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BILL OF QUANTITIES**SECTION 1 PRELIMINARY AND GENERAL ITEMS****PART 0102 C1.2 GENERAL REQUIREMENTS AND PROVISIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>General Conditions</u>				
1	GCC 2004	GENERAL CONDITIONS OF CONTRACT (GCC2004) READ IN CONJUNCTION WITH THE CONTRACT DATA	sum	1		
2	C1.2.2.6	Preparation and submission of all information and reports specified in the Contract Documentation	months	18		
		<u>Stakeholder Management & Liaison</u>				
3	C1.2.4	Stakeholder liaison	months	18		
4	PS.12	Allow for CLO's to be appointed	PC Sum	141600	1.00	141,600.00
5	PS.12	Handling costs and profit in respect of PS	%	141600		
6	PS.11	Provision of security on site to guard against any disruption of the works throughout the duration of the contract	months	18		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL ITEMS**R****PART 0103 C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Contractor's General Obligations</u>				
1	C1.3.1.1/PS.C 1.3.1	Fixed obligations	Lump sum	1		
2	C1.3.1.2/PS.C 1.3.1	Value-related obligations	Lump sum	1		
3	C1.3.1.3/PS.C 1.3.1	Time-related obligations	months	18		
4	C1.3.2	Contract Sign Boards	m2	1		
		<u>Occupational Health and Safety</u>				
5	PS AH.14.1	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
6	PS AH.14.2	Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
7	PS AH.14.3	Submission of Health and Safety File	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL ITEMS**R**

Maintenance of Category A, B and C Bridges within eThekweni Municipality

PART 0105 C1.5 ACCOMMODATION OF TRAFFIC

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Temporal Traffic Control</u>				
1	C1.5.1.1	Accommodation of pedestrian and non-motorised traffic:Accommodation of pedestrian and non-motorised traffic	months	18		
2	C1.5.2	Accommodation of vehicular traffic	months	18		
3	C1.5.7.1(a)	Temporary traffic control facilities:Delineators including mounting bases and ballast: Single sided, reversible left or right (size indicated)	no	100		
4	C1.5.8	Traffic safety officer	man-day	100		
5	1.5.7.5(a)(i)	Provision of illuminated traffic signs:Sign mounted flashing amber lights (2 lights with the specified power supply) mounted on a backing board which is:(a)(i) 900 mm wide x 150 mm high	no	10		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL ITEMS**R**

Maintenance of Category A, B and C Bridges within eThekweni Municipality

SECTION 2 ABUTMENTS**PART 0302 C3.2 CULVERTS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C3.2.19.4/PS. C3.2.19.4	Manhole covers or gratings (type 1, 2, 3 and/or 4, load bearing and SANS specification indicated in Clause A3.2.5.2 and Drawing No. 38570)	no	8		

TOTAL CARRIED TO SECTION 2 SUMMARY: ABUTMENTS

R

PART 0703 C7.3 REMOVAL AND REINSTATEMENT OF EX CON

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C7.3.1.2	Removal and replacing of concrete in rehabilitation work: Reinforced	m3	3		

TOTAL CARRIED TO SECTION 2 SUMMARY: ABUTMENTS

R

PART 1404 C14.4 SURFACE AND STRUCTURAL REPAIR

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.4.3.1	Proprietary cementitious repair system Class R3 and R4 and shall include shuttering as per clause A14.4.7 in positions as indicated in accordance with Table A14.4.5-1. Class R4 For All Abutment Walls Bridges specified in C3.1.4	l	217		
2	C14.4.4.1	Curing of repair surfaces: By coating the surface with active corrosion inhibitors, passive corrosion, protective coatings and/ cathodic protection refer to Clause A14.4.5.5-a) Curing of repaired surface and Clause A14.4.7.6 Protection and curing	m2	50		

TOTAL CARRIED TO SECTION 2 SUMMARY: ABUTMENTS

R

PART 1405 C14.5 ANCHORING OF REINFORCEMENT, GROUT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.5.4	Establishment on site for crack injection (Access-using scaffold < 10 m and any necessary material/equipment to execute work)	sum	1		
2	C14.5.7.1	Crack filling: Repair system to abutment walls	m	221		

TOTAL CARRIED TO SECTION 2 SUMMARY: ABUTMENTS

R

Maintenance of Category A, B and C Bridges within eThekweni Municipality

PART 1407 C14.7 PROTECTIVE COATINGS AND TREATMENTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.7.1	Cleaning and preparation of concrete surface (high-pressure water jetting, abrasive blasting, low-pressure airless sprayer to achieve Class 3A smooth concrete finish)	m2	1405		
2	C14.7.2	Application of protective coatings and treatments: Includes protection against ingress, moisture control, increasing physical resistance, resistance to chemicals and increasing resistivity (all coatings shall be in accordance with EN 1509-9)	m2	50		

TOTAL CARRIED TO SECTION 2 SUMMARY: ABUTMENTS

R

Maintenance of Category A, B and C Bridges within eThekweni Municipality

SECTION 3 BANKS AND APPROACHES**PART 0106 C1.6 CLEARING AND GRUBBING**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.6.1.1	Clearing: Clearing with machines and some hand labour where necessary	ha	0.102		
2	C1.6.3.1	Removal and grubbing of large trees and tree stumps: Girth equal to or exceeding 1,0 m up to and including 2,0 m	no	21		

TOTAL CARRIED TO SECTION 3 SUMMARY: BANKS AND APPROACHES

R

PART 0303 C3.3 CONCRETE KERBING AND CHANNELING

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C3.3.7.1	Cast in situ concrete chutes (200mm min. thickness): Concrete (Grouted with mortar of 1 Cement : 3 Sand)	m3	20		

TOTAL CARRIED TO SECTION 3 SUMMARY: BANKS AND APPROACHES

R

PART 0502 C5.2 FILL

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C5.2.2.1(b)	Fill construction: Normal fill material in compacted layer thicknesses of 200 mm and less: (b) Compacted to 93 % of MDD	m3	86		

TOTAL CARRIED TO SECTION 3 SUMMARY: BANKS AND APPROACHES

R

PART 1101 C11.1 PITCHING, STONEMWORK, CAST IN SITU

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.1.5.1	Cast in situ concrete pitching or paving (Concrete Grade 15/13 and stone pitching shall not be less than 200 mm in minimum dimension)	m2	20		

TOTAL CARRIED TO SECTION 3 SUMMARY: BANKS AND APPROACHES

R

PART 1206 C12.6 MECH STABILISED FILL AND GABIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C12.6.16.4	Gabions and mattresses: PVC-coated gabion mattresses (mattress sizes may be supplied subject to the Engineer's prior approval)	m3	30		
2	C12.6.17	Geotextile: Textile material, which may be nonwoven, knitted, woven knitted or stitch-bonded fibres or yarns, used in contact with/or other materials in geotechnical and civil engineering applications	m2	30		

TOTAL CARRIED TO SECTION 3 SUMMARY: BANKS AND APPROACHES

R

Maintenance of Category A, B and C Bridges within eThekweni Municipality

SECTION 4 DECK**PART 0703 C7.3 REMOVAL AND REINSTATEMENT OF EX CON**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C7.1.3.2	Removal of concrete in rehabilitation work: Reinforced	m3	6		

TOTAL CARRIED TO SECTION 4 SUMMARY: DECK

R

PART 1311 C13.11 STRUCTURAL STEELWORK FOR MAJOR

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C13.11.1	Supply, fabrication and erection of steelwork (labour and plant associated with erecting and fixing the steelwork on the different sites is inclusive)	t	2.3		

TOTAL CARRIED TO SECTION 4 SUMMARY: DECK

R

PART 1404 C14.4 SURFACE AND STRUCTURAL REPAIR

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.4.3.1	Proprietary cementitious repair system Class R3 or R4. It shall include shattering as per Clause A14.4.7 in positions as indicated in accordance with Table A14.4.5-1. Class R4 for all Bridge Decks of Bridges specified in C3.1.4	l	2004		
2	C14.4.3.1	Proprietary cementitious repair system Class R3 or R4. It shall include shattering as per Clause A14.4.7 in positions as indicated in accordance with Table A14.4.5-1. Class R4 for all Bridge Decks of Bridges specified in C3.1.4. It includes cleaning and preparation of all surfaces in accordance with the supplier specifications, inclusive of the cleaning and treatment of existing reinforcement steel.	l	15		

TOTAL CARRIED TO SECTION 4 SUMMARY: DECK

R

PART 1405 C14.5 ANCHORING OF REINFORCEMENT, GROUTI

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.5.4	Establishment on site for crack injection	sum	1		
2	C14.5.7.1	Crack filling: Repair system to (decks members as directed by Engineer to specific sites)	m	526		

TOTAL CARRIED TO SECTION 4 SUMMARY: DECK

R

PART 1407 C14.7 PROTECTIVE COATINGS AND TREATMENTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.7.1	Cleaning and preparation of concrete surface (high-pressure water jetting, abrasive blasting, low-pressure airless sprayer to achieve Class 3A smooth finish)	m2	346		

TOTAL CARRIED TO SECTION 4 SUMMARY: DECK R

Maintenance of Category A, B and C Bridges within eThekweni Municipality

SECTION 5 PIERS**PART 1310 C13.10 PAINTING OF MINOR STRUCTURES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C13.10.1.1	Painting: Clean and repaint steel for pier columns (refer to clause 13.10 for painting of minor steel structures)	m2	245		

TOTAL CARRIED TO SECTION 5 SUMMARY: PIERS

R

PART 1404 C14.4 SURFACE AND STRUCTURAL REPAIR

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.4.3.1	Proprietary cementitious repair system (Class R3 and R4. Shall include shuttering as per clause A14.4.7 in accordance with Table A14.4.5-1. Class R3 and R4 for all piers specified for bridges in C3.1.4.	l	376		
2	C14.4.4.1	Curing of repair surfaces: By coating the surface with active corrosion inhibitors, passive corrosion, protective coatings and/ cathodic protection refer to Clause A14.4.5.5-a). Curing of repaired surface and Clause A14.4.7.6 Protection and curing.	m2	1750		

TOTAL CARRIED TO SECTION 5 SUMMARY: PIERS

R

PART 1405 C14.5 ANCHORING OF REINFORCEMENT, GROUT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.5.7.1	Crack filling: Repair system to pier	m	22		

TOTAL CARRIED TO SECTION 5 SUMMARY: PIERS

R

PART 1407 C14.7 PROTECTIVE COATINGS AND TREATMENTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.7.1	Cleaning and preparation of concrete surface (high-pressure water jetting, abrasive blasting, low-pressure airless sprayer to achieve Class 3A smooth concrete finish)	m2	270		

TOTAL CARRIED TO SECTION 5 SUMMARY: PIERS

R

Maintenance of Category A, B and C Bridges within eThekweni Municipality

SECTION 6 SIDEWALKS**PART 0106 C1.6 CLEARING AND GRUBBING**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.6.1.1	Clearing: Clearing with machines and some hand labour where necessary	ha	0.034		

TOTAL CARRIED TO SECTION 6 SUMMARY: SIDEWALKS

R

PART 0303 C3.3 CONCRETE KERBING AND CHANNELING

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C3.3.2.1	Prefabricated kerbing-channeling (barrier kerb with channel/fillet, barrier kerb with graded channel, mountable kerb and channel/fillet, scoop kerb and channel/fillet, refer to drawing number 38577)	m	3		

TOTAL CARRIED TO SECTION 6 SUMMARY: SIDEWALKS

R

PART 0602 C6.2 SEGMENTAL BLOCK PAVING LAYERS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C6.2.1.1/PS.C 6.2.1.1	Segmental concrete block paving (precast paving slabs with maximum thickness of 100mm)	m2	298		

TOTAL CARRIED TO SECTION 6 SUMMARY: SIDEWALKS

R

PART 1404 C14.4 SURFACE AND STRUCTURAL REPAIR

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.4.3.1	Proprietary cementitious repair system Class R3 and R4. Shall include shuttering as per clause A14.4.7 in positions as indicated in accordance with Table A14.4.5-1. Class R3 and R4 for all sidewalks specified in C3.1.4	l	42		

TOTAL CARRIED TO SECTION 6 SUMMARY: SIDEWALKS

R

PART 1407 C14.7 PROTECTIVE COATINGS AND TREATMENTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.7.1	Cleaning and preparation of concrete surface (high-pressure water jetting, abrasive blasting, low-pressure airless sprayer to achieve Class 3A smooth concrete finish)	m2	100		

TOTAL CARRIED TO SECTION 6 SUMMARY: SIDEWALKS

R

Maintenance of Category A, B and C Bridges within eThekweni Municipality

SECTION 7 WALLS**PART 1206 C12.6 MECH STABILISED FILL AND GABIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C12.6.12.2	Facings: Replace precast concrete blocks with a thickness of 60, 80 or 100 mm with a chamfered top edge	m2	800		

TOTAL CARRIED TO SECTION 7 SUMMARY: WALLS

R

PART 1404 C14.4 SURFACE AND STRUCTURAL REPAIR

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.4.3.1	Proprietary cementitious repair system Class R3 and R4. Shall include shuttering as per clause A14.4.7 in positions as indicated in accordance with Table A14.4.5-1. Class R3 and R4 for all walls for the bridges specified in C3.1.4	l	25		
2	C14.4.4.1	Curing of repair surfaces: By coating the surface with active corrosion inhibitors, passive corrosion, protective coatings and/ cathodic protection refer to Clause A14.4.5.5-a) Curing of repaired surface and clause A14.4.7.6 Protection and Curing	m2	50		

TOTAL CARRIED TO SECTION 7 SUMMARY: WALLS

R

PART 1405 C14.5 ANCHORING OF REINFORCEMENT, GROUT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.5.7.1	Crack filling: Repair system to walls	m	82		

TOTAL CARRIED TO SECTION 7 SUMMARY: WALLS

R

PART 1407 C14.7 PROTECTIVE COATINGS AND TREATMENTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C14.7.1	Cleaning and preparation of concrete surface (high-pressure water jetting, abrasive blasting, low-pressure airless sprayer to achieve Class 3A smooth concrete finish)	m2	20		

TOTAL CARRIED TO SECTION 7 SUMMARY: WALLS

R

Maintenance of Catergory A, B and C Bridges within eThekwni Municipality

SECTION 8 WATERWAY

PART 0106 C1.6 CLEARING AND GRUBBING

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.6.1.1	Clearing:Clearing with machines and some hand labour where necessary	ha	0.024		

TOTAL CARRIED TO SECTION 8 SUMMARY: WATERWAY R

PART 1102 C11.2 NON-STRUCTURAL GABIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.2.3.4	PVC-coated gabion mattresses	m3	200		

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0106	C1.6 CLEARING AND GRUBBING	R		
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SUB TOTAL				R
ADD VAT (15%) - (only if a registered VAT Vendor)				R
TOTAL CARRIED TO FORM OF TENDER				R