UMZ/IM/UBU LOCAL MUNICIPALITY UMZ/2022-23/INFRA/CAP/013

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	TENDER AMOUNT
1200	GENERAL REQUIREMENTS AND PROVISIONS				
12.01	Community Liaison:				
	(a) Community Liaison Officer cost	Prov. Sum	1.00		
	(b) Monthly sitting allowance for PSC Members	Prov. Sum	1		
	(c) Handling costs and charges for Contractor on items 12.01 (a) to (b)	%			
12.02	Remedial Work				
	(a) Rehabilitation of borrow pits and quarry	Prov. Sum	1		
	(b) Removal of site establishment	Sum			
	CARRIED FORWARD TO SUMMARY:				
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UMZ/2022-23/INFRA/CAP/013

TEM NO	DESCRIPTION	UNIT	QUANTITY	RATE
300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS			
3.01	The contractor's general obligations:			
	(a) Fixed obligations	Lump sum	1	
	(b) <u>Value-related obligations</u>	Lump sum	1	
	(c) <u>Time-related obligations</u>	Month	6	
3.02	Occupational Health & Safety:	lump sum	1	
3.02	(a) - Preparation of Contractor's site specific Health and Safety Plan (b) - Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations (c) - Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations (d) - Provision for Personal Protective Equipment & Protective Clothing including the following items (i) Refective vests (15) (ii) Work Suits(15) (iii) Hard hats(15) (iv) Protective foot wear(15) (v) Earplugs and Goggles (15) (vi) Dust masks (15) (e) - Provision of full time Construction Health and Safety Officer for project duration (f) - Induction Training (g) - Provision of First Aid Boxes (h) - Submission of the Health and Safety File (ii) Contractors Obligations for OHS COVID 19 & Construction Regulations (g) Costs of Medical Certificates for all employees	lump sum		

AMOUNT

TEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1400	HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S PERSONNEL				
14.08	Services:				
	The provision of water, electricity, sewerage, septic tanks, sewage and rubbish removal, cleaning services, maintenance and repairs, all as specified in Clause 14.04, including the construction and maintenance of the access roads, footpaths, etc:				
	(a) Services at office and laboratories				
	(i) Fixed costs	Lump sum	1		
	(ii) Running costs	Month	6		
14.09	Combined office and laboratory accommodation:				
	Office and laboratory accommodation, including fittings, furniture and equipment, car ports and housing in accordance with the details given in the project specification and on the drawings and airconditioning	Lump sum	1		

ITEM NO DESCRIPTION UNIT QUANTIT  1500 ACCOMODATION OF TRAFFIC  15.01 Accomodation of traffic km 5.22	
15.01 Accomodation of traffic km 5.22	
	I.
CARRIED FORWARD TO SUMMARY :	

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1600	OVEHAUL				
	Overhaul on material hauled in excess of 1.0km (ordinary overhaul)	m³-km	21458.12		
CARRIED	FORWARD TO SUMMARY :				
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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1700	CLEARING AND GRUBBING				
17.01	Clear and grubbing	ha	2.61		
17.02	Removal and grubbing of large trees and tree stumps:				
	(a) Girth exceeding 1m up to and including 2m	No		Rate only	
17.04	Clearing and grubbing at inlets and outlets of hydraulic structures	m²		Rate only	
CARRIED	FORWARD TO SUMMARY :				-

DRAINS  21.01 Excavation of open drains  (a) Excavating soft material situated within the following depth ranges below the surface level  (i) 0m up to 1,5m  (b) Extra over subitem B21.01(a) for excavation in hard material irrespective of depth  Clearing and shaping existing open drains  The provided HTML and STATE AMOUNT AND	ITEM	DESCRIPTION:		OUANTES	D 4 TF	4
Excavation of open drains  (a) Excavating soft material situated within the following depth ranges below the surface level  (i) 0m up to 1,5m  (b) Extra over subitem B21.01(a) for excavation in hard material irrespective of depth  Clearing and shaping existing open drains  Rate only  21.02 Clearing or replacing of existing drainage systems  Prov Sum  1.00  Clearing and shaping side and mitre drains by	NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
(a) Excavating soft material situated within the following depth ranges below the surface level  (i) 0m up to 1,5m  (b) Extra over subitem B21.01(a) for excavation in hard material irrespective of depth  21.02 Clearing and shaping existing open drains  Repairing or replacing of existing drainage systems  Prov Sum  1.00  Clearing and shaping side and mitre drains by		DRAINS				
(i) 0m up to 1,5m  (b) Extra over subitem B21.01(a) for excavation in hard material irrespective of depth  21.02 Clearing and shaping existing open drains  21.14 Repairing or replacing of existing drainage systems  Prov Sum  1.00  Clearing and shaping side and mitre drains by	21.01					
(b) Extra over subitem B21.01(a) for excavation in hard material irrespective of depth m³ Rate only  21.02 Clearing and shaping existing open drains m³ 32.00  21.14 Repairing or replacing of existing drainage systems Prov Sum 1.00  21.20 Clearing and shaping side and mitre drains by		(a) Excavating soft material situated within the following depth ranges below the surface level				
21.02 Clearing and shaping existing open drains m³ 32.00 21.14 Repairing or replacing of existing drainage systems Prov Sum 1.00 21.20 Clearing and shaping side and mitre drains by			m³	32.00		
21.14 Repairing or replacing of existing drainage systems Prov Sum 1.00 21.20 Clearing and shaping side and mitre drains by		(b) Extra over subitem B21.01(a) for excavation in hard material irrespective of depth	m³			Rate only
21.20 Clearing and shaping side and mitre drains by	21.02	Clearing and shaping existing open drains	m³	32.00		
21.20 Clearing and shaping side and mitre drains by m 35.00	21.14	Repairing or replacing of existing drainage systems	Prov Sum	1.00		
	21.20	Clearing and shaping side and mitre drains by grader	m	35.00		
CARRIED FORWARD TO SUMMARY:	CADDIES	FORWARD TO CUMMARDY.				

PREFABRICATED CULVERTS  22.01 Excavation  (a) Excavating soft material situated within the following depth ranges below the level surface level  (i) 0m up to 1,5m  (ii) Exceeding 1,5m and up to 3,0m  (b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth  (a) Using the excavated material  (b) Using imported selected material  (c) On class B bedding  (i) 600 mm dia class 100D  (i) 600 mm dia class 100D  (c) concrete pipe culvert  (c) concrete base lab excluding formword but including class U2 surface finish (25MPa / 19)  22.17 Manholes, catch pits, inlet and outlet structurescomplete  Complete inlet structures as per detail on drawing	ITEM	DESCRIPTION	LIMIT	OHANTITY	DATE	AMOUNT
Excavation  (a) Excavating soft material situated within the following depth ranges below the level surface level  (i) Om up to 1,5m	NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
(a) Excavating soft material situated within the following depth ranges below the level surface level  (i) 0m up to 1,5m  (ii) Exceeding 1,5m and up to 3,0m  (b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth  22.02 Backfilling  (a) Using the excavated material  (b) Using imported selected material  (c) Concrete pipe culvert  (b) On class B bedding  (i) 600 mm dia class 100D  22.07 Cast in situ concrete and formwork  LIC  (c) concrete base lab excluding formword but including class U2 surface finish ( 25MPa / 19)  22.17 Manholes, catch pits, inlet and outlet structurescomplete  LIC  Complete inlet structures as per detail on drawing	2200	PREFABRICATED CULVERTS				
depth ranges below the level surface level  (i) 0m up to 1,5m  (ii) Exceeding 1,5m and up to 3,0m  (b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth  22.02 Backfilling  (a) Using the excavated material  (b) Using imported selected material  73 28.00  22.03 Concrete pipe culvert  (b) On class B bedding  (i) 600 mm dia class 100D  75 22.07 Cast in situ concrete and formwork  LIC (c) concrete base lab excluding formword but including class U2 surface finish (25MPa / 19)  76 22.17 Manholes, catch pits, inlet and outlet structurescomplete  LIC Complete inlet structures as per detail on drawing	22.01	Excavation				
(ii) Exceeding 1,5m and up to 3,0m (b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth  22.02 Backfilling (a) Using the excavated material (b) Using imported selected material (c) Using imported selected material  22.03 Concrete pipe culvert (b) On class B bedding (i) 600 mm dia class 100D  22.07 Cast in situ concrete and formwork  LIC (c) concrete base lab excluding formword but including class U2 surface finish ( 25MPa / 19)  22.17 Manholes, catch pits, inlet and outlet structurescomplete  LIC LIC Complete inlet structures as per detail on drawing No						
(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth  22.02 Backfilling  (a) Using the excavated material  (b) Using imported selected material  73 28.00  22.03 Concrete pipe culvert  (b) On class B bedding  (i) 600 mm dia class 100D  75 22.07 Cast in situ concrete and formwork  LIC  LIC  (c) concrete base lab excluding formword but including class U2 surface finish (25MPa / 19)  22.17 Manholes, catch pits, inlet and outlet structurescomplete  LIC  Complete inlet structures as per detail on drawing		(i) 0m up to 1,5m	m³	35.00		
material, irrespective of depth m3 32.00  22.02 Backfilling  (a) Using the excavated material m3 28.00  (b) Using imported selected material m3  22.03 Concrete pipe culvert  (b) On class B bedding  (i) 600 mm dia class 100D m 22.50  22.07 Cast in situ concrete and formwork  LIC (c) concrete base lab excluding formword but including class U2 surface finish (25MPa / 19) m3 32.00  22.17 Manholes, catch pits, inlet and outlet structurescomplete  LIC Complete inlet structures as per detail on drawing No No 3.00  C2.26 Hand excavation to determine the position of		(ii) Exceeding 1,5m and up to 3,0m	m³			
(a) Using the excavated material  (b) Using imported selected material  22.03  Concrete pipe culvert  (b) On class B bedding  (i) 600 mm dia class 100D  m 22.50  22.07  Cast in situ concrete and formwork  LIC  (c) concrete base lab excluding formword but including class U2 surface finish ( 25MPa / 19)  m³ 32.00  22.17  Manholes, catch pits, inlet and outlet structurescomplete  LIC  LIC  Complete inlet structures as per detail on drawing			m³	32.00		
(b) Using imported selected material m³  22.03 Concrete pipe culvert (b) On class B bedding (i) 600 mm dia class 100D m 22.50  22.07 Cast in situ concrete and formwork LIC (c) concrete base lab excluding formword but including class U2 surface finish ( 25MPa / 19) m³ 32.00  22.17 Manholes, catch pits, inlet and outlet structurescomplete LIC Complete inlet structures as per detail on drawing	22.02	Backfilling				
22.03 Concrete pipe culvert  (b) On class B bedding  (i) 600 mm dia class 100D  m 22.50  22.07 Cast in situ concrete and formwork  LIC (c) concrete base lab excluding formword but including class U2 surface finish ( 25MPa / 19)  m³ 32.00  22.17 Manholes, catch pits, inlet and outlet structurescomplete  LIC Complete inlet structures as per detail on drawing		(a) Using the excavated material	m³	28.00		
(b) On class B bedding (i) 600 mm dia class 100D  22.07  Cast in situ concrete and formwork  LIC (c) concrete base lab excluding formword but including class U2 surface finish ( 25MPa / 19)  22.17  Manholes, catch pits, inlet and outlet structurescomplete  LIC LIC Complete inlet structures as per detail on drawing  No 3.00  No 3.00  22.26  Hand excavation to determine the position of		(b) Using imported selected material	m³			
(i) 600 mm dia class 100D m 22.50  22.07 Cast in situ concrete and formwork  LIC (c) concrete base lab excluding formword but including class U2 surface finish (25MPa / 19) m³ 32.00  22.17 Manholes, catch pits, inlet and outlet structurescomplete  LIC Complete inlet structures as per detail on drawing	22.03	Concrete pipe culvert				
22.07 Cast in situ concrete and formwork  LIC (c) concrete base lab excluding formword but including class U2 surface finish ( 25MPa / 19)  22.17 Manholes, catch pits, inlet and outlet structurescomplete  LIC Complete inlet structures as per detail on drawing		(b) On class B bedding				
LIC (c) concrete base lab excluding formword but including class U2 surface finish ( 25MPa / 19)  22.17 Manholes, catch pits, inlet and outlet structurescomplete  LIC Complete inlet structures as per detail on drawing		(i) 600 mm dia class 100D	m	22.50		
class U2 surface finish ( 25MPa / 19)  22.17 Manholes, catch pits, inlet and outlet structurescomplete  LIC Complete inlet structures as per detail on drawing	22.07	Cast in situ concrete and formwork				
LIC Complete inlet structures as per detail on drawing No 3.00 LIC Complete outlet structures as per detail on drawing No 3.00 22.26 Hand excavation to determine the position of	LIC		m³	32.00		
LIC Complete outlet structures as per detail on drawing	22.17	Manholes, catch pits, inlet and outlet structurescomplete				
			m³	30.00		
CARRIED FORWARD TO SUMMARY:	CARRIED	FORWARD TO SUMMARY :				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3100	BORROW MATERIALS				_
		m3	95.00		
31.01	Excess overburden (provisional)	m³	85.00		
31.03	Finishing-off borrow areas	h-a	0.00		
	(a) Hard material	ha	0.80		
	(b) Intermediate material	ha	0.60		
	(c) Soft material	ha	0.90		
CARRIED	FORWARD TO SUMMARY:				-

3300 33.01	DESCRIPTION  MASS EARTHWORKS  Cut and borrow to fill, including freehaul up to 0.5km:  (a) Material in compacted layer thickness of 150mm and less:	UNIT	QUANTITY	RATE	AMOUNT
33.01	Cut and borrow to fill, including freehaul up to 0.5km:  (a) Material in compacted layer thickness of 150mm and				
	(a) Material in compacted layer thickness of 150mm and				
33					
33	10001				
33	(ii) Compacted to 93% of mod AASHTO	m³	3,915		
00	Cut to spoil, including free-haul up to 0.5km Material obtained from:				
	(a) Soft excavation     (b) Intermediate excavation     (c) Hard excavation	m³ m³ m³	120 24 24		
33.07	Removal of unsuitable material (including free-haul of 0.5km)				
	(a) In layer thickeness of 150mm and less:				
	(i) Stable Material	m³	1,320		
33.10	Roadbed preparation and compaction of material				
	(b) Compaction to 93% Mod AASHTO density	m³	975		
33.12	Insitu treatment of roadbed (a) Insitu treatment by ripping	km	1		
CARRIED	FORWARD TO SUMMARY:				

ITEM			1		
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL				
34.01	Pavement layers constructed from gravel taken from cut or borrow including free haul up to 1,0km				
	(h) Gravel wearing course compacted to				
	(ii) 95% Mod AASHTO density: 150mm layer thickness	m³	3915.00		
	100mm ayer thickness		3313.00		
CARRIED	FORWARD TO SUMMARY:				-

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5100	PITCHING, STONEWORK AND PROTECTION AGAINST EROSION				
51.01	Stone pitching				
LIC	(b) Grouted stone pitching	m²	150.00		
51.03	Stone masonry walls:				
	(b) Cement-mortared stone walls	m²		Rate only	

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
ITEM NO		51411	QUARTITI	NAIL	AMOUNT
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
59.01	Finishing road and road reserve				
	b) Single carriageway road	km	5.22		
CARRIED	D FORWARD TO SUMMARY :				_

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6200	FALSEWORK, FORMWORK AND CONCRETE FINISH				
62.01	Formwork to provide class F2 surface finish to concrete	m²			
62.02	Vertical formwork to provide class F2 surface finish to concrete	m²	60.00		
	0.00				
CARRIED	FORWARD TO SUMMARY :				<u> </u>

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6300	STEEL REINFORCING FOR STRUCTURES				
63.01	Steel reinforcement for:				
	(a) Concrete				
	(3) Welded steel fabric mesh (ref 395)	kg	128		
CARRIED	FORWARD TO SUMMARY :				
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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6400	CONCRETE FOR STRUCTURES				
64.01	Cast in situ concrete				
LIC	(a) Class 25 /19	m³	22.50		
CARRIED	FORWARD TO SUMMARY:				

## SUMMARY OF SCHEDULE OF QUANTITIES

SECTION	DESCRIPTION	AMOUNT
1200	General Requirements and Provisions	
1300	Contractors Establishment and General Obligations	
1400	House, Offices and Laboratory for Engineer's Personnel	
1500	Accomodation of Traffic	
1600	Overhaul	
1700	Clearing and Grabbing	
2100	Drains	
2200	Prafabricated Culverts	
3100	Borrow Materials	
3300	Mass Earthworks	
3400	Pavement Layers of Gravel Material	
5100	Pitching, Stonework and Protection Against Erosion	
5600	Road signs	
5900	Finishing the Road Reserve and Treating of Old Roads	
6200	Falsework, Formwork and Concrete Finish	
6300	Steel reinforcing of Structures	
6400	Concrete for Structures	
8100	Testing Workmanship and Materials	
Subtotal A		
Add 15% VA	Г	
Total Tender	Amount	

Signed :		
Date:		

Name of Tenderer :