

**CONSTRUCTION OF MASEMOLA MASHATE TO MOHLODING / MAMATJEKELE ACCESS ROAD FOR MAKHUDUTHAMAGA LOCAL MUNICIPALITY**

**LIM473/MASEMOLAMA-MATJEKELE /23/24/041**

| ITEM       | LC | DESCRIPTION  | UNIT     | TENDER QUANTITY | TENDERED RATE | AMOUNT       |
|------------|----|--|----------|-----------------|---------------|--------------|
|            |    | <b>SECTION 900</b>   |          |                 |               |              |
| <b>900</b> |    | <b>TRAINING</b>  |          |                 |               |              |
| PSA9.1     |    | Provisional Sum for formal training of targeted labour   | Prov Sum | 1.00            | R 121,174.33  | R 121,174.33 |
| PSA9.2     |    | Percentage for charges and profit on the provisional sum for formal training of targeted labour (Item PSA9.1 above)                    | %        | R 121,174.33    |               | R -          |
| PSA9.3     |    | Transport and accommodation of workers for training where it is not possible to undertake the training in close proximity to the site. | Prov Sum | 1.00            | R 23,695.09   | R 23,695.09  |
| PSA9.4     |    | Percentage for charges and profit on the provisional sum for transport and accommodation of workers for training (Item PSA9.3 above)   | %        | R 23,695.09     |               | R -          |
| PSA9.5     |    | Provisional Sum for the employment and training of one tertiary students for the duration of the contract (Built Environment Studies)  | Months   | 10.00           | R 9,022.57    | R 90,225.69  |
| PSA9.6     |    | Percentage for charges and profit on the provisional sum for the employment and training of one tertiary students (Item PSA9.5 above)  | %        | R 90,225.69     |               | R -          |
| <b>900</b> |    | <b>TOTAL SECTION 900 - CARRIED TO SUMMARY</b>  |          |                 |               | R -          |

|             |  |          |              |   |            |              |          |
|-------------|--|----------|--------------|---|------------|--------------|----------|
|             | <b>SECTION 1100</b>  |          |              |   |            |              |          |
| <b>1100</b> | <b>OCCUPATIONAL HEALTH AND SAFETY</b>  |          |              |   |            |              |          |
| C11.01      | Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations.<br>The full amount will be paid in one instalment only once:   | Lump Sum | 1.00         |   | R          | -            |          |
|             | (a) The Contractor has notified the Provincial Director of the Department of Labour in writing of the project.   |          |              |   |            |              |          |
|             | (b) The Contractor has made the required initial Appointments of Employees and Sub-Contractors.  |          |              |   |            |              |          |
|             | (c) The Client has approved the Contractor's Health and Safety Plan.   |          |              |   |            |              |          |
|             | (d) The Contractor has set up his Health and Safety File.  |          |              |   |            |              |          |
| C11.02      | Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations.<br><br>The tendered rate shall represent full compensation for that part of the contractor's general obligations in terms of the Occupational Health and Safety Act and the Construction Regulations which are mainly a function of time. The sum will be paid per week only after payment for Item C11.01 has been made. This item shall also cover all updates of the files, plans and reports associated with the Occupational Health and Safety Act and the Construction Regulations. | Months   | 10.00        |   | R          | -            |          |
| C11.03      | Provision of full time Construction Safety Officer<br><br>The tendered sum shall include for the cost of a construction safety officer on a full-time basis, his overheads, transport and all others items necessary for the proper carrying out of his duties. If a part time safety officer is appointed then the amount tendered will be prorated according to the amount of time spent on the project.   | Months   | 10.00        |   | R          | -            |          |
| C11.04      | Provision of full time Construction Safety REP from the community<br><br>The tendered sum shall include for the cost of a construction safety officer on a full-time basis, his overheads, transport and all others items necessary for the proper carrying out of his duties. If a part time safety officer is appointed then the amount tendered will be prorated according to the amount of time spent on the project.  | Months   | 10.00        |   | R          | -            |          |
| C11.05      | Provisional Sum for the employment and training of one tertiary students for the duration of the contract (OHS Studies)<br><br>The tendered sum shall include for the cost of a construction safety student on a full-time basis, his overheads, transport and all others items necessary for the proper carrying out of his duties. If a part time safety student is appointed then the amount tendered will be prorated according to the amount of time spent on the project.  | Months   | 10.00        |   | R          | -            |          |
| C11.06      | Submission of the Health and Safety File<br><br>This amount will be paid only once the Contractor has met all his obligations in respect of the Occupational Health and Safety Act and the Construction Regulations and has submitted his Health and Safety File complete as envisaged on this specification to the Client's satisfaction. This must be done prior to the issue of a Certificate of Completion.  | Lump Sum | 1.00         |   | R          | -            |          |
| C11.07      | Occupational Health & Safety Agent on behalf of the Employer   |          |              |   |            |              |          |
|             | (a) Payment of OHS Agent   | Prov Sum | 1.00         | R | 346,417.63 | R 346,417.63 |          |
|             | (d) Handling cost and profit in respect of subitem C11.07(a)   | %        | R 346,417.63 |   |            | R -          |          |
| <b>1100</b> | <b>TOTAL SECTION 1100 - CARRIED TO SUMMARY</b>   |          |              |   |            | <b>R</b>     | <b>-</b> |

| <b>SECTION 1200</b> |   |                |              |   |            |              |
|---------------------|---|----------------|--------------|---|------------|--------------|
| <b>1200</b>         | <b>GENERAL REQUIREMENTS AND PROVISIONS</b>  |                |              |   |            |              |
| B12.01              | a) Locating Existing Services   | Prov Sum       | 1.00         | R | 74,022.77  | R 74,022.77  |
|                     | b) Percentage for charges and profit on the provisional sum for the Location of Existing Services (Item B12.01 (a) above)             | %              | R 74,022.77  |   |            | R -          |
| B12.02              | Hand Excavate to expose existing services   | m <sup>3</sup> | 250.00       |   |            | R -          |
| B12.03              | a) Quality control tests ordered by the engineer.   | Prov Sum       | 1.00         | R | 411,358.02 | R 411,358.02 |
|                     | b) Percentage for charges and profit on the provisional sum Quality Control Testing (Item B12.03 (a) above)                           | %              | R 411,358.02 |   |            | R -          |
| B12.04              | a) Provisional Sum for protection and/or relocation of existing services as ordered by the Engineer                                   | Prov Sum       | 1.00         | R | 288,641.98 | R 288,641.98 |
|                     | b) Percentage for charges and profit on the provisional sum for Protection / Relocation of Existing Services (Item B12.04 (a) above)  | %              | R 288,641.98 |   |            | R -          |
| B12.05              | a) Provisional for the employment of a Community Liaison Officer for the duration of the contract                                     | Months         | 10.00        | R | 8,161.68   | R 81,616.77  |
|                     | b) Percentage for charges and profit on the provisional sum for the Employment of a Community Liaison Officer (Item B12.05 (a) above) | %              | R 81,616.77  |   |            | R -          |
| B12.06              | a) Provisional for two (2) payment of contract notice boards as instructed by the engineer.   | No             | 2.00         |   |            | R -          |
| 12.07               | Complying with the Occupational Health and Safety Act (Act 85 of 1993)  |                |              |   |            |              |
|                     | (i) Provision of an OH&S health and safety plan prior to the commencement of the Works.   | Lump Sum       | 1.00         |   |            | R -          |
|                     | (ii) Medical check-up on all personnel and employees to comply with the requirements of the Act.                                      | Lump Sum       | 1.00         |   |            | R -          |
| <b>1200</b>         | <b>TOTAL SECTION 1200 - CARRIED TO SUMMARY</b>  |                |              |   |            | <b>R -</b>   |

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|--------|--|--|----------------|-------|---|---|---|
|        |  | <b>SECTION 1300</b>  |                |       |   |   |   |
| 1300   |  | <b>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</b>                                |                |       |   |   |   |
| B13.01 |  | <b>The Contractor's general obligations:</b>   |                |       |   |   |   |
|        |  | (a) Fixed obligations  | Lump Sum       | 1.00  | R | - |   |
|        |  | (b) Value-related obligations  | Lump Sum       | 1.00  | R | - |   |
|        |  | (c) Time-related obligations   | Months         | 10.00 | R | - |   |
| 1300   | <b>TOTAL SECTION 1300 - CARRIED TO SUMMARY</b> |  |                |       |   | R | - |
|        |  | <b>SECTION 1400</b>  |                |       |   |   |   |
| 1400   |  | <b>HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL</b>                       |                |       |   |   |   |
| 14.01  |  | Office and laboratory accommodation:   |                |       |   |   |   |
|        |  | (b) Offices (interior floor space only)  | m <sup>2</sup> | 90.00 | R | - |   |
|        |  | (e) Ablution units   | m <sup>2</sup> | 20.00 | R | - |   |
|        |  | (g) Kitchen facilities   | m <sup>2</sup> | 40.00 | R | - |   |
| 14.02  |  | <b>Office and laboratory furniture:</b>  |                |       |   |   |   |
|        |  | (a) Chairs:  |                |       |   |   |   |
|        | 100%   | (i) Visitors and conference  | No.            | 20.00 | R | - |   |
|        | 100%   | (ii) Desk chairs on castors  | No.            | 30.00 | R | - |   |
|        | 100%   | (d) Desks, complete with drawers and locks   | No.            | 3.00  | R | - |   |
|        | 100%   | (e) Drawing tables   | No.            | 2.00  | R | - |   |
|        | 100%   | (f) Conference tables  | No.            | 2.00  | R | - |   |
|        | 100%   | (g) White boards (1m x 1m)   | No.            | 2.00  | R | - |   |
| 14.03  |  | Office and laboratory fittings, installations and equipment:                                     |                |       |   |   |   |
|        |  | (a) Items measured by number:  |                |       |   |   |   |
|        | 100%   | (i) 220/250-volt power points  | No.            | 15.00 | R | - |   |
|        | 100%   | (iii) Double 80 watt fluorescent light fittings complete with ballast and tubes.                 | No.            | 12.00 | R | - |   |
|        | 100%   | (v) Single incandescent light fitting complete with 100-watt globes                              | No.            | 4.00  | R | - |   |
|        | 100%   | (vi) Wash-hand basins complete with taps and drains  | No.            | 1.00  | R | - |   |
|        | 100%   | (x) Fire extinguishers 9,0 kg all-purpose dry powder type, complete, mounted on wall brackets.   | No.            | 5.00  | R | - |   |
|        | 100%   | (xi) Air conditioning units with 2,2 Kw minimum capacity, mounted and with own power connection. | No.            | 2.00  | R | - |   |

|       |  |   |                |       |           |           |             |
|-------|--|---|----------------|-------|-----------|-----------|-------------|
|       | 100%   | (xiv) General purpose steel cupboards with shelves (600l)   | No.            | 2.00  |           | R         | -           |
|       | 100%   | (xix) Steel Plan Cabinets   | No.            | 1.00  |           | R         | -           |
|       | 100%   | (xx) Steel shelving   | m <sup>2</sup> | 10.00 |           | R         | -           |
|       | 100%   | (xxiv) Steel tables   | m <sup>2</sup> | 2.00  |           | R         | -           |
|       | 100%   | (xxviii) Venetian blinds for windows (at 25% of floor area)   | m <sup>2</sup> | 22.00 |           | R         | -           |
|       | 100%   | (xxx1) White board  | m <sup>2</sup> | 1.00  |           | R         | -           |
|       | 100%   | (xxxii) Kitchen type sink with steel cupboard   | No.            | 1.00  |           | R         | -           |
|       | 100%   | (xxxiii) Small table (for computer and printer)   | No.            | 1.00  |           | R         | -           |
|       |  | (b) Prime-cost items and items measured and paid for in a lump sum:   |                |       |           |           |             |
|       |  | (i) Provision of telephone service, including cost of calls in connection with contract administration and telephone rental   | Prov Sum       | 1.00  | R         | 59,041.34 | R 59,041.34 |
|       |  | (ii) Percentage for charges and profit on the provisional sum for the Provision of Telephone Service (Item 14.03(b)(i) above) | %              | R     | 59,041.34 |           | R -         |
|       |  | (c) Items measured by area:   |                |       |           |           |             |
|       |  | (viii) Notice boards (soft board complete with frames)  | m <sup>2</sup> | 4.00  |           | R         | -           |
| 14.04 |  | Car ports, as specified, at offices and laboratory buildings  | No.            | 8.00  |           | R         | -           |
| 14.08 |  | Services  |                |       |           |           |             |
|       |  | (a) Services at office and laboratories:  |                |       |           |           |             |
|       |  | (i) Fixed costs   | Lump Sum       | 1.00  |           | R         | -           |
|       |  | (ii) Running costs  | Months         | 10.00 |           | R         | -           |
| 14,10 |  | Provision of photostat facilities.  | Months         | 10.00 |           | R         | -           |
| 1400  | <b>TOTAL SECTION 1400 - CARRIED TO SUMMARY</b> |   |                |       |           | R         | -           |

| <b>SECTION 1500</b> |  |   |                |          |  |          |          |
|---------------------|--|---|----------------|----------|--|----------|----------|
| <b>1500</b>         |  | <b>ACCOMODATION OF TRAFFIC</b> - To be implemented by appointed local sub-contractor  |                |          |  |          |          |
| B15.01              |  | Accommodation of traffic and maintaining temporary deviations (By-Pass)               | km             | 5.30     |  | R -      |          |
| L15.02              |  | Percentage allowance for Handling and Management Cost in respect of item B15.01 above | %              | R -      |  | R -      |          |
| B15.03              |  | Temporary traffic-control facilities  |                |          |  |          |          |
|                     |  | (a) Flagmen   | man-days       | 1,200.00 |  | R -      |          |
|                     |  | (b) Portable STOP and GO-RY signs   | No             | 4.00     |  | R -      |          |
|                     |  | (d) Amber flicker lights (100 W)  | No             | 10.00    |  | R -      |          |
|                     |  | (e) Road signs, R-and TR-series   | No             | 20.00    |  | R -      |          |
|                     |  | (f) Road signs, TW-series (1 500)   | No             | 10.00    |  | R -      |          |
|                     |  | (g) Road signs, STW-, DTG-, TGS- and TG-series (excluding delineators and barricades) | m <sup>2</sup> | 100.00   |  | R -      |          |
|                     |  | (h) Delineators   |                |          |  |          |          |
|                     |  | (i) Single (800x200)  | No             | 300.00   |  | R -      |          |
|                     |  | (ii) Mounted back to back   | No             | 400.00   |  | R -      |          |
|                     |  | (i) Moveable barricade/road sign combination  | No             | 10.00    |  | R -      |          |
|                     |  | (m) Two-way communication devices   | No             | 8.00     |  | R -      |          |
|                     |  | (n) Road signs, TW-series, 1500 mm Triangular sides including TIN, 1500 x 400         | No             | 20.00    |  | R -      |          |
|                     |  | (o) Road signs, TW-series, 1 200 x 1 600 including TIN, 1 200 x 400                   | No             | 20.00    |  | R -      |          |
| B15.04              |  | Relocation of traffic-control facilities  | No             | 10.00    |  | R -      |          |
| B15.10              |  | Accommodation of traffic where the road is constructed                                | km             | 5.30     |  | R -      |          |
| B15.11              |  | Traffic signals   |                |          |  |          |          |
|                     |  | (a) Supply of traffic signals(one construction area: two set-ups)                     | No             | 2.00     |  | R -      |          |
|                     |  | (b) Operating and maintaining of traffic signals provided under subitem (a)           | Months         | 10.00    |  | R -      |          |
| <b>1500</b>         |  | <b>TOTAL SECTION 1500 - CARRIED TO SUMMARY</b>  |                |          |  | <b>R</b> | <b>-</b> |

|             |  |  |          |            |            |            |
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|             |  | <b>SECTION 1600</b>  |          |            |            |            |
| <b>1600</b> |  | <b>OVERHAUL</b> - To be implemented by appointed local sub-contractor  |          |            |            |            |
| 16.01       |  | Overhaul on material hauled in excess of a free-haul distance of 0,5 km for haul up to or through 5,0 km (restricted overhaul)                     | m³       | 110,000.00 |            | R -        |
| 16.02       |  | Overhaul on material hauled in excess of 5,0 km (ordinary overhaul of mass earthworks)   | m³-km    | 95,400.00  |            | R -        |
| L16.03      |  | Percentage allowance for Handling and Management Cost in respect of items 16.01 and 16.02 above  | %        | R -        |            | R -        |
| <b>1600</b> | <b>TOTAL SECTION 1600 - CARRIED TO SUMMARY</b> |  |          |            |            | <b>R -</b> |
|             |  | <b>SECTION 1700</b>  |          |            |            |            |
| <b>1700</b> |  | <b>CLEARING AND GRUBBING</b>   |          |            |            |            |
| 17.01       |  | Clearing and grubbing  | Ha       | 7.20       |            | R -        |
| 17.02       |  | Removal and grubbing of large trees and tree stumps  |          |            |            |            |
|             |  | (a) Girth exceeding 1m up to and including 2m  | No       | 40.00      |            | R -        |
|             |  | (b) Girth exceeding 2m up to and including 3m  | No       | 25.00      |            | R -        |
| 17.03       |  | Re-clearing of surfaces (on the written instructions of the Engineer only)   | Ha       | 7.20       |            | R -        |
| 17.04       |  | Clearing and grubbing at inlets and outlets of hydraulic structures  | m²       | 10.00      |            | R -        |
| 17.05       |  | Cleaning out of hydraulic structures   |          |            |            |            |
|             |  | (d) Box culverts exceeding 1.5m vertical dimension   | m³       | 6.00       |            | R -        |
| L17.06      |  | Percentage allowance for Handling and Management Cost in respect of items 17.01 and 17.04 above  | %        | -          |            | R -        |
| 17.07       |  | Removal and storage of selected vegetation   |          |            |            |            |
|             |  | (a) Cost of removal, storing, protection and replanting in a protected and fenced- off area of selected vegetation                                 | Prov Sum | 1.00       | R 7,095.87 | R 7,095.87 |
| L17.07      |  | Percentage for charges and profit on the provisional sum for Removal, Storing, Protection and Replanting of selected Vegetation (Item 17.07 above) | %        | R 7,095.87 |            | R -        |
| <b>1700</b> | <b>TOTAL SECTION 1700 - CARRIED TO SUMMARY</b> |  |          |            |            | <b>R -</b> |

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|              | <b>SECTION 1800</b>  |    |      |  |            |
| <b>B1800</b> | <b>DAYWORKS</b>  |    |      |  |            |
| B18.01       | Dayworks   |    |      |  |            |
|              | (a) Normal hours of duty                                   |    |      |  |            |
|              | (i) Foreman  | hr | 1.00 |  | Rate Only  |
|              | (ii) Chargehand  | hr | 1.00 |  | Rate Only  |
|              | (iii) Labourer   | hr | 1.00 |  | Rate Only  |
|              | (b) Sundays, gazetted holidays and overtime                |    |      |  |            |
|              | (i) Foreman  | hr | 1.00 |  | Rate Only  |
|              | (ii) Chargehand  | hr | 1.00 |  | Rate Only  |
|              | (iii) Labourer   | hr | 1.00 |  | Rate Only  |
| B18.02       | Hire of construction equipment                             |    |      |  |            |
|              | (i) Compressor, capacity smaller than 10m <sup>3</sup> /hr | hr | 1.00 |  | Rate Only  |
|              | (ii) Compressor, capacity larger than 10m <sup>3</sup> /hr | hr | 1.00 |  | Rate Only  |
|              | (iii) Light utility vehicle up to 1 ton capacity           | hr | 1.00 |  | Rate Only  |
|              | (iv) Tipper truck up to 7m <sup>3</sup> capacity           | hr | 1.00 |  | Rate Only  |
|              | (v) Motor grader (110kW)                                   | hr | 1.00 |  | Rate Only  |
|              | (vi) TLB   | hr | 1.00 |  | Rate Only  |
|              | (11) Front end loader                                      | hr | 1.00 |  | Rate Only  |
|              | (12) D6 Bulldozer  | hr | 1.00 |  | Rate Only  |
| <b>1800</b>  | <b>TOTAL SECTION 1800 - CARRIED TO SUMMARY</b>             |    |      |  | <b>R -</b> |

|             |  |   |                |           |   |          |          |
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|             |  | <b>SECTION 2300</b>   |                |           |   |          |          |
| 23          |  | <b>CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS - To be implemented by appointed local sub-contractor</b> |                |           |   |          |          |
| 23.01       |  | Concrete kerbing:   |                |           |   |          |          |
|             |  | <b>(a) Precast kerb to SABS 927</b>   |                |           |   |          |          |
|             |  | (vii) Figure 8c kerb  | m              | 5,900.00  | R | -        |          |
|             |  | (viii) Figure 10 kerb   | m              | 5,900.00  | R | -        |          |
| 23.07       |  | Trimming of excavations for concrete-lined open drains:   |                |           |   |          |          |
|             |  | (i) V-shaped side drain on one sides of road  |                |           |   |          |          |
|             |  | (a) In soft material  | m <sup>2</sup> | 13,000.00 | R | -        |          |
| 23.08       |  | Concrete lining for open drains   |                |           |   |          |          |
|             |  | (a) Cast in-situ concrete lining class 30/19 (120mm thick)  |                |           |   |          |          |
|             |  | (i) V-shaped side drain on one sides of road  | m <sup>3</sup> | 1,500.00  | R | -        |          |
|             |  | (b) Class U2 surface finish to cast in-situ concrete  |                |           |   |          |          |
|             |  | (i) V-shaped side drain on one sides of road  | m <sup>2</sup> | 10,730.00 | R | -        |          |
| 23.09       |  | Formwork to cast in-situ concrete lining for open drains (Class F2 surface finish)  |                |           |   |          |          |
|             |  | (a) To sides with formwork on the internal face only  | m <sup>2</sup> | 1,400.00  | R | -        |          |
|             |  | (c) To ends of slabs  | m <sup>2</sup> | 140.00    | R | -        |          |
| 23.10       |  | Sealed joints in concrete linings of open drains  |                |           |   |          |          |
|             |  | (a) Dow Corning 888 sealants  | m              | 3,200.00  | R | -        |          |
| 23.12       |  | Steel reinforcement   |                |           |   |          |          |
|             | 100%   | (c) Welded steel fabric (ref. 395) Mesh   | kg             | 51,000.00 | R | -        |          |
| 23.13       | 100%   | Polyethylene sheeting (0,15mm thick) for concrete-lined open drains   | m <sup>2</sup> | 15,000.00 | R | -        |          |
| 23.14       |  | Cutting bituminous surfacing and pavement layers for concrete kerbing, channelling or concrete-lined drains:  |                |           |   |          |          |
|             |  | (a) In paved road   | m              | 400.00    | R | -        |          |
| 23.15       |  | Precast concrete blocks in outlet structures  | No.            | 50.00     | R | -        |          |
| L23.16      |  | Percentage allowance for Handling and Management Cost in respect of item 23.01 to 23.15 above   | %              | R -       | R | -        |          |
| <b>2300</b> | <b>TOTAL SECTION 2300 - CARRIED TO SUMMARY</b> |   |                |           |   | <b>R</b> | <b>-</b> |

| <b>SECTION 3300</b>    |   |                |           |   |   |
|------------------------|---|----------------|-----------|---|---|
| <b>MASS EARTHWORKS</b> |   |                |           |   |   |
| 33                     |   |                |           |   |   |
| 33.01                  | Cut and borrow to fill, including free-haul up to 5.0 km            |                |           |   |   |
|                        | (a) Gravel material in compacted layer thickness of 150mm and less: |                |           |   |   |
|                        | (ii) Compacted to 93% of modified AASHTO density                    | m <sup>3</sup> | 10,800.00 | R | - |
| 33.02                  | Fill material from commercial source:                               |                |           |   |   |
|                        | (a) Gravel material in compacted layer thickness of 150mm and less: |                |           |   |   |
|                        | (ii) Compacted to 93% of modified AASHTO density                    | m <sup>3</sup> | 7,100.00  | R | - |
| 33.03                  | Extra-over item 33.01 for excavating and breaking down material in: |                |           |   |   |
|                        | (a) Intermediate excavation   | m <sup>3</sup> | 4,600.00  | R | - |
| 33.04                  | Cut to spoil, including free-haul up to 5.0 km.                     |                |           |   |   |
|                        | Material obtained from:   |                |           |   |   |
|                        | (a) Soft excavation -   | m <sup>3</sup> | 200.00    | R | - |
|                        | (b) Intermediate excavation   | m <sup>3</sup> | 180.00    | R | - |
|                        | (c) Hard excavation / Blasting                                      | m <sup>3</sup> | 13,500.00 | R | - |
| 33.07                  | Removal of unstable material, including free-haul up to 5.0 km:     |                |           |   |   |
|                        | (a) In layer thicknesses of 200mm or less:                          |                |           |   |   |
|                        | (i) Stable material   | m <sup>3</sup> | 4,050.00  | R | - |
|                        | (ii) Unstable material  | m <sup>3</sup> | 4,800.00  | R | - |
| 33.09                  | Material bladed to windrow:   | m <sup>3</sup> | 3,500.00  | R | - |
| 33.10                  | Roadbed preparation and compaction of material:                     |                |           |   |   |
|                        | (b) Compacted to 93% of modified AASHTO density                     | m <sup>3</sup> | 10,800.00 | R | - |

|             |   |                |           |  |   |          |          |
|-------------|---|----------------|-----------|--|---|----------|----------|
| 33.11       | Three-roller-passes compaction:   |                |           |  |   |          |          |
|             | (a) Vibratory roller  | m <sup>2</sup> | 72,000.00 |  | R | -        |          |
| 33.12       | In-situ treatment of roadbed:   |                |           |  |   |          |          |
|             | (a) In-situ treatment by ripping  | m <sup>3</sup> | 4,890.00  |  | R | -        |          |
|             | (b) In-situ treatment by blasting   | m <sup>3</sup> | 5,900.00  |  | R | -        |          |
| 33.13       | Finishing-off cut and fill slopes medians and interchange areas:                              |                |           |  |   |          |          |
|             | (a) Cut slopes  | m <sup>2</sup> | 39,300.00 |  | R | -        |          |
|             | (b) Fill slopes   | m <sup>2</sup> | 32,600.00 |  | R | -        |          |
|             | (c) Medians and interchange areas   | m <sup>2</sup> | 10,000.00 |  | R | -        |          |
| 33.14       | Extra-over item 33.01 for excavating material from the pavements and fills of existing roads: |                |           |  |   |          |          |
|             | (a) Non-cemented material   | m <sup>3</sup> | 7,500.00  |  | R | -        |          |
| <b>3300</b> | <b>TOTAL SECTION 3300 - CARRIED TO SUMMARY</b>  |                |           |  |   | <b>R</b> | <b>-</b> |

|             |   |                |           |  |   |          |          |
|-------------|---|----------------|-----------|--|---|----------|----------|
|             | <b>SECTION 3400</b>   |                |           |  |   |          |          |
| <b>34</b>   | <b>PAVEMENT LAYERS OF GRAVEL MATERIAL</b>   |                |           |  |   |          |          |
| 34.01       | Pavement layers constructed from gravel obtained from cut or borrow including free-haul up to 1,0 km: |                |           |  |   |          |          |
|             | (a) Gravel selected layer compacted to:   |                |           |  |   |          |          |
|             | (ii) 95% of modified AASHTO density (150mm G7)  | m <sup>3</sup> | 8,800.00  |  | R | -        |          |
|             | (d) Gravel subbase (chemically stabilized material) compacted to:                                     |                |           |  |   |          |          |
|             | (i) 97% of modified AASHTO density (300mm C4)   | m <sup>3</sup> | 8,800.00  |  | R | -        |          |
| 34.03       | Pavement layers constructed from gravel obtained from existing pavement layers:                       |                |           |  |   |          |          |
|             | (b) Gravel selected layer compacted to 95% of modified AASHTO density, using:                         |                |           |  |   |          |          |
|             | (i) Non-cemented material (150mm G7)  | m <sup>3</sup> | 2,500.00  |  | R | -        |          |
| 34.04       | In-situ reconstruction of existing pavement layers as:  |                |           |  |   |          |          |
|             | (b) Gravel selected layer compacted to 95% of modified AASHTO density, using:                         |                |           |  |   |          |          |
|             | (i) Non-cemented material (150mm G7)  | m <sup>3</sup> | 2,500.00  |  | R | -        |          |
| 34.07       | Extra-over item 34.04 for temporarily blading the material to windrow                                 | m <sup>3</sup> | 250.00    |  | R | -        |          |
| <b>3400</b> | <b>TOTAL SECTION 3400 - CARRIED TO SUMMARY</b>  |                |           |  |   | <b>R</b> | <b>-</b> |
|             | <b>SECTION 3500</b>   |                |           |  |   |          |          |
| <b>3500</b> | <b>STABILIZATION</b>  |                |           |  |   |          |          |
| 35.01       | Chemical stabilization; extra over un-stabilized compacted layers:                                    |                |           |  |   |          |          |
|             | (b) Selected Layer  |                |           |  |   |          |          |
|             | (ii) 150mm thickness C4   | m <sup>3</sup> | 10,800.00 |  | R | -        |          |
|             | (b) Sub-base Layer  |                |           |  |   |          |          |
|             | (ii) 150mm thickness C4   | m <sup>3</sup> | 8,800.00  |  | R | -        |          |
|             | (b) Base Layer  |                |           |  |   |          |          |
|             | (v) 150mm thickness C3  | m <sup>3</sup> | 7,300.00  |  | R | -        |          |
| 35.02       | Chemical stabilizing agent:   |                |           |  |   |          |          |
|             | (a) CEM V S-V 32,5N cement  | t              | 2,000.00  |  | R | -        |          |
| 35.04       | Provision and application of water for curing   | kl             | 2,000.00  |  | R | -        |          |
| <b>3500</b> | <b>TOTAL SECTION 3500 - CARRIED TO SUMMARY</b>  |                |           |  |   | <b>R</b> | <b>-</b> |

|             |   |                |           |   |   |          |          |
|-------------|---|----------------|-----------|---|---|----------|----------|
|             | <b>SECTION 3800</b>   |                |           |   |   |          |          |
| <b>3800</b> | <b>BREAKING UP OF EXISTING PAVEMENT LAYERS - To be implemented by appointed local sub-contractor:</b>   |                |           |   |   |          |          |
| 38.01       | Excavating and removing existing bituminous material  |                |           |   |   |          |          |
|             | (b) Material to be disposed of with the average depth of excavation:                                    |                |           |   |   |          |          |
|             | (i) Not exceeding 30mm  | m <sup>2</sup> | 500.00    |   | R | -        |          |
| B38.04      | Excavating and spoiling material from an existing pavement and/or the underlying fill                   |                |           |   |   |          |          |
|             | (a) Non-cemented material   | m <sup>3</sup> | 200.00    |   | R | -        |          |
|             | (b) Cemented Material   | m <sup>3</sup> | 200.00    |   | R | -        |          |
|             | (c) Cemented Crushed Stone  | m <sup>3</sup> | 200.00    |   | R | -        |          |
| 38.08       | Sawing or cutting asphalt or cemented pavement layers:  |                |           |   |   |          |          |
|             | (b) Cutting asphalt   | m              | 450.00    |   | R | -        |          |
| L38.09      | Percentage allowance for Handling and Management Cost in respect of items 38.01, B38.04 and 38.08 above | %              | R         | - | R | -        |          |
| <b>3800</b> | <b>TOTAL SECTION 3800 - CARRIED TO SUMMARY</b>  |                |           |   |   | <b>R</b> | <b>-</b> |
|             | <b>SECTION 4100</b>   |                |           |   |   |          |          |
| <b>4100</b> | <b>PRIME COAT</b>   |                |           |   |   |          |          |
| 41.01       | Prime coat:   |                |           |   |   |          |          |
|             | (a) MSP/1 prime   | litre          | 36,600.00 |   | R | -        |          |
| 41.02       | Aggregate for blinding  | m <sup>2</sup> | 52,300.00 |   | R | -        |          |
| L41.03      | Percentage allowance for Handling and Management Cost in respect of items 41.01 and 41.02 above         | %              | R         | - | R | -        |          |
| <b>4100</b> | <b>TOTAL SECTION 4100 - CARRIED TO SUMMARY</b>  |                |           |   |   | <b>R</b> | <b>-</b> |

|             |   |                |           |   |   |          |          |
|-------------|---|----------------|-----------|---|---|----------|----------|
|             | <b>SECTION 4200</b>   |                |           |   |   |          |          |
| <b>4200</b> | <b>ASPHALT BASE AND SURFACING</b>   |                |           |   |   |          |          |
| 42.02       | Asphalt surfacing:  |                |           |   |   |          |          |
|             | (a) Continuously graded medium asphalt  |                |           |   |   |          |          |
|             | (iii) 30mm thick  | m <sup>2</sup> | 52,300.00 |   | R | -        |          |
| 42.04       | Tack coat of 30% stable-grade emulsion  | litre          | 15,700.00 |   | R | -        |          |
| 42.05       | Binder variations:  |                |           |   |   |          |          |
|             | (a) Penetration grade bitumen   | t              | 500.00    |   | R | -        |          |
| L42.06      | Percentage allowance for Handling and Management Cost in respect of items 42.01, 42.04 and 42.05 above            | %              | R         | - | R | -        |          |
| 42.07       | Construction of Hot Graded Asphalt speed hump as per the specification (marking included)                         | No             | 30.00     |   | R | -        |          |
| <b>4200</b> | <b>TOTAL SECTION 4200 - CARRIED TO SUMMARY</b>  |                |           |   |   | <b>R</b> | <b>-</b> |
|             | <b>SECTION 5100</b>   |                |           |   |   |          |          |
| <b>5100</b> | <b>PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION - To be implemented by appointed local sub-contractor:</b> |                |           |   |   |          |          |
| 51.01       | Stone pitching:   |                |           |   |   |          |          |
|             | (b) Grouted stone pitching  |                |           |   |   |          |          |
|             | (i) At concrete lined V-drain outlet  | m <sup>2</sup> | 1,000.00  |   | R | -        |          |
| 51.04       | Concrete pitching and block paving  |                |           |   |   |          |          |
|             | (b) Segmental block paving (80mm interlocking)  | m <sup>2</sup> | 500.00    |   | R | -        |          |
| L51.05      | Percentage allowance for Handling and Management Cost in respect of items 51.01 and 51.04 above                   | %              | R         | - | R | -        |          |
| <b>5100</b> | <b>TOTAL SECTION 5100 - CARRIED TO SUMMARY</b>  |                |           |   |   | <b>R</b> | <b>-</b> |

| <b>SECTION 5600</b> |  |  |                |        |   |           |          |
|---------------------|--|--|----------------|--------|---|-----------|----------|
| <b>5600</b>         |  | <b>ROAD SIGNS</b> - To be implemented by appointed local sub-contractor:   |                |        |   |           |          |
| 56.01               |  | Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class 1 retro-reflective material, where the sign board is constructed from: |                |        |   |           |          |
|                     |  | (c) Pre-painted galvanized steel plate (chromadek or approved equivalent):   |                |        |   |           |          |
|                     | 100%   | (i) Area not exceeding 2m <sup>2</sup>   | m <sup>2</sup> | 100.00 | R | -         |          |
| 56.02               |  | Extra-over item 56.01 for using:   |                |        |   |           |          |
|                     |  | (a) Background of retro-reflective material:   |                |        |   |           |          |
|                     |  | (i) Class III  | m <sup>2</sup> | 100.00 | R | -         |          |
| 56.03               |  | Road sign supports   |                |        |   |           |          |
|                     |  | (a) Steel tubing (galvanized in accordance with SABS 763)  |                |        |   |           |          |
|                     | 100%   | (i) 51mm dia. circular hollow section, 2mm wall thickness  | t              | 25.00  | R | -         |          |
|                     | 100%   | (ii) 63mm dia. circular hollow section, 2mm wall thickness   | t              | 25.00  | R | -         |          |
|                     | 100%   | (iii) 76mm dia. D-shape, 2mm wall thickness  | t              | 5.00   | R | -         |          |
|                     |  | (b) Timber (SABS 754, and treated in accordance with SABS 05 with creosote complying with SABS 538 or 539)   |                |        |   |           |          |
|                     |  | (i) 100mm dia.   | m              |        |   | Rate Only |          |
|                     |  | (ii) 125mm dia.  | m              |        |   | Rate Only |          |
|                     |  | (iii) 150mm dia.   | m              | 100.00 | R | -         |          |
|                     |  | (iv) 175mm dia.  | m              |        |   |           |          |
| 56.05               |  | Excavation and backfilling for road sign supports  | m <sup>3</sup> | 10.00  | R | -         |          |
| 56.07               |  | Extra-over item 56.05 for rock excavation  | m <sup>3</sup> |        |   |           |          |
| L56.08              |  | Percentage allowance for Handling and Management Cost in respect of items 56.01 to 56.07 above   | %              | -      | R | -         |          |
|                     |  | W332 (Speed hump warning sign with 40km/h speed limit sign beneath)  | No             | 60.00  | R | -         |          |
|                     |  | W417 (Speed hump danger plate)   | No             | 60.00  | R | -         |          |
|                     |  | W416 (Speed hump danger plate)   | No             | 60.00  | R | -         |          |
|                     |  | W306 (Pedestrian crossing speed hump warning sign)   | No             | 30.00  | R | -         |          |
|                     |  | R1 – Stop Road Sign  | No             | 10.00  | R | -         |          |
| <b>5600</b>         | <b>TOTAL SECTION 5600 - CARRIED TO SUMMARY</b> |  |                |        |   | <b>R</b>  | <b>-</b> |

|             |  |                |        |  |   |           |          |
|-------------|--|----------------|--------|--|---|-----------|----------|
|             | <b>SECTION 5700</b>  |                |        |  |   |           |          |
| <b>5700</b> | <b>ROAD MARKINGS</b> - To be implemented by appointed local sub-contractor:                                    |                |        |  |   |           |          |
| 57.02       | Retro-reflective road marking paint:   |                |        |  |   |           |          |
|             | (a) White lines (broken or unbroken)   |                |        |  |   |           |          |
|             | (i) 100mm wide   | km             | 5.30   |  | R | -         |          |
|             | (ii) 150mm wide  | km             | 5.30   |  | R | -         |          |
|             | (iii) 200mm wide   | km             | -      |  |   | Rate Only |          |
|             | (iv) 500mm wide  | km             | -      |  |   | Rate Only |          |
|             | (b) Yellow lines (broken or unbroken)  |                |        |  |   |           |          |
|             | (i) 100mm wide   | km             | 10.60  |  | R | -         |          |
|             | (d) White lettering and symbols  | m <sup>2</sup> | 200.00 |  | R | -         |          |
|             | (e) Yellow lettering and symbols   | m <sup>2</sup> | 200.00 |  | R | -         |          |
|             | (f) Transverse lines, painted island and arrestor bed markings (any colour)                                    | m <sup>2</sup> | 120.00 |  | R | -         |          |
| 57.04       | Variations in rate of application:   |                |        |  |   |           |          |
|             | (a) White paint  | litre          | 100.00 |  | R | -         |          |
|             | (b) Yellow paint   | litre          | 100.00 |  | R | -         |          |
| 57.05       | Road studs   |                |        |  |   |           |          |
|             | (a) Bi-directional   |                |        |  |   |           |          |
|             | (ii) Stimsonite or similar   | No.            | 150.00 |  | R | -         |          |
| B57.06      | Setting out and pre-marking the lines (Excluding traffic-island markings, lettering and symbols)               | km             | 16.00  |  | R | -         |          |
| B57.07      | Re-establishing the painting unit at the end of the maintenance period (and repainting the lines and markings) | Lump Sum       | 1.00   |  | R | -         |          |
| L57.08      | Percentage allowance for Handling and Management Cost in respect of items 57.01 to B57.07 above                | %              | -      |  | R | -         |          |
| <b>5700</b> | <b>TOTAL SECTION 5700 - CARRIED TO SUMMARY</b>   |                |        |  |   | <b>R</b>  | <b>-</b> |

|             |  |  |          |              |              |              |
|-------------|--|--|----------|--------------|--------------|--------------|
|             |  | <b>SECTION 5800</b>  |          |              |              |              |
| <b>5800</b> |  | <b>LANDSCAPING AND PLANTING PLANTS</b>   |          |              |              |              |
| 58.01       |  | Landscaping and rehabilitation of area including embankment hydroseeding and vegetation re-establishment                       | Prov.Sum | 1.00         | R 120,000.00 | R 120,000.00 |
| L58.02      |  | Percentage allowance for Handling and Management Cost in respect of item 58.01 above   | %        | R 120,000.00 |              | R -          |
|             |  | Provisional sum for the Environmental Impact Assessment by a specialist  | Prov.Sum | 1.00         | R 640,000.00 | R 640,000.00 |
|             |  | Percentage allowance for Handling and Management Cost in respect of item above   | %        | R 640,000.00 |              | R -          |
| <b>5800</b> | <b>TOTAL SECTION 5800 - CARRIED TO SUMMARY</b> |  |          |              |              | <b>R -</b>   |
|             |  | <b>SECTION 5900</b>  |          |              |              |              |
| <b>5900</b> |  | <b>FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS - To be implemented by appointed local sub-contractor:</b>       |          |              |              |              |
| 59.01       |  | Finishing the road and road reserve:   |          |              |              |              |
|             |  | (a) Single carriageway roads   | km       | 5.30         |              | R -          |
| 59.02       |  | Treatment of old roads and temporary deviations  | km       | 5.30         |              | R -          |
| L59.03      |  | Percentage allowance for Handling and Management Cost in respect of items 59.01 and 59.02 above                                | %        | R -          |              | R -          |
| <b>5900</b> | <b>TOTAL SECTION 5900 - CARRIED TO SUMMARY</b> |  |          |              |              | <b>R -</b>   |
|             |  | <b>SECTION 8100</b>  |          |              |              |              |
| <b>8100</b> |  | <b>TESTING MATERIALS AND WORKMANSHIP</b>   |          |              |              |              |
| 81.01       |  | Special tests on elastomeric bearings  | No       | 100.00       | R 419.09     | R 41,909.00  |
| 81.02       |  | a) Other special tests requested by the engineer   | Prov Sum | 1.00         | R 244,505.49 | R 244,505.49 |
|             |  | b) Percentage for charges and profit on the provisional sum for Other Special Tests Requested (Item 81.01 and 81.02 (a) above) | %        | R 286,414.49 |              | R -          |
| <b>8100</b> | <b>TOTAL SECTION 8100 - CARRIED TO SUMMARY</b> |  |          |              |              | <b>R -</b>   |

|             |  | <b>SECTION 8500</b>   |      |   |            |              |          |
|-------------|--|---|------|---|------------|--------------|----------|
| <b>8500</b> |  | <b>RELOCATION OF SERVICES-</b> To be implemented by appointed local sub-contractor: |      |   |            |              |          |
| 85.01       | a) Prov. Sum for relocation of Eskom Poles   | Prov Sum  | 1.00 | R | 470,000.00 | R 470,000.00 |          |
|             | b) Percentage for charges and profit on the provisional sum for the Relocation of Known Services (Item 85.01 (a) above)      | %   |      | R | 470,000.00 | R -          |          |
| 85.02       | c) Prov. Sum for the relocation of fence and boundary walls  | Prov Sum  | 1.00 | R | 257,415.28 | R 257,415.28 |          |
|             | d) Percentage for charges and profit on the provisional sum for the Relocation of Unknown Services (Item 85.02 (c) above)    | %   |      | R | 257,415.28 | R -          |          |
| 85.03       | e) Prov. Sum for the relocation of Water/Sanitation pipe markers   | Prov Sum  | 1.00 | R | 175,042.39 | R 175,042.39 |          |
|             | f) Percentage for charges and profit on the provisional sum for the Relocation of Unknown Services (Item 85.03 (e) above)    | %   |      | R | 175,042.39 | R -          |          |
| 85.04       | g) Prov. Sum for the Application and Approval of the wayleave to join on RAL Road  | Prov Sum  | 1.00 | R | 831,792.34 | R 831,792.34 |          |
|             | h) Percentage for charges and profit on the provisional sum for the wayleave application and approval (Item 85.04 (g) above) | %   |      | R | 831,792.34 | R -          |          |
| <b>8500</b> | <b>TOTAL SECTION 8500 - CARRIED TO SUMMARY</b>   |   |      |   |            | <b>R</b>     | <b>-</b> |

**CONSTRUCTION OF MASEMOLA MASHATE TO MOHLODING / MAMATJEKELE ACCESS ROAD FOR MAKHUDUTHAMAGA LOCAL MUNICIPALITY  
LIM473/MASEMOLAMA-MATJEKELE /23/24/041**

**SUMMARY**

| <b>ITEM No</b> | <b>DESCRIPTION</b>   | <b>AMOUNT</b> |
|----------------|--|---------------|
| 900            | TRAINING   | R -           |
| 1100           | OCCUPATIONAL HEALTH AND SAFETY   | R -           |
| 1200           | GENERAL REQUIREMENTS AND PROVISIONS  | R -           |
| 1300           | CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS   | R -           |
| 1400           | HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL                                | R -           |
| 1500           | ACCOMODATION OF TRAFFIC  | R -           |
| 1600           | OVERHAUL   | R -           |
| 1700           | CLEARING AND GRUBBING  | R -           |
| 1800           | DAYWORKS   | R -           |
| 2300           | CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS | R -           |
| 3300           | MASS EARTHWORKS  | R -           |
| 3400           | PAVEMENT LAYERS OF GRAVEL MATERIAL   | R -           |
| 3500           | STABILIZATION  | R -           |
| 3800           | BREAKING UP OF EXISTING PAVEMENT LAYERS  | R -           |
| 4100           | PRIME COAT   | R -           |
| 4200           | ASPHALT BASE AND SURFACING   | R -           |
| 5100           | PITCHING, STONWORK AND PROTECTION AGAINST EROSION  | R -           |
| 5600           | ROAD SIGNS   | R -           |
| 5700           | ROAD MARKINGS  | R -           |
| 5800           | LANDSCAPING AND PLANTING PLANTS  | R -           |
| 5900           | FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS   | R -           |
| 8100           | TESTING MATERIALS AND WORKMANSHIP  | R -           |
| 8500           | RELOCATION OF SERVICES   | R -           |
|                | <b>SUB-TOTAL</b>   | R -           |
|                | <b>VAT</b>   | R -           |
|                | <b>TOTAL</b>   | R -           |