## 2 <br> BRIDGE AND CULVERT



| liem No. | Description | Unit | Total | Stage 1 | Stage 2 | Stage 3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 117 | Curbstone | lin m | 332 | 0 | 188 | 144 |
| 118 | Rubber bearing pad, $t=33 \mathrm{~mm}$, Wail 50 mm | lin.m | 628.7 | 27.4 | 192.3 | 409.0 |
| 119 | Non-shrink mortar with grid bars, for stoe base | lit. | 7,860.0 | 330.0 | 2,290.0 | 5,240.0 |
| 120 | Anchoring in fixed bearing shoe | nos. | 359 | 15 | 110 | 234 |
| 121 | Anchoring in movable bearing shoe | nos. | 359 | 15 | 110 | 234 |
| 122 | Guard pipe for Road bridge, $\mathrm{H}=0.4 \mathrm{~m}$ | Iinm | 931.1 | 81.0 | 258.9 | 591.2 |
| 123 | Guard pipe for pedestrian oridge, $\mathrm{H}=1,0 \mathrm{~m}$ | Inmm | 310.7 | 0.0 | 218.7 | 92.0 |
| 124 | Drain pipe ( $\mathrm{D}=100 \mathrm{~mm}, \mathrm{~L}=84 \mathrm{~cm}$ ) with cap ( $300 \times 150 \mathrm{~mm}$ ) | nos. | 60 | 0 | 36 | 24 |
| 125 | Drain pipe, $\mathrm{D}=75 \mathrm{~mm}, \mathrm{~L}=70 \mathrm{~cm}$ | nos. | 124 | 12 | 0 | 112 |
| 126 | Drain pipe, $D=75 \mathrm{~mm}, \mathrm{~L}=40 \mathrm{~km}$ | nos. | 36 | 0 | 24 | 12 |
| 127 | Expansion joint, for road bridge | lin.m | 419.7 | 18.4 | 104.8 | 295.5 |
| 128 | Expansion joint, for pedestrian and in situ slab bridges | lin.m | 52.5 | 0.0 | 30.0 | 22.5 |
| 129 | Asphalt pavement | cu.m | 225 | 13 | 85 | 127 |
| 4.4 | Approach Road |  |  |  |  |  |
| 101 | Removal of existing asphale base pavement | s9.m | 15,745 | 717 | 3.591 | 11,437 |
| 102 | Excavation | cu.m | 3,025 | 43 | 394 | 2,583 |
| 103 | Back filling | cu.m | 2,254 | 44 | 352 | 1,858 |
| 104 | Wei muble'cobble masonry for slope protection | cu.m | 104 | 104 | 0 | 0 |
| 105 | Concrete, type 3, for aproach step | cu.m | 52 | 0 | 21 | 31 |
| 106 | Concrete, type 4, for side wall | cu.m | 2,742 | 43 | 378 | 2,321 |
| 107 | Concrete, type 5 , for foundation concrete | com | 1,006 | 15 | 120 | 871 |
| 108 | Form, type F1, for ltem Nos. 4.405 and 4.406 | sq. m | 14,454 | 219 | 2,096 | 12.139 |
| 109 | Form, type F2, for Item Nos. 4.4'05 to 4.4,07 | sq.m. | 2,531 | 30 | 249 | 2,252 |
| 110 | Reinforcing bars, for Ikm Nos. 4.405 and 4.406 | kg: | 5,720 | 0 | 2,880 | 2.840 |
| 111 | Frecast concrete drain block, type 53 | oos. | 3,697 | 357 | 1,070 | 2,270 |
| 112 | Precast concrete side ditch, $300 \times 300 \mathrm{~mm}$ | lin.m | 6,989 | 214 | 903 | 5,872 |
| 113 | Embanknent and sub-grade | cam | 5,012 | 126 | 851 | 4,035 |
| 114 | Sub-base course | cu.m | 2.709 | 109 | 613 | 1,987 |
| 115 | Base course | cu.m | 2.035 | 82 | 461 | 1,492 |
| 116 | Asphale pavement | cum. | 685 | 28 | 155 | 502 |
| 117 | Guardrail, concrete post | $\operatorname{lin} m$ | 158 | 0 | 60 | 98 |

## Summary of Work Quantities for Bridge and Road, Package 2 (2/2)

| Item No. | Description | Unit | Total | Tanjungan | PIK |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 106 | Comerete, bype 4, for side wall | cum | 465 | 465 | 0 |
| 107 | Concrete, type 5, for foundation concrele | Cu. 31 | 147 | 147 | 0 |
| 108 | Form, lype F1, for hem No. 4.506 | sq.m | 1,894 | 1,894 | 0 |
| 109 | Form, lype F2, for ltem Nos. 4.5106104 .507 | sq.m | 277 | 277 | 0 |
| 110 | Precast concrete drain block, lype 5 a | nos. | 1,440 | 1.440 | 0 |
| 111 | Precast concrete side ditch, $300 \times 300 \mathrm{~mm}$ | linm | 864 | 864 | 0 |
| 112 | Embankment and sub-grade | cu. ml | 2.732 | 2.732 | 0 |
| 113 | Sub-base course | cu.m | 925 | 925 | 0 |
| 114 | Base course | cu.m | 695 | 695 | 0 |
| 115 | Asphatipavement | cum | 234 | 234 | 0 |

Summary of Work Quantities for Bridge and Road, Package 3 (1/2)


Summary of Work Quantities for Bridge and Road, Package 3 (2/2)

| lem No. | Description | Unit | Total | GedefBor | S.Cengk | Menya |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 103 | Reinforcing bars, for Item No. 4.401 | kg | 5,280 | 0 | 5,280 | 0 |
| 4.5 | Approach Road |  |  |  |  |  |
| 101 | Removal of existing concrete pavement | sq.m | 9,597 | 2.956 | 6.641 | 0 |
| 102 | Removal of existing asphalvbase pavement | sq.m | 8.675 | 5,669 | 3,006 | 0 |
| 103 | Excavation | cu.m | 2,608 | 1,452 | 1,216 | 0 |
| 104 | Back filling | cu.m | 1,996 | 1,029 | 967 | 0 |
| 105 | Weinubble'cobole masonry for slope protection | com | 1,233 | 0 | 1,233 | 0 |
| 106 | Conerete, type 3. for approach step. | cu.m | 10 | 0 | 10 | 0 |
| 107 | Concrete, type 4, for side wall | cu.m | 2,485 | 1,592 | 893 | 0 |
| 108 | Comrele, type 5 , for foundation conctete | cu.m | 831 | 450 | 381 | 0 |
| 109 | Form, type F1, for ltern Nos. 4.5106 and 4.5107 | sq.m | 10,884 | 5,604 | 5,280 | 0 |
| 110 | Form, tjpe F2, for ltem Nos. 4.5,06 io 4.5,03 | s9.m | 1.597 | 828 | 769 | 0 |
| 111 | Reinforcing bars, for Item Nos. 4.5106 and 4.5.07 | kg. | 5.440 | 1.000 | 4,440 | 0 |
| 112 | Precast concrete drain block, type Sa | nos. | 4,530 | 0 | 4,530 | 0 |
| 113 | Precast concrete side diteh, $300 \times 300 \mathrm{~mm}$ | lin.m | 5,296 | 2,578 | 2,718 | 0 |
| 114 | Embankment and sub-grade | Cu.m | 7,480 | 4,071 | 3,409 | 0 |
| 115 | Sub-base course | cu.m | 2,843 | 1,369 | 1,474 | 0 |
| 116 | Base course | cu.m | 2,135 | 1.028 | 1,107 | 0 |
| 117 | Asphalt pavement | cu.m | 718 | 345 | 373 | 0 |
| 118 | Guardrail, concrete post | linm | 173 | 32 | 141 | 0 |

## QUANTITY ESTIMATE

PAY ITEM 4.1/02
DEMOLISIIING, HAULING AND DISPOSING SUPERSTRUCTURE (CONCRETE)

| LOCATION |  | QUANTITY(m3) | REMARXS |
| :---: | :---: | :---: | :---: |
| 1. KAMAL DRAINAGE | STAGE-1 | 11 | KM2 |
| CHANNEL | STAGE-II | 104 | KM11-1,KM15,KM17-2,KM19,KM20,KM21-2 |
|  | STAGE-II | 117 | KM22-3,KM22-4,KM23-2 |
| 2. KAMAL BRANCII DRAINAGE CHANNE |  | 81 | KE1-1,KE2,KE3-2,KE4,KE5, KE6, $\mathrm{KE} 7, \mathrm{KE} 9$, KE10-1,KE12,KE14,KE15-1,KE15-2,KE16, KE17-1,KE18,KE19,KE20-1,KE22 |
| 3. TANJUNGAN DRAIN CHANNEL |  | 77 | TM1,TM3-4,TM5,TM6 |
| 4. NEW DRAINAGE CH | ANNEL |  | NM11 |
| 5. SALURAN CHENGKA DRAINAGE CHANNE | $\begin{aligned} & \text { ARENG } \\ & \text { BL } \end{aligned}$ | 189 | CM3,CM6,CM7,CM9,CM11,CM13,CM15,CM16, CM17-1,CM18-4,CM19-1,CM20,CM22 |
| 6. GEDE/BOR DRAINAC CHANNEL |  |  | GM1-2,GM1-4,GM5,GM6,GM7,GM8-1,GM9, GM10-2,GM11-2,GM13-1,GA2,GA3-1 |
| TOTAL |  | 622 |  |

PAY ITEM 4.1/03
DEMOL ASHING, HAULING AND DISPOSING SUBSTRUCTURE (CONCRETE / MASONRY)

| LOCATION |  | QUANTITY(m3) | REMARKS |
| :---: | :---: | :---: | :---: |
| 1. KAMALDRAINAGE CHANNEL | STAGE-1 | 21 | KM2 |
|  | STAGE-II | 196 | KM11-1,KM15,KM17-2,KM19,KM20,KM21-2 |
|  | STAGE-II | 158 | KM22-3,KM22-4, KM $23-2$ |
| 2. KAMAL BRANCII DRAINAGE CIIANNEL |  | 468 | KE1-1,KE2,KE3-2,KE4,KE5,KE6,KE7,KE9, KE10-1,KE12,KE14,KE15-1,KE15-2,KE16, KE17-1, KE18, KE19,KE20-1,KE22 |
| 3. TANJUNGAN DRAINAGE CHANNEL |  | 248 | TM1,TM3-4,TM5,TM6 |
| 4. NEW DRAINAGE CHANNEL |  | 22 | NM11 |
| 5. SALURAN CIIENGKARENG DRAINAGE CHANNEL |  | 672 | СМ3,СМ6,СМ7,СМ9,СМ11,СМ13,СМ15,СM16, CM17-1,CM18-4,CM19-1,CM20,CM22 |
| 6. GEDE/BOR DRAINAGE CIIANNEL |  | 387 | GM1-2,GM1-4,GM5,GM6,GM7,GM8-1,GM9, GM10-2,GM11-2,GM13-1,GA2,GA3-1 |
| TOTAL |  | 2172 |  |

## PAY ITEM 4.1/04

REMOVAL OF STRUCTURAL STEEL MEMBERS

| LOCATION | QUANTITY(1) | REMARKS |
| :--- | :--- | :--- | :--- |
| 5. SALURAN CIIENGKARENG DRA | 6.7 | CM3,CMIS,CM16 |
| 6. GEDEBOR DRAINAGE CIIANNE |  | $4.0 \mid$ GM1-2 |
| TOTAL |  |  |

PAY ITEM 4.1/02
DEMOLISIHNG, HAULING AND DISPOSING SUPERSTRUCTURE (CONCRETE)

1-1. KAMAL, DRAINAGE CIIANNEL (STAGE- I)

| NO | $L(m)$ | $W(m)$ | $T(m)$ | VOLUME(m3) |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| KM2 | 11.75 | 2.63 |  | 11 | RCBEAM |
| TOTAL |  |  |  | 11 |  |

1-2. KAMALDRAINAGE CHANNEL (STAGE-II)

| NO | $L(m)$ | $W(m)$ | $T(m)$ | VOLUME $(m 3)$ |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| KM 11-1 | 13.70 | 7.40 |  | 33 | RC BEAM |
| KM 15 | 5.93 | 2.69 | 0.37 | 6 | SLAB |
| KM 17-2 | 13.90 | 7.95 | 40 | RC BEAM |  |
| KM 19 | 10.35 | 1.96 | 0.65 | 13 | SLAB |
| KM 20 | 7.07 | 1.94 | 0.45 | 6 | SLAB |
| XM 21-2 | 5.70 | 3.15 | 0.36 | 6 | SLAB |
| TOTAL |  |  |  | 104 |  |

1-3. KAMAL DRAINAGE CHANNEL (STAGE-II)

| NO | L(m) | $\underline{W}(\mathrm{~m})$ | T(m) | VOLUME(m3) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| KM 22-3 | 16.60 | 2.31 |  | 19 | RC BEAM |
| KM 22-4 | 16.70 | 8.93 |  | 57 | RC BEAM |
| KM 23-2 | 13.70 | 8.98 |  | 41 | RC BEAM |
| TOTAL |  |  |  | 117 |  |

)
2. KAMAL BRANCII DRAINAGE CHANNEL

| NO | L(m) | $\mathrm{W}(\mathrm{m})$ | $\mathrm{T}(\mathrm{m})$ | VOLUME(m3) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| KE 1-1 | 6.70 | 2.60 | 0.42 | 7 | SLAB |
| KE2 | 6.80 | 3.80 |  | 6 | RC BEAM |
| XE 3.2 | 5.60 | 5.75 | 0.35 | 11 | SLAB |
| XE 4 | 5.10 | 5.10 | 0.33 | 9 | SLAB |
| XE 5 | 4.80 | 5.05 | 0.28 | 7 | SLAB |
| KE6 | 4.30 | 3.20 | 0.20 | 3 | SLAB |
| KE 7 | 3.10 | 5.00 | 0.20 | 3 | SLAB |
| XE9 | 3.50 | 1.27 | 0.22 | 1 | SLAB |
| KE 10-1 | 3.05 | 4.45 | 0.35 | 5 | SLAB |
| KE 12 | 3.00 | 5.50 | 0.25 | 4 | SLAB |
| KE 14 | 2.45 | 3.00 | 0.30 | 2 | SLAB |
| KE 15-1 | 2.70 | 7.50 | 0.35 | 7 | SLAB |
| KE 15-2 | 2.70 | 7.40 | 0.37 | 7 | SLAB |
| KE 16 | 1.90 | 2.60 | 0.15 | 1 | SLAB |
| KE17-1 | 1.70 | 2.90 | 0.13 | 1 | SLAB |
| KE 18 | 1.40 | 1.45 | 0.10 | 1 | SLAB |
| K1 19 | 1.25 | 1.65 | 0.13 | 1 | SLAB |
| KE 20-1 | 1.08 | 4.50 | 0.70 | 3 | SLAB |
| KE 22 | 1.90 | 4.60 | 0.12 | 1 | SLAB |
| KE 24-1 | 1.69 | 3.74 | 0.11 | 1 | SLAB |
| TOTAL |  |  |  | 81 |  |

3. TANJUNGAN DRAINAGE CHANNEL

| NO | $(\mathrm{m})$ | $\mathrm{W}(\mathrm{m})$ | $T(\mathrm{~m})$ | VOLUME $(\mathrm{m} 3)$ |  |
| :--- | ---: | ---: | ---: | ---: | :--- |
| TM 1 | 4.88 | 5.63 | 0.31 | 9 | SLAB |
| TM 3.4 | 9.90 | 8.50 | 0.62 | 52 | SLAB |
| TM 5 | 2.00 | 12.70 | 0.20 | 5 | SLAB |
| TM 6 | 3.00 | 11.80 | 0.30 | 11 | SLAB |
| TOTAL |  |  | 77 |  |  |

4. NEW DRAINAGE CHANNEL

| NO | $L(\mathrm{~m})$ | $\mathrm{W}(\mathrm{m})$ | $T(\mathrm{~m})$ | VOLUME(m3) |  |
| :--- | :--- | :--- | ---: | ---: | :--- |
| NM 11 | 1.70 | 4.00 | 0.15 | 1 | SLAB |
| TOTAL |  |  |  | 1 |  |

5. SALURAN CIIENGKARENG DRAINAGE CHANNEL

| NO | L(m) | W(m) | T(m) | VOLUME(m3) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CM 3 | 3.55 | 8.70 | 0.20 |  | STEEL |
| CM 6 | 9.60 | 4.15 |  | 17 | RC BEAM |
| CM7 | 9.80 | 1.00 | 0.60 |  | SLAB |
| CM9 | 11.30 | 6.20 |  | 22 | RC BEAM |
| CM 11 | 11.20 | 6.25 |  | 22 | RC BEAM |
| CM 13 | 8.50 | 2.20 | 0.18 |  | SLAB |
| CM15 | 8.40 | 1.50 |  |  | STEEL |
| CM 16 | 8.35 | 1.50 |  |  | STEEL |
| CM 17.1 | 5.60 | 6.40 |  |  | RC BEAM |
| CM 18-4 | 5.58 | 14.50 |  | 17 | RC BEAM |
| CM 19-1 | 9.70 | 17.00 |  | 48 | RC BEAM |
| CM 20 | 8.90 | 7.10 |  | 17 | RC BEAM |
| CM 22 | 9.40 | 9.10 |  | 23 | RC BEAM |
| TOTAL |  |  |  | 189 |  |

6. GEDE/BOR DRAINAGE CIIANNEL

| NO | L(m) | W(m) | $\mathrm{T}(\mathrm{m})$ | VOLUME(m3) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| GM 1-2 | 2.90 | 7.50 | 0.17 | 4 | STEEL |
| GM 1.4 | 2.90 | 7.50 | 0.47 | 10 | SIAB |
| GM 5 | 4.25 | 1.35 | 0.27 | 2 | SLAB |
| GM 6 | 2.20 | 5.10 | 0.14 | 2 | SLAB |
| GM 7 | 4.00 | 3.95 |  | 3 | RC BEAM |
| GM 8-1 | 3.90 | 3.10 | 0.24 | 3 | SLAB |
| GM 9 | 2.70 | 4.90 | 0.17 | 2 | SLAB |
| GM 10-2 | 4.60 | 6.40 |  | 6 | RC BEAM |
| GM 11-2 | 4.60 | 6.24 |  | 6 | RC BEAM |
| GM 13-1 | 3.10 | 3.45 | 0.20 | 2 | SLAB |
| GA 2 | 0.85 | 4.10 | 0.26 | 1 | SLAB |
| GA 3-1 | 0.85 | 4.20 | 0.26 | 1 | SLAB |
| TOTAL |  |  |  | 42 |  |

## PAY ITEM 4.1/03

DEMOLISIHNG, IIAULING AND DISPOSING SUBSTRUCTURE (CONCRETE/MASONRY)

1-1. KAMAL DRAINAGE CHANNEL (STAGE- I)

| NO | W(m) | VOLUME(m3) |  |
| :--- | ---: | ---: | ---: |
| KM 2 | 2.63 | 21 |  |
| TOTAL |  | 21 |  |

1-2. KAMAL DRAINAGE CHANNEL (STAGE- II)

| NO | W(m) | VOLUME $(\mathrm{m} 3)$ |  |
| :--- | ---: | ---: | ---: |
| KM 11-1 | 7.40 | 58 |  |
| KM 15 | 2.69 | 21 |  |
| KM 17-2 | 7.95 | 62 |  |
| KM 19 | 1.96 | 15 |  |
| KM 20 | 1.94 | 15 |  |
| KM 21-2 | 3.15 | 25 |  |
| TOTAL |  | 196 |  |

1-3. KAMAL DRAINAGE CIIANNEL (STAGE-II)

| NO | W(m) | VOLUME(m3) |  |
| :--- | ---: | ---: | ---: |
| KM 22.3 | 2.31 | 18 |  |
| KM 22-4 | 8.93 | -70 |  |
| KM 23-2 | 8.98 | 70 |  |
| TOTAL |  | 158 |  |

2. KAMAL BRANCH DRAINAGE CIIANNEL

| NO | $\mathrm{W}(\mathrm{m})$ | VOLUME(m3) |  |
| :---: | :---: | :---: | :---: |
| KE 1-1 | 2.60 | 20 |  |
| XE 2 | 3.80 | 30 |  |
| KE 3-2 | 5.75 | 32 |  |
| KE 4 | 5.10 | 29 |  |
| KES | 5.05 | 28 |  |
| KE 6 | 3.20 | 18 |  |
| KE 7 | 5.00 | 28 |  |
| KE 9 | 1.27 | 7 |  |
| KE 10-1 | 4.45 | 25 |  |
| KE 12 | 5.50 | 31 |  |
| KE 14 | 3.00 | 17 |  |
| KE 15-1 | 7.50 | 42 |  |
| KE 15-2 | 7.40 | 41 |  |
| KE 16 | 2.60 | 15 |  |
| KE 17-1 | 2.90 | 16 |  |
| KE 18 | 1.45 | 8 |  |
| KE 19 | 1.65 | 9 |  |
| KE 20-1 | 4.50 | 25 |  |
| KE 22 | 4.60 | 26 |  |
| KE 24-1 | 3.74 | 21 |  |
| TOTAL |  | 468 |  |

3. TANJUNGAN DRAINAGE CHANNEL

| NO | W(m) | VOLUME(m3) |  |
| :--- | ---: | ---: | ---: |
| TM 1 | 5.63 | 44 |  |
| TM 3-4 | 8.50 | 67 |  |
| TM 5 | 12.70 | 71 |  |
| TM 6 | 11.80 | 66 |  |
| TOTAL |  | 248 |  |

4. NEW DRAINAGE CIIANNEL,

| NO | W(m) | VOLUME $(\mathrm{m} 3)$ |  |
| :--- | ---: | ---: | ---: |
| NM 11 | 4.00 | 22 |  |
| TOTAL |  |  | 22 |

5. SALURAN CIIENGKARENG DRAINAGECHANNEL

| NO | $\mathrm{W}(\mathrm{m})$ | VOLUME(m3) |  |
| :---: | :---: | :---: | :---: |
| CM 3 | 8.70 | 68 |  |
| CM 6 | 4.15 | 33 |  |
| CM 7 | 1.00 | 8 |  |
| CM 9 | 6.20 | 49 |  |
| CM 11 | 6.25 | 49 |  |
| CM 13 | 2.20 | 17 |  |
| CM 15 | 1.50 | 12 |  |
| CM 16 | 1.50 | 12 |  |
| CM 17-1 | 6.40 | 50 |  |
| CM 18-4 | 14.50 | 114 |  |
| CM 19-1 | 17.00 | 133 |  |
| CM 20 | 7.10 | 56 |  |
| CM 22 | 9.10 | 71 |  |
| TOTAL |  | 672 |  |

()
6. GEDE/BOR DRAINAGE CIIANNEL

| NO | W ( m ) | VOLUME(m3) |  |
| :---: | :---: | :---: | :---: |
| GM 1-2 | 7.50 | 59 |  |
| GM 1-4 | 7.50 | 59 |  |
| GM 5 | 1.35 | 8 |  |
| GM 6 | 5.10 | 40 |  |
| GM 7 | 3.95 | 22 |  |
| GM 8-1 | 3.10 | 17 |  |
| GM 9 | 4.90 | 38 |  |
| GM 10-2 | 6.40 | 50 |  |
| GM 11-2 | 6.24 | 49 |  |
| GM 13-1 | 3.45 | 27 |  |
| GA 2 | 4.10 | 9 |  |
| GA 3-1 | 4.20 | 9 |  |
| TOTAL |  | 387 |  |

## PAY ITEM 4.1/04

REMOVAL OF STRUCTURAL STEEL MEMBERS
5. SALURAN CIIENGKARENG DRAINAGE CIIANNEI,

| NO | WEIGIIT $(t)$ |
| :--- | ---: |
| CM3 |  |
| CM15 | 4.7 |
| CM16 | 1.0 |
| TOTAL | 1.0 |

6. GEDEJBOR DRAINAGE CIIANNEI.

| NO | WEIGIT $(t)$ |
| :--- | :--- |
| GMI-2 |  |
| TOTAL |  |

Table BILL OF QUANTITIES OF SUPERSTRUCTURE (2/9)
KAMAL (BRANCH) $1 / 2$

| STRUCTURE |  |  | S!EC | UNIT | BKE 1 | BKE 2 | BKE 3 | BKE 4 | BKE S | BKE 6 | 13KE 7 | BKE 8 | BKE9 | BKE 10 | SUB |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. MAIN GIRDER |  | NUMBER | Unit | no | 8 | 12 | 16 | 16 | 16 | 12 | 16. | 6 | 12 | 16 | 130 |
|  |  | CONCRETE | 50K class | $\mathrm{m}^{3}$ | 19.3 | 28.90 | 38.6 | 38.6 | 38.6 | 28.90 | 38.6 | 11.30 | 28.90 | 19.80 | 291.5 |
|  |  | PC-TENDON | SWPR7BN | if | 0.832 | 1.248 | 1.664 | 1.664 | 1.664 | 1.248 | 1.664 | 0.273 | 1.248 | 1.447 | 12.952 |
|  |  | RE-BAR | D10 | tif | 0.444 | 0.665 | 0.887 | 0.887 | 0.887 | 0.665 | 0.887 | 0.361 | 0.665 | 0.771 | 7.119 |
|  |  | FORM | metal | $\mathrm{m}^{2}$ | 115.4 | 173.10 | 230.80 | 230.80 | 230.80 | 173.10 | 230.80 | 74.90 | 173.10 | 188.90 | :821.7 |
|  |  | SHEATH | metal | m | 55.7 | 83.50 | 11.40 | 11.40 | 11.40 | 83.50 | 11.40 | 41.80 | 83.50 | 111.40 | 505 |
| 2. FORMING |  | CONCRETE | 24K class | $\mathrm{m}^{3}$ | 2.5 | 4.8 | 5.7 | 5.7 | 5.7 | 4.8 | 5.7 | 1.20 | 4.8 | 4.40 | 45.3 |
|  |  | FORM | left in piace | $\mathrm{m}^{2}$ | 4.2 | 9.0 | 9.7 | 9.7 | 9.71 | 9.0 | 9.7 | 2.70 | 9.0 | 8.70 | 81.4 |
| $\begin{aligned} & 3 \text { CROSS } \\ & \text { GIRDER } \end{aligned}$ | PC-TENDON | NUMBER | unit | no | 24 | 24 | 24. | 24 | 24 | 24 | 24. | 24 | 24 | 24 | 240 |
|  |  | LENGTH | unit length | m | 2.830 | 4.440 | 5.830 | 5.830 | 5.830 | 4.440 | 5.8301 | 2.0801 | 4.440 | 5.830 | 47.38 |
|  |  | INTEG.L | SUM. | m | 67.920 | 105.560 | 139.220 | 139.920 | \#17\%H\% | 105.560 | 139.920 | 49.920 | 105.560 | 139.920 | 1134.12 |
|  |  | INTEG. W | SUM | If | 0.112 | 0.716 | 0.231 | 0.2311 | 0.231 | 0.716 | 0.231 | 0.082 | 0.716 | 0.231 | 3.497 |
|  | SHEATH | GIRDER SPACE | metal | m | 14.4 | 26.60 | 33.6 | 33.6 | 33.6 | 26.60 | 33.61 | 9.60 | 26.60 | 33.60 | 271.3 |
|  | GROUT | THROUGH | >20 K | m | 67.9 | 105.60 | 139.90 | 139.90 | 139.90 | 105.60 | 139.90 | 49.90 | 105.60 | 139.90 | 1134.1 |
| $\begin{aligned} & 4 \text { MISCILL } \\ & \text { ANEOUS } \end{aligned}$ | ROADWAY | PAVEMENT | 50 to $160 \mathrm{~m} / \mathrm{m}$ | $\mathrm{m}^{3}$ | 25 | 4.7 | 7.0 | 7.0 | 7.0 | 4.7 | 7.0 | 1.0 | 4.7 | 4.7 | 72.8 |
|  | SIDE WALK | PAVEMENT | $30 \mathrm{~m} / \mathrm{m}$ | $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |  |  |  |  |
|  | GUARD RAIL | SUB-CONCRETE | 18 K class | $\mathrm{m}^{\text {J }}$ |  |  |  |  |  |  |  |  |  |  |  |
|  |  | SIDE BLOCK | curb-stone | m |  |  |  |  |  |  |  |  |  |  |  |
|  |  | FILLING MOR | mortar | $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |  |  |  |  |
|  |  | CONCRETE | 24 K class | $\mathrm{m}^{3}$ | 7.70 | 7.60 | 14.5 | 14.5 | 14.5 | 7.60 | 14.5 | 5.20 | 7.60 | 12.20 | 105.9 |
|  |  | FORM | wood/netal | $\mathrm{m}^{2}$ | 150.50 | 63.10 | 86.70 | 86.70 | 86.70 | 63.10 | 86.70 | 39.20 | 63.10 | 74.300 | 800.1 |
|  |  | RE-BAR | D13 | tif | 0.361 | 0.358 | 0.684 | 0.684 | 0.684 | 0.358 | 0.684 | 0.245 | 0.358 | 0.573 | 4.989 |
|  |  | STEEL RAIL | 2 dia. 76.3 | m | 33.60 | 33.60 | 33.60 | 33.60 | 33.60 | 33.60 | 33.60 |  | 33.60 | 29.20 | 298 |
|  |  | STEEL RAIL | pedestrian | m |  |  |  |  |  |  |  | 33.60 |  |  | 33.6 |
|  | DRAINAGE | SUMBER | shaped steel | no | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 4 | 8 | 8 | 76 |
|  | EXPANTION | STEEL TYPE | 2 -angles | m |  |  |  |  |  |  |  | 7.50 |  |  | 7.5 |
|  |  | RUBBER TYPE | rubber joint | m | 9.06 | 13.8 | 19.80 | 19.80 | 19.80 | 13.8 | 19.80 |  | 13.8 | 19.80 | 149.46 |
|  | BEARING | RUBBER TYPE | 150*33 | m | 11.8 | 18.24 | 23.80 | 23.80 | 23.80 | 18.24 | 23.80 | 8.80 | 18.24 | 23.80 | 194.32 |
|  |  | ANCHOR BAR | number | no. | 12 | 20 | 28 | 28 | 28 | 20 | 28 | 8 | 20 | 28 | 220 |
|  |  | SEAT MORTAR | 1200*60 | $\mathrm{m}^{3}$ | 0.14 | 0.22 | 0.29 | 0.29 | 0.29 | 0.22 | 0.29 | 0.11 | 0.22 | 0.29 |  |

Tabic BILL OF QUANTITIES OF SUPERSTRUCTURE (3/9)
KAMAL (BRANCH) $2 / 2$

| STRUCTURE |  |  | SPEC | UNIT | BKE 11 1 | BKE 12 | BKE 131 | BXE 14 | BKE 15 | BKE 16 | BKE 17 | BKE I8 | SUB | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. M,AIN GIRDER |  | NUMBER | Unit | no | 12\} | Cance! | 20 | 6 | 6 | 6 | 6 | 121 | 68 | 1981 |
|  |  | CONCRETE | 50K class | $\mathrm{m}^{3}$ | 28.90 |  | 37.20 | 11.3 | 11.3 | 9.80 | 9.80 | 22.30 | 130.6 | 422.16 |
|  |  | PC-TENDON | SWPR7BN | If | 1.248 |  | 1.898 | 0.2731 | 0.273 | 0.237 | 0.2371 | 2.085 | 5.251 | 18.203 |
|  |  | RE-BAR | D10 | If | 0.665 |  | 0.964 | 0.361 | 0.361 | 0.3131 | 0.3131 | 0.578 | 3.5551 | 10.674 |
|  |  | FORM | metal | $\mathrm{m}^{2}$ | 173.10 |  | 235.10 | 74.90 | 74.90 | 64.601 | 64.601 | 141.70 | 828.9 | 2650.6 |
|  |  | SHEATH | meta! | m | 83.501 |  | 139.20 | 41.8 | 41.8 | 27.801 | 27.801 | 83.50 | 445.4 | 950.4 |
| 2. FORMING |  | CONCRETE | 24K class | $\mathrm{m}^{3}$ | 4.8 |  | 5.70 | 1.90 | 1.90 | 1.00 | 1.00 | 3.70 | 201 | 65.3 |
|  |  | FORM | lieft in place | $\mathrm{m}^{2}$ | 9.0 |  | 11.20 | 3.70 | 3.701 | 2.50 | 2.501 | 8.00 | 40.6 | 122 |
| $\begin{aligned} & 3 \text { CROSS } \\ & \text { GIRDER } \end{aligned}$ | PC-TENDON | NUMBER | unit | no | 24. |  | 24 | 24 | 24 | 16 | 16 | 24 | 152 | 392 |
|  |  | LENGTH | unit length | m | 4.4401 |  | 7.3301 | 2.830 | 2.8301 | 2.080 | 2.0801 | 4.440 | 26.03 | 73.41 |
|  |  | INTEG. L | SUM | m | 105.560 |  | 175.920 | 67.920 | 67.920 | 33.280 | 33.2801 | 1106.560 | 590.44 | 1724.56 |
|  |  | INTEG. W | SUM | tf | 0.716 |  | 0.2911 | 0.112 | 0.112 | 0.055 | 0.055 | 0.176 | 1.517 | 5.014 |
|  | SHEATH | GIRDER SPACE | metal | m | 26.60 |  | 43.20 | 14.40 | 14.40 | 6.401 | 6.401 | 26.60 | 138 | 409.8 |
|  | GROUT | THROUGH: | >20 K | $m$. | 105.60 |  | 175.90 | 67.90 | 67.901 | 33.301 | 33.301 | 106.60 | 590.51 | 1724.6 |
| $\begin{aligned} & 4 \text { MISCILY } \\ & \text { ANEOUS } \end{aligned}$ | ROADWAX | PAVEMENT | 50 to $160 \mathrm{~m} / \mathrm{m}$ | $\mathrm{m}^{3}$ | 4.7 |  | 8.7 | 2.2 | 2.2 | 1.4 | 1.4 | 4.1 | 24.71 | 97.5 |
|  | SIDE WAER | PRAEVENT | $130 \mathrm{~m} / \mathrm{m}$ | m |  |  |  |  |  |  |  |  |  |  |
|  |  | SUB-CONCRETE | 118 K class | $\mathrm{m}^{3}$ |  |  | - |  |  |  |  |  |  |  |
|  |  | SIDE BLOCK | curb-stone | m |  |  |  |  | : |  |  |  |  |  |
|  |  | FILLNNGMOR | mortar | $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |  |  |  |
|  |  | CONCRETE | 24K class | $\mathrm{m}^{3}$ | 7.60 |  | 12.60 | 6.60 | 6.60 | 4.50 | 4.50 | 6.60 | 49 | 154.9 |
|  | GUARD RAIL | FORM | wood/metal | $\mathrm{m}^{2}$ | 63.10 |  | 75.90 | 55.20 | 55.20 | 34.20 | 34.20 | 55.10 | 372.91 | 11.73 |
|  |  | RE-BAR | D13 | tf | 0.358 |  | 0.596 | 0.313 | 0.313 | 0.213 | 0.213 | 0.311 | 2.3171 | 7.306 |
|  |  | STEEL RALL | 2 dia. 76.3 | m | 33.60 |  | 29.20 | 29.20 | 29.20 |  |  | 29.20 | 150.4 | 448.4 |
|  |  | STEEL RAIL | pedestrian | III | - |  |  |  |  | 29.20 | 29.20 |  | 58.4 | 92 |
|  | DRAINAGE | NUMBER | shaped steel | no. | $\bigcirc 8$ |  | 8 | 8 | 8 | 4 | 4 | 8 | 48 | 124 |
|  | EXPANTION | STEEL TYPE | 2-angles | m |  |  |  |  |  | 7.50 | 7.50 |  | 15 | 22.5 |
|  |  | RUBBER TYPE | rubber joint | m | 13.80 |  | 24.60 | 9.0 | 9.0 |  |  | 13.80 | 70.21 | 219.65 |
|  | BEARING | RUUBEERTYPE | 150*33 | -m | 18.24 |  | 29.80 | 11.80 | 11.80 | 8.80 | 3.80 | 18.24 | 107.48 | 301.8 |
|  |  | ANCHOR BAR | number | no | 20 |  | 36 | - 12 | 12 | 8 | 8 | 20 | 116 | 336 |
|  |  | SEATMORTAR | 200*60 | $\mathrm{m}^{3}$ | 0.22 |  | 0.36 | 0.14 | 0.14 | 0.11 | 0.11 | 0.22 | 1.3 | 1.3 |

Table BILL OF QUANTITIES OF SUPERSTRUCTURE (4/9)


Table BILL OF QUANTITIES OF SUPERSTRUCTURE (6/9)
CENGKARENG:1/2

| STRUCTURE |  |  | SPEC | UNIT | BCM 1 | BCM 2 | [3CM 31 | BCM 4 | BCM 5] | BCM 6 | BCM 7 | BCM 81 | BCM 9 | BCM 10 | SUB |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. MAIN GIRDER |  | NUMBER | Unit | no | Cancel | 12 | 6 | 3 | 8 | 8. | 6 | 3 | 31 | 8 | 57 |
|  |  | CONCRETE | SOK class | $\mathrm{m}^{3}$ |  | 56.20 | 28.10 | 10.4 | 37.50 | 30.29 | 28.10 | 10.90 | 10.90 | 32.01 | 24.4 |
|  |  | PC-TENDON | SWPR78N | tf |  | 3.340 | 1.670 | 0.627 | 2.227 | 1.86 | 1.670 | 0.556 | 0.556 | 1.970 | 14.476 |
|  |  | RE-BAR | D10 | ff |  | 2.305 | 1.197 | 0.504 | 1.596 | 1.4261 | 1.197 | 0.250 | 0.250 | 2.9701 | 11.785 |
|  |  | FORM | metal | $\mathrm{m}^{2}$ |  | 627.401 | 313.70 | 110.8 | 418.2 | 326.60 | 313.70 | 63.70 | 63.70 | 345.13 | 2582.93 |
|  |  | SHEATH | metal | m |  | 181.00 | 90.50 | 45.2 | 120.6 | 126.00 | 90.50 | 0.90 | 0.90 | 133.111 | 788.71 |
| 2. FORMING |  | CONCRETE | 24 K class | $\mathrm{m}^{3}$ |  | 12.1 | 6.50 | 1.30 | 5.50 | 5.70 | 6.50 | 1.20 | 1.201 | 6.07 | 46.07 |
|  |  | FORM | leet in place | $\mathrm{m}^{2}$ |  | 12.6 | 7.60 | 2.0 | 6.90 | 7.20 | 7.60 | 1.80 | 1.30 | 7.62 | 55.12 |
| $\begin{aligned} & 3 \text { CROSS } \\ & \text { GIRDER } \end{aligned}$ | PC-TENDON | NUMBER | ]unit | no |  | 26 | 26 | 26 | 26 | 26 | 26 | 12 | 121 | 26 | 206 |
|  |  | LENGTH | unit length | m |  | 8.830 | 4.440 | 2.080 | 5.830 | 5.830 | 4.440 | 2.080 | 2.080 | 5.830 | 41.44 |
|  |  | HNTEG.L | SUM | m |  | 229.580 | 115.440) | 54.080 | HHH\#\# | 151.580 | 115.440 | 24.960 | 24.960 | 151.5801 | 1019.2 |
|  |  | INTEG.W | SUM | If |  | 0.379 | 0.191 | 0.089 | 0.250 | 0.250 | 0.191 | 0.041 | 0.041 | 0.250 | 1.682 |
|  | SHEATH | GIRDER SPACE | metal | m |  | 57.201 | 28.90 | 10.40 | 36.40 | 36.40 | 28.90 | 4.301 | 4.801 | 36.40 | 244.2 |
|  | GROUT | THROUGH | >20 K | m |  | 229.60 | 115.40 | 54.1 | 151.60 | 151.60 | 115.40 | 25.00 | 25.00 | 151.60 | 1019.3 |
| $\begin{aligned} & 4 \text { AISCILL } \\ & \text { ANEOUS } \end{aligned}$ | ROADWAY | PAVEMENT | 50 to $160 \mathrm{~m} / \mathrm{m}$ ] | $\mathrm{m}^{3}$ |  | 9.4 | 4.4 | 1.4 | 5.6 | 5.85 | 4.4 | 1.2 | 1.2 | 6.2 | 39.65 |
|  | SIDE WALK | PAVEMENT | $130 \mathrm{~m} / \mathrm{m}$ | $\mathrm{m}^{3}$ |  | 0.75 |  |  |  |  |  |  |  |  | 0.75 |
|  |  | SUB-CONCRETE | 118 K class | $\mathrm{m}^{2}$ |  | 6.7 |  |  |  |  |  |  |  |  | 13.4 |
|  |  | SIDE BLOCK | curb-stone | m |  | 31.6 |  |  | . |  |  |  |  |  | 63.2 |
|  |  | FILLING MOR | morar | $\mathrm{m}^{\text {² }}$ |  | 0.322 |  |  |  |  |  |  |  |  | 0.64 |
|  | GUARD RAIL | CONCRETE | 24K ciass | $\mathrm{m}^{3}$ |  | 12.70 | 7.10 | 5.1 | 15.60 | 13.10 | 7.10 | 4.40 | 4.40 | 13.80 | 83.3 |
|  |  | FORM | wrood/metn! | $\mathrm{m}^{2}$ |  | 86.30 | 58.50 | 36.6 | 86.60 | 74.70 | 58.50 | 31.70 | 31.70 | 78.91 | 543.51 |
|  |  | RE-BAR | D13 | ff |  | 0.600 | 0.336 | 0.238 | 0.734 | 0.61 | 0.336 | 0.205 | 0.205 | 0.6501 | 3.914 |
|  |  | STEEL RAIL | 22 dia. 76.3 | m |  | 31.601 | 31.60 |  | 31.60 | 28.20 | 31.60 |  |  | 29.80 | 184.4 |
|  |  | STEEL RAIL | pedestrian | m |  |  |  | 29.20 |  |  |  | 25.20 | 25.20 |  | 79.6 |
|  | DRAINAGE | NUMBER | ishaped stee! | no |  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 36 |
|  | E.PANTION | STEEL TYPE | 2-angles | m |  |  |  | 5.00 |  |  |  | 5.00 | 5.00 |  | 15 |
|  |  | RUBBER TYPE | rubber joint | m |  | 19.20 | 9.20 |  | 13.20 | 13.20 | 9.20 |  |  | 13.20 | 77.2 |
|  | BEARING | RUBBER TYPE | 150*33 | m |  | 17.90 | 9.12 | 4.40 | 11.90 | 11.90 | 9.12 | 4.40 | 4.40 | 11.90 | 85.04 |
|  |  | ANCHOR BAR | number | no |  | 22. | 10 | 4 | 14 | 14 | 10 | 4 | 4 | 14 | 96 |
|  |  | SEAT MORTAR | 200*60 | $\mathrm{m}^{3}$ |  | 0.21 | 0.11 | 0.05 | 0.14 | 0.14 | 0.11 | 0.05 | 0.05 | 0.14 | 1 |

Tabic BILL OF QUANTITIES OF SUPERSTRUCTURE (7/9) CENGKARENG $2 / 2$

| STRUCTURE |  |  | SPEC | UNTT | BCM 11 | BCM 121 | 2CM 13 | SCM 14 | SUB |  |  |  |  |  | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. MAIN GIRDER |  | NUMBER | Unit | no | 16 | 16. | 10 | 12 | 54 |  |  |  |  |  | 111 |
|  |  | CONCRETE | sok class | $\mathrm{m}^{3}$ | 64.87 | 64.87 | 23.39 | 36.20 | 189.3 |  |  |  |  |  | 433.73 |
|  |  | PC-TENDON | SWPR7BN | tf | 3.990 | 3.990 | 1.84 | 2.048 | 11.87 |  |  |  |  |  | 26.344 |
|  |  | RE-BAR | D10 | tf | 3.380 | 3.380 | 0.75 | 0.832 | 3.342 |  |  |  |  |  | 20.127 |
|  |  | FORM | metal | $\mathrm{m}^{2}$ | 704.330 | 704.330 | 194.14 | 216.50 | 1819 |  |  |  |  |  | 4402.23 |
|  |  | SHEATH | metal | m | 269.90 | 269.90 | 99.87 | 111.4 | 751.1 |  |  |  |  |  | 1539.78 |
| 2. FORMNG |  | CONCRETE | 24 K class | $\mathrm{m}^{3}$ | 13.20 . | 13.20 | 4.74 | 5.6 | 36.74 |  |  |  |  |  | 82.81 |
|  |  | FORM | heef in place | $\mathrm{m}^{2}$ | 16.44 | 16.44 | 7.75 | 8.80 | 49.43 |  |  |  |  |  | 104.55 |
| $\begin{aligned} & 3 \text { CROSS } \\ & \text { GIRDER } \end{aligned}$ | PC-TENDON | NUMBER | unit | no | 26 | 26 | 121 | 16 | S0 |  |  |  |  |  | 286 |
|  |  | LENGTH | unit length | m | 11.830 | 11.8301 | 7.330 | 8.830 | 39.82 |  |  |  |  |  | 81.26 |
|  |  | INTEG. L | ISUM | m | 307.580 | 307.580 | 87.960 | 142.800 | 845.9 |  |  |  |  |  | 1865.12 |
|  |  | InTEG. W | SUM | tf | 0.508 | 0.508 | 0.145 | 0.233 | 1.394 |  |  |  |  |  | 3.076 |
|  | SHEATH | GIRDER SPACE | meta! | m | 78.00 | 78.00 | 21.60 | 35.20 | 212.8 |  |  |  |  |  | 457 |
|  | GROUT | THROUGH | >20K | m | 307.6 | 307.6 | 88.0 | 141.30 | 844.5 |  |  |  |  |  | 1863.8 |
| 4 MISCILLANEOUS | ROADWAY | PAVEMENT | $50.0160 \mathrm{~m} / \mathrm{m}$ | $\mathrm{m}^{3}$ | 17.5 | 17.5 | 6.8 | 6.3 | 48.1 |  |  |  |  |  | 87.75 |
|  | SIDE WALK | TPAVEMENT | $130 \mathrm{~m} / \mathrm{m}$ | m' |  |  |  | 0.50 | 0.5 |  |  |  |  |  |  |
|  |  | SUB-CONCRETE | 18K class | m |  |  |  | 4.5 |  |  |  |  |  |  | 4.5 |
|  |  | SIDE BLOCK | curb-stone | m |  |  |  | 21 |  |  |  |  |  |  | 21 |
|  |  | FILLING MOR | morrar | $\mathrm{m}^{3}$ |  |  |  | 0.22 |  |  |  |  |  |  | 0.22 |
|  | GUARD RAIL | CONCRETE | 24 K class | $\mathrm{m}^{3}$ | 11.07 | 11.07 | 10.22 | 7.20 | 39.56 |  |  |  |  |  | 122.86 |
|  |  | FORM | \|wood/meta! | $\mathrm{m}^{2}$ | 73.49 | 73.49 | 59.08 | 53.40 | 259.5 |  |  |  |  |  | 802:97 |
|  |  | RE-EAR | D13 | :f | 0.52 | 0.52 | 0.50 | 0.338 | 1.878 |  |  |  |  |  | 5.792 |
|  |  | STEEL RAIL | 2 dia. 76.3 | m | 30.20 | 30.20 | 22.60 | 21.00 | 104 |  |  |  |  |  | 288.4 |
|  |  | STEEL RAIL | pedestrian | m |  |  |  |  |  |  |  |  |  |  |  |
|  | DRAINAGE | NUMBER | shaped stee! | no | 4 | 4 | 4 | 4 | 16 |  |  |  |  |  | 52 |
|  | EXPANTION | STEEL TYPE | 2-angles | m |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  | RUBBER TYPE | rubber ioint | m | 24.40 | 24.40 | 16.40 | 19.20 | 84.4 |  |  |  |  |  | 171.6 |
|  | BEARING | RUBBER TYPE | $150 * 33$ | m | 23.20 | 23.90 | 14.90 1 | -17.90 | 80.6 |  |  |  |  |  | 165.64 |
|  |  | ANCHOR BAR | number | no | 30 | 30 | 18 | 22 | 100 |  |  |  |  |  | 196 |
|  |  | SEATMORTAR | 200*60 | $\mathrm{m}^{3}$ | 0.29 ! | 0.29 | 0.05 | 0.2i | 0.84 |  |  |  |  |  | 1.84 |

Table BILL OF QUANTITIES OF SUPERSTRUCTURE (8/9)

| STRUCTURE |  |  | SPEC | UNIT | 3GM ! | BGM 2 | BGM 3 | BGM 4 | BGM 5 | BGM 6 | BGM 7 | BGM 8 | BGM 9 | BGM 101 | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. MAN GIRDER |  | NUMBER | Unit | no | 12 | 12. | $3 \cdot$ | 8. | 6 | 6 | 61 | 8 | 8 | 4 | 73 |
|  |  | CONCRETE | 50 K class | $\mathrm{m}^{3}$ | 28.10 | 28.101 | 11.90 | 37.50 | 28.10 | 28.10 | 28.10 | 37.50 | 37.501 | 19.70 | 284.6 |
|  |  | PC-TENDON | SWPR7BN | tf | 1.670 | 1.670 | 0.678 | 2.227 | 1.670 | 1.6701 | 1.670 | 2.227 | 2.227 | 1.113 | 16.822 |
|  |  | RE-bAR | D10 | fi | 1.1971 | 1.197 | 0.5991 | 1.596 | 1.197 | 1.197 | 1.197 | 1.5961 | 1.596 | 0.798 | 12.17 |
|  |  | FORM | metal | $\mathrm{m}^{2}$ | 313.700 | 313.700 | 129.70 | 418.20 | 313.70 | 313.70 | 313.70 | 418.201 | 418.20 | 221.50 | 3174.3 |
|  |  | SHEATH | meta! | m | 90.50 | 90.50 | 45.20 | 120.0 | 90.50 | 90.50 | 90.50 | 120.0 | 120.0 | 60.30 | 918 |
| 2. FORMING |  | CONCRETE | 24 K class | $\mathrm{m}^{3}$ | 12.10 | 12.10 | 1.60 | 7.70 | 6.50 | 6.501 | 6.50 | 7.70 | 7.70 | 3.60 | 72 |
|  |  | FORM | ieft in place | $\mathrm{m}^{2}$ | 12.60 | 12.60 | 2.20 | 8.00 | 7.60 | 7.60 | 7.60 | 8.00 | 8.00 | 3.50 | 77.7 |
| $\begin{aligned} & 3 \text { CROSS } \\ & \text { GIRDER } \end{aligned}$ | PC-TENDON | NUMBER | unit | no | $26]$ | 26 | 26 | 261 | 26 | 26 | 26 | 26 | 26 | 261 | 260 |
|  |  | LENGTH | unit length | m | 3.830 | 8.830 | 2.080 | 5.830 | 4.44 | 4.44 | 4.44 | 5.830 | 5.830 | 2.830 | 53.38 |
|  |  | INTEG. L | SUM | \% | 229.580 | 229.580 | 54.080 | 151.5801 | HIHHH | 114.440 | 114.440 | 151.580 | 151.580 | 73.580 | 1384.88 |
|  |  | INTEG. W | SUM | tf | 0.38 | 0.38 | 0.089 | 0.25 | 0.191 | 0.191 | 0.191 | 0.25 | 0.25 | 0.122 | 2.294 |
|  | SHEATH | GIRDER SPACE | metal | m | 57.200 | 57.200 | 10.4 | 36.401 | 28.90 | 28.90 | 28.90 | 36.40 | 36.40 | 15.60 | 336.3 |
|  | GROUT | THROUGH | >20 K | m | 2299.6 | 2299.6 | 54.10 | 151.60 | 115.40 | 115.40] | 115.40 | 151.601 | 151.60 | 73.601 | 5527.9 |
| $\begin{aligned} & \text { ANSCILL } \\ & \text { ANEOUS } \end{aligned}$ | ROADWAY | PAVEMENT | 50 to $160 \mathrm{~m} / \mathrm{m}$ | $\mathrm{m}^{3}$ | 9.41 | 9.4 | 1.5 | 6.6 | 4.41 | 4.4 | 4.4 | 6.71 | 6.7 | 3.0 | 56.5 |
|  | SIDE WALK | PAVEMENT | $30 \mathrm{~m} / \mathrm{m}$ | $\mathrm{m}^{3}$ | 0.8 | 0.81 |  |  |  |  |  |  |  |  | . 6 |
|  | GUARD RAIL | SUB-CONCRETE | 18 K class | $\mathrm{m}^{3}$ | 6.701 | 6.701 |  |  |  |  |  |  |  |  | 13.4 |
|  |  | SIDEBLOCK | curb-stone | m | 31.60 | 31.601 |  |  |  |  |  |  |  |  | 63.2 |
|  |  | FILLINGMOR | mortar | m | 0.332 | 0.332 |  |  |  |  |  |  |  |  | . 604 |
|  |  | CONCRETE | 24K class | $\mathrm{m}^{3}$ | 12.7 | 12.7 | 5.70 | 15.60 | 7.10 | 7.10 | 7.10 | 15.60 | 15.60 | 12.20 | 111.4 |
|  |  | FORM | wood/metal | $\mathrm{m}^{2}$ | 86.3 | 86.3 | 41.20 | 86.60 | 58.50 | 58.50 | 58.50 | 86.60 | 86.60 | 86.20 | 735.3 |
|  |  | RE-BAR | D13 | if | 0.600 | 0.600 | 0.271 | 0.734 | 0.336 | 0.336 | 0.336 | 0.734 | 0.734 | 0.5760 | 5.757 |
|  |  | STEEL RAIL | 2 dia. 76.3 | m | 31.6 | 31.6 |  | 31.6 | 31.60 | 31.60 | 31.60 | 31.6 | 31.6 | 31.60 | 284.4 |
|  |  | STEEL RAIL | pedestrian | m |  |  | 31.6 |  |  |  |  |  |  |  | 31.6 |
|  | $\frac{\text { DRAINAGE }}{\text { EXPANTION }}$ | NUMBER | shaped steel | no | 4 | 4 | - 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 38 |
|  |  | STEEL TYPE | 2-angles | m |  |  | 5 |  |  |  |  |  |  |  | 5 |
|  |  | RUBBER TYPE | rubber joint | m | 19.20 | 19.20 |  | 13.20 | 9.20 | 9.20 | 9.20 | 13.20 | 13.20 | 7.0 | 112.6 |
|  | BEARING | RUBBER TYPE | $150 * 33$ | m | 17.90 | 17.90 | 4.40 | 11.90 | 9.12 | 9.12 | 9.12 | 11.90 | 11.90 | 5.90 | 109.16 |
|  |  | ANCHOR BAR | number | no. | 22 | 22 | 4 | 14 | 10 | 10 | 10 | 14 | 14 | 6 | 126 |
|  |  | SEAT MORTAR | 1200*60 | $\mathrm{m}^{3}$ | 0.21 | 0.21 | 0.05 | 0.14 | 0.11 | 0.11 | 0.11 | 0.14 | 0.14 | 0.07 | 1.29 |

Table BILL OF QUANTITIES OF SUPERSTRUCTURE (9/9)
GROUND TOTAL OF SUPER STRUCTURE
ROUND TOTAL OF SUPER STRUCTURE

Bill of Quantity of Substructure(1/9)

Bill of Quantity of Substructure(2/9)
A. Pre-Ten Girder Bridge
KAMAL (BRANCH) $1 / 2$

Bill of Quantity of Substructure(3/9)
A. Pre-Ten Girder Bridge
KAMAL (BRANCH) 2/2

|  |  |  |  | BKE 11 | BKE 12 | BKE 13 | BKE 14 | BKE 15 | BKE 16 | 8KE. 17 | 8KE 18. | SU8 | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Cancel |  |  |  |  |  |  | TOTAL |  |
| 1. HAMMER HEAD |  | SPEC | UNIT |  |  |  |  |  |  |  |  |  |  |
|  | CONCRETE | 124 K class | $\mathrm{m}^{2}$ | 14.6 |  | 35.1 | 3.8 | 9.8 | 7.3 | 7.3 | 14.6 | 83.9 | 249.8 |
|  | RE-SAR | D-10.12 | tf | 0.549 |  | 0.954 | 0.363 | 0.363 | 0.287 | 0.287 | 0.549 | 2.803 | 8.94 |
|  |  | D-25 | if | 1.017 |  | 1.738 | 0.697 | 0.697 | 0.523 | 0.523 | 1.017 | 5.195 | 14.5:1 |
|  | FORM |  | $\mathrm{m}^{2}$ | 35.4 |  | 56.2 | 26.2 | 26.2 | 21.9 | 21.9 | 35.4 | 187.8 | 588 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. PILE |  | SPEC | UNIT |  |  |  |  |  |  |  |  |  |  |
|  | ¢ $0.350-\mathrm{A}$ | Number | no | 12 |  | 81 | \& | 8 | 4 | 4. | 12 | 44 | 122 |
|  |  | Unit Lensth |  | 11.50 |  | 11.50 | 14.50 | 17.50 | 17.50 | 17.50 | 17.50 | 96 | 215.00 |
|  |  | IELongth | m | 138.0 |  | 92.0 | 116.01 | 140.0 | 70.0 | 70.0 | 210.0 | 698.0 | 1619.0 |
|  | © 350-8 | Number | no |  |  | 6. |  |  | 2 | 2. |  | 10 | 42 |
|  |  | Unit Leneth | m |  |  | 11.50 |  |  | 17.50 | 17.50 |  | 46.50 | 120.50 |
|  |  | ELength | m |  |  | $69.0 \mid$ |  |  | 35.0 | 35.0 |  | 139.0 | 533.0 |
|  | D 400-8 | Number | no |  |  |  |  |  |  |  |  |  |  |
|  |  | Unit Loneth | $m$ |  |  |  |  |  |  |  |  |  |  |
|  |  | 1 2 Length | m |  |  |  |  |  |  |  |  |  |  |
| 3. CUSHION SLAB |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | SPEC | UNiT |  |  |  |  |  |  |  |  |  |  |
|  | CONCRETE | $24 \times$ class | $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |  |  |  |
|  | RE-8AR | DS15 | tif |  |  |  |  |  |  |  |  |  | - |
|  |  | D $>15$ | ${ }^{\text {t }}$ |  |  |  |  |  |  |  |  |  |  |
|  | FORM | , | $\mathrm{m}^{2}$ |  |  |  |  |  |  |  |  |  |  |

## Bill of Quantity of Substructure(4/9)

A. Pre-Ten Girder Bridge

## TANJUNGAN $1 / 1$


Bill of Quantity of Substructure(5/9)
A. Pre-Ten Girder Bridge
PIK JUNCTION (BNM)


Bill of Quantity of Substructure(7/9)
A. Pre-Ten Girder Bridge
CENGKARENG $2 / 2$

Bill of Cuantity of Substrueture (9/9)

APPROACHROAD


| Kamal (MAIM) |  |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  | $\begin{gathered} \text { Rema- } \\ \mathrm{ixss} \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bndge | FC | Widh | $\frac{G a p}{6}$ | $0^{0.5}{ }^{\circ} \mathrm{G}$ | Road |  |  | N003 |  | $\mathrm{N} 004_{\text {B/C Hem }}$ |  | No05 |  | No06 |  |  |
|  |  |  |  |  | Main | Brancil |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | L-1 | L-2 | SUML | A1 | A19L | A2 | A2 2 L | H1 | H12L | ${ }^{\text {a }}$ | АЗ |  |
| BXM : | в | $4.60 \cdot \mathrm{~V}$ | 1.373 | 0.687 | 73.03 | 30.51 | 103.54 | 4.86 | 482.50 | 11.87 | 1229.02 |  | 0.00 | 0.58 | 60.05 |  |
| BKM: 2 | 8 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BXM 3 | B |  | 1.797 | 0.892 | 60.51 | 139.53 | 200.04 | 4.86 | 372.19 | 13.87 | 2774.55 |  | 0.00 | 0.00 | 180.04 |  |
| BKM 4 | p | 2.50 | 2.13 | 1.065 |  | 2.00 | 2.00 | 5.31 | 47.79 | 18.67 | 168.03 |  | 0.00 | 0.54 | 4.82 |  |
| BKM 5 | ${ }_{\mathrm{B}}^{\mathrm{SK})}$ | $\begin{gathered} (7.0) \text { (Winit } \\ 9.60 \mid-2 \end{gathered}$ | 1.159 | 0.580 | 135.60 |  | 135.60 | 4.57 | 619.69 | 10.67 | 1446.85 |  | 0.00 | 0.46 | 62.381 |  |
| BKM 6 | P | 2.50 | 1.569 | 0.785 |  | 6.40 | 6.40 | 4.86 | 32.10 | 13.33 | 85.34 |  | 0.00 | 4.69 | 30.02 |  |
| EKM 7 | p | 2.50 | 2.087 | 1.044 |  | 8.40 | 8.40 | 5.14 | 43.18 | 17.33 | 145.57 |  | 0.00 | 5.14 | 43.18 |  |
| BSM 8 | a | $4.600_{-1}^{17}$ | 2.106 | 1.053 | 86.80 |  | 86.30 | 5.24 | 446.15 | 17.30 | 1501.64 |  | 0.00 | 1.20 | 104.16 |  |
| BKM 9 | 9 | 2.50 | 1.575 | 0.788 |  |  | 0.00 | 5.03 | 0.00 | 13.33 | 0.00 |  | 0.00 | 4.57 | 0.00 |  |
|  |  | (7.0) 11011 |  |  |  |  | 263.50 | 4.86 | 1280.61 | 14.00 | 3639.00 |  | 0.00 | 1.00 | 263.50 |  |
| BKM 10 | 8 | 9.601-2 | 1.832. | 0.916 | 263.50 |  |  |  |  |  |  |  |  |  |  |  |
| gekr 1 | 3 | $\begin{gathered} (7.00)[1 / 71111 \\ 0.00 \mid-2 \end{gathered}$ | 1.127 | 0.714 | 321.10 |  | 321.0 | 4.62 | 1505.96 | 12.00 | 3853.20 |  | 0.00 | 0.67 | 215.14 |  |

APPROACH ROAD
APPROACF ROAD
Table $8[1 / L$ OF QUANTITY (ITEM NO 4.3.03,04,05,06)
KAMAL(BRANCH)

| Noot: | 11 |  | 3 |  | 4 |  |  | 5 |  |  |  |  |  |  |  | $\begin{aligned} & \text { Rema- } \\ & \text { rkss } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Srige | FC | Wiath | Gap |  | Road |  |  | N003 |  | Noo4 B/Q lem |  | No0s |  | N006 |  |  |
|  |  |  | G | $0.5{ }^{\circ} \mathrm{G}$ | Main | Brancil |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | L-1 | L-2 | SUML | A1 | A19 | A2 | ${ }^{\text {A } 2}{ }^{-}$ | $\mathrm{H}_{1}$ | HiN | A3 | $\mathrm{A}^{\circ} \mathrm{L}$ |  |
| BRE ${ }^{\text {a }}$ | [ ${ }^{\cdots}$ | 3.00 - | 1.742 | 0.871 | 77.42 |  | 77.42. | 4.86 | 376.26 | 14.40 | 1144.85 |  | 0.00 | 0.87 | 67.36 |  |
| BKE 2 | B | $4.60-1$ | 1.530 | 0.765 | 76.00 | 188.65 | 264.65 | 4.80 | 1270.32 | 12.53 | 3316.06 |  | 0.00 | 0.70 | 185.26 |  |
| BKE 3 | $\begin{aligned} & (\text { SK }) \\ & 8 \end{aligned}$ | $\begin{array}{r} \text { Miviv } \\ 6.601-3 \end{array}$ | 1.393 | 0.697 | 86.51 |  | 86.51 | 4.77 | 412.65 | 12.00 | 1038.12 |  | 0.00 | 0.60 | 51.91 |  |
| BKE 4 | 8 | $\begin{aligned} & \text { IIIVIV } \\ & 6.60 \mid-3 \\ & \hline \end{aligned}$ | 1.829 | 0.915 | 108.3: |  | 108.31 | 4.86 | 526.39 | 14.67 | 1588.91 |  | 0.00 | 0.92 | 99.65 |  |
| 8xEs | 8 | $6.601-3$ | 1.849 | 0.925 | 103.14 | 50.29 | 153.43 | 4.86 | 745.67 | 14.67 | 2250.82 |  | 0.00 | 0.94 | 144.22 |  |
| BXE 6 | 8 | $4.60{ }^{\text {IV }}$ | 1.852 | 0.226 | 22.98 | 85.86 | 178.84 | 4.86 | 869.16 | 14.67 | 2623.58 |  | 0.00 | 0.94 | 168.14 |  |
| BKE 7 | в | $6.60 \mid-3$ | 2.011 | 1.006 | 189.21 | 100.28 | 289.42 | 5.14 | 1487.98 | 15.74 | 4556.57 |  | 0.00 | 0.07 | 20.26 |  |
| BKE 8 | B | 2.50 | 1.854 | 0.927 |  | 7.40 | 7.40 | 4.86 | 35.96 | 14.68 | 108.63 |  | 0.00 | 0.42 | 3.60 |  |
| BXE 9 | B | $\frac{1 V}{12}$ | 2.543 | 0.772 | 77.58 | 34.29 | 112.87 | 4.80 | 536.88 | 13.07 | 1462.14 |  | 0.00 | 0.71 | 79.43 |  |
| BNE 10 | 8 | $\frac{4.001-1}{6.60 \mid-3}$ | 1.832 | 0.916 | 171.68 | 100.28 | 271.96 | 4.86 | 1321.73 | 14.67 | 3989.65 |  | 0.00 | 0.92 | 250.20 |  |
| BXE : | ${ }_{8}$ | $\frac{6.60] \cdot 3}{4.60 \cdot 1} \frac{\mathrm{IV}}{4 \mathrm{~V}}$ | 1.84 | 0.71 | 94.11 | 67.42 | 16:.53 | 4.71 | 760.81 | 12.00 | 1238.36 |  | 0.00 | 0.62 | 100.15 |  |

APPROACH ROAD
(ちI/E) WB 1 NOWWOS
Table BLLL OF QUANTITY (ITEM NO $4.3 .03,04,05,06$ )

| No of: |  | 2 | 3 |  | 4 |  |  | 5 |  |  |  |  |  |  |  | $\begin{gathered} \text { Rema- } \\ \text { iks } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bridge | FC | Width | Gap |  | Road |  |  | B/Q fiem |  |  |  |  |  |  |  |  |
|  |  |  | G | $0^{0.5 *}$ | Main | Branch |  | N003 |  | NoO4 |  | Noos |  | Noos |  |  |
|  |  |  |  |  | L-1 | L. 2 | SUML | A1 | A1" | A2 | A2*L | H1 | H1* | A3 | A3 ${ }^{\circ}$ |  |
| SKE 12 | B | $8.20{ }^{10 / 1 \mathrm{~V}}$ | $1.4 \%$ | 0.748 |  |  | 0.00 |  | 0.00 |  | 0.00 |  | 0.00 |  | 0.0 |  |
| BKE 13 | 8 | $8.20 \left\lvert\, \begin{gathered} 1 \mathrm{I} / \mathrm{I} \mathrm{~V} \\ \hline \end{gathered}\right.$ | 1.248 | 0.624 | 62.40 |  | 62.40 | 4.57 | 285.17 | 11.46 | 715.10 |  | 0.00 | 0.50 | 31.20 |  |
| BKE 14 | B | $3.00 \mathrm{I}_{\mathrm{IV}}^{\mathrm{V}}$ | 2.204 | 1.102 | 93.80 | 79.70 | 173.50 | 5.14 | 891.79 | - 18.67 | 3239.25 |  | 0.00 | 1.37 | 237.70 |  |
| SRE IS | B | $3.00 \mathrm{I}_{\mathrm{IV}}^{\mathrm{S}}$ | 2.131 | 1.066 | 87.36 |  | 87.36 | 5.09 | 444.66 | 17.33 | 1513.95 |  | 0.00 | 1.23 | 107.45 |  |
| BXE 16 | 19 | 2.50 | $2.16+1$ | 1.082 |  | 4.30 | 4.30 | 5.09 | 21.89 | 17.87 | 76.84 |  | 0.00 | 5.43 | 23.35 |  |
| SKE 17 | P | 2.50 | 1.900 | 0.950 |  | 3.80 | 3.80 | 4.86 | 18.47 | 14.80 | 56.24 |  | 0.00 | 4.86 | 18.47 |  |
| BKE :8 | 8 | $\left.4.60\right\|_{-1} ^{\text {IV }}$ | 2.148 | 1.074 | 87.73 |  | 87.73 | 5.14 | 450.93 | 18.13 | 1500.54 |  | 0.0 | 1.23 | 107.91 |  |
| BKE 19 | $\begin{aligned} & \text { (SL) } \\ & \hline \end{aligned}$ | $4.60 \mathrm{IV}$ | . |  |  |  | $\cdots$ |  |  |  |  |  |  |  |  |  |
| BRE 20 | $\begin{array}{\|l} (\mathrm{SL}) \\ \mathrm{B} \end{array}$ | 4.60 -19 | . |  |  |  |  |  |  |  |  |  |  |  |  |  |

APPROACH ROAD

| Noort | 1 | 2 |  | 3 |  | 4 |  |  | 5 |  |  |  |  |  |  |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bridge | FC | Widh |  | Gsp |  | Road |  |  | N003 |  | $\mathrm{NOOL}^{\text {B/Q leen }}$ |  | NoOS |  | N006 |  |  |
|  |  |  |  | G | $0.5{ }^{\circ} \mathrm{G}$ | Main | Branch | SUM L |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | L-1 | L-2 |  | ${ }^{1} 1$ | A1*: | A2 | A2*L | H1 | H1* | A3 | A3 ${ }^{-}$ |  |
| 87M 1 | B | 6.60 | $\left.\right\|_{-3} ^{11 / 1 V}$ | 1.968 | 0.984 |  |  | 0.00 | 4.86 | 0.001 | 15.20 | 0.00 |  | 0.00 | 1.07 | 0.00 |  |
| BTM 2 | N/A | - |  |  |  |  |  | 0.00 |  | 0.00 |  | 0.00 |  | $0.00)$ |  | 0.00 |  |
| BTM 3 | 8 | $\begin{gathered} 8.00) \\ 10.60 \end{gathered}$ | ${ }_{-2}^{1}$ | 1.945 | 0.973 | 166.93 | 46.25 | 213.18 | 4.86 | 1036.05 | 15.20, | 3240.34 |  | 0.001 | 1.00 | 213.18 |  |
| BTM 4 | 12 | 12.20 | ${ }_{\text {II }}$ | 2.065 | 1.033 | 68.93 |  | 68.931 | 5.14 | 354.30 | 15.86 | 1093.23 |  | 0.00 | 1.20 | 82.72 |  |
| BTM 5 | $\begin{aligned} & (\mathrm{SK}) \\ & \mathrm{B} \\ & \hline \end{aligned}$ | 12.20 | ${ }^{11}$ | 2.023 | 1.012 | 67.43 |  | 67.43 | 5.00 | 337.15 | 15.60 | 1051.91 | - | 0.00 | 1.13 | 76.20 |  |


| Noof: | 1 | 2. | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Eridge | FC | Wida | Gap |  | Road |  |  | B/Q liem |  |  |  |  |  |  |  | $\begin{gathered} \text { Rema- } \\ \text { rks } \end{gathered}$ |
|  |  |  | G | $0^{0.5}{ }^{\circ} \mathrm{C}$ | Main | Branch | SUML | No03.. |  | N004 |  | NoOS |  | N006 |  |  |
|  |  |  |  |  | L-1 | L-2 |  | A1 | A1*L | A2 | $A 2^{\circ} \mathrm{L}$ | H1 | H1* | A3 | A $3^{\circ} \mathrm{L}$ |  |
| SNM ! | 8 | $\left.8.20\right\|_{-1} ^{I / I I!}$ | 1.762 | 0.881 |  |  |  |  |  |  |  |  |  |  |  |  |
| BMM 2 | 18 | $+60 \int_{-1}^{1 V}$ | 1.483 | 0.742 |  |  |  |  |  |  |  |  |  |  |  |  |
| SNM 3 | 8 |  | 2.426 | 1.213 |  | $\cdots$ |  |  |  |  |  |  |  |  |  |  |
| BNM 4 | B | 12.20\| | 1.802 | 0.901 |  |  |  |  |  |  |  |  |  |  |  |  |



| APPROACH ROAD <br> COMMON ITEM (5/44) <br> Tabic BLL OF QUANTITY (ITEM NO $4.3,03,04,05,06$ ) <br> SALURAN CENGKARENG |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Noor: | Il | 2 | 3 |  | 4 |  |  |  |  |  | $5$ |  |  |  |  |  |
| Sridge | FC | Width |  |  | Road |  |  | B/Qliem |  |  |  |  |  |  |  | $\begin{gathered} \text { Rema- } \\ \text { riss } \\ \hline \end{gathered}$ |
|  |  |  |  |  | Masin | Branch | SUML | NoO3 |  | N004 |  | No0s |  | No36 |  |  |
|  |  |  |  |  | L-1 | L-2 |  | A1 | A1* | A2 | A2* | H1 | H1*L | A3 | A3* |  |
| BCM : | 8 | $\begin{aligned} & -7 \mathrm{IIM} \mathrm{M} \\ & 9.60 \mid-2 \end{aligned}$ | 1.04 | 0.52 | 144.60 |  | :14.60 | 4.57 | 523.72 | 9.60 | 1100.16 |  | 0.00 | 0.33 | 37.82 |  |
| BCM 2 | 3 | $(7.00)$ $9.60]_{-3}^{11 / 14}$ | 1.941 | 0.971 | 181.58 | 97.05 | 278.63 | 4.97 | 1384.79 | 14.93 | 4159.95 |  | 0.01 | 1.00 | 278.63 |  |
| BCM 3 | 8 | $\begin{array}{r} \text { IV } \\ \therefore .60 \text { - } 1 \\ \hline \end{array}$ | 1.544 | 0.772 | 77.20 |  | 77.20 | 4.86 | 375.19 | 12.80 | 288.16 |  | 0.00 | 0.77 | 59.44 |  |
| SCM 4 | P | 2.50 | 1.376 | 0.688 |  | 5.60 | 5.60 | 4.80 | 26.88. | 12.00 | 67.20 |  | 0.00 | 4.49 | 25.14 |  |
| BCM 5 | 18 | $\lim _{6.60}$ | 1.412 | 0.706 | 63.30 | 150.38 | 213.681 | 4.80 | 1025.66 | 12.00 | 2564.16 |  | 0.00 | 0.57 | 121.80 |  |
| BCM 6 | 8 | $\begin{aligned} & 11 / 1 / 2 \mathrm{~V} \\ & 6.60 \cdot 3 \\ & \hline \end{aligned}$ | 1.801 | 0.901 | 20.05 | 45.03 | 135.08 | 5.00 | 675.40 | 14.67 | 1981.62 |  | 0.00 | 0.93 | 125.62 |  |
| BCM 7 | P | 2.50 | 2.564 | 1.282 |  | 10.40 | 10.40 | 5.66 | 58.86 | 24.00 | 249.60 |  | 0.00 | 6.28 | 65.31 |  |
| BCM 8 | $p$ | 2.50 | 2.103 | 1.052 |  | 8.40 | 8.40 | 5.14 | 43.18 | 16.00 | 134.40 |  | 0.00 | 5.09 | 42.76 |  |
| BCM 9 | ! 9 | 2.50 | 2.596 | 1.298 |  | 10.40 | 10.40 | 5.71 | 59.38 | 25.33 | 263.43 |  | 0.00 | 6.43 | 66.87 |  |
| BCM 10 | 8 | $\left.6.00\right\|_{-3} ^{11 / 2 V}$ | 2.307 | 1.154 | 107.67 | 53.83 | 161.50 | 5.37 | 867.26 | 20.27 | 3273.61 |  | 0.00 | 1.67 | 237.41 |  |
| 8CM 11 | B | 12.20 ${ }^{\text {! }}$ - 3 | 0.973 | 0.487 | 77.84 | 38.22 | 116.76 | 4.51 | 526.59 | 2.33 | 1089.37 |  | 0.00 | 0.30 | 35.03 |  |
| 8CM 12 | 8 | $12.20 .-3$ | 2.351 | 1.176 | 77.84 |  | 77.84 | 5.37 | \$18.00 | 20.00 | 1556.80 |  | 0.00 | 1.52 | 118.32 |  |
| BCM 13 | 8 | $8.20 \mathrm{IV} \cdot 1$ | 0.846 | 0.423 | 56.40 |  | 56.40 | 4.50 | 253.80 | 2.07 | 511.55 |  | 0.00 | 0.30 | 16.92 |  |
| BCM 14 | B | (7.00) $]^{111 / 11}$ $9.60 \cdot-3$ | 0.828 | 0,414 | 55.20 | 27.60 | 82.80 | 4.50 | 372.60 | 2.07 | 751.00 |  | 0.00 | 0.30 | 24.84 |  |




Table BRL OF QUANTITY (ITEM NO 4.3,03,04,05,06)

| Noor: | MERUT | - 2 |  | 3 |  | 4 |  |  |  |  |  | 5 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | FC | Widh |  | Gap |  | Road |  |  | B/Q Siem |  |  |  |  |  |  |  | $\begin{gathered} \text { Rems } \\ \text { ins } \end{gathered}$ |
| Bridge |  |  |  | G | $10.5{ }^{+} \mathrm{C}$ | Main | Branch |  | No03 |  | NoO4 |  | Noos |  | No06 |  |  |
|  |  |  |  |  |  | L-1 | L. 2 | SUML | A1 | $\mathrm{Al}^{\circ} \mathrm{L}$ | A2 | $A^{2} 2^{*}$ | Hi | 49.6 | A3 | A3\% |  |
| EMM: | No | - |  |  |  |  |  |  | $\cdots$ |  | - |  |  |  |  |  |  |
| BMM2 | $\begin{aligned} & \mathrm{S}(\mathrm{SL}) \\ & \mathrm{B} \end{aligned}$ |  |  |  |  | $\cdots$ |  |  |  |  |  | - |  |  |  | -- |  |
| BMM3 | $\begin{aligned} & \text { (SL) } \\ & \hline \mathrm{B} \end{aligned}$ | 9.6 | üM |  |  |  |  |  | - |  | . |  | ..... |  | $\because$ |  |  |
| BMMs 4 | $\begin{aligned} & \text { (SL) } \\ & 8 \\ & \hline \end{aligned}$ |  | uM |  |  |  |  |  | $\because$ |  | …… |  | $\cdots$ |  |  |  |  |
| BMMS | $\begin{aligned} & \text { (SL) } \\ & 8 \\ & \hline \end{aligned}$ | 7.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SMM6 | $\begin{aligned} & (S L) \\ & B \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  | $\cdots$ |  |  |  |  |
| BMM 7 | C | 7.5 |  | - |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BMM 8 | C | 7.5 |  | - |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SMM9 9 | c | 7.5 | um | 1 |  | , |  |  |  |  |  |  |  |  |  |  |  |

APPROACH ROAD
APPROACH ROAD (TEM(S/h4)
Table BILL OF QUANTITY (ITEM NO $4.3 .07,08,00,10,11$ )
KAMAL(MAIN)

| KAMAL(MAIN) |  |  | 3 |  | 4 |  |  | 5 |  |  |  |  |  |  |  |  | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bndge | 1 | Wisth |  |  | B/Q item |  |
|  | FC |  | Gap | $0.5{ }^{-6}$ |  |  |  | Main | Branch |  | N007 |  | No0s |  | N009 |  |  | Noio |  | No11 |
|  |  |  |  |  | L. 1 | L-2 | SUML | A4 | A4*L | H2 | H20 ${ }^{\circ}$ | H3 | $\mathrm{H} 3^{\circ} \mathrm{L}$ | K | K*L | 2\%. |  |
| BSM 1 | 8 | $4.60{ }_{\text {c }}^{1 \mathrm{~T}} 1$ | 1.373 | 0.687 | 73.03 | 30.51 | r03.54 | 0.21 | 21.74 | 3.00 | 310.82 | 0.41 | 42.45 | 0.39 | 40.38 | 207.08 |  |
| BKM 2 | 8 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SKM 3 | B | $\begin{gathered} (7.0) \\ 9.60 \mid-2 \end{gathered}$ | 1.797 | 0.829 | 60.51 | 139.53 | 200.04 | 0.29 | 58.01 | 4.00 | 800.16 | 0.59 | 118.02 | 0.45 | 90.02 | \$00.08 |  |
| SBKM : | P | 2.50 | 2.13 | 1.065 |  | 9.00 | 9.0 | 0.37 | 3.33 | 37.14 | 334.26 | 0.67 | 6.03 | 0.53 | 4.77 | 18.00 |  |
| BKM 5 | $\begin{aligned} & (S K) \\ & B \end{aligned}$ | $\begin{gathered} (7.0) \\ 9,60-2 \\ \hline \end{gathered}$ | 1.159 | 0.580 | 135.60 |  | 135.60 | 0.16 | 21.70 | 4.70 | 637.32 | 0.43 | 58.31 | 0.38 | 51.53 | 271.20, |  |
| BKM 6 | P | 2.50 | 1.569 | 0.785 |  | 6.40 | 6.40 | 0.25 | 1.60 | 26.86 | 171.20 | 0.53 | 3.39 | 0.381 | 2.43 | 12.80 |  |
| BKM 7 | P | 2.50 | 2.087 | 1.044 |  | 8.40 | 8.40 | 0.35 | 2.94 | 34.29 | 288.04 | 0.67 | 5.63 | 0.53 | 4.45 | 16.80 |  |
| BKM 8 | B | $\left.4.80\right\|_{-1} ^{1 /}$ | 2.106 | 1.053 | 86.80 |  | 86.80 | 0.37 | 32.12 | 4.60 | 399.28 | 0.67 | 58.16 | 0.53 | 46.00 | 173.60 |  |
| BKM 9 | P | 2.50 | 1.575 | 0.788 |  |  | 0.00 | 0.24 | 0.00 | 25.71 | 0.00 | 0.53 | 0.001 | 0.43 | 0.00 | 0.00 |  |
| EKM 10 | B | $\begin{gathered} (7.0){ }^{10 m} 1 \mathrm{~m} \\ 9.60]_{-2} \end{gathered}$ | 1.832 | 0.916 | 263.50 |  | 263.50 | 0.31 | 81,60 | 4.00 | .1054.00 | 0.63 | 166.01 | 0.47 | 123.85 | 527.00 |  |
| BKM 11 | 8 | $\begin{gathered} \text { (7.0)] }{ }^{9.60]-2} \\ \hline 1011 \\ \hline \end{gathered}$ | 1.427 | 0.714 | 321.60 |  | 321.10 | 0.21 | 67.43 | 5.10 | 1637.6! | 0.49 | 157.34 | 0.38 | 122.02 | 642.20 |  |

Table BLLL OF QUANTITY (TTEM NO $4,3,07,08,09,10,11$ )
KAMAL

| Noor: |  | 2 | Gap |  | 4 |  |  | 5 |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { Rema- } \\ & \text { rks } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bridge | FC | Wida |  |  | Road |  | SUML | $8 / \mathrm{Cl}$ fem |  |  |  |  |  |  |  | $\begin{gathered} \text { No11 } \\ 2.2 \\ \hline \end{gathered}$ |  |
|  |  |  | G | $0.5{ }^{\circ} \mathrm{C}$ | Main | Branch |  | N007 |  | N008 |  | №09 |  | No10 |  |  |  |
|  |  |  |  |  | L-1 | L-2 |  | A4 | A4* | H2 | $\mathrm{H}^{2} \mathrm{C}^{2}$ | H3 | $\mathrm{H}_{3} \mathrm{~L}$ | K | K-L |  |  |
| BXE 1 | 8 | ${ }_{3.00}{ }^{\text {IV }}$ - | 1.742 | 0.871 | 77.42 |  | 77.42 | 0.27 | 20.20 | 3.80 | 294.20 | 0.57 | 44.13 | 0.44 | 34.06 | 154.84 |  |
| BKE 2 | B | $460 \cdot 1$ | 1.530 | 0.765 | 76.00 | 188.65 | 264.65 | 0.25 | 66.16 | 3.30 | 873.35 | 5.30 | 1402.65 | 0.43 | 123.80 | 529.30 |  |
| BKE 3 | $\begin{aligned} & \text { (SK) } \\ & \hline \end{aligned}$ | $\begin{gathered} 0.60 \cdot-3 \\ \hline 11 / 2 \mathrm{~V} \\ \hline \end{gathered}$ | 1.393 | 0.607 | 86.51 |  | 86.51 | 0.21 | :8.17 | 2.60 | 224.93 | 0.48 | 21.52 | 0.38 | 32.87 | 173.02 |  |
| BKE 4 | B | $\begin{aligned} & 6.60 \mid-3 \\ & \hline \end{aligned}$ | 1:829 | 0.915 | 108.31 |  | 108.31 | 0.32 | 34.66 | 4.00 | 433.24 | 0.59 | 63.20 | 0.44 | 27.66 | 216.62 |  |
| BKE 5 | B | $\begin{aligned} & 115 / 1 \mathrm{~V} \\ & 6.600_{-3} \end{aligned}$ | 1.840 | 0.225 | 103.14 | 50.29 | 153.43 | 0.32 | 49.10 | 4.03 | 618.32 | 0.60 | 22.06 | 0.4 | 67.51 | 306.86 |  |
|  |  | $\mathrm{S}^{\text {IV }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EXE 6 | 8 | \$.60.1 | 1.852 | 0.926 | 22.98 | 85.86 | 178.84 | 0.32 | 57.23 | 4.04 | 722.51 | 0.60 | :07.30 | 0.4 | 78.69 | 357.08 |  |
| 3KE 7 | 8 | $6.601-3$ | 2.011 | 1.006 | 189.21 | 100.28 | 289.49 | 0.35 | 101.32 | 4.40 | 1273.76 | 0.64 | 185.27 | 0.49 | 141.85 | 578.98 |  |
| BKE 8 | 8 | 2.50 | : 8.854 | 0.927 |  | 7.40 | 7.401 | 0.32 | 2.37 | 30.86 | 228.36 | 0.60 | 4.44 | 0.44 | 3.26 | 15.80 |  |
| BKE 9 | 13 | $4.60-1 \mathrm{l}$ | 1.543 | 0.772 | 77.58 | 34.29 | 111.87 | 0.25 | 27.97 | 3.40 | 380.36 | 0.53 | 59.29 | 0.43 | +8.10 | 223.74 |  |
| EKE 10 | 19 | $\begin{array}{r} \text { MIIVVIV } \\ 6.60 \mid-3 \\ \hline \end{array}$ | 1.832 | 0.916 | 171.68 | 100.28 | 271.96 | 0.32 | 87.03 | 4.00 | 1087.84 | 0.59 | 160.46 | 0.44 | 112.66 | Si3.92 |  |
| SKE 11 | 8 | $4.60-1 \mathrm{Cl}$ | 1.427 | 0.714 | 24.11 | 67.42 | 161.53 | 0.230 |  | 3.100 |  | 0.510 |  | 0.410 |  |  |  |

APPROACH ROAD
COMAC BLLLOF QUANTITY (ITEM NO $4.3,07,08,09,10,11$ )

| No or: |  | 2 | 3 |  | 4 |  |  | 5 |  |  |  |  |  |  |  |  | $\begin{gathered} \text { R } \mathrm{cma}- \\ \mathrm{rks} \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bridge | FC | (Wideh | Gap |  | Road |  |  | B/Q Item |  |  |  |  |  |  |  |  |  |
|  |  |  | G | $0.5{ }^{\circ} \mathrm{G}$ | Main | Branch |  | N007 |  | NoSS |  | No09 |  | Nolo |  |  |  |
|  |  |  |  |  | L-1 | L-2 | SUML | A4 | $\mathrm{A}^{*}{ }^{\text {a }}$ | H2 | $\mathrm{H} 2^{\text {n }}$ | H3 | H3* | K | K*L | 20. |  |
| BKE 12 | B | $\left.8.20\right\|_{-1} ^{12 / 1 V}$ | 1.496 | 0.748 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BNE 13 | B | $\left.8.20\right\|^{[1 / / 1 / 2}$ | 1.248 | 0.624 | 62.40 |  | 62.40 | 0.19 | 11.86 | 2.73 | 170.35 | 0.48 | 29.95 | 0.38 | 23.71 | 124.30 |  |
| BXE 14 | 8 | $\begin{aligned} & \text { IV } \\ & 3.00 \mathrm{~V} \\ & \hline \end{aligned}$ | 2.204 | 1.102 | 93.80 | 79.70 | 173.50, | 0.37 | 64.20 | 4.80 | 832.80 | 0.71 | 123.19 | 0.55 | 25.43 | 347.00 |  |
| BXE 15 | B | $3.001 \mathrm{I}$ | 2.131 | 3.066 | 87.361 |  | 87.36 | 0.37 | 32.32 | 4.65 | 406.22 | 0.67 | 58.53 | 0.53 | +6.30 | 174.72 |  |
| BNE 16 | P | 2.50 | 2.164 | 1.082 |  | 4.30 | 4.30 | 0.37 | 1.59 | 36.57 | 157.25 | 0.691 | 2.97 | 0.53 | 2.28 | 8.60 ; |  |
| BKE 17 | P | 2.50 | 1.200 | 0.950 |  | 3.80 | 3.80 | 0.33 | 1.25 | 30.29 | 115.10 | 0.63 | 2.39 | 0.45 | 1.71 | 7.60 |  |
| BNE 18 | 8 | 4.60 - 1 | 2.148 | 1.074 | 87.731 |  | 87.73 | 0.37 | 32.46 | 4.68 | 410.58 | 0.67 | 58.78 | 0.54 | 47.37 | 175.46 |  |
| IBKE 19 | $\int_{B}^{(S L)}$ | $\begin{gathered} \text { IV } \\ 4.60-1 \\ \hline \end{gathered}$ | - $\quad 1$ |  |  |  |  |  |  |  |  | . |  |  |  |  |  |
| BKE 20 | $\mathrm{l}_{\mathrm{B}}^{\mathrm{BL}} \mathrm{B}$ | $4.60 / \mathrm{l}$ | . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

APPROACH ROAD
COMMONITEM(11/Is)
COMMON ITEM(11//4)
TABCe BLI OF QUANTTY (TTEM NO $4.3,07,08,09,10,11)$
TANUNGAN

| Noot: |  | 2 | 3 |  | 4 |  |  | 5 |  |  |  |  |  |  |  |  | $\begin{gathered} \text { Rema- } \\ \hline \mathrm{ins} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Briguc | FC | Widh | $\frac{6 a p}{\text { G }}$ | $0.50 \cdot 6$ | Road |  | SUML |  |  |  |  | Nom) |  | Nolo |  | $\begin{gathered} \mathrm{NOH1} \\ 206 \\ \hline \end{gathered}$ |  |
|  |  |  |  |  | Main | Branch |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | L-1 | L-2 |  | A4 | A4* | $\mathrm{H}_{2}$ | H 2 C | H3 | $\mathrm{H}^{\circ} \mathrm{L}$ | K | K.L |  |  |
| 8. ${ }^{\text {m }} 1$ | 8 | $\prod_{6.60[-3}$ | 1.688 | 0.984 |  |  | 0.00 | 0.35 | 0.00 | 4.36 | 0.00 | 0.64 | 0.00 | 0.64 | 0.00 | 0.00 |  |
| 8TM 2 | N/A | - |  |  |  |  | 0.00 |  | 0.00 |  | 0.00 |  | 0.00 |  | 0.00 | 0.00 |  |
| BTM 3 | B | $\begin{aligned} & (8.00) \\ & 10.60 \mid-2 \end{aligned}$ | 1.943 | 0.973 | 166.93 | 46.25 | 213.18 | 0.33 | 70.35 | 4.27 | 910.28 | 0.63 | 134.30 | 0.64 | 136.44 | 426.36 |  |
| Brma | 18 | 12.20].3 | 2.065 | 1.033 | 68.93 |  | 68.93 | 0.35 | 24.13 | 4.60 | 317.08 | 0.66 | 45.49 | 0.49 | 33.78 | 137.86 |  |
| ens: 5 | $\left.\right\|_{\mathrm{B}} ^{\mathrm{SK})}$ | 12.20.-3 | 2.023 | 1.012 | 67.43 |  | 67.43 | 0.34 | 22.93 | 4.47 | 301.41 | 0.64 | 43.16 | 0.47 | 31.69 | 134.86 |  |


| Noof: |  |  | 3 |  | 4 |  |  | 5 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sridge | fC | Width | Gap |  | Road |  |  | B/Q lem |  |  |  |  |  |  |  |  | $\begin{gathered} \text { Renas } \\ \text { iks } \end{gathered}$ |
|  |  |  | 6 | $0^{0.5 * G}$ | Main | Branch |  | N007 |  | No08 |  | No09 |  | Nolo |  | $\begin{gathered} \text { No: } 1 \\ 24 \end{gathered}$ |  |
|  |  |  |  |  | L-1 | L-2 | SUML | A4 | ${ }^{\text {A }}{ }^{\circ} \mathrm{L}$ | H2 | $\xrightarrow{\mathrm{H} 2 \mathrm{~L}}$ | H3 | $\mathrm{H}^{2} \mathrm{~L}$ | K | K*L |  |  |
| BNM : | 8 | 8.20.1/1 | 1.762 | 0.881 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Snm 2 | 8 | $4.60 \cdot 1 \cdot 1$ | 1.483 | 0.742 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BMM 3 | B | 4.60 l | 2.426 | 1.213 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| bram | \| 8 | $12.20{ }^{1 /-1}$ | 1.802 | 0.001 |  |  |  |  |  |  |  |  |  |  |  |  |  |

APPROACH ROAD
Tảle BML OF QUANTTY (TTEM NO $4.3,07,08,09,10,11)$
SALURAN CENGKARENG

| Noof: |  |  | $1{ }^{3}$ |  | 4 |  |  | 5 |  |  |  |  |  |  |  |  | $\begin{gathered} \text { Rema- } \\ \text { ris } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sriage | fC | Widib | $\frac{G a p}{6}$ | $0^{0.50} \mathrm{G}$ | Road |  |  | N007 |  | Noos B/Q Item |  | N009 |  | No10 |  | $\begin{gathered} \mathrm{N}^{\mathrm{N} 11} \\ 2 . \mathrm{L} \\ \hline \end{gathered}$ |  |
|  |  |  |  |  | Main | Brancl | SUML |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | L-1 | L-2 |  | A4 | $A 4^{\circ} \mathrm{L}$ | 42 | H2\% | H3 | $\mathrm{H}^{\circ} \mathrm{CL}$ | K | K-L |  |  |
| BCM | B | $\begin{aligned} & .7{ }^{71 / 1111} \\ & 9.80!-2 \\ & \hline \end{aligned}$ | 1.04 | 0.52 | 124.60 |  | 114.60 | 0.14 | 16.04 | 2.40 | 275.04 | 0.41 | 46.99 | 0.36 | 41.26 | 229.20 |  |
| ECM 2 | 8 |  | 1.941 | 0.971 | 181.58 | 27.05 | 278.63 | 0.32 | 89.16 | 4.13 | 1150.74 | 0.62 | 172.75 | 0.5 | 125.38 | 557.26 |  |
| SCM 3 | 8 | +.60 - 1 | 1.54 | 0.772 | 77.20 |  | 77.20 | 0.25 | 19.30 | 3.33 | 257.08 | 0.53 | 40.92 | 0.43 | 33.20 | 154.401 |  |
| BCM 4 | $p$ | 2.50 | 1.376 | 0.688 |  | 5.60 | 5.60 | 0.21 | 1.18 | 24.57 | 137.59 | 0.49 | 2.74 | 0.39 | 2.18 | 11.20 |  |
| BCM 5 | E | $\begin{gathered} 6.60 \cdot-3 \\ 611 / 1 \mathrm{~V} \end{gathered}$ | 1.412 | 0.706 | 63.30 | 150.38 | 213.68 | 0.22 | 47.01 | 3.00 | 641.04 | 0.50 | 106.84 | 0.39 | 83.34 | \$27.36 |  |
| BCM 6 | 8 | $\left.\right\|_{600 \mid-3} ^{11 / i v V}$ | 1.801 | 0.901 | 20.05 | 45.03 | 135.08 | 0.31 | 41.87 | 4.00 | 540.32 | 0.60 | 31.05 | 0.4 | 59,44 | 270.16 |  |
| SCM 7 | P | 2.50 | 2.564 | 1.282 |  | 10.40 | 10.40 | 0.45 | 4.68 | 48.00 | 499.20 | 0.77 | 9.01 | 0.69 | 7.18 | 20.80 |  |
| BCM 8 | p | 2.50 | 2.103 | 1.052 |  | 8.40 | 8.40 | 0.37 | 3.11 | 33.14 | 278.38 | 0.53 | 4.45 | 0.45 | 3.78 | 16.80 |  |
| BCM 9 | P | 2.50 | 2.59 | 1.298 |  | 10.40 | 10.40 | 0.48 | 4.92 | 48.00 | 499.20 | 0.77 | 8.01 | 0.69 | 7.18 | 20.80 |  |
| SCM :0 | 8 | $6.60-3$ | 2.307 | 1.154 | 107.67 | 53.83 | 161.50 | 0.40 | 64.60 | 4.6 | 801.04 | 0.71 | 114.67 | 0.61 | 98.52 | 323.00 |  |
| SCM 11 | 8 | $12.20 \cdot \frac{1}{}$ | 0.973 | 0.487 | 77.84 | 38.92 | :16.76 | 0.13 | 15.18 | 2.07 | 241.69 | 0.40 | 46.70 | 0.35 | 40.87 | 233.52 |  |
| BCM 12 | 8 | $12.20{ }^{1}-3$ | 2.351 | 1.176 | 77.84 |  | 77.84 | 0.40 | 31.14 | 5.17 | 402.43 | 0.71 | 55.27 | 0.63 | 49.04 | 155.68 |  |
|  |  | $11 / 311$ |  | 0.423 | 56.40 |  | 56.40 | 0.13 | 7.33 | 1.97 | 111.11 | 0.37 | 20.87 | 0.31 | 17.48 | 112.80 |  |
|  |  | (7.00) [1/111 |  |  |  |  | 82.80 |  | 10.76 |  | 163.12 | 0.37 |  | 0.31 | 25.67 | 165.60 |  |
| bear : | 3 | $9.601-3$ | 0.828 | 0.414 | 55.20 | 27.60 | 82.80 | 0.13 | 10.8 | 1.97 |  | 0.37 | 30.64 | 0.3 |  |  |  |

APPROACH ROAD
COMMON TTEM(13/44)
Table BRL OF QUANTITY (TTEM NO $4.3,07,08,09,10,11)$
GEDEIBOR

| Noot: |  | 2 | 3 |  | 4 |  |  | $3 / \mathrm{Ot}$ tem |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { Remas } \\ & \text { ixs } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bndge | FC | Wifth | Gap |  | Road |  | SUML |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ${ }^{0.5}{ }^{\circ} \mathrm{G}$ | Main | Brach |  | N007 |  | N008 |  | N009 |  | Nolo |  | $\begin{gathered} \mathrm{NoH} 1 \\ 2 \mathrm{~L} \end{gathered}$ |  |
|  |  |  |  |  | L-1 | L-2 |  | A4 | A4:- | H2 | $\mathrm{H}_{2} \mathrm{~L}$ | H3 | $\mathrm{H} 3^{*} \mathrm{~L}$ | K | $\mathrm{K}^{\circ} \mathrm{L}$ |  |  |
| BGM : | B | $\begin{gathered} (7.00){ }_{9.60 \mid-2}^{11 / 11} \\ \hline \end{gathered}$ | 0.500 | 0.250 | 114.60 |  | 114.60 | 0.08 | 9.17 | 0.70 | 80.22 | 0.29 | 33.23 | 0.30 | 34.38 | 229.20 |  |
| BGM 2 | 8 | ${ }_{9.60 \mid-2}^{(7.00)}$ | 1.014 | 0.507 | 114.60 | 57.30 | 171.0 | 0.13 | 22.35 | 2.20 | 378.18 | 0.40 | 68.76 | 0.37 | 63.60 | 343.80 |  |
| BGM 3 | P | 2.50 | 1.912 | 0.956 | 64.50 | 3.80 | 68.30 |  | 0.00 | 31.14 | 2126.86 |  | 0.00 | 0.50 | 34.25 | 136.60 |  |
| SGM 4 | B | $\underbrace{}_{6.60 \int_{-3}^{1 I V I V}}$ | 2.885 | 1.443 | 58.13 | 52.13 | 110.26 | 0.53 | 58.44 | 6.20 | 633.61 | 0.85 | 23.72 | 0.74 | 8:59 | 220.52 |  |
| BGM 5 | 8 | $4.60{ }^{\text {IV }} 1$ | 2.875 | 1.438 | 88.00 | 51.94 | 139.94 | 0.53 | 74.17 | 6.20 | 867.63 | 0.85 | 118.95 | 0.74 | 103.56 | 279.88 |  |
| BGM 6 | 8 | S.60. 17 | 2.232 | 1.166 | 3.00 | 72.80 | 75.80 | 0.39 | 29.56 | 4.91 | 372.18 | 0.60 | 52.30 | 0.59 | 44.72 | 154.60 |  |
| BGM 7 | B | + | 2.322 | 1.161 | 38.50 | 45.80 | 84.30 | 0.40 | 33.72 | 4.6 | 418.13 | 0.72 | 60.70 | 0.62 | 52.27 | 168.601 |  |
| BGM 8 | 2 | $6.60 .-3$ | 1.754 | 0.877 | 86.00 | 87.70 | 173.70 | 0.29 | 50.37 | 3.76 | 653.11 | 0.47 | 81.64 | 0.44 | 76.43 | 347.01 |  |
| B6m 9 | 8 | $\begin{aligned} & 6.50-3 \\ & 6.0 \text { IV } \end{aligned}$ | 2.149 | 1.075 | 111.63 | 103.73 | 245.36 | 0.37 | 79.68 | 4.67 | 1005.73 | 0.67 | 144.29 | 0.54 | 116.29 | 430.72 |  |
| SGM io | B | $3.50{ }^{\text {l/ }}$ | 2.197 | 1.090 | 29.82 | 44.41 | 144.23 | 0.38 | 54.81 | 4.80 | 692.30 | 0.69 | 29.52 | 0.56 | 80.77 | 288.46 |  |
| SGM :1 |  | $\begin{aligned} & \text { IV } \\ & .60 \cdot-1 \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SCM 12 |  | $\begin{array}{l\|l\|l\|} \hline 8.20 \mid 111 \\ \hline-1 \\ \hline \end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

APPROACH ROAD
Table BLL OF QUANTITY（ITEM NO $4.3,07.08,09,10,11$ ）
GEDE／BOR（BRANCH）

| GEDE／BOR（BRANCH） |  |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hoot | 1 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Rema－ ros |
|  | FC | Width | $\frac{G a p}{6}$ |  | Road |  |  |  |  |  | Q Item |  |  |  |  |  |  |
| Bridge |  |  |  | $0 .{ }^{\circ} \mathrm{C}$ | Main | Brancil | SUML | N007 |  | Noos |  | No09 |  | Nolo |  | $\begin{gathered} \text { Noll } \\ 2^{\circ} \mathrm{L} \end{gathered}$ |  |
|  |  |  |  |  | L－1 | L－2 |  | A4 | ${ }^{\text {A }}{ }^{\text {a }}$ | $\mathrm{H}_{2}$ | $\mathrm{H} 2{ }^{\circ} \mathrm{L}$ | H3 | H3＊ | K | K |  |  |
| BGA－1 | N／A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BGA－2 | ／N／A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table BILL OF QUANTITY（ITEM NO 4．3，07，08，09，10，11）
MERUYA

（8）SLOPE PLOTECTION TYPE（1／7）．
TADL BUL OF QUATITY（ITEMNO． 0
Twhe BuL OF QUANTITY（ITEMN $0.01,02: 15,16,17,18$ ）for Slop Protection Type

| Wod | 1 | ？ |  |  |  |  |  |  |  |  |  | R |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Praver | rc | $\frac{G}{6}$ |  | irasa |  |  |  |  |  |  |  |  |  | B／Q tem |  |  |  |  |  |  |  |  |  |
|  |  |  | $0^{0.5}{ }^{\circ}$ | Main |  |  | Anench |  |  | sum：L | SUMPA | $\frac{N 018}{0.08 \cdot A}$ | $\frac{1 N_{017}}{10: 15 \cdot A}$ | $\begin{aligned} & \text { Nol6 } \\ & \hline 0.2 A \\ & \hline \end{aligned}$ | SUM | $\frac{1}{121}$ | No．1sf1 |  |  | Na， $01 / 02$ |  |  |  |
|  |  |  |  | W．9 | L－1 | W＇L | W－2 | L－2 | iw＇ |  |  |  |  |  |  |  | （13） | （14） | SUM | 1.15 A | $26^{\circ} \mathrm{L}$ | sum |  |
| ． 11. | 1. | 137 | Sox？ |  |  |  | 4.00 | 3351 | 134.04 | 33.51 | 134.04 | 6.70 | 20.11 | 26.81 | 63.62 | 92.02 | 31.59 | 53.62 | B9 ges | 154.15 | 92.02 | 246.16 | 5 s |
| Ma1： | is |  |  |  |  |  | \％ | \％ | \％＂\％ | ers | \％\％ | \％ara | 1s， | ， | － | 1mem | －2， | nownt | \％er | 4，${ }^{\text {a }}$ | ＋10． |  |  |
|  | ． | 1， | ． | $\leq$ | Haw | 139， 1 | 4.79 | 103 $3:$ | （90） 1 明 | 24， 3. | ｜x＋1．to | 0！3： | 276．62 | 268．$\times 2$ | 717.64 | $+4$ | Tamins | $5$ | $\begin{array}{r} 9 \\ 112.33 \\ \hline \end{array}$ | $\begin{array}{r} 2469 \\ 2120220 \\ \hline \end{array}$ | $88600$ | 3000.73 |  |
|  |  | ： 1. | 1 w | \％$n$ | $\because$ | 0 one | ：sio | 9 | 2.5 | \％un | 290 | 苗 |  |  |  | 安名 | 20. | $1+\text {, ow }$ | $3$ | T s.8. | $38.3+$ | Gi.2 |  |
|  | 1．\％． |  |  | ）．．． |  | x $1 \%$ | $\cdots$ | ＂m0 | 0 | 1：1＊ | x 010 | 42 4， | 127．17 | （10） $\mathrm{x}_{2}$ | 3100.6 | $4$ |  | 3क्ष | 4.33.88 | onc:a | izsi.t? | $1237.64$ |  |
|  |  | ．．．． | － | － | ＊ | ${ }_{0}$ | 29 | 6.14 | 16 \％ 0 | 4 | 16.00 | (a, | 点, 2. | \% | C | $\text { , } 12.5$ | $18$ | $6$ | $1509$ | Re. | $2008$ | 38．88 |  |
|  |  |  |  |  | uw | it （n） | 23 | $8 \pm$ | $21 \times 4$ | $\times+1$ | 21.10 | $1.0$ | 4, | 4. |  | 2nom | $18,2$ | \% xio | －1．918） | 24，19 | $3905$ | 30.21 |  |
|  |  | ： $1 .$. | （a）． | s，m | 7.71 | 16， 4.9 | 0 int | 410 | otm | 7.71 | v， 0.3 ， | 18.63 | 39.28 | 26.7 |  | $5$ | $+4$ | $5$ | $1806$ | ${ }^{4}$ | +10.47 | 73s．30 |  |
|  |  | 1 | ＂730． | ＊＊＊ | now | un | 29 | 4,40 | 10， $1 \times$ | 64.4 | 16000 |  |  | + | , | $2$ | $\text { \% } 7$ | $16$ | $114.14$ | , + k | $2016$ | －3x．so |  |
| ． 1 1．1 |  | 13. | ＂M． | 8 tu | 12. | 113：3 | g， 0 | （ 8 P $\times$ M | 000 | 123.50 | 11923 | 96.11 | $10 \times 1.36$ | 23.45 | 4 $4 \times 1$ | 1027:20 | Whas | $\text { 6 } 4$ |  | rians | $1185.0$ | $2475.85$ |  |
| H2M10 |  | 1 | － 714 | 13. | 3．\％ow | 63：3 | s．00 | 267．20］ | 0.00 | 337.20 | 652．50 | 32．6． | ［．97．88｜ | $130.50 \mid$ |  |  | $\text { 3 } 363.62$ | $2$ | resce:2s | 3nfinco.38 | Ho!9.4 | $4709.82$ |  |


(8) SLOPE PLOTECTION TYPE (2R)

Bi SLOPE PLOTECTON TYPE (3M)
YOSk BLLLOH QUANTTY ITREANOO

（B）SLOPE PLOTECTION TYPE（AT）

| Nunca |  |  |  | ${ }^{3}$ |  |  |  |  |  |  |  | 4 － |  |  |  |  |  |  |  |  |  |  | $\frac{1}{8.0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | If | ano | T0， 6 | Raod |  |  |  |  |  |  |  | Woticm |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | $\frac{\text { Nata }}{\text { W－1 }}$ |  | W－L | W．2 | L． 2 | W＊ | sume | Sum： | O005 | O． 15 | ${ }^{2} 2 \cdot$ A | 0．4．4 | 21 | （1） | （44） | SUM | 1.18 A | $26^{\circ}$ | sum |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H2： 1 | н | is． | $0.0 \times 1$ | 350 | rox．00 | 363．08 | 0 | 00 | 0.0 |  |  | 28.18 | x＋6 | 1127 | 223， | 381.2 | 202.3 | 223， | 32.3 | 6x： |  |  |  |
|  |  |  |  |  | 5 | ， | 1\％ | $\cdots$ | ， | P－ |  | ＋2． | ， | \％4．4 | － | ＋1， | 5， | － | ＋ | ＋4． | － |  |  |
| 迷号： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4－3 | S | Windity | 517lit |  |  |  |  |
| \％19： | 15 | 10. | 09.9 | 850 | 12x，7 | 1312，3 | 11.0 | 12.70 | 480.7 | 222 | 3001.2 | 0.10 | 3（1）3 | day |  | ＋4．96\％ |  | ＋4t－800 | 29143623 | 3302 | 62 | 3168 |  |
|  |  |  |  |  |  |  |  |  | $\ldots$ | ${ }_{68} \times$ | 727 | 18.15 | toxa | i， 4 | 2x9： |  | Smax | Kaman | \％tase | x 14 | 88421 | 1113 |  |
|  | 13 | 200） | 1013 | $10 \%$ | axal | 3m， |  |  |  |  |  |  |  |  |  |  |  | \％${ }^{2}$ |  |  |  |  |  |
| ， | ${ }^{\text {a }}$ |  | 1015 |  | 12，88］ | 1338.77 |  |  | 0.0 | 139， | ［12888 | 66.4 | ［ | 205， 8 | 31. | 24240 | ＋4i42862 | （aywse | crioses | 1988．1 | 365，9， | ：020 |  |



6．2－37
[8] SLOPE PLOTECTION TYPE (STT)



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\frac{5}{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 9 |  | Roas |  |  |  |  |  |  |  | Notitm |  |  |  |  |  |  |  |  |  |  |  |
| $\mathrm{nJC}_{5} \mathrm{Fr}$ | c | 105 ${ }^{\circ}$ | Nat |  | Wel | Hemer | 1.2 | W. | sumi | suma | ${ }^{\text {Nots }}$ | ${ }^{\text {Not }} 17$ | ${ }^{\text {Not } 2 .}$ | Sod ${ }^{\text {a }}$ | [12 | (3) | [4] | Sum | 1.15 A | $26^{\circ}$ | Sum |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \% 4 | \% |  | -1320 |  |  | 124.4. |  |
|  |  |  |  |  | ,24 |  | mom | "w, | 11.60 | 93120 | 1487 | 16. | 919 | , |  |  | \%) |  |  |  |  |  |
|  |  |  |  |  | - |  |  | 111 x | [kי | 19\% | 7, | 30, | 11, 120 | axs | \% 8 \%ow | -os, 3 | degas | 28.30 | 1833.95 | 37701 | 2312.98 |  |
|  |  | 0 | a | - |  |  |  | - | , | 4, | 01x | 1 | 100 | $3 \times 1$ | fore | $4$ | +, 3.80 | +, ${ }_{2}$ | 10.03 | Lis. | 25.40 |  |
|  |  | $\cdots$ | ". | 000 | "m | Sm | 3 3x | 2, |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | \% 2 | 1741 | \% $\%$ | $27 \%$ | 117 con | as, 20 | 12.0. | \%. 6 | 1312 | 20230 | 4,0.s.0. | 4887, | 4262.30 | -172.6) | 30.12 | -87699 | 14.403 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | (\%) | W2, ${ }^{2}$ | \% 2.20 | -10.00 | $8$ |  | $1423$ | $23 m, x$ |  |
| 1: | , | $1 .$. | 0. | $\cdots$ | 570.5 | sum | $117 \times 2$ |  | 301 $2 \times$ | 10077.7 |  | 197.6 | :10, 9 | ม, |  |  |  |  |  |  |  |  |
|  |  |  | .... | , | 1200 | , m | 7280 | 291.20 | 25.80, | 30320 | 15.1 | 45.48 | 6064 | 12128 | 338.27 | 188.83 | - 212123 | Los.so | 336688 | 338.37 | 687.05 |  |
|  |  |  |  |  |  | m. | 2,0 | (1) |  |  |  |  |  |  | 4, | "4, 22 | 4, 828 |  | S22.80 | Hopto | $0,6,20$ |  |
|  |  | 1 m | 4, | Sas 5 | 23025 | +3. | 13, ${ }^{4}$ | \%196 | xtsum | 456.3 | $23 \times 2$ | ax, ${ }^{\text {a }}$ | m, |  |  |  |  |  |  |  |  |  |
|  | - 12 | (3) | , | -304 | 430.co | swo | 1185 | 293 | $129 \times 3$ | 6,933 | 12.6 | 97, ${ }^{2}$ | , $1290 \times 3$ |  | Hisos.3 | 4os? | + 522529.20 | + 568.46 | 776.65 | ass.si | 1202:3 |  |
|  |  |  |  |  |  |  |  |  |  | 12121 | 86, ${ }^{\text {a }}$ | 16.76 | 23 |  |  | 4.4.488 | +4, +2. 20 | - 123.4 | ni.vin | \% $\times 2.01$ | 2170.48 |  |
|  | - | -1.1: | , | , | 57065 |  |  |  |  |  |  |  |  |  |  |  |  | Stil |  |  |  |  |
|  |  |  | 1 | , | +w, | 1, wex | 3, | 2:02: | 12 n . $1 \times$ | $\times$ 66620 | $3 \times$ | m, m | 1332 |  | 10342 |  | 4.266.48 |  |  |  | 19270.0x |  |
|  |  |  |  |  | $\square$ | \% | , | $14$ | $5 \sqrt{5}$ | 4, | \% | - | + +1 | , | Pt+ | + + | Tq, | Hta | St, | + |  |  |
|  |  | $\cdots$ | $\cdots$ | 2. | - | \% | \% 4 | 4 | 150 | $1{ }^{3}$ | \% | $1{ }^{4}+$ | \% | \% 4 + | \% |  |  | \% | 3** | \% | 26 |  |



6.2-40
[A] RETAINING WALL TYPE


[^0][^1]- BRL OF QUNNTTTY (ITEM NO $4.3,01,02,15,16,17,18$ )

Table BLLL OF QUANFITY (ITEM NO 4.3 , 01,02,15,16,17,18)

昜

| TANUUNGAN |  |  |  |  |  |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  | Rem.Rerksark |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Now | 11 | ? | 3 |  | Road |  |  |  |  |  |  | $\frac{\text { NoIX }}{0.05^{\circ} \cdot A}$ |  | $13 / 2$ liem |  |  |  |  | $\begin{aligned} & \mathrm{N}, 01 / 02 \\ & \hline 1.15^{\circ} \mathrm{A} \\ & \hline \end{aligned}$ |  |
| $13 / 5$ | 18 | Widut | Gap | 0.506 |  |  |  |  |  |  | SUM:A |  | $\frac{N_{0} 17}{0.15^{\circ} \mathrm{A}}$ | Not6 | $\frac{\mathrm{SuM}}{0.4^{\circ} A}$ | No. 159! |  |  |  |  |
|  |  |  |  |  | $\frac{\text { Man }}{\text { W-1 }}$ | L- 1 |  | $\begin{aligned} & \text { Branch } \\ & \hline W \cdot 2 \\ & \hline \end{aligned}$ | -2 | $W^{*} \mathrm{~L}$ |  |  |  |  |  | (2) | $\frac{A 3^{\circ} \mathrm{L}}{}$ | SUM | $1.15^{\circ} A$ |  |
|  |  |  |  |  |  |  |  |  |  |  | 56,36 | $2 \times 18$ | x. 55 | 112.74 | 225.47 | $32910$ | 115.98 | 21320 |  | $\frac{\operatorname{arks}}{\mathrm{si}}$ |
| 11 | : | 6, cul 3 | $1 . \%$, $x_{1}$ | 0.1084 | 530 | $10 \times 40$ | 56368 | 000 | 0.08 | 0.0 |  |  |  |  |  |  |  | \%19 |  |  |
|  |  |  |  | - | \% | \% | 4, | 4ngot | \% | 2patatio |  | 4 | aratas | Hatatiot | dided do | H2utitit | \%ath | Villarinu. | \%, |  |
| GMM 2 | N/A | : |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2302.24 |  |
| HMM 3 | B | $\begin{gathered} \left(\begin{array}{r} 3 \\ 100) \\ 10.60 \end{array}\right] \end{gathered}$ | 1.945 | 0.973 | 8.50 | 178.97 | 1521.25: | 11.00 | 43.70 | 480.70 | 2001.95 | 100.10 | 300.29 | 400.39 | 800.78 | 146.11 | 222.67 | 923.44 | 2302.24 |  |
|  |  | 11 |  |  |  |  |  |  |  | 0.00 . | 722.72 | 36.14 | 108.4? | 144.54 | 289.09 | 457.12 | 32.60 | 457.2 | 831.12 |  |
| BrM + | B | 1230.3 | 2.065 | 1.033 | 10.50 | 68.83 | 722.72 |  |  | $0 . \infty$ | 72.72 |  |  |  |  |  |  |  |  |  |
| B7M 3 | $\left(\begin{array}{l} (\mathrm{SK}) \\ \hline \end{array}\right.$ | $12.20]^{11}$ | 2.023 | 1.012 | 9.50 | :32.87 | 1328.77 |  |  | 0.00 | 1328.77 | 66.44 | 199.31 | 265.75 | 531.51 | 812.54 | 158.05 | 812.54 | 1528.08 |  |


Tabie BRLOR QUANTTTY (ITEMNO $4,3,01,02,15,16,17,18$ )
SALURANCENGKARENG

| $\begin{aligned} & \text { Noot': } \\ & \text { Brise } \end{aligned}$ | ${ }_{\text {Wisth }}$ | Gap |  | $\stackrel{4}{4}$ |  |  |  |  |  |  | 5 [ |  |  |  |  |  |  |  | $\begin{aligned} & 6 \\ & \begin{array}{c} \text { Rem. } \\ \text { arks } \end{array} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{array}{\|l\|l\|} \hline \text { NolX } & \text { Nol } \\ \hline 0.05^{\circ} A & 0.15^{\circ} A \\ \hline \end{array}$ |  |  |  |  |  |  | Ni.1502 |  |
|  |  | (i | - ${ }^{\text {c }}$ |  |  | Mam | - 1 |  |  |  |  |  |  | 0.2.A. | 0.4. | N. | $\mathrm{A}^{2} \mathrm{~L}$ | SUM |  |
|  | $711 / \mathrm{M}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 3980.2 | . 04 | 0.5 | 4.0 | 12780 | S11.20 |  |  | 0.00 | 1.20 | 25.56 | 76.68 | :02.24 | 204.48 | 61.34 | 42.17 | 61:3 | 587.88 |  |
| 3 CM 21 B | $\begin{gathered} (7000) \\ 960-3 \\ 961214 \end{gathered}$ | 1.241 | 0.971 | 4.50 | 177.08 | 805.66 | 3.75 | 101.05 | 378.94 | 1184.80 | 59.24 | 177.72 | 236.\%6 | 473.22 | 675.93 | 280.33 | 5.93 | 1362.52 |  |
| 1313 | $1+5$ | 5 s. | 0772 | 3.75 | 77.20 | $2 \times 9.50$ |  |  | 000 | 2x0 50 | 14.48 | 43.43 | 57.00 | 115.80 | 107.6. | 52.44 | 107.69 | 232.38 |  |
|  |  |  |  |  |  |  |  |  |  |  | 20 | \% 2.10 |  | \% ${ }^{\text {S }}$ |  | 48.98 | 1. 4.03 | 16.41 |  |
| M 1 | Su: | 1336. | $0.6 \times x$ |  |  | $0 .(6)$ | 2.50 | $5(.0)$ | ! 4.4 .2 | [4, (1) |  | 4in20: |  | , | 4.4 |  |  |  |  |
| 518 | ${ }_{600} 0^{11 / 1 / 7 / 2}$ | 12. | 0.706 | 5.60 | . 60 | 568.\% | 3.75 | 77.20 | 289.50 | 858.46 | 42.92 | [28.77] | 177.69 | 343.38 | 262.69 | 101.22 | 262.62 | 287.231 |  |
|  | $6(0) \mid-3$ | 1.80: | 0.01 | 150 | 2705 | 4.6 .73 | $2: 10$ | 47.73: | 100.23 | 536.96. | 26.45 | 80.54. | 107.3. | 214.78 | 266.75 | 134.65 | 268.75 | 617.50 |  |
|  |  | 2 | x |  |  | (ax) | 2.50 | 16.10 | $26 .(0)$ | 26.50 | $1430$ | .....5 | , 5.20 | \%o.0 | +.22.93 | 312.56 | 22.23 | 2\% $\%^{\prime}$ |  |
|  | \% |  |  |  |  |  |  |  |  |  | \% 1.0 | 9\% 1.6 | 4.4 | \% 18 | 13.68 | 10.18 |  | 2 A 9 |  |
| \% | $\underline{3}$ | 2103 | 153 |  |  | (0) (x) | 230 | x+0 | 21.(x) | 2 |  |  |  |  |  |  |  |  |  |
| \% | 2501 | 25\% | 1.29x |  |  | $0.0 \times 1$ | 2.50 | 10.401 | 26.0.0) | 26.0.0) | 3 |  | \% 2 S20 |  | Hchic3:35 | 21286 | 233.35 | $29 . \% 0$ |  |
| BCM 10 B | $660 \mid .3$ | 2307 | 1.154 | 4.70 | 118.67 | 557.75 | 5.00 | 56.53 | 282.65 | 840.40 | 42.02 | 126.06 | 168.08 | 336.16 | 633.24 | 257.54 | 633.24 | 266.66 |  |
| $\text { BCM } 118$ | 12.20 .3 | 0.973 | 0.487 | 200 | 85.84 | 772.56 | 2.00 | 53.83 | 107.66 | 880.22 | 44.01 | 132.03 | 176.04 | 352.09 | 76.14 | 41.20 |  | $5$ | SP |
| ${ }^{1} 18$ | $12.81{ }^{19}$ | 331 | 1.176 | 10.00 |  | 760.80 |  |  | 0.00 | 1760.80 | 88.04 | 264.12 | 352.16 | 70432 | 1365:30 | 267.64 | 1365.50 | $5202422$ | sp |
| BCM 1318 | $8200_{-1}^{1 / 24}$ | 0.866 |  | 6.00 |  | 386.40 |  |  | 0.00 | 386.40 | 19.32 | 57.96 | 77.28 | 154.56 | 8.82 | 19.32 | 8.82 | 44.36 |  |
| BCMI3 ${ }^{\text {d }}$ |  |  | 0.423 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lecminib | $\begin{array}{r} 7.00) \\ 960{ }^{11 / 3 I M}-3 \end{array}$ | 0.328 | 0.414 | 2.00 | 60.20 | $421.40]$ | 3.00 | 62.20 | 186.60 | 608.00 | 30.40 | 91.20 | 121.60 | 243.201 | 8.54 | 36.72 | 8.5! | 69920 |  |

等


Table BRLO OF QUANTITY (TTEM NO $4.3,01,02,15,16,17,18$ )
MERUYA



Notc：Al：Excavation（cu．m／m）
A2：Back filling（ $\mathrm{cu} . \mathrm{m} / \mathrm{m}$ ） $\mathrm{m} / \mathrm{m}$ ）
2．24G：Slope protection（sqim／m） A3．Concrete of fetainiug wall for $\mathrm{N}_{0}$ 07（cu．m）／Approach step for pedestrian bridge（cu．m／one side）


$$
\text { Nore: Al: Eveavation }(\mathrm{cn} \cdot \mathrm{~m} / \mathrm{m})
$$

2.2.G: Slope protection ( $\mathrm{sq} \mathrm{m} / \mathrm{mm}$ )
A3:Concrelc of fetaining wall for No 07 (cu.mi)/Approaci sicp for pedestrian bridge (cu.m/one side)
Table BILL OF QUANTITY (ITEM NO $4.3,03,04,05,07$ )

| KAMAL(BRANCH) |  |  | 3 3 4 |  |  |  |  | 5 |  |  |  |  |  |  |  | $\begin{gathered} 6 \\ \begin{array}{c} \text { Rem- } \\ \text { arks } \end{array} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Noo: | 1 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bridse | FC | Width | Gap |  | oad |  | SUM L | No(3) |  | No04 |  | No. 05 |  | No(1) |  |  |
|  |  |  |  | $0.5^{\circ} \mathrm{C}$ | L. 1 | $\frac{\text { Branch }}{\text { L-2 }}$ |  | A1 | ${ }^{\text {A }}$ - ${ }^{\text {L }}$ | A2 | A2* | 2.24 G | $2.24 \mathrm{G}^{\circ} \mathrm{L}$ | A3 | A3* |  |
| BKE ! | 8 | soovis | 1.742 | 0.371 | 79.92 |  | 79.92 | 0.85 | 67.93 | 0.58 | 46.35 |  | $5$ | 0.87 | 69.53 |  |
| BKE 2 | B | $\begin{array}{r} 1 \mathrm{IV} \\ +60 \mathrm{I} \cdot 1 \\ \hline \end{array}$ | 1.530 | 0.765 | 72:00 | 40.00 | 112.00 | 0.74 | 82.88 | 0.52 | 58.24 | $5$ | $\text { 躬 } 54383: 85$ | 0.70 | 78.40 |  |
| BRE 3 | $\begin{aligned} & \text { (SK) } \\ & \mathrm{B} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { +.0001 } 11 / 1 \mathrm{~V} \\ & 6.60 \mid-3 \end{aligned}$ | 1.393 | 0.697 | 70.65 | 37.53 | 108.181 | 0.66 | 71.40 | 0.48 | 51.93 | $5$ | $5$ | 0.60 | 64.91 |  |
| BKE 4 | B | $\begin{aligned} & 111 / 1 / V \\ & 6.60 \mid-3 \end{aligned}$ | 1.829 | 0.915 | 92.45 | 93.45 | 185.90 | 0.90 | 167.31 | 0.61 | 113.40 |  | $5$ | 0.92 | 171.03 |  |
| BRE S | 18 | $6.60,3$ | 1.849 | 0.925 | 102.23 | 147.45 | 249.68 | 0.90 | 224.71 | 0.62 | 154.80 |  | $510340$ | 0.94 | 234.70 |  |
| BRE 6 | B | $\begin{array}{r} 10 \\ 400 \\ \hline \end{array}$ | 1.852 | 0.926 | 87.16 | 85.86 | 173.02 | 0.90 | 155.72 | 0.62 | 107.27 |  |  | 0.94 | 162.64 |  |
| BRE 7 | 8 | $\begin{aligned} & 6.60 \mid \cdot 3^{11 / 1 / 2} \\ & \hline \end{aligned}$ | 2.011 | 1.006 | 224.81 | 105.68 | 330.49 | 0.92 | 327.10 | 0.67 | 221.43 |  |  | 0.07 | 23.13 |  |
| BKE 8 |  | 2.50 | 1854 | 0.927 |  | 7.40 | 7.40 | 4.86 | 9.72 | 14.68 | 29.36 |  | $\text { Fatas } 30.73$ | 4.86 | 9.72 |  |
| BKE 9 | 8 | $+\left.60\right\|_{-1} ^{1 V}$ | 1.543 | 0.772 | 108.86 | 72.58 | 181.44 | 0.74 | 134.27 | 0.52 | $94.35$ | $4$ |  | 0.71 | 128.82 |  |
| 8KE 10 | 8 | $\left.\left.\right\|_{-60}\right\|_{-3} ^{11 / / V}$ | 1.832 | 0.916 | 154.80 | 97.00 | 251.80 | 0.90 | 226.62 | 0.61 | 153.60 | She | $4$ | 0.92 | 231.66 |  |
| BK̇E 11 | (B | 4 ¢00\|-1 | 1.427 | 0.714 | 24.60 | 67.42 | 162.02 | 0.68 | 110.17 | 0.49 | 79.39 | Thation | $2$ | 0.62 | 100.45 |  |

Tuble BILL OF QUANTITY (ITEM NO $4,3,03,04,05,07$ )

| Noo: | Kan | ( | , |  | 4 |  | I | 5 |  |  |  |  |  |  |  | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bndge | FC | Wich | Gap |  | Road |  |  | 13/2 licm |  |  |  |  |  |  |  | $\begin{gathered} \text { Rem- } \\ \text { arks } \end{gathered}$ |
|  |  |  | G | $65^{\circ} \mathrm{G}$ | Man | Branch | SUML | No(3) |  | Nomi |  | No. 0.5 |  | Noil 7 |  |  |
|  |  |  |  |  | L-1 | L. 2 |  | A1 | $\mathrm{Al}^{\circ} \mathrm{L}$ | A2 | A2. ${ }^{-}$ | 2.24 G | $2.24 \mathrm{G}^{*} \mathrm{~L}$ | A3 | ${ }^{\text {A }}{ }^{\circ} \mathrm{L}$ |  |
| ERE 1 | 13 | ino.s | 1.742 | 08711 | 7092 |  | 79.リ2 | 085 | 67.93 | 0.58 | 46,35 | 4, 3.90 | $1.31185$ | 0.87 | 6933 |  |
| SKE: | B | $\begin{array}{r} 1 V \\ +60 \cdot 1 \\ \hline \end{array}$ | 1530 | 0.76 .5 | 7200 | 40,00 | 112.00 | 0.74 | 8288 | 0.52 | 58.2: | $+5-6.43$ | $\text { tof } 833: 35$ | 0.70 | 7840 |  |
| BKE: | $\begin{aligned} & (\mathrm{Si}) \\ & \mathrm{B} \\ & \hline \end{aligned}$ | $6.60 \cdot 3$ | 13031 | 0697 | 70.65 | 37.53 | 108.18: | 066 | 71.40 | 0.48 | 51.93 | $2$ | $\begin{array}{r} 4 \\ \hline \end{array}$ | 0.60 | 6491 |  |
| 8KE | 13 | $\begin{aligned} & 6601.3 \\ & 617 \mathrm{IV} \end{aligned}$ | 1829 | 0.915 | 92.45 | 93.45 | 185.90 | 090 | 167.31 | 0.61 | 113.40 | $4$ | $518,5$ | 0.92 | 17103 |  |
| GKE: | 8 | $\begin{gathered} 111 / 1 V^{\prime} \\ 660 .-3 \end{gathered}$ | 1849 | 0.935 | 102.23 | 1.4.4. | 249.68 | 0.90 | 224.711 | 0.62 | 15480 | $4$ | $103410$ | 0.94 | 23:701 |  |
| BREE | 18 | $\begin{array}{r} 101 \\ +601-1 \\ \hline \end{array}$ | 1.852 | 0.926 | 87.16 | 8586 | 173.02. | 090 | 155.72 | 06.21 | 107.27 | 4+5,5 | $519$ | 0.94 | 16264 |  |
| BKE 7 | 1 |  | 2011 | 1.006 | $22+81$ | 10568 | 330.49 | 0.99 | 327.19 | 0.67 | 221.43 | $2$ | $48488,7$ | 0.07 | 23.13 |  |
| BXE 8 | P | 2.50 | 18i4 | 12.927 |  | 7.40 | 7.40 | 486 | 2.72 | 14.68 | 29.36 | $4$ | $\text { - } 630.75$ | 486 | 973 |  |
| BKE | 18 | $\begin{array}{r} 114 \\ +60-1 \\ \hline \end{array}$ | 1.54. | 0.772 | 108.86 | 72.58 | 181.44 | 0.74 | 13, 27 | 0.52 | 94.35 |  | $674$ | 0.71 | $12 \times 82$ |  |
| $8 \times 610$ | 8 | $\frac{1 \text { inivy }}{6,60 \mid-3}$ | $1 \times 32$ | 0.916 | 154.80 | 97.00 | 251.80 | 0.90 | 226.62 | 0.61 | $15360$ | $5$ | $8 \quad 1033: 31$ | 0.92 | 23166 |  |
| SNE 11 | 18 | (60) ${ }^{\text {IV }}-1$ | 1.427 | 0.71. | 92360 | 67.42 | 162.02 | 0.68 | 11017 | 0.49 | 7939 | $3 \%$ | $5 \operatorname{sip} 8,$ | 0.62 | 100.45 |  |

Tabic BLLLOFQUANTITY (ITEM NO $4.3,03,04,05,07$ )

| Noor: | . | 2 | 3 |  | 4 |  |  | 5 |  |  |  |  |  |  |  | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bridge | FC | Widh | Gap |  | Road |  |  |  |  |  | B/Q 1 lcm |  |  |  |  | Rem arks |
|  |  |  |  | $0.5^{\circ} \mathrm{G}$ | Main | Branch | SUML | No 03 |  | $\mathrm{No}(4)$ |  | No. 05 |  | No07 |  |  |
|  |  |  |  |  | L-1 | L-2 |  | A1 | A1*L | A2 | A2 ${ }^{\circ} \mathrm{L}$ | 2.24 G | 2.24G** | A3 | A3*L |  |
| BKE 12 | B | $8.20 \cdot 11^{11 / 1 / V}$ | 1.496 | 0.748 |  |  |  |  |  |  |  |  | faty |  |  |  |
| BRE 13 | 8 | $\left.8.20\right\|_{-1} ^{11 / 1 V}$ | 1.248 | 0.624 | 70.40 | 0.00 | 70.40 | 0.59 | 41.54 | 0.43 | 30.27 |  |  | 0.504 | 35.20 |  |
| BKE 14 | 18 | $3.00 \mathrm{I}_{\text {IV }}^{\text {- }}$ | 2.204 | 1.102 | 65.00 | 21.40 | 156.40 | 1.19 | 186.12 | 0.80 | 125.12 |  |  | 1.37 | 214.27 |  |
| BRE 15 | B | $3.00 \cdot \mathrm{TV}$ | 2.131 | 1.066 | 95.36 | - " | 95.36 | 1.11 | 105.85 | 0.75 | 71.52 |  |  | 1.23 | 117.29 |  |
| BKE 16 | ? | 2501 | 2.164 | 1.082 |  | 8.60 | 8.60 | 5.09 | 10.18 | 17.87) | 35.74 |  |  | 5.43 | 10.86 |  |
| BKE 17 | P | 2.50 | 1.900 | 0.9501 |  | 7.60 | 7.60 | 4.86 | 9.72 | 14.80 | 29.60 |  |  | 4.86 | 9.72 |  |
| BNE : 8 | , 8 | $4.601_{1-1}^{1 V}$ | 2.148 | 1.074 | 95.73 | 0.00 | 95.73 | 1.13 | 108.17 | 0.76 | $72.75$ | $5$ | Pary | 1.23 | 117.75 |  |
| 13t.1: 1.1 | $\begin{aligned} & 4 \mathrm{St} .1 \\ & 1 \mathrm{~B} \end{aligned}$ | $\begin{array}{r} \text { iV } \\ +\cos ^{2}:-1 \\ \hline \end{array}$ |  | Q, | 2-4 | Sis | - |  |  |  |  | 曻 | momer |  |  |  |
| 23ni: 30 | $\begin{aligned} & 181.1 \\ & 18 \end{aligned}$ | $\begin{array}{r} 101 \\ +(6,1.1 \end{array}$ | - | - |  | $4$ |  | 4utan | dituram |  | ata | +2t+4 | किक |  |  |  |

Table BILL OF QUANTITY (ITEM NO $4.3,03,04,05.07$ )

| Nool | 1 2 | 3 |  | 4 |  |  | 5 |  |  |  |  |  |  |  | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brivge | Width | Gap |  | Roas |  |  | B/Q 1 cm |  |  |  |  |  |  |  | Remarks |
|  |  | $G$ | $0.50 \cdot 6$ | Main | Branch | SUM L | No03 |  | No()4 |  | No. 05 |  | No67 |  |  |
|  |  |  |  | L-1 | L-2 |  | A1 | ${ }^{1} \cdot{ }^{\circ} \mathrm{L}$ | A2 | ${ }^{\text {A }}{ }^{\circ} \mathrm{L}$ | 2.24 G | $2.24 \mathrm{G}^{*} \mathrm{~L}$ | A3 | ${ }^{\text {A }}{ }^{\circ} \mathrm{L}$ |  |
| BKE 12 B | $\left.8.20\right\|_{\text {[1IIV }}$ | 1.961 | 0.748 |  |  |  |  |  |  |  |  | /afores |  |  |  |
| ARE A 3 B | 820.111/1V | 1.248 | 06.24 | 70.40 | 0.00 | 70.40 | 0.59 | 4.54 | 0.43 | 30.27 |  | $5$ | 0.50 | 3520 |  |
| BRE 14/8 | 3000 | 2.20 .4 | 1.102 | 65.00 | 91.40 | 156.40 | 1.19 | 186.12 | 0.80 | 125.12 | ache |  | 1.37 | 21427 |  |
| BKE 16/8 | $3001.5$ | 2.1311 | 1066 | 95.36 |  | 95.36 | 1.11 | 10585 | 0.75 | 71.52 | $4$ | $4$ | 1.23 | 11799 |  |
| SRE 16.P | 2301 | 2.164 | 1082 |  | 8.60 | 860 | 500 | 10.18 | 17.87 | 35.74 | $\text { 4is.54 } 4.85$ |  | 5.43 | 1086 |  |
| BREE 171P | 2301 | 1.900 | 0.950 |  | 7.60 | 7.60 | 4.86 | 9.72 | 14.80 | 29.60 | $\sqrt{6+24}$ | $4$ | 486 | 9) 72 |  |
| 13 KE 1 $\times 18$ | +600:1 | 2.148 | 1.074 | 95.73 | 0.00 | 95.73 | 1.13 | 108.17 | 0.76 | 72.75 | $54.8$ | $42+460.6$ | 1.23 | 11775 |  |
| 18 <br> 180 | 19 +80.1 |  | $\because$ | \%-8 | - |  |  |  |  |  | का" | $\square$ |  |  |  |
| 13n1 | + <xi: |  | \% | \%os | - |  |  |  |  | +, | $4$ | ¢, |  |  |  |

Table BILL OF QUANTITY (ITEM NO $4.3,03,04,05,07$ )

| Noof: |  | $11+2$ | 3 |  | 4 |  |  | 5 |  |  |  |  |  |  |  | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bridge | FC | Width | Gap |  | Road |  |  | B/O ltcm |  |  |  |  |  |  |  | Remarks |
|  |  |  | G | $0.5^{\circ} \mathrm{G}$ | Main | Eranch | SUM L | No03 |  | NoO2 |  | No. 05 |  | No07 |  |  |
|  |  |  |  |  | L-1 | L-2 |  | A1 | $A 1^{\circ} \mathrm{L}$ | A2 | A2 ${ }^{\circ} \mathrm{L}$ | 2.24G | 2.24G* | A3 | A $3^{*}$ L |  |
| csis 1 | (1) | $\begin{array}{r} 1112 \mathrm{~V} \\ 1,0.01 .5 \\ \hline \end{array}$ | 19,8 | $0.9 \times 4$ | 10x.40 |  | 108.40 | $0.96$ | $04$ | $\text { का } 0.65$ | $270.46$ | $\text { , }, 4.41$ | $477.86$ | $1.07$ | 115.99 | SP |
| 1s: ${ }^{\text {a }}$ : | N, A | . ${ }^{\text {a }}$ | $\because$ |  | \% |  | दt, | $4$ |  |  |  | + | , |  | $\because$ |  |
| 187: 3 | B |  | 1.945 | 0.973 | 178.97 | 43.70 | 222.67 | 0.05 | 211.54 | 0.64 | 142.51 |  |  | 1.001 | 223.67 |  |
| BTM : | B | ${ }_{22} 2.20{ }^{11}$ | 2.065 | 1.033 | 68.83 |  | 68.83 | 1.05 | 72.27 | 0.70 | 48.18 | 栄 | Eatay | 1.20 | 82.60 |  |
| BTM 5 | $\begin{aligned} & (S K) \\ & B \\ & \hline \end{aligned}$ | $12.20 \mid-3$ | 2.023 | 1.012 | 139.87 |  | 139.87 | 1.00 | 139.87 | 0.68 | $95.14$ | 等 | $54$ | 1.13 | 158.05 |  |


Table BILL OF QUANTITY (ITEM NO $4.3,03,04,05,07$ )

| Tanjungan |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Boot | PC | 2 | 3 |  | 4 |  |  | 5 |  |  |  |  |  |  |  | $\begin{gathered} 6 \\ \text { Rem- } \\ \text { arks } \end{gathered}$ |
|  |  | Width | Gap |  | Roac |  |  | $\mathrm{B} / \mathrm{Q} / \mathrm{cma}$ |  |  |  |  |  |  |  |  |
|  |  |  | G |  | Main | Branch |  | No(13 |  | $\mathrm{NOOCH}^{4}$ |  | No. 05 |  | Nou7 |  |  |
|  |  |  |  |  | L-1 | L-2 | SUM 1 | A1 | A10. | A2 | A2 ${ }^{\circ} \mathrm{L}$ | 2.24 G | 2.24G* | A3 | A3* |  |
| a, 31 | 1 | $\begin{aligned} & 1 \mathrm{Hin} \mathrm{~V} \\ & \hline \end{aligned}$ | $1 \%, 8$ | 1398 | $10 \times 10$ |  | $10 \times 10$ | 009 | 10406 | $\begin{array}{r} 0.65 \\ \hline \end{array}$ | 70.46 | 4.41 | 477.86 | : 1.07 | 115.99 | 3 P |
| mis! | $\therefore$ A |  |  |  |  |  |  | ¢ | \% | \%- | \%: | - | \% |  |  |  |
| Brat 3 | B | $\begin{gathered} 1 \times(0) \\ 3061 \\ 0 \end{gathered}$ | 1.945 | 0.973 | 178.97 | 43.70 | 222.67 | 0.95 | 21154 | 0.64 | 142.51 |  | $570.33$ | 100 | 22267 |  |
| ETM : | 18 | 122011 | 2.065 | 1.03 .3 | $6 \times 83$ |  | 6,8.831 | 1.05 | 72.27 | 0.70 | 4x.18: | $18.4$ | B18:38 | 1.20 | 8260 |  |
| 6TM : | $\begin{aligned} & (\mathrm{SK}) \\ & 8 \\ & \hline \end{aligned}$ | $12.20 \cdot 3$ | 2.023 | 1.012 | 13987 |  | 139.87 | 100 | 139.87 | 0.68 | 95:14 | $44.53$ | $633.82$ | 2.13 | 15805 |  |




| Table BILL OF QUANTITY (ITEM NO $4,3,03,04,05,07$ ) SALURAN CENGKARENG |  |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nout |  | 2 | 3 |  | 4 |  |  |  |  |  |  |  |  |  |  |  |
| Bndse | FC | Widh | Gap |  | Road |  |  | B/Q licm |  |  |  |  |  |  |  | $\begin{aligned} & \text { Rem- } \\ & \text { arks } \\ & \hline \end{aligned}$ |
|  |  |  | G | ${ }^{0.5}{ }^{\circ} \mathrm{C}$ | Main | Branch | SUML | Nol 13 |  | $\mathrm{NO}(1)$ |  | No. 05 |  | No(1) |  |  |
|  |  |  |  |  | L-1 | L-2 |  | A 1 | A1*L | A2 | A. $2^{*}$ L | 2.24G | $2.240^{\circ} \mathrm{L}$ | A3 | ${ }^{\text {A }}{ }^{\circ} \mathrm{L}$ |  |
| BCA 1 | B | $\begin{aligned} & .7 \mathrm{H} 1 \mathrm{~m} \\ & 960.2 \end{aligned}$ | 1.04 | 0.52 | 127.80 |  | 127.80 | 0.48 | 61.34 | 0.37 | 47,2911 | $2$ | $29772$ | 0.33 | +2:17 |  |
| BCM 2 | 8 | $\begin{gathered} (7(1)) \text { 11/mi! } \\ 9601.3 \end{gathered}$ | $19+1$ | 0.971 | 179.08 | 101.05 | 280.13 | 0.95 | 266.12. | 0.64 | 179.28: |  | $4217.96$ | 1.00 | 28013 |  |
| $B C M:$ | B | $\begin{array}{r} 1 V^{\prime} \\ +601 \cdot 1 \\ \hline \end{array}$ | 1.544 | 0.772 | 77.20 |  | 77.20 | 0.74 | 57.13 | 0.52 | 40.14 | $\frac{10}{}$ | $\text { Han } 27.00$ | 0.77 | $594+$ |  |
| ScM : | P | 230 | 1.376 | 06.88 |  | 560 | 5.60 | 480 | 96.103 | 12.00 | 24.00) | $+3.08$ |  | 4 4.49 | $8.98$ |  |
| BCat 5 | 8 | $6,(0) \cdot .3$ | 1.42 | 0.706 | 10160 | 77.20 | 178.80 | 0.67 | 119.80 | 0.48 | 85.82 | $24$ | $54$ | 0.57 | 10192 |  |
| 3CM: 6 | 13 | 1IIIIV | 1.801 | 0.901 | 9705 | 47.73 | 144.78 | 0.88 | 127.41 | 0.60. | 86.87 | Watade | 54.58:08 | 0.93 | 13465 |  |
| טC. 1 | , | 20\% | 2364 | 12 x 2 |  | 10.40 | 10.40 | 566 | 11.32 | 24.00 | 18.600 | -1, s\% | $55$ | $6.28$ | 12.56 |  |
| $156 .: 18$ | : | $\because!$ | 2103 | 1052 |  | 8.40 | $\times 40$ | 5.14 | 10.28 | 16,00 | 32000 | $4,71$ | $39.57$ | $5.00$ | 10.18 |  |
| LSC. ${ }^{\text {a }}$. | P | 20, | $2 \%$ | $129 \times$ |  | 10.40 | 10.461 | 5.74 | 11.42 | 25.33 | 50.66 | $2$ | $6$ | $6.43$ | $12.86$ |  |
| BCa: 10 |  |  | 2.307 | 1.154 | 11867 | 56.53 | 175.20 | (.29 | 226.01 | 0.87 | 152.42 | $5$ |  | 1.47 | 25754 |  |
| BCM 11 |  | $1230 \mid \ldots$ | 0.973 | (1.287) | 858.1 | 5383 | 139) 6,7 | 0.45 | 62.85 | 0.35 | 4888 | 2.18 | 304.41 | $+0.30$ | $4+4190$ | Sp |
| 8Ca 12 | 18 | $12201.3$ | 2351 | 1:761 | 17608 |  | 176.08, | 1.331 | 23.419 | 0.90 | 158.47 | 5.27 | 927.2 s | $5152$ | $267.64$ | SP |
| BCa: 3 | 13 | $\begin{aligned} & 111 / 111 \\ & \times 20!-1 \end{aligned}$ | 0846 | [1423 | (0.40) |  | (ri.40) | 0.40 | 25.76 | 030 | 19.32 | $1$ | $\mid$ | 0.30 | 1932 |  |
| BCM1 | 18 | $\begin{gathered} 7(0) 9 \\ 96016 / 3 \\ \hline \end{gathered}$ | 082s | 0.3i4 | 6020 | 62.20 | [22.40 | 0.38 | 46.51 | 0.30 | $36.72$ | $5$ | $2$ | 0.301 | 3672 |  |

Table BLLL OF QUANTITY (ITEMNO $4.3,03,04,05,07$ )
GEDE/BOR

| GEDE/BOR |  |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bridge | FC | Wisth | Gap |  | Road |  |  | No03 |  |  | B/Q licm |  |  |  |  | Remarks |
|  |  |  | G | $0^{0.5}{ }^{\circ} \mathrm{G}$ | Main | Branch | SUML |  |  | NoO4 ${ }^{\text {a }}$ |  | No.05 |  |  |  |  |
|  |  |  |  |  | L-1 | L-2 |  | A1 | A1* | A2 | ${ }^{\prime} 2^{*} \mathrm{~L}$ | 2.24 G | $2.24 \mathrm{G}^{\text {a }}$ |  |  |  |
| BGM 1 |  | (700) $11 / 1 / 11$ | 0.50 | 0.25 | 114.60 |  | 114.60 | 0.12 | 13.75 | 0.09 | 10.31 | $4$ | $5$ | 0.20 | 22.92 |  |
|  |  | (7.00) 11/11 |  |  |  |  |  |  |  | 0.40 | 74.36 |  | $24$ | 0.33 | 61.35 |  |
| 8GM: ? |  | 9601.2 | 1.01 | 0.51 | 120.60 | 65.30 | 185.90 | 0.53 | 98.53 | 0.40 |  |  |  |  |  |  |
| BGM 3 ? |  | 2.50 | $1 . \% 1$ | 0.96 | 0.00 | 7.60 | 7.60 | 4.86 | 2.72 | 15.73 | 31.46 | 4, ${ }^{4}$ | 444.4.3s | 4.86 | 9.72 |  |
| BGM + | 8 |  | 289 | 1.45 | 58.13 | 59.13 | 117.26 | 1.88 | 220.45 | 1.26 | 147.75 |  | $50$ | 2.13. | 249.76 |  |
|  |  | IVV |  |  |  |  |  |  |  |  | 25600 |  |  | 2.13 | 434.29 |  |
| BGM: 5 | B | +601. 1 | 2.88 | 1.44 | 86.00 | 117.82 | 203.89 | 1.87 | 381.27 | 1.26 |  |  |  |  |  |  |
| BCM 6 | 8 | +600 ${ }^{1 \mathrm{IV}}$ | 2.23 | 1.2 | 3.00 | 72.80 | 75.80 | 1.10 | 83.38 | 0.82 | 62.16 | 4. 5.50 | 94, | 1.39 | 105.36 |  |
|  |  | JIV |  |  |  |  |  |  | 96.10 |  |  | Wexmay |  | 1.25 | 105.38 |  |
| BGM: 7 |  | +600-1 | 2.32 | 1.16 | 38.50 | 45.80 | 84.30 | 1.14 | 96.10 | 0.88 |  |  |  |  |  |  |
| BGM 8 |  | $\begin{gathered} 111 / / V \\ 660 \mid .3 \end{gathered}$ | 1.75 | 0.88 | 86.00 | 43.85 | 129.85 | 0.85 | 110.37 | 0.59 | 76.61 | mate | Sh | 0.92 | 119.46 |  |
|  |  | $111 / 1 \mathrm{~V}$ |  |  |  | 8626 | 202.19 | 113 | 228.47 | 0.76 | :53.66 | Maly | Hexder | 1.29 | 260.83 |  |
| BCM 9 | 8 | 6.60) -3 | 2.15 | 1.07 | 115.93 |  |  |  |  |  |  |  |  |  |  |  |
| G: 1 |  | 3 sol [-5 | 2.20 | 1.10 | 97.77 | 75.41 | 173.18 | 1.18 | 204.35 | 0.79 | 136.81 | 4,444.92 |  | 1.32 | 22860 |  |
|  |  | Tive |  |  | \%is | , + |  | $4+1$ |  | $45$ | $\sqrt{3+2}$ | $\sqrt{2+5}$ |  | \% |  |  |
| \% m 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Biosa $1:$ |  | $\times 200: 1$ | , | - |  | $1+ \pm$ |  |  |  |  |  |  |  | $5 \%$ |  |  |

Table
GEDE8OR BLL OF QUANTITY (ITEM NO $4.3,03,04,05,07$ )

| GEDEBOR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brase |  | ? | Gap |  | R |  |  | B/O licin |  |  |  |  |  |  |  | $\begin{gathered} \text { Rem- } \\ \text { arks } \end{gathered}$ |
|  | FC | Wid: |  |  | Main | Branch |  | No03 |  |  | (1.mm | No.us |  | No07 |  |  |
|  |  |  |  | , | L-1 | L.2 | SUML | A1 | A1* | A2 | $A 2^{\circ} \mathrm{L}$ | 2.246 | $2.246^{\circ}$ | A 3 | $\mathrm{A}^{*} \mathrm{~L}$ |  |
|  |  |  |  |  |  |  | 1146 | 0.12 | 13.75 | 0.09 | 10.31 | $W_{5}+5+12$ | $64.28 .35$ | 0.20 | 22.92 |  |
| BGM: 1 | 13 | - 7 ¢ (0) $0 \cdot 2$ | 0.0 | 02. | 14.0. |  |  |  |  |  |  | Wa, |  |  |  |  |
| BGM 21 | B | $\begin{array}{\|c} 17010 \\ 9602 \\ \hline \end{array}$ | 100 | 0.5 | 120601 | 65.30 | 185.90 | 0.33 | 98.531 | 0.40 | 74.36 | 9+2.227 | 240:42:25 | 0.33 | 61.35 |  |
| B6a 3 | P | 250 | 1.91 | 0.96 | 0000 | 7.60 | 760) | 486 | 9.72 | 15.73 | 31.46 | 4. ${ }^{\text {a }}$ - 4.28 | +5, 3.32 .55 | 4.86 | 9.72 |  |
| , | 1 | $\frac{\text { IIIIV }}{5,015}$ | 2.8\% | 1.4. | 58.13 | (9). 13 | 117.26 | 1.88\% | 220.45 | 1.26 | 147.75 | $\text { 4atas } 6$ | $5$ | 2.13 | 2i) 76 |  |
|  |  | +10 |  |  | 8600 | 11789 | 203.89 | 1:87 | 381.27 | 1.26 | 256.90 | er | $18133: 05$ | 2.13 | 43+29! |  |
| EGM: |  | 4 4 60.1 | $2 \times 8$ | 1.44 |  |  |  |  |  |  |  |  |  |  |  |  |
| GGan 6 it | 13 | a (6) IV | 223 | 112 | 300 | 72.80 | 75.80 | 1.10 | 83.381 | 0.82 | 62.16 | 4, 4.55 | \% 5378.98 | 1.39 | 10536 |  |
| BGM 7 |  |  | 232 | 116 | $3 \times .50$ | 45.80 | 84.30 | 1.14 | 96.10 | 0.88 | 74.18 |  | $\mid 4438.47$ | 125 | 10538 |  |
|  |  | jilliv |  |  |  |  |  |  |  |  |  | Hedetam | $14018$ |  |  |  |
| bGM y | 13 |  | 1.75 | 0.88 | 86,00 | 4385 | 129.85 | 0.85 | 11037 | 0.59 | 76.61 |  |  | (1)2 | $19 \%$ |  |
| BGG: | 8 |  | 2.15 | 1.07 | 115.93 | 86.26 | 202.19 | 1.13 | 228.47 | 0.76 | 153.66 | $5+5+5$ | $1873.29$ | 1.29 | 26083 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 144593 |  | 2286 |  |
| 136. 11 |  | 3 sul. 5 | 220 | 110 | 97.77 | 75.41 | 173.18 | 1.18 | 20.35 | 0.79 | 136.8. | - 2 |  | A.3- |  |  |
|  |  | iN |  |  | , |  | $\cdots$ | 2\% | 2 | \% |  |  | , |  |  |  |
| : |  | $x$ |  |  |  |  |  |  |  |  |  | - |  |  |  |  |



Table BILL OF QUANTITY（ITEM NO $4,3,03,04,05,07$ ）
MERUYA
Noof：［ I

| MERUYA |  |  |  |  | 4 |  |  | 5 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No of： | － 1 | 2 | 3. |  |  |  |  | 6 |
| Bridge | FC | Width | Gap |  | Road |  | SUM L |  |  |  |  |  |  |  |  | $\mathrm{B} / \mathrm{Q} \text { Item }$ |  |  |  |  |  |  |  | Rem－ arks |
|  |  |  | $G$ | $0.5{ }^{\circ} \mathrm{G}$ | Main | Branch |  | NoO3 |  | $\mathrm{NoO} 4$ |  | No．05 |  | NOO7 |  |  |
|  |  |  |  |  | L－1 | L－2 |  | A1 | Ai＊L | A2 | A $2^{-1}$ | 2．24G | 2．24G＊ | A3 | $\mathrm{A}^{-1}$ |  |
| SsMA： | （ric） | － | \％ |  |  |  |  |  |  |  |  |  |  | \％ |  |  |  |
| 15．1．2： | $\begin{aligned} & 1515 \\ & 13 \end{aligned}$ | り！uk， |  | S\％ | orb |  |  |  |  |  |  |  |  |  |  |  |  |
| 1s．1．nt： | $\begin{aligned} & (\mathrm{SI}) \\ & 13 \end{aligned}$ | Ghimat |  | ara |  | of | at |  | Siong |  |  | atope | Giper | \％ |  |  |  |
| s，M1：14 | $\begin{aligned} & 15 \mathrm{St}, \\ & 14 \end{aligned}$ | ソ，¢ล！ |  | \％ |  |  |  |  |  |  |  |  |  | \％ |  |  |  |
| E．Mn： | $\left\lvert\, \begin{aligned} & 1851 \\ & 185 \end{aligned}\right.$ | 7 ¢uN1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6al：a | $\left(\begin{array}{l} (\$ 6) \\ 15 \end{array}\right.$ | 7 min | \％ |  | מomos |  |  | ar atider | of |  | 电 |  | orat |  |  |  |  |
| （253n9， | 18 | 7 Gun | A 4 |  | क |  | upatat |  | 保 | on | on | $\square$ |  | \％ |  |  |  |
| 9．9．91s | 1 | 75 |  |  |  |  |  |  |  |  | ation |  |  | $\cdots$ |  |  |  |
| 13，5：1\％ |  | 75int | － | ， |  | $\left\lvert\, \begin{gathered} \text { mot } \\ \hline \end{gathered}\right.$ |  |  |  | a |  | ant | कota | $4$ |  |  |  |

Tabie BILL OR QUANTITY (OTEMNO $4.3,08,00,10,12,14$ )

| Kamal main) |  |  |  |  | $0{ }^{4}$ |  |  | 5 |  |  |  |  |  |  |  |  | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bridge |  | Widh | $\frac{\text { Gap }}{G}$ |  |  |  |  | No08 |  | N(0) ${ }^{\text {B/Q }}$ Lem |  | Nol0 |  | Nol2 |  | Nol4 | Rem arks |
|  | fC |  |  | $0.5 *$ | Main | Branch |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | L-1 | L-2 | SUML | A4 | $\mathrm{AA}^{\text {L }}$ | H2 | $\mathrm{H}^{2} \mathrm{C}$ | H3 | ${ }_{4} 3^{\circ} \mathrm{L}$ | K | KL |  |  |
| 6mini ${ }^{\text {a }}$ |  |  | 1.373 | 0.6 .47 |  | 33.51 | 33.51 |  |  | \% |  | \% |  |  |  | 67.02 | SP |
| BXM 3 |  | (7.0) $11 / \mathrm{m}$ |  |  |  |  |  | 0.29 | 71.49 | 4.00 | 986.12 | 0.59 | 145.45 | $1424$ |  | 493.06 |  |
|  | 8 | 9.60) -2 | 1.797 | 0.899 | 144.02 | 102.51 | 246.53 |  |  |  |  |  |  |  |  |  |  |
|  | p |  |  |  | 00 | 2.00 | 2.00 |  | $4 x=3$ | 37.14 | 74.28 | 60.6. | 4x50,3 | 0.53 | 1.06 | 18.00 |  |
| BKM + |  | 2.50 | 2.31 | 1.065 |  |  |  |  |  |  |  |  |  |  | xatider |  |  |
| BKM 5 | (SK) | (7.0) $41 / 1 / 1$ 9.601-2 | !.159 | 0.580 | 121.30 | 0.00 | 121.30 | 0.16 | 12.41 | 4.70 | 570.11 | 0.43 | 52.16 | \% | 240:46:09 | 242.60 |  |
|  |  |  | . | 0 |  |  |  |  | 14xy |  |  |  |  | 0.38 | 0.76 | 12.80 |  |
| BKM 6 | P | 2.50 | 1.562 | 0.785 | 0.00 | 6.40 | 6.4 | 20, 25 |  | 26.86 | 53.72 |  | cereme |  |  |  |  |
| BKM 7 |  |  |  |  |  | 8.40 | 8.40 | dex | $1$ | 34.29 | 68.58 | $5$ | 43043853 | 0.53 | 1.06 | 16.80 |  |
|  | 9 | 2.50 | 2.087 | 1.044 | 0.00 |  |  |  |  |  |  |  |  | Samax |  | 147.42 |  |
| BKM 8 | B | + 60.4 | 2.106 | 1.053 | 73.71 | 0.00 | 73.71 | 0.37 | 27.27 | 4.60 | 339.07 | 0.67 |  |  |  |  |  |
| SKM. |  |  |  |  | 0.00 | 6.40 | 6.40 | $18 \mathrm{y}$ | Maters | 25.71 | 51.42 | $5 x+5$ | $24$ | 0.43 | 0.86 | 12.80 |  |
|  | P | 2.501 | 1.575 |  | 0.00 |  |  |  |  |  |  |  |  | 24tumat |  |  |  |
| SKM 10B |  | $960: 2$ | 1.832 | 0.916 | 133.60 | 189.90 | 323.50 | 0.31 | 100.29 | 4.00 | 1294.00 | 0.63 | 203.81 | 4, mam |  |  |  |
| BKM 118 |  | (7.0) [WM |  |  |  |  |  |  | 75.01 | 5.10 | 1821.72 | 0.49 | 175.03 | $\text { 3. } 1$ |  | 714.40 |  |
|  |  | 960) -2 | 1.427 | 0.714 | 90.00 | 267.20 | 357.20 | 0.2. | 75.0. |  |  |  |  |  |  |  |  |



[^2]Table BML Of QUANTITY (ITEM NO $4.3,08,09,10,12,14$ )


[^3]
Table BliL OF QUANTITY (ITEMNO $i .3,08,09,10,12,14$ )

| Nout | 2 | 3 |  | 4 |  |  | 3 |  |  |  |  |  |  |  |  | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | W, | Gap |  | Road |  |  | 13/6 liem |  |  |  |  |  |  |  |  | $\begin{array}{r} \text { Rem- } \\ \text { arks } \\ \hline \end{array}$ |
| Bridye FC |  | G | $10.5{ }^{\circ} \mathrm{F}$ | Mom | Branch | SUM L | NoU8 |  | No(1) |  | Nol0 |  | Nol2 |  | Noli |  |
|  |  |  |  | L-1 | L-2 |  | A4 | $A 4^{*}$ L | H 2 | $\mathrm{H} 2{ }^{*} \mathrm{~L}$ | H3 | $\mathrm{H}^{\circ} \mathrm{L}$ | K | K*L | $2 \cdot 5$ |  |
| csis 1210 | $\begin{gathered} 111717 \\ \times 20.1 \end{gathered}$ | 140 | 07.48 |  |  | +1 |  |  |  | , |  |  | \%rat | 1t, | ' |  |
| Bx: 1318 | $\begin{aligned} & \quad \operatorname{lim1} \\ & \times 20^{\prime}-1 \end{aligned}$ | 1248 | 0.624: | 70.40. | 0.00 | 70.40 | 0.19 | 13.3x | 2.73. | 192.19 | 0.48 | 3379 | actase | $29$ | 14080 |  |
| BKE : AB | $\begin{array}{r} \text { IV } \\ \operatorname{sen} \cdot \mathrm{S} \end{array}$ | 2204 | 1.102 | 6,500) | 9140 | 156.40 | 0.37 | 57.87 | $4 \times 8$ | 750.72: | 0.71 | 111.03? |  | $868$ | 31280 |  |
| EkE :S/B | 300.5 | 2131 | 1066. | 9636 |  | 95.36 | 0.37 | 35.28 | 46.5 | 443.42 | 0.67 | 63.89 | 6-t.53 | $545$ | 19072 |  |
| BKE 16, P | 250 | 2.164 | 1082: |  | 860. | 8.60 | ation | $\begin{array}{r} \text { Th, } \\ \hline \end{array}$ | 36.57 | 73.14 | $\begin{array}{r} 245 \\ \hline \end{array}$ | $5$ | 0.53 | 1.06 | 17.20 |  |
| \|BKE 17.P | 250 | 1.900 | 0.950 |  | 7.60 | 7.60 |  | $4$ | 30.20) | 60.58 | $0$ | $\text { 4, } 4,79$ | 0.45 | 0.90 | 15201 |  |
| BNE Is:3 | $\begin{array}{r} 11^{1} \\ +60.1 \end{array}$ | 2.148 | 1.074 | 95731 | 000. | 95.73 | 0.37 | 35.42 | 4681 | 448.02 | 0.67 | 64.14 | $0$ | $5115$ | $191+6$ |  |
| wrem mish, | $\begin{array}{r} 15 \\ +6.1 .1 \\ \hline \end{array}$ |  |  |  | ? | ¢ |  |  |  |  |  |  |  |  | $\cdots$ |  |
| uskt an! ${ }^{\text {and }}$ | f(0) -1 |  | \% | 1, | , | +, | \%- |  |  | $\square$ |  | $\qquad$ |  |  | \% |  |


[^0]:    A3:Concrete Volume of Retaining Wall(cu.m/m) [1) $: 0.5 \mathrm{G}^{*} \mathrm{~A}-0.4 \mathrm{~A} \cdot \mathrm{~A} 3^{\circ} \mathrm{L}$
    (2) $0.5 \mathrm{G}^{\circ} \mathrm{A}-0.4 \mathrm{~A}$

[^1]:    $\begin{array}{ll}\text { Note: } & \text { W-1: Width of Moin Rood ( } m \text { ) } \quad \text { SUM:A:W*L(Main+Branch) } \\ 0.05: \text { Depth of Surface Course }(m)\end{array}$
    W-1: With of Moin Rood (m)
    L-i:Length of Moin Rood (m)
    $\begin{array}{ll}\text { W.2: Width of Branch Rood ( } \mathrm{m} \text { ) } & \text { 0.15: Depth of Base Course }(\mathrm{m}) \\ \text { L-: } \mathrm{i} \text { Length of Branch Roas }(\mathrm{m}) & 0.20: \text { Sub-Base Course }(\mathrm{m})\end{array}$

[^2]:    G:Gap between bridge and ground elevation(m) 0.5 G : Average of Gap (m)

    A4:Concrete Volume or foundation (cu.m/m)
    H 2 :Fom of retaining, wall ( $\mathrm{sq} . \mathrm{m} / \mathrm{m}$ )

[^3]:    G:Gap between bridge and ground cievation(n)
    0.5G:Average or Gap (m)

    As:Concrece Volunce of foundation (curmm)
    H2:Form of retaining wall ( $\mathrm{s} \mathrm{q} . \mathrm{m} / \mathrm{m}$ )

    Nose:

