

Schedule of quantities

Contract No: 19/2021

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5 WAKKERSTROOM/ESIZAMELENI

Section 1200

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B12.01	<u>GENERAL REQUIREMENTS AND PROVISIONS</u>				
	(a) Training:	Prov Sum	1	15 000.00	15000
	(b) Contractor's handling costs, profit and all other charges in respect of Subitems B12.01(a)	%	15 000.00		
B12.02	Remuneration of members the Project Liaison committee				
	(a) Project Liaison Officer	Prov Sum	1	9 000.00	9 000.00
	(b) Contractor's handling costs, profit and all other charges in respects of Subitems B12.02(a)				
	(i) Project Liaison Committee	%	9 000.00		
B12.03	Protecting removal,re-alignment and replacement of services				
	(a) Relocation and protection of services	Prov Sum	1	5 000.00	5 000.00
	(b) Handling costs and profit in respect of item B12.03(a)	%	5 000.00		
1200	TOTAL CARRIED TO SUMMARY				

Contract No: 19/2021

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5 WAKKERSTROOM/ESIZAMELENI

Section1300

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B13.01	<u>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</u>				
	The Contractor's general obligations:				
	(a) Fixed obligations	Lump Sum	1		
	(b) Value-related obligations	Lump Sum	1		
	(c) Time-related obligations	month	3		
	B13.06 Occupational Health and Safety Requirements				
	(a) Contractor's initial obligations in respect of the of the OH&S Act and Construction Regulations	Lump Sum	1		
B13.06	(b) Contractor's time related obligations in respect OH&S Act and Construction Regulations	month	3		
	(c) Submission of the Health and Safety File	Lump Sum	1		
	B13.07 Supply, transport to site and erect contract signboard	No	1		
1300	TOTAL CARRIED TO SUMMARY				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
14.01	<u>HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL</u>				
	Office and laboratory accommodation:				
	(a) Offices (interior floor space only)	m ²	20		
	(e) Ablution units	m ²	10		
	(f) Stores	m ²	10		
	14.02 Office and laboratory furniture:				
	(a) Chairs	number	6		
	(d) Desks, complete with drawers and locks	number	1		
	(f) Conference tables	number	1		
	B14.03 Office and laboratory fittings, installations and equipment:				
	(a) Items measured by number:				
	(i) 220/250 volt power points	number	2		
	(iii) Double 80 watt fluorescent-light fittings complete with ballast and tubes	number	3		
	(vi) Wash-hand basins complete with taps and drains	number	1		
	(x) Fire extinguishers, 9,0 kg all purpose dry powder type, complete, mounted on wall with brackets	number	1		
1400	Carried forward				

Contract No: 19/2021

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5 WAKKERSTROOM/ESIZAMELENI

Section 1400

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward				
	(xvi) Refrigerators	number	1		
	(xvii) Bookcases	number	1		
	(xix) Rain gauge	number	1		
	(b) Prime-cost items and items paid for in a lump sum:				
	(i) The provision of telephone service, with ADSL/ unlimited 3G wifi including the cost of calls in connection with contract administration	PC Sum	1		
	(ii) Handling costs and profit in respect of subsubitem B14.03(b)(i) above	%	0.00		
1400	Carried forward				

Contract No: 19/2021

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5 WAKKERSTROOM/ESIZAMELENI

Section 1400

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward				
14.04	Car-ports	number	2		
14.08	Services:				
	(a) Services at offices and laboratories:				
	(i) Fixed costs	Lump Sum	1		
	(ii) Running costs	month	3		
14.10	Provision of photostat facilities	month	3		
B14.11	Provision of computers and printers with A3 paper scanner				
	(a) Computer	number	1		
	(b) Printer	number	1		
1400	TOTAL CARRIED TO SUMMARY				

Contract No: 19/2021

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5 WAKKERSTROOM/ESIZAMELENI

Section 1500

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>ACCOMMODATION OF TRAFFIC</u>				
15.01	Accommodating traffic and maintaining temporary deviations	km	0.3		
15.03	Temporary traffic-control facilities:				
	(a) Flagmen	man-day	80		
	(b) Portable STOP and GO-RY signs	No.	2		
	(e) Road signs, R- and TR-series	No.	4		
	(f) Road signs, TW-series	No.	8		
	(g) Road signs, STW-, DTG-, TGS- and TG-series (excluding delineators and barricades)	m²	20		Rate Only
	(h) Delineators (DTG50J)				
	(i) Single	No.	50		
	(i) Movable barricade/road sign combination	No.	2		
1500	TOTAL CARRIED TO SUMMARY				

Contract No: 19/2021

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5 WAKKERSTROOM/ESIZAMELENI

Section 1700

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>CLEARING AND GRUBBING</u>				
17.01	Clearing and grubbing	ha	0.3		
17.02	Removal and grubbing of large trees and tree stumps:				
	(a) Girth exceeding 1m up to and including 2m	No.	0.05		
1700	TOTAL CARRIED TO SUMMARY				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1800	DAYWORKS				
B18.01	Personnel during normal working hours				
	(a) unskilled labour	h	1		Rate Only
	(b) Semi-skilled labour	h	1		Rate Only
	(c) Skilled labour	h	1		Rate Only
	(d) Foreman	h	1		Rate Only
	(e) Surveyor	h	1		Rate Only
B18.02	Personnel outside normal working hours				
	(a) Outside normal working hours and Saturdays				
	(i) Unskilled labour	h	1		Rate Only
	(ii) Semi-skilled labour	h	1		Rate Only
	(iii) Skilled labour	h	1		Rate Only
	(iv) Ganger	h	1		Rate Only
	(b) Sundays and Public holidays				
	(i) Unskilled labour	h	1		Rate Only
	(ii) Semi-skilled labour	h	1		Rate Only
	(iii) Skilled labour	h	1		Rate Only
	(iv) Ganger	h	1		Rate Only
	(v) Flagmen	h	1		Rate Only
B18.03	Plant				
	(a) Cat D7H dozer or equivalent	h	1		Rate Only
	(b) Cat 350 Excavator or equivalent	h	1		Rate Only
	(c) Cat 428 TLB or equivalent	h	1		Rate Only
	(d) Cat 140G Grader or equivalent	h	1		Rate Only
	(e) Cat 930 Loader or equivalent	h	1		Rate Only
	(f) 15 Ton Grid roller and tractor	h	1		Rate Only
	(g) 22 Ton Pneumatic roller	h	1		Rate Only
	(h) Bomag 90 Pedestrian roller or equivalent	h	1		Rate Only
	(i) Watercart 10 000l	h	1		Rate Only
	(j) Road sweeper	h	1		Rate Only
	(k) 10 m3 Tippers	h	1		Rate Only
B18.05	Transport				
	(a) LDV	km	1		Rate Only
	(b) Flatbed truck	km	1		Rate Only
1800	TOTAL CARRIED TO SUMMARY				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
21.01	<u>DRAINS</u> Excavation for open drains: (a) Excavating soft material situated within the following depth ranges below the surface level: (i) 0 m up to 1,5 m	m ³	80		
2100	TOTAL CARRIED TO SUMMARY				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
22.10	Steel reinforcement:				
	(c) Welded steel fabric (193)	kg	3200		
B22.12	Removing existiing concrete				
	(a) Plain concrete	m ³	5		
2200	TOTAL CARRIED TO SUMMARY				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
23.01	<u>CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS</u>				
	Concrete kerbing:				
	(a) Precast kerbing to SABS 927:				
	(i) Fig 8 mountable kerb as per drawing				
	(1) Radius 1m to 4m	m	50		
23.07	(2) Radius 4,01 to 20 m	m	50		
	(3) Straight and to radius not less than 20 m	m	500		
	Trimming of excavations for concrete-lined open drains:				
23.08	(a) In soft material	m ²	10		
	(b) In hard material	m ²	180		
23.09	Concrete lining for open drains:				
	(a) Cast in situ class 30/20 concrete lining in V drains as per drawing	m ³	60		
	(b) Class U2 finish to cast in-situ concrete	m ²	180		
23.10	Formwork to cast insitu concrete lining for open drains (Class F2 finish)				
	(a) To sides with formwork on the internal face of	m ²	50		
	(b) To ends of slabs	m ²	50		
23.10	Sealed joints in concrete lining for open drains:				
	(a) Polysulphide sealants	m	70		
2300	TOTAL CARRIED TO SUMMARY				

Contract No: 19/2021

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5 WAKKERSTROOM/ESIZAMELENI

Section 3300

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
33.01	<u>MASS EARTHWORKS</u>				
	Cut and borrow to fill, including all haul:				
	(a) Gravel material in compacted thickness of 150 mm				
	(ii) Compacted to 90% of maximum dry density	m ³	100		
	33.03 Extra over item 33.01 for excavating and breaking down material in:				
	(a) Intermediate excavation	m ³	100		
	(b) Hard excavation	m ³	10		
	33.04 Cut to spoil, including all haul Material obtained from:				
	(a) Soft excavation	m ³	100		
	33.10 Roadbed preparation and the compaction material (200 mm thick):				
	(a) Compaction to 90% of maximum dry density density	m ³	360		
3300	TOTAL CARRIED TO SUMMARY				

Contract No: 19/2021

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5 WAKKERSTROOM/ESIZAMELENI

Section 3400

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B34.01	<u>PAVEMENT LAYERS OF GRAVEL MATERIAL</u>				
	Pavement layers constructed from gravel obtained from commercial sources				
	(a) G7 natural gravel selected layer:				
	(i) 93% modified AASHTO density 150mm thick	m ³	260		
	(d) G6 gravel material for subbase layer:				
	(i) 95% modified AASHTO density, C4 chemically 150 mm thick	m ³	260		
3400	TOTAL CARRIED TO SUMMARY				

Contract No: 19/2021

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5 WAKKERSTROOM/ESIZAMELENI

Section 3500

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>STABILIZATION</u>				
35.01	Chemical stabilization (150mm thick) extra over unstabilized compacted layers (subbase)	m³	300		
35.02	Chemical stabilizing agent:				
	(a) CEM II 32,5N	t	20		
3500	TOTAL CARRIED TO SUMMARY				

SECTION 3800

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BREAKING UP EXISTING PAVEMENT LAYERS</u>				
38.10	Preparing stockpile areas	m ²	1 000.00		
38.11	Extra over item 38,10 for watering and compacting stockpile sites	m ³	30.00		
3800	TOTAL CARRIED TO SUMMARY				

Contract No: 19/2021

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5

Section 5100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5100	<u>PITCHING AND BLOCK PAVING PROTECTION AGAINST EROSION</u>				
51.04	Concrete pitching and and block paving				
	(b) Segmental block paving				
	(i) 80 mm (S-A)	m ²	1500.00		
51.05	Concrete edge beams - 600x300 25/20 concrete as per drawing	m ³	5.00		
51.06	Provision of an approved herbicide and ant poisoning				
	(a) Provision of materials	PC Sum	1	10 000.00	10 000.00
	(b) Contrator's charges and and profit added to the prime cost sum	%	10 000		
5100	TOTAL CARRIED TO SUMMARY				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
56.01	<u>ROAD SIGNS</u> Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or Class I retro-reflective material, where the sign board is constructed from: (c) Prepainted galvanized steel plate (chromadek or approved equivalent): (i) Area not exceeding 2 m ²	m ²	5		
56.03	Road sign supports (Overhead road sign structures excluded): (a) Steel tubing (150mm dia x 3.0 thickness) (b) Timber (110mm, creosorted pole)	t m	0.05 10		
56.05	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m ³	2		
56.06	Extra over item 56.05 for cement-treated soil backfill	m ³	2		
5600	TOTAL CARRIED TO SUMMARY				

Contract No: 19/2021

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5 WAKKERSTROOM/ESIZAMI **Section 5700**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
57.02	<u>ROAD MARKINGS</u>				
	Retro-reflective roadmarking paint				
	(d) White lettering and symbols	m ²	10.00		
	(f) Transverse lines, painted island and arrestor bed markings (any colour)	m ²	50.00		
57.04	(g) Kerb markings (any colour)	m ²	2.00		
	Variations in rate of application				
	(a) White paint	litre	200.00		Rate only
5700	TOTAL CARRIED TO SUMMARY				

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5 WAKKERSTROOM/ESIZAMELEN Section 8100

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
8100	TESTING MATERIALS AND WORKMANSHIP				
81.02	Other special tests requested by the Engineer:				
	(a) Cost of testing	PC Sum		40 000	R 40 000.00
	(b) Charge on Prime Cost Sum	%	R 40 000		
8100	TOTAL CARRIED FORWARD TO SUMMARY				

Contract No: 19/2021

THE CONSTRUCTION OF INTERNAL STREETS IN WARD 5 WAKKERSTROOM/ESIZAMELENI

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	
1700	CLEARING AND GRUBBING	R	
1800	DAYWORKS	R	
2100	DRAINS	R	
2200	PREFABRICATED CULVERTS	R	
2300	CONCRETE KERBING, CONCRETE		
3300	MASS EARTHWORKS	R	
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL	R	
3500	STABILIZATION	R	
3800	BREAKING UP EXISTING PAVEMENT LAYERS.....	R	
5100	STONE PITCHING.....	R	
5600	ROAD SIGNS	R	
5700	ROAD MARKINGS	R	
8100	TESTING MATERIALS AND WORKMANSHIP	R	
TOTAL SCHEDULE A : ROAD CONSTRUCTION		R	
CONTINGENCIES			
The sum provided here is under the sole control of the Engineer and may be deducted in whole or in part. (The Tenderer must add 10% of the total of schedule of quantities)			
SUBTOTAL		R	
VALUE-ADDED TAX (VAT)			
The tenderer shall add 15% of subtotal for VAT		R	
TENDER SUM CARRIED TO FORM OF TENDER		R	

SIGNED ON BEHALF OF TENDERER :