

**CONSTRUCTION OF GRAVEL ROAD TO TAR - MAIJANE, MAKUUNG AND MAKAEPEA**  
**CONTRACT NUMBER: LNM 025/2021/22**  
**LEPELLE-NKUMPI LOCAL MUNICIPALITY**

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>GENERAL REQUIREMENTS AND PROVISIONS</b>				
<b>B12.02</b>	<b>Services</b>				
	(a) Relocation and Protection of existing services	Prov. Sum	1,00	50 000,00	50 000,00
	(b) Handling cost and profit in respect of subitem 12.02(a)	%	50 000,00		
<b>12.06</b>	<b>The setting out and protection of beacons</b>	Lump Sum	1,00	20 000,00	20 000,00
<b>B12.14</b>	<b>Contractor's activities in respect of property outside and inside the road reserve and services outside road reserve moved, damaged, damaged or altered.</b>				
	(i) Payment by contractor to landowners/property owners	Prov. Sum	1,00	50 000,00	50 000,00
	(ii) Percentage item 12.14(i) for contractors charges and profit	%	50 000,00		
<b>12.27</b>	<b>Monthly site meetings</b>				
<b>B12.30</b>	(a) Remuneration of the Community Liason Officer	month	5,00	5 000,00	25 000,00
	(b) Project Steering Commity (PSC)	PC Sum	48,00	200,00	9 600,00
	(c) Handling cost and profit in respect of subitem B12.30(a) and (b) above	%	34 600,00		
<b>B12.31</b>	<b>Accredited training</b>				
	(i) Generic skills	PC Sum	1,00	50 000,00	50 000,00
	(ii) Entrepreneurial skills	PC Sum	1,00	40 000,00	40 000,00
	(iii) Handling cost and profit in respect of subitem 12.31(i) and (ii) above	%	90 000,00		
<b>B12.32</b>	<b>Specialist Services Enganged by Engineer</b>				
	(i) Geotechnical Investigations	PC Sum	1,00	30 000,00	30 000,00
	(ii) Enviromental Management	PC Sum	1,00	30 000,00	30 000,00
	(iii) Topographical Surveys	PC Sum	1,00	20 000,00	20 000,00
	(v) Handling cost and profit in respect of items B12.32 (i) to (iii) above.	%	80 000,00		
<b>B12.33</b>	<b>Remuneration for Student Training</b>				
	(a) Graduate internship programme for 1 (one) student.	month	5,00	7 500,00	37 500,00
	(b) Handling cost and profi in respect of subitem B12.33(a)	%	37 500,00		
<b>B12.34</b>	<b>Contractor's Health and Safety Obligations in respect of the Occupational, Health and Satey Act and Construction Regulations.</b>	Lump Sum	1,00	35 000,00	35 000,00
<b>1200</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	CONTRACTORS ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
B13.01	The contractors general obligations :				
	(a) Fixed obligations	Lump Sum	1,00		
	(b) Value-related obligations	Lump Sum	1,00		
	(c) Time-related obligations	Month	5,00		
1300	TOTAL CARRIED TO SUMMARY				0,00

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL</b>				
<b>14,01</b>	<b>Office and laboratory accommodation:</b> The provision of accommodation as specified, including roof, external and internal walls, windows complete with glazing, doors with locks and fittings burglar proofing, painting, floors fencing, the provision of a 220/250 volt electrical installation with wiring, switchboards, etc water and sewerage installation, and stores, complete, in accordance with the drawings and specifications, except for items scheduled elsewhere :				
	(a) Offices (interior floor space only)	m <sup>2</sup>	30,00		
	(b) Ablution units	m <sup>2</sup>	8,00		
<b>14,02</b>	<b>Office and laboratory furniture:</b>				
	(a) Chairs	No.	2,00		
	(b) High chairs for laboratory	No.			
	(c) Desks, complete with drawers and locks	No.	2,00		
<b>B14.03</b>	<b>Office and laboratory fittings, installations and equipment:</b>				
	(a) Items measured by number :				
	(i) 220/250 volt power points	No.	3,00		
	(iii) Double 80 watt fluorescent-light fittings complete with ballast and tubes	No.			
	(vi) Wash-hand basins complete with taps and drains	No.	1,00		
	(vii) Fire extinguishers, 9,0kg, all purpose dry powder type, complete, mounted on wall with brackets	No.	1,00		
<b>1400</b>	<b>TOTAL CARRIED FORWARD</b>				

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AMOUNT BROUGHT FORWARD					
	(viii) Air-conditioning units with, 2,2kW minimum capacity, mounted and with own power connection	No.	1,00		
	(x) General - purpose steel cupboards with shelves	No.	1,00		
	(xi) Refrigerators	No.	1,00		
	(xiv) Voltage stabilizers	No.	1,00		
<b>B14.03</b>	<b>(b) Prime-cost items and items paid for in a lump sum</b>				
	(i) Cost of calls and other charges	PC Sum	1,00	2 500,00	2 500,00
	(ii) Handling cost and profit in respect of subsubitems above B14.03(i)	%	2 500,00		
	(iii) The provision of gas installation, including gas storage cylinders, tubing, regulators, gas burners and shut-off cocks	Lump Sum			
	(vi) The provision of printer and photocopy machine	PC Sum	1,00		
<b>B14.03</b>	<b>(c) Items measured by area:</b>				
	(i) Contract name board as specified	m <sup>2</sup>	2,00		
<b>B14.04</b>	<b>Car ports</b>				
	Car ports as specified, at offices and laboratory building	No.			Rate Only
<b>14,05</b>	<b>Housing for labourers:</b>				
	(a) Housing as specified, including beds, mattresses, bedside chest, chairs, tables, lockers, electricity, plug points, electrical light fittings and burglar proofing	Lump Sum	1,00		
<b>1400</b>	<b>TOTAL CARRIED FORWARD</b>				

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AMOUNT BROUGHT FORWARD					
14,07	(b) Ablution unit, as specified, including, latrines wash basins, showers and taps	No.	2,00		
	<b>Rented, hotel and other accommodation</b>				
	(a) Provisional sum for providing rented housing, hotel or other accommodation as described in subsubclause 1403 (c)(li)	Prov.Sum	1,00	12 000,00	12 000,00
14,08	(b) Handling costs and profit in respect of subitem 14.07 (a)	%	12 000,00		
	<b>Services:</b>				
	(a) Services at offices:				
B14.13	(i) Fixed costs	Lump Sum	1,00		
	(ii) Running costs	Month	5,00		
B14.13	<b>Survey Equipment</b>	PC Sum	1,00	5 000,00	5 000,00
B14.14	<b>Handling cost and profit in respect of survey equipment B14.13 above</b>	%	5 000,00		
1400	TOTAL CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>ACCOMMODATION OF TRAFFIC</b>				
<b>B15.01</b>	<b>Accommodating traffic and maintaining temporary deviations:</b>	km	1,00		
<b>B15.02</b>	<b>Earthworks for temporary deviations:</b>				
	(a) Shaping of temporary deviations	km	1,00		
	(b) Cut and borrow to fill	m <sup>3</sup>	540,00		
	(c) Cut to spoil	m <sup>3</sup>	360,00		
<b>B15.03</b>	<b>Temporary traffic-control facilities:</b>				
	(a) Flagmen	man-days	180,00		
	(b) Portable STOP and GO-RY signs	No.	4,00		
	(d) Amber flicker lights	No			Rate Only
	(e) Road signs, R- and TR-series				
	(i) 900mm	No	5,00		
	(ii) 1200mm	No	5,00		
	(f) Road signs, TW-series				
	(i) 1500mm	No	5,00		
	(ii) 2400 mm x 400 mm	No	5,00		
	(g) Road signs, STW-, DTG-, TGS- and TG-series (excluding delineators and barricades)				
	(i) 1600mm x 1200mm	No	5,00		
	(ii) 2400 mm x 1800 mm	No	5,00		
	(i) Movable barricade/road sign combination	No.	2,00		
	(j) Traffic cones (500mm height)	No.	10,00		
	(m) Two-way communication devices	No.	2,00		
<b>B15.03</b>	(n) Provision of high visibility safety jackets and safety hats	No.	5,00		
	(o) Special information signs as required by Engineer	m2	2,00		
<b>1500</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>CLEARING AND GRUBBING</b>				
<b>17,01</b>	<b>Clearing and grubbing</b>				
<b>(LI)</b>	(a) Normal areas:				
	(i) Within the road reserve	ha	1,76		
	(ii) In borrow pits	ha	1,00		
<b>B17.02</b>	<b>Removal and grubbing of large trees and tree stumps:</b>				
<b>(LI)</b>	(a) Girth exceeding 1m up to and including 2m	No	2,00		
	(b) Girth exceeding 2m up to and including 3m	No			Rate Only
<b>1700</b>	<b>TOTAL CARRIED TO SUMMARY</b>				<b>0,00</b>

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>18.00</b>	<b>DAYWORKS</b>				
<b>B18.01</b>	<b>Labourers</b>				
	(i) Unskilled	hour			Rate Only
	(ii) Semi-skilled	hour			Rate Only
	(iii) Skilled	hour			Rate Only
	(iv) Survey assistants	hour			Rate Only
<b>B18.02</b>	Foreman	hour			Rate Only
<b>B1.03</b>	Tipper truck				
	(i) 6m3	hour			Rate Only
	(i) 10m3	hour			Rate Only
<b>B1804</b>	Loader (0.5m3 bucket)	hour			Rate Only
<b>B18.05</b>	Grader (CAT 140G or similar)	hour			Rate Only
<b>B18.06</b>	Vibratory roller (as per 33.04(b)(i))	hour			Rate Only
<b>B18.07</b>	Grid roller (as per 33.04(b)(iii))	hour			Rate Only
<b>B18.08</b>	Walk behind roller (Bomag BW90)	hour			Rate Only
<b>B18.09</b>	Air compressor, 4m3/min, complete with drills	hour			Rate Only
<b>B18.10</b>	Waterpump including all necessary hoses	hour			Rate Only
<b>B18.11</b>	Concrete mixer (0.3m3)	hour			Rate Only
<b>B18.12</b>	Trench vibrating roller or pad 0.6m width	hour			Rate Only
<b>B18.13</b>	Backacter, 0.3m3	hour			Rate Only
<b>B18.14</b>	Tracked excavator				
	(i) 20ton	hour			Rate Only
	(ii) 23ton	hour			Rate Only
<b>B18.15</b>	Watercart, 5000l	hour			Rate Only
<b>B18.16</b>	Mechanical broom	hour			Rate Only
<b>B18.17</b>	Allow provisional sum for purchase of materials	Prov Sum	1,00	30 000,00	30 000,00
<b>B18.18</b>	Handling cost and profit	%	30 000,00		
<b>1800</b>	<b>TOTAL CARRIED TO SUMMARY</b>				



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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
21.00	<b>DRAINS</b>				
21.01	<b>Excavation for open drains:</b>				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0m up to 1,5m	m <sup>3</sup>	208,00		
	(ii) Exceeding 1,5m and up to 3,0m	m <sup>3</sup>			Rate Only
	(b) Extra over subitem 21.01(a) for excavation in hard material, irrespective of depth	m <sup>3</sup>	20,80		
21.03	<b>Excavation for subsoil drainage systems:</b>				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0m up to 1,5m	m <sup>3</sup>			Rate Only
	(b) Extra over subitem 21.03(a) for excavation in hard material, irrespective of depth	m <sup>3</sup>			Rate Only
21.04	<b>Impermeable backfilling to subsoil drainage systems</b>	m <sup>3</sup>			Rate Only
21.05	<b>Banks and dykes</b>	m <sup>3</sup>			Rate Only
21.06	<b>Natural permeable material in subsoil drainage systems (crushed stone):</b>				
	(b) Crushed stone obtained from commercial sources (no overhaul):				
	(i) Coarse grade stone (19mm nominal size aggregate)	m <sup>3</sup>			Rate Only
21.07	<b>Natural permeable material in subsoil drainage systems (sand):</b>				
	(b) Sand from commercial sources (no overhaul)	m <sup>3</sup>			Rate Only
21.08 (LI)	<b>Pipes in subsoil drainage systems:</b>				
	(b) Unplasticized PVC pipes and fittings, normal duty, complete with couplings:				
	(i) 150mm diameter, perforated	m			Rate Only
21.09 (LI)	<b>Polyethylene sheeting, 0,25mm thick, or similar approved material, for lining subsoil drainage systems</b>	m <sup>2</sup>			Rate Only
21.1 (LI)	<b>Synthetic-fibre filter fabric:</b>				
	(a) Non-woven needle punched type:				
	(i) Kaymat U24 or approved equivalent	m <sup>2</sup>			Rate Only
2100	<b>TOTAL CARRIED FORWARD</b>				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
AMOUNT BROUGHT FORWARD					
21.12 (LI)	Concrete outlet structures, mahole boxes, junction boxes and cleaning eyes for subsoil drainage systems:				
	(a) Outlet structures	No.			Rate Only
21.13 (LI)	Concrete caps for subsoil drain pipes	No.			Rate Only
21.15	Overhaul for material hauled in excess of 5.0km free-haul (normal overhaul)	m <sup>3</sup> -km			Rate Only
21.17	Test flushing of pipe subsoil drains	No.			Rate Only
21.2	Galvanized wire mesh, 250 x 250mm, at the outlets of subsoil drainage systems. Mesh 10mm x 10mm x 2.5mm wire diameter	No.			Rate Only
2100	TOTAL CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>22.00</b>	<b>PREFABRICATED CULVERTS</b>				
<b>22.01</b>	<b>Excavation:</b>				
<b>(LI)</b>	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0m up to 2m	m <sup>3</sup>			Rate Only
	(ii) Exceeding 2m up to 3.0m	m <sup>3</sup>			Rate Only
	(b) Extra over subitem 22.01(a) for excavation in hard material irrespective of depth	m <sup>3</sup>			Rate Only
<b>22.02</b>	<b>Backfilling:</b>				
<b>(LI)</b>	(a) Using the excavated material	m <sup>3</sup>			Rate Only
	(b) Using imported selected material	m <sup>3</sup>			Rate Only
	(c) Extra over subitems 22.02(a) and 22.02(b) for soil cement backfilling (5% cement)	m <sup>3</sup>			Rate Only
<b>22.03</b>	<b>Concrete pipe culverts:</b>				
<b>(LI)</b>	(b) On Class B bedding:				
	(i) 600mm dia. (Class 75D)	m			Rate Only
	(iii) 900mm dia. (Class 50D)	m		2 300,00	Rate Only
<b>22.05</b>	<b>Portal and rectangular culverts:</b>				
	(i) 3000mm x 1200mm	m		3 500,00	Rate Only
	(ii) 1800mm x 1200mm	m		2 800,00	Rate Only
<b>22.07</b>	<b>Cast in situ concrete and formwork:</b>				
<b>(LI)</b>	(b) In floor slabs for portal or rectangular culverts including formwork, joints and Class U2 finish for:				
	(i) Class 25/19 concrete	m <sup>3</sup>		2 250,00	Rate Only
	(c) In inlet and outlet structures, catchpits, manholes, thrust and anchor blocks, excluding formwork but including Class U2 surface finish:				
	(i) Class 25/19 concrete	m <sup>3</sup>		2 250,00	Rate Only
	(d) Formwork of concrete under subitem 22.07(c)				
	(i) Class F1 surface finish	m <sup>2</sup>		500,00	Rate Only
<b>22.08</b>	<b>Concrete backfill for culverts, Class 15/19</b>	m <sup>3</sup>		1 800,00	Rate Only
<b>2200</b>	<b>TOTAL CARRIED FORWARD</b>				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
AMOUNT BROUGHT FORWARD					
<b>B22.10</b>	<b>Steel reinforcement:</b>				
<b>(LI)</b>	(a) Mild steel bars	t			Rate Only
	(b) High-tensile steel bars	t			Rate Only
	(c) High tensile steel mesh:	t			Rate Only
<b>22.12</b>	<b>Removing existing concrete:</b>				
	(b) Reinforced concrete	m <sup>3</sup>	3,90		
<b>22.14</b>	<b>Removing and stacking existing pipe culverts</b>				
	(a) 600 to 900mm dia	m			Rate Only
<b>22.25</b>	<b>Overhaul on excavated material carted to spoil, backfill material (but excluding Portland cement in the case of soil cement), existing structures demolished and remove to spoil, and removing and relaying, and removing and stacking existing prefabricated culverts, for haul in excess of the free-haul distance of 1.0km</b>	m <sup>3</sup> -km			Rate Only
<b>2200</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

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23.00	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWN PIPES, AND CONCRETE AND CONCRETE LININGS FOR OPEN DRAINS				
23.07 (LI)	Trimming of excavations for concrete-lined open drains:				
	(a) In soft material	m <sup>2</sup>	4 000,00		
	(b) In hard material	m <sup>2</sup>	400,00		
23.08	Concrete lining for open drains:				
(LI)	(a) Cast in situ concrete V-drain (Class 25/19)	m <sup>3</sup>	450,00		
23.09	Formwork to cast insitu concrete lining for open drains (Class F2 surface finish)				
	(b) To sides with formwork on both internal and external faces (each face measured)	m <sup>2</sup>	600,00		
	(c) To ends of slabs	m <sup>2</sup>	225,00		
23.10	Sealed joints in concrete lining of open drains (description)	m	2 000,00		
23.12	Steel reinforcement:				
	(c) Welded steel fabric S193 (High-tensile steel)	kg	5 790,00		
23.13	Polyethylene sheeting (0.15mm thick) for concrete lined	m <sup>2</sup>	3 000,00		
2300	TOTAL CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
33.00	<b>BORROW MATERIALS</b>				
31.01	<b>Removal of excess overburden</b>	m <sup>3</sup>	1 500,00		
31.03	<b>Finishing-off borrow areas in:</b>				
	(a) Hard material	ha	1,00		
	(b) Intermediate material	ha	1,00		
	(c) Soft material	ha	1,00		
31.04	<b>Compensation to landowners:</b>				
	(a) Prime cost sum for compensation to landowners	PC Sum	1,00	25 000,00	25 000,00
	(b) Handling costs and profit in respect of subitem B31.04(a) a	%	25 000,00		
B31/55.02	<b>Fencing of borrow pits</b>	km	0,40		
3100	<b>TOTAL CARRIED TO SUMMARY</b>				

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<b>33.00</b>	<b>MASS EARTHWORKS</b>				
<b>33.01/16.01</b>	<b>Cut and borrow to fill, including free-haul up to 1.0km:</b>				
	(a) Material in compacted layer thicknesses of 200mm and less:				
	(ii) Compacted to 93% of modified AASHTO density	m <sup>3</sup>	3 181,50		
<b>33.01/16.02</b>	<b>Overhaul in excess of 1km</b>	m <sup>3</sup> -km	8 181,00		
<b>33.03</b>	<b>Extra over item 33.01 for excavating and breaking down material in:</b>				
	(a) Intermediate excavation	m <sup>3</sup>	477,23		
	(b) Hard excavation	m <sup>3</sup>	159,08		
<b>33.04</b>	<b>Cut to spoil, including free-haul up to 0,5km. Material obtained from:</b>				
	(a) Soft excavation	m <sup>3</sup>	1 260,00		
	(b) Hard excavation	m <sup>3</sup>	126,00		
	(c) Intermediate excavation	m <sup>3</sup>	189,00		
<b>33.06</b>	<b>Variations in the number of roller passes (applicable to subsubitem 33.01(a)(iii) and 33.01(b)(iii) and item 33.11)</b>				
	(a) Vibratory rollers	m <sup>2</sup> -pass			Rate Only
	(b) Grid rollers	m <sup>2</sup> -pass			Rate Only
<b>33.07</b>	<b>Removal of unsuitable material (including free-haul of 0,5km):</b>				
	(a) In layer thicknesses of 200mm and less:				
	(ii) Unstable material	m <sup>3</sup>	30,00		
<b>33.08</b>	<b>Widening of cuts(extra over items 33.01, 33.02 and 33.04)</b>				
	(b) In boulder material class A or class B	m <sup>3</sup>	10,00		
<b>33.10</b>	<b>Roadbed preparation and the compaction of material</b>				
	(a) Compaction to 90% of modified AASHTO density	m <sup>3</sup>	1 515,00		
<b>33.11</b>	<b>Three roller passes compaction:</b>				
	(a) Vibratory roller	m <sup>2</sup>	9 090,00		
	(c) Grid roller	m <sup>2</sup>	9 090,00		
<b>33.12</b>	<b>In situ treatment of roadbed:</b>				
	(a) In situ treatment by ripping	m <sup>3</sup>	1 515,00		
	(b) In situ treatment by blasting	m <sup>3</sup>			Rate Only
<b>3300</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

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 LEPELLE-NKUMPI LOCAL MUNICIPALITY

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
34.00	PAVEMENT LAYERS OF GRAVEL MATERIAL				
34.01	Pavement layers constructed from gravel taken from cut or borrow, including free-haul up to 1.0km				
	(a) Gravel base (chemically stabilized material) compacted to: (i) 97% of modified AASHTO density (150mm thickness)	m <sup>3</sup>	984,75		
	(a) Gravel sub-base material compacted to: (i) 95% of modified AASHTO density (150mm thickness)	m <sup>3</sup>	1 363,50		
34.01/16.01	Overhaul in excess of 1km	m <sup>3</sup> -km	14 089,50		
34.02	Extra over item 34.01 for excavation of material in:				
	(a) Intermediate excavation	m <sup>3</sup>	352,24		
	(b) Hard material	m <sup>3</sup>	234,83		
3400	TOTAL CARRIED TO SUMMARY				



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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
35.00	STABILIZATION				
B35.01	Chemical stabilization extra over unstabilized compacted layers:				
	(a) Base layer, 150mm thick	m <sup>3</sup>	984,75		
35.02	Chemical stabilizing agent:				
	(a) Ordinary portland cement	t	62,04		
	(b) Slaked road lime	t			Rate Only
35.04	Provision and application of water for curing	kl	55,00		
35.13	Extra over item 35.01 for trial sections	m <sup>2</sup>			Rate Only
3500	TOTAL CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
41.00	PRIME COAT				
41.01	Prime coat:				
	(c) MC-30 cut back bitumen	litre	5 200,00		
41.02	Aggregate for blinding	m2	600,00		
41.03	Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment	litre	60,00		
4100	TOTAL CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
42.00	ASPHALT BASE AND SURFACING				
42.02	Asphalt surfacing (60/70 penetration grade bitumen)				
	(a) Medium continuously graded asphalt				
	(i) Thickness -30mm	m <sup>2</sup>	6 000,00		
42.03	Rolled in chippings (9.5mm)				
	(a) in surfacing	t			Rate Only
42.04	Tack coat of 30% stable grade emulsion	litre	4 200,00		
42.08	100 mm cores in asphalt paving	No	8,00		
4200	TOTAL CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
51.00	PITCHING, STONEMASONRY AND PROTECTION AGAINST EROSION				
51.01	Stone pitching				
	(a) Plain pitching				
	(i) Method 1	m <sup>2</sup>			Rate Only
5100	TOTAL CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
56.00	ROAD SIGNS				
56.01 (LI)	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:				
	(i) Area not exceeding 2m <sup>2</sup>	m <sup>2</sup>	3,00		
	(ii) Area exceeding 2m <sup>2</sup> but not exceeding 10m <sup>2</sup>	m <sup>2</sup>			Rate Only
56.02	Extra over item 56.01 for using:				
	(a) Background of retro-reflective material:				
	(i) Class 1	m <sup>2</sup>	2,00		
56.03 (LI)	Road sign supports (over-head road sign structures excluded):				
	(a) Steel tubing				
	"D"-shaped steel tubing profile				
	(i) 75mm diameter and 3.5mm wall thickness	t	0,10		
56.05 (LI)	Excavating and backfilling for road sign supports (not applicable for kilometre posts)	m <sup>3</sup>	4,00		
56.06	Extra over item 56.05 for cement-treated soil backfill	m <sup>3</sup>	3,00		
B56.09 (LI)	Dismantling and storing road signs with a surface area of:				
	(a) Up to 2m <sup>2</sup>	No			Rate Only
	(b) Exceeding 2m <sup>2</sup> but not 10m <sup>2</sup>	No			Rate Only
B56.10 (LI)	Danger plates (Types W401 and W402)				
	(a) Size 200mm x 800mm at stormwater culverts	No			Rate Only
	(b) Size 300mm x 1200mm at bridge structures	No			Rate Only
5600	TOTAL CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>ROAD MARKINGS</b>				
57.02	<b>Retro-reflective road-marking paint:</b>				
	(a) White lines (broken or unbroken):				
	(i) 100mm wide	km	1,00		
	(d) White lettering and symbols	m <sup>2</sup>	6,00		
57.06	<b>Setting out and premarking the lines (excluding traffic island markings, lettering and symbols)</b>	km	1,00		
5700	<b>TOTAL CARRIED TO SUMMARY</b>				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
59.00	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
59.01	Finishing the road and road reserve:				
	(b) Single carriageway road	km	1,00		
	(b) Treatment of old roads and temporary deviations	km	0,60		
5900	TOTAL CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
81.00	TESTING MATERIALS AND WORKMANSHIP				
81.02	Other special tests requested by the Engineer:				
	(a) Cost of testing	PC Sum	1,00	25 000,00	25 000,00
	(b) Charge on Prime Cost Sum	%	25 000,00		
8100	TOTAL CARRIED TO SUMMARY				



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**SUMMARY OF SCHEDULE OF QUANTITIES**

**Schedule A: Road Construction**

The sum of Schedule of Quantities from Section 1200 to Section 8100 as provided in the Bill of Quantities  
 [Must add the Totals of each Section]

SECTION	DESCRIPTION	AMOUNT
1200	General Requirements & Provisions	
1300	Establishment and General Obligations	
1400	Housing, Offices & Laboratories	
1500	Accommodation of Traffic	
1700	Clearing and Grubbing	
1800	Dayworks	
2100	Drains	
2200	Prefabricated Culverts	
2300	Concrete kerbing, concrete channelling, chutes and downpipes and concrete linings for open drains	
3100	Borrow Materials	
3300	Mass Earthworks	
3400	Pavement Layers of Gravel Material	
3500	Stabilization	
4100	Prime Coat	
4200	Asphalt base & Surfacing	
5100	Pitching, stonework and protection against erosion	
5600	Road Signs	
5700	Road Markings	
5900	Finishing the Road and Road Reserve and treating old roads	
8100	Testing Materials and Workmanship	
<b>Sub-Total of Schedule A: Road Construction</b>		
<b>CALCULATION OF CONTRACT SUM</b>		
<b>Contingencies:</b>		
The sum provided here is under the sole control of the Engineer and may be deducted in whole or in part. [Must add 10.00% of Schedule A: Road Construction Amount for Contingencies]		
<b>Sub-Total (1): (Schedule of Quantities + Contingencies)</b>		
<b>Contract Price Adjustment</b>		
Sum provided in terms of the provisions of the General Conditions of Contract [Must add 3.00% of Sub-Total (1): (Schedule of Quantities + Contingencies)]		
<b>Sub-Total (2): (Sub-Total 1 + Contract Price Adjustment)</b>		
<b>Value Added Tax (VAT)</b>		
[Must add 15.00% of Sub-Total (2): (Sub-Total 1 + Contract Price Adjustment) for Value Added Tax (VAT)]		
<b>TOTAL CONTRACT AMOUNT INCLUSIVE OF VAT</b>		