

MARULENG LOCAL MUNICIPALITY
CONTRACT NO:MLM/SCM/68/2023
CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

SECTION 1200

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1200	<u>GENERAL REQUIREMENTS AND PROVISIONS</u>				
B12.01	(i) Payment of community liason officer	Prov. Sum	1,00		
	(ii) Project Liaison Committee	Prov. Sum	1,00		
	(iii) Handling costs and profit in respect of B12.01(i) &(ii) above	%	R 0,00		
B12.05	(i)Payment by contractor to landowners	Prov. Sum	R 1,00		
	(iii) Handling costs and profit in respect of B12.05(i) above	%	R 0,00		
PS12.05	Protection, removal,relocation and replacement of Utility services.				
	(a) Utility services				
	(i) Protection, removal,relocation and replacement of utility services.	PC Sum	1,00		
	(ii) Handling costs and profit in respect of sub-items (a) (i) above	%	R 0,00		
B12/C1.1	Contractor's initial obligation in respect of the OHS Act and Construction Regulations	L/Sum	1,00		
	(a) Compliance with Occupational and Safety (Act 85 of 1993) and all relevant and applicable Regulations and the Employeoyer's Health and Safety Specification				
	(i) Training of site personnel	Sum			
	(ii) SHE represantative	Sum			
	(iii) First aid equipments	Sum			
	(iv) Fire Fighting equipment	Sum			
	(iiv) Personal protective equipments	Sum			
	(v) Barricading	Sum			
	(vi) Signs	Sum			
	(vii) Safety Officer	Sum			
	(viii) Medical surveilance tests	Sum			
B12/C1.2	Implementation of approved OHS plan for the duration of the contract, including daily/weekly inspections, monthly meetings,required audits, consolidated health and safety file				
B12/C1.2	Contractor's Time related Obligations in respect of the OHS Act and Construction Regulations	Month	5,00		
B12/C1.3	Submission of Health and Safety File	L/Sum	1,00		
B12.07	Provision for CETA Accredited Training Generic Skills & Enterpreneurial Skill	Prov.Sum	1	180 000	180 000,00
	(i) Handling cost and profit in respect of (B12.07) above.	%	R 180 000,00		
1200	TOTAL CARRIED TO SUMMARY				

MARULENG LOCAL MUNICIPALITY
 CONTRACT NO:MLM/SCM/68/2023
 CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

SECTION 1300

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1300	<u>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</u>				
13,01	The Contractor's general obligations:				
	(a) Fixed obligations	Lump. Sum	1		
	(b) Value-related obligations	Lump. Sum	1		
	(c) Time-related obligations	Month	5		
1300	TOTAL CARRIED TO SUMMARY				

MARULENG LOCAL MUNICIPALITY
CONTRACT NO:MLM/SCM/68/2023
CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

				SECTION 1400	
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1400	<u>HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL</u>				
14.01	Office and laboratory accommodation:				
	(a) Offices (interior floor space only)	m ²			Rate Only
	(e) Ablution units	m ²			Rate Only
14.02	Office and laboratory furniture:				
	(a) Chairs	number			Rate Only
	(d) Desks, complete with drawers and locks	number			Rate Only
	(f) Conference tables	number			Rate Only
14.03	Office and laboratory fittings, installations and equipment:				
	(a) Items measured by number:				
	(i) 220/250 volt power points	number			Rate Only
	(iii) Double 80 watt fluorescent-light fittings complete with ballast and tubes	number			Rate Only
	(v) Single incandescent-light fittings complete with 100 watt globes	number			Rate Only
	(vi) Wash-hand basins complete with taps and drains	number			Rate Only
	(x) Fire extinguishers, 9,0 kg all purpose dry powder type, complete, mounted on wall with brackets	number			Rate Only
	(xi) Air-conditioning units with, 2,2 kW minimum capacity, mounted and with own power connection	number			Rate Only
	(xiv) General-purpose steel cupboards with shelves	number			Rate Only
	(xv) Steel filing cabinets with drawers	number			Rate Only
	(b) Prime-cost items and items paid for in a lump sum				
	(v) The provision of a fax apparatus as specified	Prov. Sum			Rate Only
1400	TOTAL CARRIED FORWARD				

MARULENG LOCAL MUNICIPALITY
CONTRACT NO:MLM/SCM/68/2023
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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward				0,00
14.04	Car-ports	number			Rate Only
14.07	Rented, hotel and other accommodation for Engineer:				
	(a) Provisional Sum for providing rented housing, hotel or other accommodation as described in Subsubclause 1403(c)(ii)	Prov. Sum			Rate Only
	(b) Handling costs and profit in respect of subitem 14.07(a)	%	Rate Only		
14,10	Provision of photostat facilities	month			Rate Only
B14.11	Telecommunications System				
	(g) Provision of digital camera.	Lump. Sum	1		R 50 000,00
	Handling costs and profit in respect of subsubitem 14.11(a), (c) above	%	R 50 000,00		
B 14.14	Specialists Services				
	b) Occupational Health & Safety Consultants	Prov Sum	1,00	180 000,00	R 180 000,00
	c) Specialits Environmetanl Cosultants	Prov Sum	1,00	150 000,00	R 150 000,00
	Subitems B14.14 (b) and ©	%	330 000,00		
1400	TOTAL CARRIED TO SUMMARY				

MARULENG LOCAL MUNICIPALITY
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CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

SECTION 1500

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1500	ACCOMMODATION OF TRAFFIC				
15,01	Accommodating traffic and maintaining temporary deviations	km	1,00		
15,02	Earthworks for temporary deviations:				
	(a) Shaping of temporary deviations	km	0,20		
	(b) Cut and borrow to fill	m ³	15,00		
	(c) Cut to spoil	m ³	15,00		
B15.03	Temporary traffic-control facilities:				
	(a) Flagmen	man-day	44,00		
	(b) Portable STOP and GO-RY signs	number	2,00		
	(e) Road signs, R- and TR-series, (size indicated)	number	5,00		
	(f) Road signs, TW-series, (size indicated)	number	5,00		
	(g) Road signs, STW-, DTG-, TGS- and TG-series (excluding delineators and barricades)	m ²	10,00		
	(h) Delineators (DTG50J):				
	(i) Single	number	20,00		
	(ii) Mounted back to back	number			
	(j) Traffic cones 600mm	number			
	(l) Movable barriers (type indicated)	No			
	(n) Safety jackets and hats	No	6,00		
15.04	Relocation of traffic-control facilities	Lump. Sum	1,00		
15.05	Gravelling and repair of temporary deviations and existing gravel shoulders used as temporary deviations:				
	(a) Temporary deviations	m ³	30,00		
15.06	Watering of temporary deviations	kilolitre	4 000,00		
1500	TOTAL CARRIED TO SUMMARY				

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 CONTRACT NO:MLM/SCM/68/2023
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 CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

SECTION 1500

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward				
15.07	Blading by road grader of:				
	(a) Temporary deviations	km-pass	0,5		
	(b) Existing roads used as temporary deviations	km-pass	0,5		
15.08	Repairs, alterations and/or additions to existing roads used as temporary deviations	Prov. Sum			
B15.10	Accommodating traffic where the road is constructed in half widths.	km			
B15.12	Temporary culverts				
	(a) Provision and laying of temporary prefabricated culverts complete:				
	(i) Type SC pipe D-load pipes with ogee joints on class D bedding:				
	(1) 600mm dia	m			
	(b) Re-use of prefabricated culverts complete:				
	(i) Type SC pipe D-load pipes with ogee joints on class D bedding:				
	(1) 600mm dia	m			
	(c) Eventual removal of prefabricated culverts:				
	(i) Type SC pipe D-load pipes with ogee joints on class D bedding:				
	(1) 600mm dia	m			
B15.14	Allow provisional sum for:				
	(a) Repair of damaged temporary road signs and delineators	Prov. Sum			
	(b) River Diversion by contractor on approval by the Engineer	Prov. Sum	1	300 000,00	R 300 000,00
1500	TOTAL CARRIED TO SUMMARY				

MARULENG LOCAL MUNICIPALITY
 CONTRACT NO:MLM/SCM/68/2023
 CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

SECTION 1600

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1600	OVERHAUL				
16,02	Overhaul on material in excess of 1.0 km (ordinary overhaul)	m ³ -km	1 500,00		
1600	TOTAL CARRIED TO SUMMARY				

MARULENG LOCAL MUNICIPALITY
 CONTRACT NO:MLM/SCM/68/2023
 CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

SECTION 1700

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1700	<u>CLEARING AND GRUBBING</u>				
17,01	Clearing and grubbing	ha	1,0		
17,02	Removal and grubbing of large trees and tree stumps				
	(a) Girth exceeding 1 m up to and including 2m	No	5		
1700	TOTAL CARRIED TO SUMMARY				

MARULENG LOCAL MUNICIPALITY
 CONTRACT NO:MLM/SCM/68/2023
 CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

SECTION 1800

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1800	<u>DAYWORKS</u>				
B18.01	Labourers:				
	(i) Unskilled	h	-		Rate Only
	(ii) Semi-skilled	h	-		Rate Only
	(iii) Skilled	h	-		Rate Only
B18.02	Foreman	h	-		Rate Only
B18.03	Tipper trucks:				
	(i) 3 - 5 ton	h	-		Rate Only
	(ii) 5.1 - 10 ton	h	-		Rate Only
B18.04	Loader (0,5m³)	h	-		Rate Only
B18.05	Grader (CAT 140G or similar)	h	-		Rate Only
B18.06	LDV	km	-		Rate Only
B18.07	Compaction rollers:				
	(i) Vibratory roller	h	-		Rate Only
	(ii) Tamping roller	h	-		Rate Only
	(iii) Grid roller	h	-		Rate Only
B18.08	Hand controlled compactors				
	(i) Pedestrian roller (Bomag BW90)	h	-		Rate Only
	(ii) Vibratory plate	h	-		Rate Only
	(iii) Rammers	h	-		Rate Only
B18.09	Water truck (min. 10000litre)	h	-		Rate Only
B18.10	Dozer (D7 or similar)	h	-		Rate Only
1800	TOTAL CARRIED TO SUMMARY				Rate Only

MARULENG LOCAL MUNICIPALITY
CONTRACT NO:MLM/SCM/68/2023
CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

SECTION 2100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2100	<u>DRAINS</u>				
LI 21.01	Excavation for open drains:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0 m up to 2,0 m	m ³	200		
	(b) Extra over subitem 21.01(a) for excavation in hard material, irrespective of depth	m ³	10		
LI 21.02	Clearing and shaping existing open drains	m ³	15		
LI 21.03	Excavation for sub-soil drainage systems:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0 m up to 1,5 m	m ³			
	(b) Extra over subitem 21.03(a) for excavation in hard material, irrespective of depth	m ³			
21,04	Impermeable backfill to subsoil drainage systems	m ³			
21,05	Banks and dykes	m ³			
21,06	Natural permeable material in sub-soil drainage systems (crushed stones).				
	(b) Crushed stone obtained from commercial sources.				
	(2) Coarse-graded -19mm surfacing stone.	m ³			
21,07	Natural permeable material in subsoil drainage systems (sand)				
	(b) Sand from commercial sources				
	(1) Coarse Grade	m ³			
21,08	Pipes in subsoil drainage systems:				
	(b) Unplasticised PVC pipes and fittings, normal duty complete with couplings				
	(1) 150mm internal dia. Perforated.	m			
2100	TOTAL CARRIED TO FORWARD				

C2.2.11

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 CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

SECTION 2100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	BROUGHT FORWARD				
21,09	Polyethylene sheeting 0.15mm tick, or similar, approved material, for lining subsoil drainage systems.	m ²	0		
21,10	Synthetic-fibre filter fabric (Grade A2 or equivalent)	m ²	0		
21,12	Concrete/brick work outlet structures,manhole boxes junction boxes and cleaning eyes for sub-soil drainage systems:				
	(a) Outlet structures	No			
	(c) Junction boxes	No			
	(d) Cleaning eyes	No			
21,13	Concrete caps for sub-soil drain pipes	No			
21,15	Overhaul for material hauled in excess of 1.0km free-haul (normal overhaul).	m ³ .km			
21,17	Test flushing of pipe subsoil drains	m			
21,19	Selected backfill material under concrete-lined side drains compacted to 93% of modified AASHTO density.	m ³			
2100	TOTAL CARRIED TO SUMMARY				

MARULENG LOCAL MUNICIPALITY
CONTRACT NO:MLM/SCM/68/2023
CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

SECTION 2200

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2200	<u>PREFABRICATED CULVERTS</u>				
22,01	Excavation:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0 m up to 2,0 m	m ³	300		
	(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m ³	300		
22,02	Backfilling:				
	(a) Using the excavated material	m ³	300		
	(c) Extra over subitems 22.02(a) and (b) for soil cement backfilling containing 2% cement	m ³	50		
	(d) Rockfill	m ³	612		
22,05	Portal and Rectangular culverts:				
	(b) Without the fabricated floor slabs (2100 x 1500-75S).	m	32		
B22,07	Cast in situ concrete and formwork:				
	(b) (i) In floor slabs for portal or rectangular culverts including formwork, joints and class U2 surface finish (class 30/19)	m ³	60		
	(ii) Between culvert units (class 15/19)	m ³	9,0		
	(c) In inlet and outlet structures, skewed ends, catchpits, manholes, trust and anchor blocks, including formwork and including class U2 surface finish.				
	(1) Class 30/19	m ³	39		
22,1	Steel reinforcement				
	(a) Mild steel bars	ton	10		
	(b) High-tensile steel bars	ton	8		
	(c) Welded steel fabric (195)	kg	1 095		
	(d) Welded steel fabric Mesh (888)	kg	1 384		
2200	TOTAL CARRIED FORWARD				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3300	<u>MASS EARTHWORKS</u>				
33.01	Cut and borrow to fill, including free-haul up to 0,5 km:				
	(a) Material in compacted layer thicknesses of 200 mm and less:				
	(i) Compacted to 90% of modified AASHTO density	m ³	430		
	(c) Rock fill (as specified in subclause 3209c)	m ³	490		
33.04	Cut to spoil, including free-haul up to 0,5 km. Material obtained from:				
	(a) Soft excavation	m ³	430		
33.07	Removal of unsuitable material (including free-haul of 0,5 km):				
	(b) In layer thicknesses exceeding 200 mm:				
	(i) Stable material	m ³			
	(ii) Unstable material	m ³	200		
33.10	Roadbed preparation and the compaction of material:				
	(a) Compaction to 90% of modified AASHTO density	m ³	220		
33.13	Finishing-off cut and fill slopes, medians and interchange areas:				
	(a) Cut slopes	m ²	80		
	(b) Fill slopes	m ²	200		
33.20	Fill constructed with material obtained from commercial sources or sources providing by the Contactor,including all haul:				
	(a) Gravel material in compacted layer thicknesses of 200 mm and less:				
	(i) Compacted to 90% modified AASHTO density	m ³	1 500,00		
3300					
3400	<u>PAVEMENT LAYERS OF GRAVEL MATERIAL</u>				SECTION 3400
34.01	Pavement layers constructed from gravel taken from cut or borrow including free-haul up to 1,0 km:				
	(a) Gravel Selected layer compacted to:				
	(i) 95% of modified AASHTO density for a compacted layer thickness of 150 mm	m ³	1 000		
3400	TOTAL CARRIED TO SUMMARY				

MARULENG LOCAL MUNICIPALITY
 CONTRACT NO:MLM/SCM/68/2023
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SECTION 5100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5100 LI 51.01	<p><u>PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION</u></p> <p>Stone pitching:</p> <p>(b) Grouted stone pitching 150 mm thickn</p>	m ²	450		
5100	TOTAL CARRIED TO SUMMARY				

MARULENG LOCAL MUNICIPALITY
CONTRACT NO:MLM/SCM/68/2023
CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5200	<u>GABIONS</u>				
LI 1/52.01	Foundation trench excavation and backfilling (b) In all other classes of material.	m ³	720		
LI 1/52.02	Surface preparation for bedding the gabions	m ²	360		
LI 1/52.03	Gabions				
LI 1/52.03	(a) Galvanized gabion boxes, wire diameter 2,7mm, mesh size 80mm x 100mm, diaphragm spacing: 1,0m (i) 1 m x 1 m x 1 m	m ³	80		
	(ii) 1 m x 1 m x 0,5 m	m ³	54		
	(c) Galvanized gabion mattresses (wire diameter 2,5 mm, mesh size 80mm x 100mm, diaphragm spacing 1,0m) (i) 300 mm deep	m ³	33		
LI 1/52.04	Filter fabric (a) Grade U24 or approved equivalent	m ²	200		
5200	TOTAL CARRIED FORWARD TO SUMMARY				
5400	<u>GUARDRAILS</u>				
LI 1/54.01	Guardrails on timber posts (a) Galvanised	m	80		
54,04	End treatments:				
	(a) End wings	No.	4		
	(b) Bull-Noses	No.	4		
LI 1/B54.14	Guardrails with pedestrian railings of steel 100x100x5mm Angle Iron fixed on the bridge deck.	m	0		
54,03	Reflective plates	No.	20		
B54.04	Handrails	m	0		
5400	TOTAL CARRIED FORWARD TO SUMMARY				
5600	<u>ROAD SIGNS</u>				
1/56.01	Road sign boards with painted or coloured semi-matt background. (a) Aluminium sheet (2,0 mm thick) (i) (i) Area not exceeding 2 m ²	m ²	10		
1/56.02	Extra over item 56.01 for using: (a) Background of retro-reflective material: (i) Class 1	m ²	10		
1/56.03	Road sign supports (a) Steel tubing (galvanised)	t	0,5		
5600	TOTAL CARRIED FORWARD				
1/61.01	Additional foundation investigation (i) Handling cost and profit in respect of (1/61.01) above.	Prov Sum %	1 R 300 000,00	300 000,00	300 000,00
6100	TOTAL CARRIED FORWARD				
	TOTAL CARRIED FORWARD TO SUMMARY				

MARULENG LOCAL MUNICIPALITY
CONTRACT NO:MLM/SCM/68/2023
CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

SECTION 5900

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5900	<u>FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS</u>				
59,01	Finishing the road and road reserve: (b) Single-carriageway road	km	1,00		
5900	TOTAL CARRIED TO SUMMARY				

MARULENG LOCAL MUNICIPALITY
 CONTRACT NO:MLM/SCM/68/2023
 CONSTRUCTION OF TURKEY 2 LOW LEVEL BRIDGE

SECTION 8100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8100	<u>TESTING MATERIALS AND WORKMANSHIP</u>				
81.02	Other special tests requested by the Engineer:				
	(a) Cost of testing	PC.Sum	1,00	R 100 000,00	R 100 000,00
	(b) Charge on Prime Cost Sum	%	100 000	,	
8100	TOTAL CARRIED TO SUMMARY				

SUMMARY OF SCHEDULE OF QUANTITIES

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	ACCOMMODATION OF TRAFFIC.....	R	_____
1600	OVERHAUL.....	R	_____
1700	CLEARING AND GRUBBING.....	R	_____
1800	DAYWORKS.....	R	_____
2100	DRAINS.....	R	_____
2200	PREFABRICATED CULVERTS.....	R	_____
3300	MASS EARTHWORKS.....	R	_____
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL.....	R	_____
5100	PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION.....	R	_____
5200	GABIONS.....	R	_____
5400	GUARDRAILS.....	R	_____
5600	ROAD SIGNS.....	R	_____
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS.....	R	_____
8100	TESTING MATERIAL AND WORKMANSHIP TREATING OLD ROADS	R	_____

TOTAL R _____

CALCULATION OF TENDER SUM

SUMMARY OF SCHEDULE OF QUANTITIES TOTAL..... R _____

ADD CONTINGENCIES

Add 10% of contingencies R _____

SUBTOTAL R _____

ADD VALUE-ADDED TAX (VAT)

The tenderer shall add 15% of subtotal for VAT R _____

TOTAL CARRIED TO FORM OF OFFER R _____

BIDDER'S SIGNATURE

DATE: