | | · | | - 1 |
| b. Detailed design | 310 Schenes | | | | | | | - | | | •••••• |
| c. Rehabilitation & Extension of on-farm | 28,100 ha | | | | | | | | | | ···· |
| facilities | | | | | | | | | | | - - |
| d. Land clearing / levelling | 2,000 ha | | | | | | | | • | • • • | |
| e. Formatting, etc. | 2,000 ha | | | | | | | | | | |
| 2.3 Training | 1 L.S | | | | | | | | | | |
| 2.4 Post Evaluation | 340 Schenes | | | | | | | | | | |
| | | | | | | | | | ~ | _ | |

Table VIII-10 ANNUAL DISBURSEMENT SCHEDULE OF FINANCIAL COST

| · · · · · · · · · · · · · · · · · · · | F/C | total cost | Total | 1993 F/C L/C | F/C | 1384 L/C | 1995 F/C | 1/C | 1996 F/C L, | | 1997 F/C L, | L/C F | 1958 F/C | L/C | 1.999 F/C L, | .2/ | 2000 F/C L/ | D/7 |
|---------------------------------------|------------|------------|---------|-----------------|--------|-------------|-------------|--------|----------------|----------|----------------|---------------|-------------|---------|-----------------|------|----------------|------|
| Preparatory Works | 1. 550 | 1, 033 | 2, 583 | | 620 | 413 | 238 | 159 | 238 | 159 | 233 | 155 | 78 | 52 | 72 | . 82 | 72 | \$ |
| 2. Civil Works | 0 | 0 | 0 | •. | 0 | 0 | 0 | 0 | | Ð | | | 0 | 0 | 0 | 0 | 0 | C |
| 2.1 Land Development | 3, 006 | 3, 007 | 6, 013 | | 0 | 6 | 1, 202 | 1. 203 | 451 | 451 | 752 | 752 | 601 · | 601 | 0 | 0 | 0 | Ð |
| 2.2 Intake & Canal Structure 15, 553 | 16, 553 | 15.652 | 33, 305 | | 0 | 0 | | 4.426 | 3, 988 3, | 988 4, | 163.4. | 4,163 4, | 076 4 | 076 | 0 | 0 | 0 | 0 |
| 3. Training & Demonstration | 145 | 827 | 972 | | co ' | 5 | 29 | 165 | | 204 | | -204 | 29 | 165 | ٢ | 38 | ġ | 0 |
| 4. Institutional Strenghening | 298 | 128 | 426 | • | 53 | 27 | 61 | 26 | 61 | 26 | 58 | 25 | 31 | : 11 | . 14 | g | 14 | g |
| 5. 0 & M Equipment | 1, 833 | 203 | 2, 036 | | Ö | 0 | 395 | 44 | | 40 | 374 | 41 | 367 | 41 | 338 | 38 | 0 | ø |
| Land Acquisition | 0 | 426 | 426 | | 0 | III | 0 | 103 | 0 | 107 | 0 | 105 | G | 6 | 0 | 0 | | 0 |
| 7. Administration | 0 | 1, 965 | 1, 966 | | 0 | 393 | 0 | 410 | : 0 | 410 | 0 | 295 | 0 | 295 | 0 | 18 | 0 | 81 |
| 8. Consulting services | 7, 819 | 1, 956 | 9, 775 | | 1, 624 | 406 | 1, 564 | 391 | 1, 564 | 391 1 | 1, 564 | 391 | 782 | 196 | 361 | 06 | | 99 |
| Sub Total (1-8) | 31, 304 | 26, 198 | 57, 502 | | 2, 315 | 1,402 | 7, 915 | 6, 927 | 8, 597 5, | 776 7 | 7, 179 - B. | 6, 131 5, | 5, 963 - 5 | 438 | 161 | 301 | 446 | 225 |
| 9. Phisical Contingency | 1, 565 | L, 310 | 2, 875 | | 116 | 2 | 396 | 346 | 335 | 289 | 359 | 307 | 298 | 272 | 40 | 监 | | Ц |
| Total | 32, 869 | 27, 508 | 60, 377 | : | 2.430 | 1, 472 | 8, 311 | 7, 273 | 7, 032 - 6, | 064 7 | 538 6, | 437 6, 3 | 261 | 5 710 | \$31 | 316 | 459 | 236 |
| 10. Valu Added Tax | | 5, 799 | 5, 799 | | 0 | 340 | 0 | 1, 507 | 0 1, | 258 | 0 | 358 | 0 | 153 | 0 | 107 | | 62 |
| 11. Price Escalation | 0 | 13, 472 | 13, 472 | | 0 | 301 | • | 2, 280 | 0 2. | 640 | 0,3, | 658 | 0 | 036 | ėj L | 301 | 0 | 254 |
| Grand Total | 32, 869 46 | 46, 779 | 79, 648 | | 2,430 | 2, 113 | 8, 311 | 11.061 | 7, 032, 9, | 9, 962 7 | 7, 538-11, | 11.453 6 | 6,261 10 | 10, 914 | 831 | 724 | 463 | 553. |

| | FOR LA | LAND | DEVE | DEVELOPMENT PROJECTS | T PR(| OJE(| CTS | | | ÷ | • | . : ² | | | : | [Unit: | [Unit: Willion Rp.] | Rp.] |
|-------------------------------|------------------|--------|---------|----------------------|-------------|-------------|----------|--------|---------|-------|--------------------------|------------------|---------|------------|-------|--------|---------------------|-----------|
| lten | Total cost | cost | | 1993 | 1994 | | 1995 | | 1996 | | 1997 | | 1998 | | 19 | 1999 | 200 | |
| | F/C | L/C | Total | F/C L/C | F/C L/C | | F/C L | 0/1 | F/C 1/C | 2 | F/C | D/T | F/C L/C | 1/C | F/C | 1/0 | F/C L | D/T |
| 1. Preparatory Works | 119 | 62 | 198 | | 48 : | 32 | 24 | 16 | - 24 | 16 | 18 | 12 | | 4 | 6 | 0 | 0 | - |
| 2. Civil Works | | | | | 0 | 0 | 0 | 0 | 0 | Ð | 0 | 0 | 0 | ċ | 0 | 0 | 0 | 0 |
| 2.1 Land Development | 1, 689 | 1, 690 | 3, 379 | | 0 | 0 | 676 | 675 | 253 | 254 | 422 | 423 | 338 | 338 | 0 | 0 | 0 | 0 |
| 2.2 Intake & Canal Structure | 1, 751 | 1, 750 | 3, 501 | | : 0 | 0 | 700 | 700 | 263 | 263 | 438 | 438 | 350 | 350 | 0 | o | 0 | 0 |
| 3. Training & Demonstration | 11 | 64 | 75 | | ° ~1 | 13 | ≈ | 13 | ~1 | 13 | ~1 | 13 | ~ | 13 | 0 | 0 | Б | 0 |
| 4. Institutional Strenghening | 23 | 10 | 33 | | . 6 | (77 | യ | es. | 9 | ന | m _ | 2 | ŝ | 2 2 | Ċ | 0 | 0 | ò |
| 5. 0 & M Equipment | 141 | 13 | 156 | | 0 | | 56 | 9 | 21 | 17 | 35 | 4 | 28 | 6 7 | Ð | 0 | 0 | 0 |
| 5. Land Acquisition | | 33 | 33 | | 0 | E H | C | വ | 0 | 60 | 0 | | c | 0 | 0 | 0 | 0 | 0 |
| 7. Administration | | 344 | 344 | | 0 | 69 | 0 | 86 | G | 36 | 0 | 52 | 0 | 52 | 0 | 0 | 0 | 0 |
| 8. Consulting services | 600 | 151 | 751 | | 180 | 45 | 120 | 0E | 120 | 30 | 120 | 30 | 60 | 15 | 0 | 0 | 0 | 0 |
| Sub Total (1-8) | . 4 , 334 | 4, 136 | 8,470 | | 237 | 175 | 1, 584 | 1, 534 | 689 | 574 1 | , 039 | 378 | 788 | 3776 | 0 | 0 | 0 | 0 |
| 9. Phisical Contingency | 216 | 207 | 423 | | 12 | က | 79 | 11 | 34 | | 52 | 49 | 33 | 36 | 0 | 0 | 0 | 0 |
| Total | 4, 550 | 4, 343 | 8, 893 | | 249 | 183 | 1, 663 | 1, 611 | 723 | 707 | | 1.027 | 827 | 815 | 0 | 0 | 0 | 0 |
| 10. Valu Added Tax | | 852 | 852 | | 0 | 35 | | 318 | | 134 | | 205 | | 159 | | 0 | | 0 |
| 11. Price Escalation | 0 | 1, 931 | 1, 391 | | o | 36 | 0 | 501 | 0 | 303 | 0 | 219 | 0 | 571 | 0 | Ð | 0 | 0 |
| Grand Total | 4, 550 | 7, 186 | 11, 736 | | 249 | 255 | 1, 663 | 2, 430 | 723 1, | 144 1 | 723 1, 144 1, 091 1, 812 | , 812 | 827 | 1, 545 | 0 | 0 | 0 | 0 |

Table VIII-11 ANNUAL DISBURSEMENT SCHEDULE OF FINANCIAL COST FOR LAND DEVIELOPMENT PROJECTS

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Price index(1992 =100) 1.000 1.080 1.000 1.000 1.000 1.1 Remarks; IUS\$=Rp2,000=¥129.0

1.000 1.080 1.000 1.166 1.000 1.260 1.000 1.360 1.000 1.469 1.000 1.587 1.000 1.714 1.000 1.851

Table VIII-12 ANNUAL DISBURSEMENT SCHEDULE OF FINANCIAL COST FOR VI PROJECTS

[Unit; Million Rp.]

| Item | Total | cost | | 1993 | <u>п</u> | 1994 | | 1995 | | 1996 | | 1997 | | 1998 | | 1999 | | 2000 | |
|--|---------|---------|---------|------|----------|----------|-------------|--------|--------|-----------|-----------|--------------------|-----------|-----------|--------|------------|-----|-------|-----|
| | F/C | 1/C | Total | F/C | 1/C | F/C | ç | F/C | L/C | F/C L | L/C F | F/C L/ | L/C F | F/C 1 | 1/1 | F/C | 2 | 1 2/3 | 1/C |
| 1. Preparatory Works | 1, 431 | 954 | 2, 385 | | | 572 | 382 | 215 | 143 | 215 | 143 | 215 | 143 | 72 | 48 . | 72 | 48 | 72 | 48 |
| 2. Civil Works | | | | | | 0 | D | 0 | e | 0 | 0 | 0 | | | 0 | 0 | c | 0 | o |
| 2.1 Land Development | 1. 317 | 1. 317 | 2, 634 | | | c | Ð | | | | | | | | 263 | C D | 0 | 0 | Ç |
| 2.2 Intake & Canal Structure | 14, 902 | 14, 902 | 29,804 | | | 0 | 0 | 3 726 | 3. 726 | 3, 726 3, | 3. 726 3. | 3, 726 3, | 3, 726 3, | 3, 726 3, | 3, 726 | 0 | 0 | 0 | C |
| 3. Training & Demonstration | 134 | 763 | 897 | | | 5 | 38 | | | | | | | | 15.3 | 1 | 38 | ය | 0 |
| 4. Institutional Strenghening | 275 | 118 | 393. | | | 10 | 24 | | | | | 55 | | | 12 | 14 | co | 14 | g |
| 5. 0 & M Equipment | 1, 692 | 188 | 1, 880 | | | 0 | Ð | | | | | | | | 38 | 338 | 38 | 0 | Ē |
| 6. Land Acquisition | | 393 | 393 | | | 0 | <u> </u> 88 | Ö | 98 | | | | 38 | o | 0 | 0 | 0 | ۰. | 0 |
| 7. Administration | · | 1, 622 | 1. 622 | | | 0 | 324 | 6 | 324 | 0 | | | | Ö | 243 | 0 | 81 | 0 | 81 |
| 8. Consulting services | 7, 219 | 1, 805 | 9,024 | | | 1, 444 | 361 | 1.444 | 361 | 1. 444 | 361 1. | | | • | 181 | 361 | 8 | 361 | 60 |
| Sub Total (1-8) | 26,970 | 22, 062 | 49, 032 | | | 2,078 1 | , 227 | 6, 331 | 5, 393 | 6, 008 5, | 102 6, | 6, 140 5, | 5, 152 5, | 5,175 4 | 4, 662 | 161 | 301 | 446 | 225 |
| Phisical Contingency | 1, 349 | 1,103 | 2, 452 | - | | 104 | 19 | 317 | 012 | | | | | | 233 | 40 | 5 | 22 | 11 |
| Total | 28, 319 | 23, 165 | 51,484 | • | | 2, 182 1 | 288 | 6 647 | 5, 662 | 6, 309 5, | | 6, 447 5, | | 5,434 4, | , 895 | 831 | 316 | 469 | 236 |
| 10. Valu Added Tax | •, | 4, 947 | 4, 947 | | | • | 305 | | 1, 189 | म्म | 124 | ŗ. | 1, 152 | | 1.009 | | 107 | | 62 |
| 11. Price Escalation | C | 11, 481 | 11, 481 | | | | 265 | 0 | 1, 779 | 0 2, | 336 | ຕິ ດີ | 080 | 3 | 465 | 0 | 301 | 0 | 254 |
| Grand Total | 28, 319 | 39, 593 | 67.912 | | | 2, 182 | 1, 858 | 6, 647 | 8, 631 | 6, 309 8, | 818 6, | 447 ⁹ , | 641 | 5, 434 9 | 9, 359 | 831 | 724 | 469 | 353 |
| | | | | | | | | | | | | | | | | | | | |

1.000 1.080 1.000 1.166 1.000 1.260 1.000 1.360 1.000 1.463 1.000 1.587 1.000 1.714 1.000 1.851

Price index(1992 =100) Remarks; 1US\$=Rp2,000=¥129.0

APPENDIX-IX

PROJECT EVALUATION

APPENDIX-IX PROJECT EVALUATION

1. INTRODUCTION

This appendix presents the study results of project evaluation. The value of the Project was assessed mainly in terms of economic efficiency of investment on both individual schemes and the overall project package. Financial analysis will assess the impacts on budget of farmers or village community. Indirect and intangible effects are supportingly analyzed in the study.

The appendix consists of three distinct chapters of evaluation respectively for representative 30 schemes, every inventoried scheme, and the entire project package. Each includes both economic and financial analyses, although qualitative assessment is given only for the overall project package.

2. EVALUATION OF REPRESENTATIVE SCHEMES

In assessing representative 30 schemes of the project, traditional measures of the economic internal rate of return (EIRR) and the benefit cost ratio (B/C) were calculated for evaluating economic efficiency, while budget impact on typical size farms was analyzed for estimating financial viability.

2.1 ECONOMIC EVALUATION

2.1.1 Assumptions

The analysis of economic viability of the Project applies the traditional method of project evaluation that follows partial equilibrium framework. The calculation of EIRRs and B/Cs was made on the basis of the following assumptions.

- The economic useful life of every individual scheme is 30 years.
- (2) All prices are given as those of 1992 constant price.
- (3) An exchange rate of Rp.2,000=US\$ 1.0 is used.
- (4) Transfer payments such as contract tax, duty, value added tax and subsidy are excluded in valuing the project costs and benefits.
- (5) All the goods and services are expressed in "efficiency price" which represents resource endowment of the economy.

Traded component is given in import/export parity price while non-traded component is adjusted the distortion by multiplying Conversion Factors(CFs).

- (6) The following CFs are used for converting construction cost(World Bank 1990):
 - i) Designs of irrigation works, land clearance and development, agricultural extension and preparation for O&M --- 1.0
 - ii) Construction of irrigation civil works, land development and annual O&M - 0.9
 - iii) All other goods (Standard Conversion Factor) --- 0.8
- (7) Unskilled labor is priced at 65% of actual rate for Lombok Island of West Nusa Tenggara and at 80% in North Sumatra, South Sulawesi and Sumbawa Island of West Nusa Tenggara.
- (8) In evaluating individual irrigation schemes, only the tangible direct benefit to be accrued from increased agricultural products was counted. Indirect and intangible benefits will be discussed in overall project assessment given in Chapter IV.

2.1.2 Pricing of Agricultural Commodities

Agricultural products which are to be affected by the soybeans, groundnuts, mungbeans and project include paddy, Paddy is the first and foremost crop in the project and others. most of the benefit will accrue from its production increase. In this assessment, the economic prices of traded commodities were derived from the projection of world price in World Bank Adjustment of processing, transportation, handling and 1992. other charges were made for border prices to represent prices at farm-gate level. The palawija crops are represented by the one with the largest harvest area for each of three provinces, i.e., by soybeans for North Sumatra and West Nusa Tenggara and by groundnuts for South Sulawesi for simplicity. Supply demand balance and representative value years are set as follows:

(1) Supply demand balance

Whether the economic price is given in import parity price or export parity price must be based on future forecast of food balance. In this analysis, it was assumed rice and groundnuts are of self-sufficient and soybeans are of import substitute. The assumption is made considering the trade statistics of recent years as shown below and the food balance forecast of the

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Ministry of Agriculture (World Bank 1991 pp.46). The economic prices are consequently valued as <u>averages of import and export</u> <u>parity bases for paddy/rice and groundnuts and as an import</u> <u>parity base for soybeans</u>. As for agricultural inputs, urea is valued as export parity price and TSP and KCL as import parity price.

| and the second | <u> </u> | | | | auto ub t | ,000 |
|--|--------------------------------------|------------------------|-----------------------|-----------------|-------------------------|-----------------------|
| Year | | 1986 | 1987 | 1988 | 1989 | 1990 |
| Rice Soybean Groundnut | Export Import Import Import | 206 28 359 34 | 50 71 287 46 | 54 465 28 | 105 277 390 14 | 2 111 541 50 |

Traded Amount of Rice, Soybeans and Groundnuts Unit:Rp.1,000

Source: Ministry of Agriculture, Statistik Pertanian 1990

(2) Representative value-year

The criteria currently used by the Planning Department of the Ministry of Public Works favor valuing project commodities at the year when the project benefits are fully attained. Using a forecast price, however, brings a speculative aspect in project evaluation. Note for example the IBRD rice price forecast for the year 2000 fluctuated from \$213/ton in January 1988 to \$166/ton in October of the same year (\$197/ton in the latest forecast in February 1992). Using the price at the same year may cause mal-estimates because the years of full accruement of benefit vary by individual schemes according to the difference of implementation years. In this assessment, therefore, the average of forecast price for years from 1993 to 2005 is used.

Tables IX-1 to IX-12 depict the derivation of economic prices for both agricultural products and inputs for the three provinces. Those for each of 30 representative schemes are estimated by differentiating the prices with the distance from provincial capital. The prices used for each schemes are shown in Tables IX-13 to IX-16.

2.1.3 Economic Benefits

The tangible direct benefits will accrue from increased agricultural production which is attributable to an improvement of irrigation water supply and farm input application. Benefits are estimated as the difference of annual net revenues in economic price under future with and without project conditions.

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The annual net revenues were calculated from value of products and the production costs which can be derived from unit yield and applied input amount. Crop budget of paddy per ha for each representative scheme is given in Table IX-17 and that of palawija crop is in IX-18. Annual incremental benefits in terms of economic value for representative schemes are calculated as shown in Table IX-19.

The irrigation benefits are assumed to reach the expected level by the third year after facility development. 50% and 75% of yearly benefit are assumed to accrue in the first and second years, respectively.

2.1.4 Economic Costs

The financial cost estimates given in Appendix-VIII were converted to economic costs by using aforementioned CFs. The cost for land acquisition/crop compensation is excluded since it has already counted in the with-without difference of production value. The costs are divided into those to occur in the first year of implementation and those in the second year as summarized in Table IX-20. Costs for operation and maintenance are converted in the same way as initial project cost.

2.1.5 Evaluation Results

Under the pricing and cost assumptions detailed above in the text, economic cost and benefit flows are made as shown in Table IX-21. The EIRRs and B/Ss generated by the 30 representative schemes are tabulated in Table IX-22. These indices range between 11.0% and 35.2% and between 1.09 and 3.59, respectively, with cost weighted averages of 20.5% and 1.99.

All of the EIRRs pass the test of the ten percent opportunity cost of capital figure commonly applied when evaluating projects. No notable difference was observed in EIRRs by project type groups.

2.2 Farm Budget Analysis

In assessing a project, budgetary and financial impacts on economic bodies involved in it are to be analyzed. The bodies affected by the project will include individual farms, farmers' organizations and the project executing agency. In the case of this project, the cost of initial investment will be burdened by the government expect for the potion of farmers' participation

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which is estimated at about 14% of direct construction cost. The budgetary expense is regarded as a subsidy by farmers or farmers' organization. Since most of the benefits attributed to a production increase will be reserved by farmers, obviously the project will bring a favorable impact on farm budget and thus on management of farmers' organization. In this section, farm incomes of the future with-project condition and the existing without-project condition are discussed.

The "farm model" set for each province in this analysis is that with a average size of all the representative schemes inclusive in the province. These models are, however, not a "representative" farm in the schemes or the provinces because the farm type varies much by regions and even within a scheme. model with relatively larger Another farm was designed additionally referring an analysis made for the Small Scale Irrigation Improvement Project (Erickson 1991). The analysis thus gives a showcase of the farm income impact rather than a The farming cost used are based on the crop budgets typical one. given in Tables IX-23 and 24. The table below summarizes the farm income analysis and shows an incremental income generated by the project. The details of annual farm budgets are given in Table IX-25.

| | | Existing | Future | Incremental |
|-----------------|------------------------|--|--|--|
| | | Without Project | With Project | Gain |
| Average Size | SUMUT SULSEL NTB | Rp.381,000 Rp.476,000 Rp.371,000 | Rp.575,000 Rp.743,000 Rp.489,000 | Rp.194,000 Rp.267,000 Rp.118,000 |
| Larger Size | SUMUT SULSEL NTB | Rp.923,000 Rp.963,000 Rp.1,118,000 | Rp.1,509,000 Rp.1,383,000 Rp.1,598,000 | Rp.586,000 Rp.420,000 Rp.481,000 |

Estimated Net Farm Income

The term "net farm income" above does not include income of the non-farm sources, although a farm labor income of ten days is included for the average size small farm. Thus, this may understate real family income. Without any of non-farm income, income of average size farm is much less than the minimum consumption expenditure at Rp.720,000 per family under the guidelines of the Ministry of Public Works(PSA 001, 1985). These small farmers will be well bettered off from the project, although the income will still be under the guideline's minimum for two of the three models. Since the project schemes are generally dominated by small holders the project will benefit the poors, which shows an effect of this project in terms of "poverty alleviation."

The envisioned income increase is expected to cover the increase in operation and maintenance cost burdened by farmers. An increase of Rp.10,000/ha of O&M cost estimated in Appendix-VII is well less than a third of the above income increase estimates.

3. EVALUATION OF ALL SCHEMES INVENTORIED

3.1 Objective and Methodology

Following the result of the project evaluation for 30 representative schemes, this chapter gives an estimation of B/Cs at 10% discount rate for all the inventoried schemes. Present and future crop production and project cost estimates presented in Appendices VI and VIII, respectively, are the basis of evaluation. As discussed in Chapter VI of the Main Report, estimated B/Cs will be used in scoring all schemes for prioritization.

Estimation of B/Cs are made through the following procedure under the assumptions given in 2-1-1.

- (1) Financial project cost was converted to economic cost in the same method used for 30 schemes
- (2) Economic benefit to accrue annually was estimated as the difference in net production revenues in economic price between under with-project and without-project conditions. Economic commodity prices were differentiated only by provinces not by individual schemes.
- (3) The ratio of annual incremental benefit over initial project cost is calculated.
- (4) An estimate of B/C for each scheme is obtained using a linear correlation formula between B/Cs and annual benefitinitial cost ratio estimated from those of 30 representative schemes.

The rationale of estimating B/Cs with a correlation model can be explained as follows:

B/C is calculated by the formula;

$$B/C = \sum_{t=0}^{u} B_{t} (1+r)^{-t} \div \sum_{t=0}^{u} C_{t} (1+r)^{-t}$$

Where, B_t and C_t are benefit and cost at year t, r is the discount rate and u is the economic useful life.

Now, under the condition that the cost occurs at once and annual benefit accrue at the same value amount, then

$$\frac{u}{\int_{0}^{B_{t}e^{-rt}dt}} = \frac{B_{t}(r^{-1}e^{-ru}+r^{-1})}{C_{s}(1+r)^{-s}} = \frac{B_{s}}{C_{s}} \times \frac{(1+e^{-ru})r^{-1}}{(1+r)^{-s}}$$

Where, e is the natural logarithmic base and s is the year of cost accruement, $B_t = B_s$ (constant).

Since the second part of the right hand side is a constant term, B/C is expressed by a linear formula of Bs/Cs. In the case of land development and village irrigation schemes, the construction of each scheme will be finished within a year, although some preparation works have to be made in the previous year. Benefits are assumed to accrue at the same amount after the third year. Thus, the assumption of linear correlation can almost be true.

The correlation equation estimated with the least square method is:

Y = -0.03678 + 7.98329X

r=0.996, F=3304.2, df=26

Standard deviation of X coefficient=0.139 where, Y is B/C and X is (annual benefit)/(initial cost)

The coefficient of correlation at 0.996 proves the strong correlation. The scattergram of correlation is drawn as Fig. IX-1. Note that two pump irrigation schemes were excluded because the initial costs are relatively low and operation and replacement costs are higher in pump irrigation. The ratio of annual benefit over initial cost is thus larger than other schemes with the same B/C. The upward bias in B/C estimates will result from using the same equation for pump irrigation. B/C was calculated based on the cost benefit flow for each pump irrigation scheme. There are in total 17 pump irrigation schemes in the inventory list.

3.2 Results of B/C Estimation

The results of B/C estimation by the aforementioned method are shown in Table IX-26 and IX-27, and summarized as below. The histograms of B/C distribution are depicted in Fig. IX-1 to IX-3. The result shows that 70.5% of schemes clear the criteria of $B/C \ge 1.0$ at 10% discount rate.

| B/C<1.0 | 1.0≤B/C<1.5 | 1.5≤B/C<2.0 | B/C≥2.0 |
|---------|-------------|------------------|-------------|
| 10 | 14 | 8 | 12 |
| ı 203 - | 294 | 116 | 120 |
| 213 | 308 | 124 | 132 |
| | 10 203 | 10 14 203 294 | 203 294 116 |

Distribution of B/Cs

Note: 18 land development schemes of which development area is less than 25 ha were excluded in B/C estimation.

4. EVALUATION OF ENTIRE PROJECT PACKAGE

4.1 Economic Evaluation

4.1.1 Methodology

Evaluation of the entire project package is made dealing the 340 schemes recommended to be implemented as one project. The same assumptions in the section 2.2.1 are applied again and the total of benefits of all schemes estimated in Chapter III is used for that of the project. The implementation schedule given in Chapter VII of the Main Report is followed in making cost benefit flow of the project. The project costs after conversion to economic price in each year are given in Table IX-28. Each scheme will bring the benefit after its completion and full benefit is assumed to be obtained from the third year after two years of the "build-up period." Evaluation is made for land development scheme package and village irrigation scheme package and for overall package.

4.1.2 Economic Evaluation Results

Cost benefit stream tables are made as shown in Tables IX-29 to IX-31 under the assumption mentioned above. The project is expected to generate economic internal rates of return(EIRRs) of 12.0%, 17.2% and 16.5% for the land development scheme, the village irrigation scheme and overall project, respectively. At a 10 percent opportunity cost of capital, the project yields net present values(NPVs) of Rp. 1.0 billion from the land development scheme. B/Cs at the same discount rate are estimated respectively at 1.16 and 1.62 and for overall project at 1.55.

All the EIRRs pass the test of the 10 percent cost of capital figure that is commonly applied in evaluating projects.

4.1.3 Sensitivity Analysis

Sensitivity of project profitability is analyzed for the cases of cost increase and benefit decrease. 10 percent and 20 percent changes are assumed and the EIRRs are calculated as follows:

| Increase | Decrea | se in Be | nefit |
|----------|--------|----------|-------|
| in Cost | 0% | 10% | 20% |
| 0% | 16.5% | 14.8% | 13.0% |
| 10% | 14.98 | 13.3응 | 11.6% |
| 20% | 13.6% | 12.1응 | 10.5% |

The project still generates more than 10 percent of EIRR even in the worst case of 20 percent cost increase and benefits decrease. It is concluded that the project is economically sound against the unforeseen changes of the economy.

4.2 Financial Aspects

The major economic units affected by the project implementation include individual farm, farmers' organizations and the project executing agency. The farm budget analysis in Section 2.2 shows that the project will well better off every farm. Since economic viability is the key factor in selecting schemes to be implemented, selected schemes are those with higher returns. Thus farm income is expected to be higher in selected schemes.

The farmers' organization will be responsible for operation and maintenance of the irrigation facilities with the service fees and labor dedication from farmers. The organizations, however, are not profit seeking bodies and then their budget stability highly depends on farmers' capacity to pay service fees. As discussed in the farm budget analysis, an increase in farm income can well exceed the additional payment for operation and maintenance. Thus the organization budget will keep a balance as far as they successfully collect charges from farmers. The activities of the organizations are described in detail at Appendix-VII.

government implemented a with be project will The development budget and no fees are collected from farmers or There is no use of having financial farmers' organization. budget analysis of the executing agency. All the project costs form a subsidy to farmers for improvement of their production The expense is already proved its high viability in facilities. terms of national economy, which at the same time means feasibility of the public investment.

4.3 Indirect and intangible Impacts

4.3.1 Indirect Benefits

In addition to the direct benefit of an increase in agricultural production, the project will induce an expansion of supporting industries. These forward and backward linkages include input suppliers, processing industry, marketing sector and construction contractors. The linkage effects were analyzed briefly since detailed analysis requires a complicated general equilibrium approach.

(1) Backward Linkage

The backward linkage is an inter-industrial effect of an increased demand in a certain sector. The project investments will mainly occur in the construction sector. The demand in the sector induces an expansion of other sectors whose products are used as inputs to production in the sector(Miller and Blair 1985). The "total" linkage effect can me measured by the "output multiplier" for each sector which is the sum of the elements in a column of the Leontief inverse matrix $(I-A)^{-1}$. The multiplier obtained from the most recent input-output table of Indonesia for the construction sector is 2.1545(Biro Pusat Statistik, Table Input-Output Indonesia 1985).

estimated at about Rp. 80 billion, the total indirect backward linkage effect is calculated as:

Rp.80,000,000 x 2.1545 _ Rp.172,000,000,000

(2) Foreword Linkage

The foreword linkage, on the other hand, is an effect of an increased output in one sector. The output increase to be generated by the project is that in agriculture sector, mostly an increased rice production. The additional amount of rice will generate the activity of the sectors which use rice as an input. The "total" foreword linkage effect can be measured by the "input multiplier" for each sector. This is obtained by summing up row of the Leontief inverse matrix (I-A)⁻¹. The multiplier of rice sector calculated from the same source is 2.9670, while that of "other food crop" is 2.0221. An increase of about 86,800 tons of paddy (59,000 tons in terms of polished rice) will result from the project. Using the recent market price of rice at Rp.500 per kg, the increase in value is about Rp. 29.5 billion. Then the foreword linkage is:

Rp.29,500,000,000 x 2.9670 _ Rp.87,526,500,000

(3) Employment Opportunity

The project will contribute to an increase of employment in the agriculture sector in the rural area. This can alleviate the "push" factor in the expansion of urban population. The indirect linkage effect discussed above also expand the employment opportunities in the related industries. The initial construction works have an employment impact in the area, though only that of short-run period.

4.3.2 Intangibles

Intangible benefits of the project may also be important factors for decision making of project implementation. The following are several of the intangibles.

(1) Poverty Alleviation

"Poverty alleviation" is one of the main objectives of the government policies in Indonesia. The farmers involved in the project are mostly in remote area and of small scale. The project thus will better off these poor farmers rather than the

riches. Higher incomes and consumption levels will imply better diets and health for the project population.

(2) Institutional Building

The project includes an institutional training program for improved operation and maintenance. Farmers do benefit from the organizations such as Water User Association (P3A), extensionorganized Kolompok Tani, and local cooperative(KUD). These institutions would be strengthened through the project, which will bring enhanced community welfare. Farmers' participation to such institutions induces "consciousness" in farm management and local activities and then be a vehicle to sustainable regional development.

(3) Quality Improvement

It is expected that the quality of farm products will improve, though cannot be qualified. Crop damages are reduced through stable water supplies and maturing will be higher and more even. These will provide better marketability and higher prices for products from the project area.

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ECONOMIC PRICE DERIVATION FOR PADDY IN NORTH SUMATRA PROVINCE Table IX-1

(in constant 1992 prices)

15 250 242 484 24 24 10 450 450 20 280 280 152.86 2005 269 5 5 \circ 15 285 2000 271 542 27 27 10 20 20 20 20 485 315 1. Price Prospects for Major Primary Commodities, 1990-2005, The World Bank, February 1992. MUV index(1985=100) for 1992 is 301 ñ 80 \circ Export Parity 300 435 15 1995 272 490 24 10 455 20 5 5 245 Average 1993-2005 = 427 15 248 268 278 1994 482 24 10 **4**47 5 27 0 241 3. Differentiated by provinces: North Sumatra \$30/ton; South Selawesi \$35/ton; West Nusa Tenggara \$45/ton 15 430 269 484 1993 24 10 450 20 27 0 55 5 2. DGWRD, Guidelines for Studies for Water Resources Projects, Ministry of Public Works, 1985. Ił 292 15 335 2005 269 27 272 544 27 õ 20 561 365 8 581 330 37.4 20 10 20 20 30 642 622 5 2000 301 30 5 Import Parity 296 1995 30 550 27 27 587 587 567 369 339 272 20 5 51 290 30 542 579 579 559 333 994 268 50 15 57 292 15 1993 269 30 544 27 27 27 27 27 581 20 561 365 5 5 US\$/ton US\$/ton US\$/ton **USS/ton** Exchange rate, Rp. 1.0=US\$ 2,000. Rp./kg Average of Import/Export parity prices Rp./kg Year Cost of port handling, storage and losses ransport: port to wholesaler Transport: mill to wholesaler Border price, bagged milled Export price of milled rice, Quality adjustment of 10% 5% broken, FOB Bangkok Economic farm gate price Price at wholesale market Milling cost less value of rice, CIF/FOB Belawan Transport: farm to mill reight and insurance Conversion to paddy for Indonesian rice Ex-mill price by products Notes: 5 d ġ ----5 $\omega 4$ si si 8 9. ci

6. Differentiated by provinces: North Sumatra Rp.5/kg; South Selawesi Rp.10/kg; West Nusa Tenggara Rp.15/kg.

5. Costs for port handling, storage and losses assumed to be 5% of border value.

8. Inland transport price of Rp.100/ton/km, a distance of 200 km used here.

10. Conversion rate assumed to be 65%

| | | | Ü | (in constant 1992 prices) | t 1992 pr | ices) | | · · · . * | | | | | |
|--|---------------|-----------------|------------|---------------------------|---------------|----------|-----------|-----------|---------------------|-----------|---------------|----------------------|--------|
| | | | | In | Import Parity | ity | | | 5. T | | Export Parity | nity | |
| | Year | : | 1993 | 1994 | 1995 | 2000 | 2005 | ₿ - | 1993 | 1994 | 1995 | 2000 | 2005 |
| Export price of milled rice, 5% broken FOB Banøkok | US\$/ton | | 269 | 268 | 272 | 301 | 269 | | 269 | 268 | 272 | 301 | 269 |
| 2. Quality adjustment of 10% for Indonesian rice | US\$/ton | r | 27 | 27 | 27 | 30 | 27 | F | 27 | 27 | 27 | 30 | 27 |
| 3. Freight and insurance | US\$/ton | . + | 35 | 35 | 35 | 35 | 35 | + | 0 | 0 | 0 | 0 | 0 |
| 4. Border price, bagged milled | US\$/ton | 11 | 277 | 276 | 280 | 306 | 277 | H | 242 | 241 | 245 | 271 | 242 |
| rice, CIF/FOB Ujung Pandang | Rp./kg | H | 554 | 552 | 560 | 612 | 554 | H | 484 | 482 | 490 | 542 | 484 |
| 5. Cost of port handling, storage and losses Rp./kg | sset Rp./kg | ł | 28 | 28 | 28 | 31 | 28 | ı | 24 | 24 | 24 | 27 | 24 |
| 6. Transport: port to wholesaler | Rp./kg | + | Ś | S | Ω, | ŝ | 2 | ı | . | ŝ | ŝ | S | Υŋ |
| 7 Price at wholesale market | Rp./kg | 11 | 587 | 584 | 593 | 648 | 587 | 11 | 455 | 452 | 460 | 510 | 455 |
| 8. Transport: mill to wholesaler | Rp./kg | r | 15 | 15 | 15 | 15 | 15 | I | 15 | 15 | 15 | 15 | 15 |
| 9. Ex-mill price | Rp./kg | # | 572 | 569 | 578 | 633 | 572 | H | 440 | 437 | 445 | 495 | 440 |
| 10. Conversion to paddy | Rp./kg | ł | 372 | 370 | 376 | 4].] | 372 | H. | 286 | 284 | 289 | 322 | 286 |
| 11. Milling cost less value of | Rp./kg | ŀ | 15 | 15 | 15 | 15 | . 15 | ļ | 15 | 15 | 15 | 15 | 15 |
| by products | | | | | | | | | | | | | |
| 12. Transport: farm to mill | Rp./kg | ı | 15 | 15 | 15 | 15 | 15 | ۰. | 15 | 15 | 15 | 15 | 15 |
| 13. Economic farm gate price | Rp./kg | | 342 | 340 | 346 | 381 | 342 | 11 | 256 | 254 | 259 | 292 | 256 |
| Average of Import/Export parity prices Rp./kg | es Rp./kg | 1 | 299 | 297 | 302 | 336 | 299 | - Ave | Average 1993-2005 - | -2005 = | 307 | r | |
| Notes: 1. Price Prospects for Major Primary Commodities, 1990-2005, The World Bank, February 1992. MUV index(1985=100) for 1992 is | or Primary Co | mmodi | ties, 1990 | 0-2005, TP | ne World | Bank, Fe | bruary 19 | 92. N | AUV inde | :x(1985=1 | 100) for 19 | | 152.86 |

Table IX-2 ECONOMIC PRICE DERIVATION FOR PADDY IN SOUTH SULAWESI PROVINCE

 Differentiated by provinces: North Sumatra \$30/ton; South Selawesi \$35/ton; West Nusa Tenggara \$45/ton
 Exchange rate, Rp. 1.0=US\$ 2,000. 2. DGWRD, Guidelines for Studies for Water Resources Projects, Ministry of Public Works, 1985.

5. Costs for port handling, storage and losses assumed to be 5% of border value.

6. Differentiated by provinces: North Sumatra Rp.5/kg; South Selawesi Rp.10/kg; West Nusa Tenggara Rp.15/kg.

8. Inland transport price of Rp.100/ton/km, a distance of 150 km used here.

10. Conversion rate assumed to be 65%

ECONOMIC PRICE DERIVATION FOR PADDYIN WEST NUSA TENGGARA PROVINCE Table IX-3

(in constant 1992 prices)

152.86 ŝ **†**84 1. Price Prospects for Major Primary Commodities, 1990-2005, The World Bank, February 1992. MUV index(1985=100) for 1992 is Export Parity 253 \circ Average 1993-2005 = 15 248 15 3. Differentiated by provinces: North Sumatra \$30/ton; South Selawesi \$35/ton; West Nusa Tenggara \$45/ton 15 250 \circ 2. DGWRD, Guidelines for Studies for Water Resources Projects, Ministry of Public Works, 1985. łł 362 ŝ 632 Import Parity. 309-39.00 15 362 I ÷ Ħ US\$/ton US\$/ton USS/ton US\$/ton Rp./kg Rp./kg Rp./kg Rp./kg Exchange rate, Rp. 1.0=US\$ 2,000. Rp./kg Rp./kg Rp./kg Rp./kg Rp./kg Rp./kg Year Cost of port handling, storage and losses Average of Import/Export parity prices fransport: port to wholesaler **Fransport:** mill to wholesaler Border price, bagged milled Export price of milled rice. Quality adjustment of 10% 5% broken, FOB Bangkok Price at wholesale market Economic farm gate price Milling cost less value of rice, CIF/FOB Mataram Transport: farm to mill Freight and insurance Conversion to paddy or Indonesian rice Ex-mill price by products Notes: 13. Ö ä i ഗ് ઝં ð, ci

6. Differentiated by provinces: North Sumatra Rp.5/kg; South Selawesi Rp.10/kg; West Nusa Tenggara Rp.15/kg.

5. Costs for port handling, storage and losses assumed to be 5% of border value.

8. Inland transport price of Rp.100/ton/km, a distance of 150 km used here.

0. Conversion rate assumed to be 65%

Table IX-4

X-4 ECONOMIC PRICE DERIVATION FOR SOYBEANS IN NORTH SUMATRA PROVINCE (in constant 1992 prices)

| | V. | | | | mport Par | ity | |
|---|----------|-----|------|-----------|-----------|------|------|
| | Year | | 1993 | 1994 | 1995 | 2000 | 2005 |
| . Export price of soybeans US soybeans, CIF Rotterdam | US\$/ton | | 246 | 252 | 252 | 229 | 245 |
| Freight and insurance Border price, CIF main ports | US\$/ton | | 35 | 35 | 35 | 35 | 35 |
| | US\$/ton | = | 281 | 287 | 2.87 | 264 | 280 |
| . Cost of port handling, storage and lo | Rp./kg | Ξ | 562 | 574 | 574 | 529 | 559 |
| . Transport: port to wholesaler | | + | 28 | 29 | 29 | 26 | 28 |
| . Price at wholesale market | Rp./kg | + | 10 | 10 | 10 | 10 | 10 |
| | Rp./kg | = | 600 | 613 | 613 | 565 | 597 |
| | Rp./kg | - | 20 | 20 | 20 | 20 | 20 |
| e entre entre entre entre e cost | Rp./kg | - | 10 | 10 | 10 | 10 | .10 |
| . Local losses (2.5%) | Rp./kg | ÷ ' | 15 | 15 | 15 | 14 | 15 |
|). Economic farm gate price | Rp./kg | = | 555 | 568 | 568 | 521 | 552 |
| | | | A | verage 19 | 93-2005 | = | 553 |

Notes: 1. Price Prospects for Major Primary Commodities, 1990-2005, The World Bank, February 1991. MUV index(1985=100) for 1992 is 152.86

3. Exchange rate, Rp. 1.0=US\$ 2,000.

4. Costs for port handling, storage and losses assumed to be 5% of border value.

5. Differentiated by provinces: for North Sumatra assumed to be Rp.10/kg

7. Inland transport price of Rp.100/ton/km, a distance of 200km is used here.

Table IX-5ECONOMIC PRICE DERIVATION FOR SOYBEANS IN WEST NUSATENGGARA PROVINCE(in constant 1992 prices)

| | | | ~~~~~ | I | mport Pai | rity | · · · |
|---|----------|-----|-------|-----------|-----------|------|-------|
| | Year | +=- | 1993 | 1994 | 1995 | 2000 | 2005 |
| Export price of soybeans US soybeans, CIF Rotterdam | US\$/ton | | 246 | 252 | 252 | 229 | 245 |
| 2. Freight and insurance | US\$/ton | + | 35 | 35 | 35 | -35 | 35 |
| 3. Border price, CIF main ports | US\$/ton | = | 281 | 287 | 287 | 264 | 280 |
| | Rp./kg | = | 562 | 574 | 574 | 529 | 559 |
| 4. Cost of port handling, storage and losses | Rp./kg | + | 28 | 29 | -29 | 26 | 28 |
| 5. Transport: port to wholesaler | Rp./kg | + | 15 | 15 | 15 | 15 | 15 |
| 6. Price at wholesale market | Rp./kg | = | 605 | 618 | 618 | 570 | 602 |
| 7. Transport: farm to wholesaler | Rp./kg | - | 15 | 15 | 15 | 15 | 15 |
| 8. Collecting and handling cost | Rp./kg | - | 10 | 10 | 10 | 10 | 10 |
| 9. Local losses (2.5%) | Rp./kg | - | 15 | 15 | 15 | 14 | 15 |
| 0. Economic farm gate price | Rp./kg | ÷ | 565 | 578 | 578 | 531 | 562 |
| | | | A | verage 19 | 93-2005 | | 563 |

Notes: 1. Price Prospects for Major Primary Commodities, 1990-2005, The World Bank, February 1991. MUV index(1985=100) for 1992 is 152.86

3. Exchange rate, Rp. 1.0=US\$ 2,000.

4. Costs for port handling, storage and losses assumed to be 5% of border value.

5. Differentiated by province: West Nusa Tenggara assumed to be Rp.15/kg

7. Inland transport price of Rp.100/ton/km, a distance of 150km is used here.

ECONOMIC PRICE DERIVATION FOR GROUNDNUTS IN SOUTH SULAWESI PROVINCE WESI PROVINCE Table IX-6

(in constant 1992 prices)

| · · · · | Year - | 1993 | 1994 | 1995. | 2000 | 2005 | 1993 | 1994 | 1995 | 2000 | 224 |
|---|------------|------|-------------|--------|------|------|---------------------|-------------|-------------|---------------------------|--|
| 1 Export price of groundnut oil | US\$/ton | 625 | 611 | 647 | 581 | 442 | 625 | 611 | 647 | 581 | 442 |
| CIF Rotterdam | | | e 5 9 | - 1 | | 1 | | (() | • • • | ()) |). |
| 2. CIF/FOB Indonesia | US\$/ton = | 469 | 459 | 485 | 436 | 331 | = 434 | 424 | 450 | 401 | 296 |
| Shelled groudnuts | Rp./kg = | 938 | 617 | 970 | 871 | 663 | = 868 | 847. | 006 | 801 | 593 |
| 3. Cost of port handling, storage and losses Rp./kg | Rp./kg + | 47 | 46 | 48 | 44 | 33 | - 43 | 42 | 45 | 40 | 30 |
| 4. Transport: port to wholesaler | Rp./kg + | ŝ | ŝ | S. | S | ŝ | ۔ رک | ŝ | S. | Ś | S. |
| 5. Price at wholesale market | Rp./kg = | 066 | 968 | 1023 | 920 | 101 | = 819 | 800 | 850 | 756 | 558 |
| 6. Transport: farm to wholesaler | Rp./kg | 15 - | 15 | 15 | 15 | 15 | - 15 | 15 | 15 | 15 | 15 |
| 7. Collecting and handling cost | Rp./kg - | 10 | 01 | 10 | 10 | 10 | - 10 | 10 | 10 | 10 | 10 |
| 8. Local losses (2.5%) | Rp./kg - | 25 | 24 | 26 | 23 | 18 | - 20 | 20 | 21 | 19 | 14 |
| 9. Economic farm gate price | Rp./kg = | 940 | 616 | 973 | 872 | 658 | = 774 | 755 | 804 | 712 | 519 |
| Average of Import/Export parity prices | | 857 | 837 | 888 | 792 | 589 | Average 1993-2005 - | 3-2005 = | 793 | 1 | H - Aria 1 - Aria |

Costs for port handling, storage and losses assumed to be 5% of border value.
 Differentiated by provinces: North Sumatra Rp.10/kg; South Sulawesi Rp.5/kg, West Nusa Tenggara 15 Rp./kg.
 Inland transport price of Rp.100/ton/km, a distance of 150 km used here.

Table IX-7 ECONOMIC PRICE DERIVATION FOR UREA

| | | N | | | I | Sxport P | arity | . <u></u> | Average |
|----|---|----------|---|------|------|----------|-------|-----------|-----------|
| | | Year | | 1993 | 1994 | 1995 | 2000 | 2005 | 1993-2005 |
| 1. | World price of Urea FOB Northwestern Europe | US\$/ton | | 161 | 165 | 165 | 183 | 171 | |
| 2. | Price differential of Indonesian urea exports to Asian ports | US\$/ton | + | 15 | 15 | 15 | 15 | 15 | |
| 3. | Ex-factory, Palembang | US\$/ton | = | 176 | 180 | 180 | 198 | 186 | ÷ |
| | | Rp./kg | = | 351 | 360 | 360 | 397 | 372 | |
| | Transport to wholesaler | Rp./kg | + | 15 | 15 | 15 | 15 | 15 | |
| | Handling and storage | Rp./kg | + | 15 | 15 | 15 | 15 | 15 | |
| 6. | Distribution and transport to farm | Rp./kg | + | 20 | 20 | 20 | 20 | 20 | |
| 8. | Economic farm gate price | Rp./kg | = | 401 | 410 | 410 | 447 | 422 | 418 |

IN NORTH SUMATRA PROVINCE (in constant 1992 prices)

Notes: 1. Price Prospects for Major Primary Commodities, 1990-2005, The World Bank, February 1991. MUV index(1985=100) for 1992 is 152.86

3. Exchange rate, Rp. 1.0=US\$ 2,000.

4. Differentiated by provinces: North Sumatra Rp.15/kg;

South Sulawesi Rp.25/kg, West Nusa Tenggara 25 Rp./kg.

6. Cost of Rp.100/ton/km assumed, a distance of 200km is used here.

Table IX-8ECONOMIC PRICE DERIVATION FOR UREA IN SOUTH
SULAWESI AND WEST NUSA TENGGARA PROVINCE
(in constant 1992 prices)

| | | | | Į | Export Pa | arity | | Average |
|---|----------|---|------|------|-----------|-------|------|-----------|
| | Year | | 1993 | 1994 | 1995 | 2000 | 2005 | 1993-2005 |
| 1. World price of Urea FOB Northwestern Europe | US\$/ton | | 161 | 165 | 165 | 183 | 171 | |
| 2. Price differential of Indonesian urea exports to Asian ports | US\$/ton | + | 15 | 15 | 15 | 15 | 15 | |
| 3. Ex-factory, Palembang | US\$/ton | = | 176 | 180 | 180 | 198 | 186 | |
| | Rp./kg | = | .351 | 360 | 360 | 397 | 372 | |
| 4. Transport to wholesaler | Rp./kg | + | 25 | 25 | 25 | 25 | 25 | |
| 5. Handling and storage | Rp./kg | + | 15 | 15 | 15 | 15 | 15 | • |
| 6. Distribution and transport to farm | Rp./kg | ł | 15 | 15 | . 15 | 15 | 15 | |
| 8. Economic farm gate price | Rp./kg | = | 406 | 415 | 415 | 452 | 427 | 423 |

Notes: 1. Price Prospects for Major Primary Commodities, 1990-2005, The World Bank, February 1991. MUV index(1985=100) for 1992 is 152.86

3. Exchange rate, Rp. 1.0=US\$ 2,000.

4. Differentiated by provinces: North Sumatra Rp.20/kg;

- South Sulawesi Rp.25/kg, West Nusa Tenggara 25 Rp./kg.
- 6. Cost of Rp.100/ton/km assumed, a distance of 150km is used here.

| | | | • • | | : . Í | mport Pa | arity | | Average |
|----------|------------------------------------|----------|-----|------|-------|----------|-------|------|--|
| | | Year | | 1993 | 1994 | 1995 | 2000 | 2005 | 1993-2005 |
| 1. | World price of TSP FOB US.Gulf | US\$/ton | | 138 | 142 | 147 | 150 | 150 | |
| ż. | Freight and Insurance | US\$/ton | + | 55 | 55 | 55 | 55 | 55 | · . |
| 3 | CIF Indonesia | US\$/ton | == | 193 | 197 | 202 | 205 | 205 | · . |
| | | Rp./kg | · = | 385 | 394 | 403 | 410 | 410 | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |
| 4. | Transport to wholesaler | Rp./kg | ÷ | 15 | 15 | 15 | 15 | 15 | |
| ς. | | Rp./kg | + | 15 | 15 | 15 | 15 | 15 | |
| 5. 6. | Distribution and transport to farm | • • | + | 20 | 20 | 20 | 20 | 20 | : |
| 8. | Economic farm gate price | Rp./kg | = | 435 | 444 | 453 | 460 | 460 | 450 |

Table IX-9ECONOMIC PRICE DERIVATION FOR TSPIN NORTH SUMATRA PROVINCE (in constant 1992 prices)

Notes: 1. Price Prospects for Major Primary Commodities, 1990-2005, The World Bank, February 1991. MUV index(1985=100) for 1992 is 152.86

3. Exchange rate, Rp. 1.0=US\$ 2,000.

4. Differentiated by provinces: North Sumatra Rp.15/kg;

South Sulawesi Rp.25/kg, West Nusa Tenggara 25 Rp./kg.

6. Cost of Rp.100/ton/km assumed, a distance of 200km is used here.

Table IX-10 ECONOMIC PRICE DERIVATION FOR TSP IN SOUTH SULAWESI AND WEST NUSA TENGGARA PROVINCE

(in constant 1992 prices)

| : · · · · · · · · · · · · · · · · · · · | | | | 1 | mport Pa | arity | | Average |
|--|----------|------------|------|------|----------|-------|------|---------------------------------------|
| | Year | | 1993 | 1994 | 1995 | 2000 | 2005 | 1993-2005 |
| World price of TSP FOB US.Gulf | US\$/ton | : | 138 | 142 | 147 | 150 | 150 | · · · · · · · · · · · · · · · · · · · |
| | US\$/ton | + | 55 | 55 | 55 | 55 | 55 | |
| 3. CIF Indonesia | US\$/ton | = | 193 | 197 | 202 | 205 | 205 | |
| | Rp./kg | = . | 385 | 394 | 403 | 410 | 410 | |
| 4. Transport to wholesaler | Rp./kg | + | 25 | 25 | 25 | 25 | 25 | e po de la defe |
| 5. Handling and storage | Rp./kg | ·+ | 15 | 15 | 15 | 15 | 15 | |
| 6. Distribution and transport to farm | | + | 15 | -15 | 15 | 15 | 15 | |
| Economic farm gate price | Rp./kg | = | 440 | 449 | 458 | 465 | 465 | 455 |

Notes: 1. Price Prospects for Major Primary Commodities, 1990-2005, The World Bank,

February 1991. MUV index(1985=100) for 1992 is 152.86

3. Exchange rate, Rp. 1.0=US\$ 2,000.

4. Differentiated by provinces: North Sumatra Rp.15/kg;

South Sulawesi Rp.25/kg, West Nusa Tenggara 25 Rp./kg.

6. Cost of Rp.100/ton/km assumed, a distance of 150km is used here.

| | | ÷ . | _ | | I | mport Pa | arity | | Average |
|----|--|----------|---|------|------|----------|-------|------|-----------|
| | | Year | | 1993 | 1994 | 1995 | 2000 | 2005 | 1993-2005 |
| 1. | World price of KCL FOB Vancouver | US\$/ton | | 110 | 110 | 110 | 109 | 109 | |
| 2. | Freight and Insurance | US\$/ton | ≁ | 50 | 50 | 50 | 50 | 50 | |
| 5, | CIF Indonesia | US\$/ton | ÷ | 160 | 160 | 160 | 159 | 159 | |
| 4 | There are the state of the stat | Rp./kg | = | 320 | 320 | 320 | 317 | 317 | |
| | Transport to wholesaler | Rp./kg | + | 15 | 15 | 15 | 15 | 15 | |
| 5. | Handling and storage | Rp./kg | + | 15 | 15 | 15 | 15 | 15 | |
| 5. | Distribution and transport to farm | Rp./kg | + | 10 | 10 | 10 | 10 | 10 | |
| 3. | Economic farm gate price | Rp./kg | = | 360 | 360 | 360 | 357 | 357 | 359 |

Table IX-11 ECONOMIC PRICE DERIVATION FOR KCL IN NORTH SUMATRA PROVINCE (in constant 1992 prices)

Notes: 1. Price Prospects for Major Primary Commodities, 1990-2005, The World Bank, February 1991. MUV index(1985=100) for 1992 is 152.86

3. Exchange rate, Rp. 1.0=US\$ 2,000.

4. Differentiated by provinces: North Sumatra Rp.15/kg;

South Sulawesi Rp.25/kg, West Nusa Tenggara 25 Rp./kg.

6. Cost of Rp.50/ton/km assumed, a distance of 200km is used here.

Table IX-12 ECONOMIC PRICE DERIVATION FOR KCL IN SOUTH SULAWESI AND WEST NUSA TENGGARA PROVINCE (in constant 1992 prices)

| | | | | | Į | mport Pa | arity | | Average |
|----|-------------------------------------|----------|---|------|------|----------|-------|------|---------------------------------------|
| | | Year | _ | 1993 | 1994 | 1995 | 2000 | 2005 | 1993-2005 |
| 1. | World price of KCL FOB Vancouver | US\$/ton | | 110 | 110 | 110 | 109 | 109 | · · · · · · · · · · · · · · · · · · · |
| 2. | Freight and Insurance | US\$/ton | ÷ | 50 | 50 | 50 | 50 | 50 | |
| 3. | CIF Indonesia | US\$/ton | = | 160 | 160 | 160 | 159 | 159 | |
| | | Rp./kg | = | 320 | 320 | 320 | 317 | 317 | |
| 4 | Transport to wholesaler | Rp./kg | + | 25 | 25 | 25 | 25 | 25 | |
| 5. | Handling and storage | Rp./kg | + | 15 | 15 | 15 | 15 | 15 | |
| 6. | Distribution and transport to farm | Rp./kg | + | 8 | 8 | 8 | 8 | 8 | |
| 8. | Economic farm gate price | Rp./kg | - | 368 | 368 | 368 | 365 | 365 | 366 |

Notes: 1. Price Prospects for Major Primary Commodities, 1990-2005, The World Bank,

February 1991. MUV index(1985=100) for 1992 is 152.86

3. Exchange rate, Rp. 1.0=US\$ 2,000.

4. Differentiated by provinces: North Sumatra Rp.15/kg;

South Sulawesi Rp.25/kg, West Nusa Tenggara 25 Rp./kg.

6. Cost of Rp.50/ton/km assumed, a distance of 150km is used here.

| No. | | | | | | | | Jnit: Rp./kg |
|------|-----------------------------|----------|------|------|------|-----------------|--------------|--------------|
| | Code Name of F/S Scheme | Distance | 1993 | 1994 | 1995 | 2000 | 2005 | 1993-2005 |
| NORT | ГН SUMATRA | | | | | | | Average |
| 1 | 60011 Sumbari | 109 | 298 | 296 | 302 | 336 | 298 | 306 |
| 2 | 60038 Rauning B | 500 | 273 | 271 | 276 | 310 | 273 | 281 |
| 3 | 50025 Sumbul Berampu | 160 | 295 | 293 | 298 | 332 | 295 | 303 |
| 4 | 50057 Sidomukti | 35 | 303 | 301 | 307 | 341 | 303 | 311 |
| 5 | 50091 Ack Palia/Tegal Legok | 234 | 290 | 288 | 294 | 328 | 290 | 298 |
| | 50129 Pangambatan (B) | 375 | 281 | 279 | 284 | 318 | 281 | 289 |
| | 50141 Aek Siparbue | 216 | 291 | 289 | 295 | 329 | 291 | 299 |
| | 50218 Kutamale | 97 | 299 | 297 | 303 | 336 | 299 | 307 |
| 9 | 50240 Asahan VIII Pengajian | 168 | 294 | 293 | 298 | 332 | 294 | 302 |
| 10 | 50256 Aek Sihim | 474 | 274 | 273 | 278 | 312 | 274 | 282 |
| SOUT | HSULAWESI | | | | | • • • • • • • • | | |
| ĺ. | 20003 Kalu | 141 | 299 | 298 | 303 | 337 | 299 | 307 |
| 2 | 10055 Pajjenge | 116 | 301 | 299 | 305 | 339 | 301 | 309 |
| 3 | 10099 Kadieng | 202 | 296 | 294 | 299 | 333 | 296 | 303 |
| 4 | 10115 Kaindi | 242 | 293 | 291 | 297 | 330 | 293 | 301 |
| 5 | 10140 Lembong Bata | 78 | 304 | 302 | 307 | 341 | 304 | 311 |
| 6 | 10168 Panrita | 152 | 299 | 297 | 302 | 336 | 299 | 307 |
| 7 | 10182 Mario I-II-III | 83 | 303 | 301 | 307 | 341 | 303 | 311 |
| 8 | 10201 Pakelli II | 203 | 295 | 294 | 299 | 333 | 295 | 303 |
| | 10227 Limpua/Padaelo | 210 | 295 | 293 | 299 | 333 | 295 | 303 |
| 10 | 10287 Malimbu | 433 | 281 | 279 | 284 | 318 | 281 | 288 |
| 11 | 10332 Salu A'kung | 337 | 287 | 285 | 290 | 324 | 287 | 295 |
| 12 | 10354 S. Mariri | 296 | 289 | 288 | 293 | 327 | 289 | 297 |
| ŴĒŠŦ | NUSA TENGGARA | | | | | | انو بر رو | |
| 1 | 45010 Danar Jengkang | - 58 | 312 | 310 | 315 | 349 | 312 | 320 |
| | 32013 Mada Manini | .438 | 287 | 285 | 291 | 325 | 287 | 295 |
| | 33050 Uma Lebang | 350 | 293 | 291 | 296 | 330 | 293 | 301 |
| | 34004 Lokok Tripas | 80 | 310 | 308 | 314 | 348 | 310 | 318 |
| | 35035 Lengkok Dudu | 56 | 312 | 310 | 315 | 349 | 312 | 320 |
| | 35045 Kelokos Udang | 42 | 313 | 311 | 316 | 350 | 313 | 321 |
| | 36016 Raba Sangga | 450 | 286 | 284 | 290 | 324 | 286 | 294 |
| | 37003 Montong Sapah/Puri | 56 | 312 | 310 | 315 | 349 | 312 | 320 |

Table IX-13 ECONOMIC FARMGATE PRICE FOR PADDY IN REPRESENTATIVE SCHEMES

Note: "Distance" is that from provincial capital cited from the inventory survey result.

| | | | | | | Unit: Rp./kg | | |
|-----|-----------------------------|---------------------------------------|---------|------|----------|--------------|---------------------------------------|---------------------------------------|
| No. | Code Name of F/S Scheme | Distance(km) | 1993 | 1994 | 1995 | 2000 | 2005 | Average |
| NOF | RTH SUMATRA | · · · · · · · · · · · · · · · · · · · | · | | <u> </u> | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
| 1 | 60011 Sumbari | 109 | 395 | 404 | 404 | 441 | 416 | 412 |
| 2 | 60038 Rauning B | 500 | 421 | 430 | 430 | 466 | | |
| 3 | 50025 Sumbul Berampu | 160 | 398 | 408 | 408 | 400 | 442 420 | 438 |
| | 50057 Sidomukti | 35 | 390 | 399 | 399 | 436 | 412 | 416 |
| 5 | | 234 | 403 | 412 | 412 | 449 | 412 | 407 420 |
| | 50129 Pangambatan (B) | 375 | 412 | 422 | 422 | 458 | 434 | 420 |
| | 50141 Aek Siparbue | 216 | 402 | 411 | 411 | 448 | 423 | 419 |
| 8 | 50218 Kutamale | 97 | 394 | 403 | 403 | 440 | 416 | 419 |
| 9 | 50240 Asahan VIII Pengajian | 168 | 399 | 408 | 408 | 445 | 420 | 416 |
| 10 | 50256 Aek Sihim | 474 | 419 | 428 | 428 | 465 | 440 | 436 |
| SOU | TH SULAWESI | | ~ _ ` ~ | | | | | |
| 1 | 20003 Kalu | 141 | 400 | 410 | 410 | 446 | 422 | 418 |
| 2 | 10055 Pajjenge | 116 | 399 | 408 | 408 | 445 | 420 | 416 |
| 3 | 10099 Kadieng | 202 | 404 | 414 | 414 | 450 | 426 | 422 |
| 4 | 10115 Kaindi | 242 | 407 | 416 | 416 | 453 | 428 | 424 |
| | 10140 Lembong Bata | 78 | 396 | 405 | 405 | 442 | 418 | 413 |
| 6 | 10168 Panrita | 152 | 401 | 410 | 410 | 447 | 423 | 418 |
| | 10182 Mario I-II-III | . 83 | 397 | 406 | 406 | 443 | 418 | 414 |
| | 10201 Pakelli II | 203 | 404 | 414 | 414 | 450 | 426 | 422 |
| | 10227 Limpua/Padaelo | 210 | 405 | 414 | 414 | 451 | 426 | 422 |
| | 10287 Malimbu | 433 | 419 | 429 | 429 | 465 | 441 | 437 |
| 11 | 10332 Salu A'kung | 337 | 413 | 422 | 422 | 459 | 435 | 430 |
| 12 | 10354 S. Mariri | 296 | 410 | 420 | 420 | 456 | 432 | 428 |
| wēs | T NUSA TENGGARA | | | | | · · | | |
| | 45010 Danar Jengkang | 58 | 395 | 404 | 404 | 441 | 416 | 412 |
| 2 | 32013 Mada Manini | 438 | 420 | 429 | 429 | 466 | 441 | 437 |
| 3 | 33050 Uma Lebang | 350 | 414 | 423 | 423 | 460 | 435 | 431 |
| 4 | 34004 Lokok Tripas | 80 | 396 | 406 | 406 | 442 | 418 | 414 |
| 5 | 35035 Lengkok Dudu | 56 | 395 | 404 | 404 | 441 | 416 | 412 |
| 6 | 35045 Kelokos Udang | 42 | 394 | 403 | 403 | 440 | 415 | 411 |
| 7 | 36016 Raba Sangga | 450 | 421 | 430 | 430 | 466 | 442 | 438 |
| 8 | 37003 Montong Sapah/Puri | 56 | 395 | 404 | 404 | 441 | 416 | 412 |

Table IX-14 ECONOMIC FARMGATE PRICE FOR UREA IN REPRESENTATIVE SCHEMES

Note: "Distance" is that from provincial capital cited from the inventory survey result.

| | IN REPRES | SENTATIVE SCHEMES | | | | Unit: Rp./kg | | |
|--------|--|-------------------|------------|------------|------------|--------------|------|------------|
| No. | Code Name of F/S Scheme | Distance(km) | 1993 | 1994 | 1995 | 2000 | 2005 | Average |
| NOI | RTH SUMATRA | | | | | | | |
| 1 | 60011 Sumbari | 109 | 429 | 438 | 448 | 454 | 454 | 445 |
| 2 | 60038 Rauning B | 500 | 455 | 464 | 473 | 479 | 479 | 470 |
| 3 | 50025 Sumbul Berampu | 160 | 433 | 442 | 451 | 457 | 457 | 448 |
| 4 | 50057 Sidomukti | 35 | 424 | 434 | 443 | 449 | 449 | 440 |
| 5 | 50091 Aek Palia/Tegal Legok | 234 | 437 | 447 | 456 | 462 | 462 | 453 |
| 6 | 50129 Pangambatan (B) | 375 | 447 | 456 | 465 | 471 | 471 | 462 |
| 7 | 50141 Aek Siparbue | 216 | 436 | 445 | 455 | 461 | 461 | 451 |
| 8 | 50218 Kutamale | 97 | 428 | 438 | 447 | 453 | 453 | 444 |
| 9 | 50240 Asahan VIII Pengajian | 168 | 433 | 442 | 451 | 458 | 458 | 448 |
| 10 | 50256 Aek Sihim | 474 | 453 | 462 | 471 | 477 | 477 | 468 |
| SOL | TH SULAWESI | | | | · <u> </u> | | | . <u></u> |
| 1 | 20003 Kalu | 141 | 435 | 444 | 453 | 459 | 459 | 450 |
| 2 | 10055 Pajjenge | 116 | 433 | 442 | 451 | 457 | 457 | 448 |
| 3 | 10099 Kadieng | 202 | 439 | 448 | 457 | 463 | 463 | 454 |
| 4 | 10115 Kaindi | 242 | 441 | 450 | 459 | 466 | 466 | 456 |
| 5 | 10140 Lembong Bata | 78 | 430 | 440 | 449 | 455 | 455 | 446 |
| 6 | 10168 Panrita | 152 | 435 | 444 | 454 | 460 | 460 | 451 446 |
| 7 | 10182 Mario I-II-III | 83 203 | 431 439 | 440 448 | 449 457 | 455 463 | 455 | 440 |
| 8 9 | 10201 Pakelli II 10227 Limpua/Padaelo | 203 | 439 | 448 | 457 | 464 | 464 | |
| 10 | 10227 Emplay adacto | 433 | 454 | 463 | 472 | 478 | 478 | 469 |
| 11 | 10332 Salu A'kung | -337 | 447 | 456 | 466 | 472 | 472 | 463 |
| 12 | 10354 S. Mariri | 296 | 445 | 454 | 463 | 469 | 469 | 460 |
| WES | ST NUSA TENGGARA | | | | · | | | |
| .1 | 45010 Danar Jengkang | 58 | 429 | 438 | 448 | 454 | 454 | 444 |
| 2 | 32013 Mada Manini | 438 | 454 | 463 | 472 | 478 | 478 | 469 |
| 3 | 33050 Uma Lebang | 350 | 448 | 457 | 466 | 473 | 473 | 463 |
| 4 | 34004 Lokok Tripas | 80 | 431 | 440 | 449 | 455 | 455 | 446 |
| 5 | 35035 Lengkok Dudu | 56 | 429 | 438 | 447 | 453 | 453 | 444 |
| 6 | 35045 Kelokos Udang | 42 | 428 | 437 | 446 | 453 | 453 | 443 |
| 7 | 36016 Raba Sangga | 450 | 455 | 464 | 473 | 479 | 479 | 470 |
| | 00 | | | 438 | 475 | 453 | 453 | 444 |
| 8 | 37003 Montong Sapah/Puri | 56 | 429 | 430 | 447 | 433 | 433 | |

Table IX-15 ECONOMIC FARMGATE PRICE FOR TSP IN REPRESENTATIVE SCHEMES

Note: "Distance" is that from provincial capital cited from the inventory survey result.

| | | | | | | Unit: Rp./kg | | | |
|-----------------|-----------------------------|--------------|------|------|-------|--------------|--------|---------|--|
| No ₁ | Code Name of F/S Scheme | Distance(km) | 1993 | 1994 | 1995 | 2000 | 2005 | Average | |
| NOF | TH SUMATRA | | | | · · · | | ••···· | | |
| 1 | 60011 Sumbari | 109 | 354 | 354 | 354 | 351 | 351 | 353 | |
| 2 | 60038 Rauning B | 500 | 380 | 380 | 380 | 377 | 377 | 378 | |
| 3 | 50025 Sumbul Berampu | 160 | 358 | 358 | 358 | 354 | 354 | 356 | |
| 4 | 50057 Sidomukti | 35 | 349 | 349 | 349 | 346 | 346 | 348 | |
| 5 | 50091 Ack Palia/Tegal Legok | 234 | 362 | 362 | 362 | 359 | 359 | 361 | |
| 6 | 50129 Pangambatan (B) | 375 | 371 | 371 | 371 | 368 | 368 | 370 | |
| 7 | 50141 Aek Siparbue | 216 | 361 | 361 | 361 | 358 | 358 | 360 | |
| 8 | 50218 Kutamale | 97 | 353 | 353 | 353 | 350 | 350 | 352 | |
| 9 | 50240 Asahan VIII Pengajian | 168. | 358 | 358 | 358 | 355 | 355 | 357 | |
| 10 | 50256 Aek Sihim | 474 | 378 | 378 | 378 | 375 | 375 | 377 | |
| 50U | TH SULAWESI | | | | | | · | | |
| 1 | 20003 Kalu | 141 | 360 | 360 | 360 | 356 | 356 | 358 | |
| 2 | 10055 Pajjenge | 116 | 358 | 358 | 358 | 355 | 355 | 357 | |
| 3 | 10099 Kadieng | 202 | 363 | 363 | 363 | 360 | 360 | 362 | |
| 4 | 10115 Kaindi | 242 | 366 | 366 | 366 | 363 | 363 | 365 | |
| 5 | 10140 Lembong Bata | 78 | 355 | 355 | 355 | 352 | 352 | 354 | |
| 6 | 10168 Panrita | 152 | 360 | 360 | 360 | 357 | 357 | 359 | |
| 7 | 10182 Mario I-II-III | 83 | 356 | 356 | 356 | 353 | 353 | 355 | |
| 8 | 10201 Pakelli II | 203 | 364 | 364 | 364 | 361 | 361 | 362 | |
| 9 | 10227 Limpua/Padaelo | 210 | 364 | 364 | 364 | 361 | 361 | 363 | |
| 10 | 10287 Malimbu | 433 | 379 | 379 | 379 | 375 | 375 | 377 | |
| 11 | 10332 Salu A'kung | 337 | 372 | 372 | 372 | 369 | 369 | 371 | |
| 12 | 10354 S. Mariri | 296 | 370 | 370 | 370 | 367 | 367 | 368 | |
| ₩Ē\$ | ST NŪŠĀ TENGGĀRĀ | | | | | | | • | |
| 1 | 45010 Danar Jengkang | 58 | 354 | 354 | 354 | 351 | 351 | | |
| 2 | 32013 Mada Manini | 438 | 379 | 379 | 379 | 376 | 376 | 378 | |
| 3 | 33050 Uma Lebang | 350 | 373 | 373 | 373 | 370 | 370 | 372 | |
| 4 | 34004 Lokok Tripas | 80 | 356 | 356 | 356 | 353 | 353 | 354 | |
| 5 | 35035 Lengkok Dudu | 56 | 354 | 354 | 354 | 351 | 351 | 353 | |
| 6 | 35045 Kelokos Udang | 42 | 353 | 353 | 353 | 350 | 350 | 352 | |
| 7 | 36016 Raba Sangga | 450 | 380 | 380 | 380 | 377 | 377 | 378 | |
| 8 | 37003 Montong Sapah/Puri | 56 | 354 | 354 | 354 | 351 | 351 | 353 | |

Table IX-16 ECONOMIC FARMGATE PRICE FOR KCL IN REPRESENTATIVE SCHEMES

Note: "Distance" is that from provincial capital cited from the inventory survey result.