

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1200	SECTION 1200 GENERAL REQUIREMENTS AND PROVISIONS				
B12.01	Contractor's Obligations in respect of Training	Prov sum	1,0	80 000,00	80 000
B12.02	Excavation for the exposing of, or searching of services				
	(a) 0m up to 2m				
	(i) Soft material	m ³	10,0		
	(b) Extra over subitem B12.02 (a)(i) for excavation in hard material	m ³	2,0		
B12.03	Obtaining of Airport Access Permits	PC Sum	1,0	50 000,00	50 000
B12.04	Security Guard				
	(a) Provision of security guards	Prov sum		50 000,00	50 000
	(b) Contractors charge in respect of item B12.04(a) above	%	50000,0		0,00
B12.05	Specialist Subcontractors				
	(a) Subcontracting specialist contractors	Prov sum		50 000,00	50 000
	(b) Contractors charge in respect of attendance on subcontractors	%	50000,0		0,00

CONTRACT No : GRJ7501/2024/RFP

TENDER FOR A CONTRACTOR TO SUPPLY AND INSTALL BOLLARDS, FENCING AND BOOM FACILITIES
FOR THE LANDSIDE PARKING PROJECT AT GEORGE AIRPORT, AIRPORTS COMPANY SOUTH AFRICA
SCHEDULE A: ROADWORKS



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>TOTAL CARRIED FORWARD TO SUMMARY</i>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1300	SECTION 1300 CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
13,01	The contractor's general obligations:				
	(a) Fixed obligations	L/Sum	1		
	(b) Value-related obligations	L/Sum	1		
	(c) Time-related obligations	Month	6		
	(d) E. O. for working on Sundays and other special non-working days	day	30		
	(e) E. O. for working at night	day	8		
	(f) Environmental obligations	Month	6		
	(g) Monthly Reporting	Month	6		
	NOTE: The combined total tendered for sub-item (a), (b) and (c) shall not exceed 15% of the tender sum (excluding the contingent sum, CPA, VAT).				
B13.02	Contractors Security and Insurance Obligations:				
B13.02.01	Security (Provision of Performance Guarantee)	PC sum		50 000,00	50 000
B13.02.02	Insurance (Blanket Policy)	PC sum		15 000,00	15 000
B13.03	Preparation and submission of Record drawings, manuals and operating instructions	Sum	1		
B13.04	Contract sign boards	No.	1		
13/D10.01	Implementation of Construction Environmental Management Plan	month	6		
13/F10.01	Implementation of the CIDB B.U.I.L.D programme (to a maximum of 0.25% of contract amount)	month	6		
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1400	SECTION 1400 HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL				
14,01	Office and laboratory accommodation: 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 and boardroom with chairs and tables	m ²	40,0		
	(e) Ablution units	No.	4,0		
14,03	(c) Items measured by area: (viii) Notice boards as specified	m ²	2,0		
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1500	SECTION 1500 ACCOMMODATION OF TRAFFIC				
15,01	Accommodating traffic and maintaining temporary deviations				
	(b) Single carriageway	km	1		
15,03	Temporary traffic-control facilities:				
	(a) Flagmen	man-day	60		
	(b) Portable STOP and GO-RY signs	No.	2		
	(d) Amber flicker lights	No.	2		
	(e) Road signs, R- and TR-series, (1200mm diameter)	No.	2		
	(f) Road signs, TW-series, (1500mm diameter)	No.	3		
	(g) Road signs, STW-, DTG-, TGS-, and TG-series (excluding delineators and barricades)	m ²	4		
	(j) Traffic cones (750mm high)	No.	30		
B15.03	(n) Provision of other traffic control measures				
	(i) Other traffic control measures	Prov Sum	1	10 000,00	10 000
	(ii) Handling cost and profit in respect of subitem B15.03(n)(i)	%	10 000		
B15.14	Safety Barriers				
	(a) HDPE Plastic mobile road safety barrier, New Jersey type (2m x 1m) with reflective tape	No.	5		
	(b) Placing, moving and final removal of HDPE NJ barriers upon completion of the works	sum	1		
B15.16	Traffic Safety officer	month	8		
B15.17	Penalty to be deducted for non-compliance with requirements for accommodation of traffic				
	(a) Fixed penalty per occurrence	No.		-5 000,00	
	(b) Time-related penalty	hour		-500,00	
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1700	SECTION 1700 CLEARING AND GRUBBING				
B17.01	Clearing and grubbing (a) On and next to shoulders	ha	0,6		
17,03	Re-clearing of surfaces (on the written instructions of the engineer only)	ha	0,2		
17,04	Clearing and grubbing at inlet and outlets of hydraulic structures	m ²	25,0		
17,05	Cleaning out of hydraulic structures (a) Pipes with an internal diameter up to and including 600 mm	m ³	100		
B17.07	Demolition and removal of existing structures, kerbing, walls, etc. (a) Remove from site and dispose of rubble. (b) Barrier kerb (c) Inlet and outlet Structures (d) Manhole/inlet structures (e) Concrete/rock headwall at box culvert outlet	m ³ m No No No	1 20,0 1,0 1,0 1		
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1800	SECTION 1800 DAYWORK AND HIRE OF CONSTRUCTION EQUIPMENT				
B18.01	Labour charges:				
B18.01.01	During working hours				
	(a) Unskilled labour	hour	50,0		
	(b) Semi-skilled labour	hour	20,0		
	(c) Skilled labour (Artisan)	hour	10,0		
	(d) Foreman	hour	5,0		
	(e) Surveyor	hour	5,0		
	(f) Flagman	hour	10,0		
B18.01.02	Outside working hours				
	(a) Unskilled labour	hour	50,0		
	(b) Semi-skilled labour	hour	20,0		
	(c) Skilled labour (Artisan)	hour	10,0		
	(d) Foreman	hour	5,0		
	(e) Surveyor	hour	5,0		
	(f) Flagman	hour	10,0		
B18.02	Plant:				
	(b) TLB tractor fitted with backactor and loader (i) Model 55kW power	hour	5,0		
	(c) Auger drilling	hour	5,0		
	(d) Air compressor complete with all tools, drills, jackhammers, etc (10m ³ /min)	hour	5,0		
	(f) Water truck (9000 litre)	hour	5,0		
	(j) Compactors				
	(i) Pedestrian vibrating roller (Bomag 90 or similar)	h	5,0		
B18.03	Materials				
	(a) Materials	Prov Sum	1,0	20 000,0	20 000
	(b) Percentage on net cost of materials	%	20 000,0		
B18.04	Transport				
	(a) LDV	km	50		
	TOTAL CARRIED FORWARD TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2100	SECTION 2100 DRAINS				
21,02	Clearing and shaping existing open drains	m ³	350,0		
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2200	SECTION 2200 PREFABRICATED CULVERTS				
22,01	Excavation (a) Excavating soft material situated within the following depth ranges below the surface level: (i) 0 m up to 1,5 m (b) Extra over sub item 22.01(a) for excavation in hard material, irrespective of depth	m ³ m ³	1 020,0 20,0		
22,02	Backfilling (a) Using the excavated material (b) Using imported selected material obtained from commercial sources (unlimited free-haul)	m ³ m ³	10,0 10,0		
22,03	Concrete pipe culverts: (d) (1) On class 'C' bedding (450mm diam., Spigot/Socket, Class 100D)	m	20,0		
22,17	Manholes, catchpits, precast inlet and outlet structure complete: (a) Stormwater Manholes for pipe diameters up to 600mm (c) Catchpits (double gully & kerb inlet type in-situ cast as per GM:CES detail) (e) Extra over or less than sub item 22.17(a) for variations in the depths of manholes from the standard depth designated for tendering purposes (1,65m standard depth)	No No m	2,0 2,0 5,0		
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2300	SECTION 2300 CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
23.01	Concrete kerbing				
	(a) Install pre-cast concrete kerbing				
	(i) Figure 1 kerb	m	180		
	(iii) Figure 8 (all types)	m	180		
23.09	Cast in situ concrete and formwork:				
	(c)structures excluding formwork but including surface finish:				
	(i) Class25/19 concrete	m ³	40,0		
	(ii) Class 30/19 concrete	m ³	15,0		
B23.16	Demolish and remove existing kerbing, channeling and edging off site				
	(a) Precast kerb	m	100		
	(b) Precast channel				
	(i) Single	m	100		
	(c) Precast kerb and channel	m	100		
B23.17	Reinstatement of driveways				
	(a) Grass/ gravel driveways	m ²	50		
	(b) Concrete driveways	m ²	60		
	<i>TOTAL CARRIED FORWARD TO SUMMARY</i>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3300	SECTION 3300				
	MASS EARTHWORKS				
B33.01	Cut and borrow to fill (including unlimited free-haul)				
	(a) Material in compacted layer thicknesses of 200mm and less:				
	(i) Compacted to 90% of modified AASHTO density	m ³	75		
	(ii) Compacted to 93% of modified AASHTO density	m ³	75		
	(iii) Eight roller passes compaction	m ³	75		
33,14	Extra over item B33.01 for excavating material from the pavements and fills of existing roads:				
	(a) Non-cemented material	m ³	36		
	(a) Cemented material	m ³	40		
B33/32.06	Stockpiling of material	m ³	70		
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3400	SECTION 3400 PAVEMENT LAYERS OF GRAVEL MATERIALS				
B34.04	In situ reconstruction of existing pavement layers as: (a) Gravel selected layer compacted to 93% modified AASHTO density, using: (i) Non-cemented material (150 mm layer thickness) (b) Gravel selected layer compacted to 95% modified AASHTO density, using: (i) Non-cemented material (150 mm layer thickness) (ii) Cemented material (150mm layer thickness) (g) Gravel base compacted to 98% modified AASHTO density (unstabilized gravel) using: (i) Non-cemented material (150 mm layer thickness)	m ³	70		
B34.14	Formation of stepped joint between new and existing pavements	m	310		
B34.09	Extra over items 34.01 and 34.04 for placing and compacting gravel pavement layers in restricted areas (i) Non-cemented material (ii) Cemented material	m ³	65		
		m ³	50		
	<i>TOTAL CARRIED FORWARD TO SUMMARY</i>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3500	SECTION 3500 STABILIZATION				
35,01	Extra over Item B34.04 for chemical stabilizing	m ³	70		
35,02	Chemical stabilizing agent:				
	(a) Ordinary portland cement (CEM II 32.5)	ton (t)	1		
35/38.08	Sawing or cutting asphalt or cemented pavement layers:				
	(b) Cutting asphalt	m	310		
35/38.09	Removing remaining asphalt from underlying layer	m ²	300		
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4100	SECTION 4100 PRIME COAT				
B41.01	Prime coat				
	(e) Invert bitumen emulsion	litre	100		
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4200	SECTION 4200 ASPHALT BASE AND SURFACING				
42,02	Asphalt surfacing - hand applied to roads and sidewalks (50/70 bitumen)				
	(a) Continuously graded - COLTO Type Medium				
	(i) 30mm minimum thickness	ton	1		
42,04	Tack coat of 30% stable grade emulsion (anionic/cationic)	litre	200		
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5100	SECTION 5100 PITCHING, STONWORK AND PROTECTION AGAINST EROSION				
B51.08	Extra work for landscaping	PC Sum	1,0	50 000,00	50 000
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5600	SECTION 5600 ROAD SIGNS				
56,01	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:				
	(c) Prepainted galvanized steel plate (chromadek or approved equivalent):				
	(i) Area not exceeding 2 m ²	m ²	4,0		
	(d) Prepainted galvanized steel profiles (200 mm high chromadek or approved equivalent):				
	(i) Area not exceeding 2m ²	m ²	4,0		
	(ii) Area exceeding 2 m ² but not 10m ²	m ²	4,0		
56,02	Extra over items 56.01 and using:				
	(a) Background of retro-reflective material				
	(i) Class I	m ²	4,0		
	(b) Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material:				
	(iii) Class IV (Micro-Prismatic)	m ²	4,0		
56,03	Road sign supports (overhead road sign structures excluded):				
	(a) Galvanized steel				
	(i) 75mm D-Section 2mm wall thickness	m	4,0		
	(ii) 100mm D-Section 4mm wall thickness	m	4,0		
56,05	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m ³	3,5		
56,06	Extra over item 56.05 for cement-treated soil backfill	m ³	3,5		
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5700	SECTION 5700 ROAD MARKINGS				
57,02	Retro-reflective road marking paint: (a) White lines (broken or unbroken): (i) 100 mm wide (b) Yellow lines (broken and Unbroken) (d) White lettering and symbols (e) Yellow lettering and symbols (F) Red lines (broken and Unbroken)	km	3,2		
		km	2,2		
		m ²	200,0		
		m ²	315,0		
		km	3,2		
57,11	Referencing of road markings	km	2,0		
57,06	Setting out and premarking the lines (excluding traffic-island markings, lettering and symbols)	km	5,0		
	<i>TOTAL CARRIED FORWARD TO SUMMARY</i>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8100	SECTION 8100 TESTING MATERIAL				
81,01	Other special test requested by engineer				
	(a) Cost of test	PC sum	1	20 000,00	20 000
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART C 8500/C01	EMPLOYMENT OF LOCAL LABOUR AS EPWP BENEFICIARIES PPE (a) PPE branding for EPWP	PC Sum	1,0		40 000,00
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART D	BOLLARDS INSTALLATION				
8500/D01	Removal of existing bollards, including transporting and disposal, and finishing to same standard as surrounding surface area: (a) Removal of existing wood bollards (Ground) (b) Removal of existing galvanised bollards (paved or surfaced areas)	No	500,0		
8500/D02	Supply and intall bollards complete to drawings including excavation, concrete foundation etc. (a) Standard Round Concrete Bollard Finish: Smooth with reflective band Length 1200mm,Diameter 260 - 340mm, Reinforcing 4 x Y10, 30MPa Concrete (b) Removable Round 150 Convex Top Bollard Size : 150mm (OD)/138mm band (Band 20mm high) x 1200mm (HIGH) inclusive of keyed alike corrosion resistant Padlocks. Finish: Mild Steel - Galvanised or Powder Coat Finish with reflective band Installation Method: Planted with removable mountings Specs planted :900mm above ground / 300mm below ground (c) Standard 150 Dome Top Bollard Size : 150mm OD x 2,5mm wall x 1200mm high Finish: 304 Gr Stainless-Steel (Brushed Finish) Installation Method: Planted including 4 pins Specs planted :900mm above ground / 300mm below ground (d) High Impact Bollard Size: 220mm OD, 4,5mm wall, 8mm inner plate x 1500m open ended Finish: 304 Gr Stainless-Steel (Brushed Finish) Installation Method: Planted including 4 pins and Concrete filled.	No	1 610,0		
8500/D03	Water mains (i) The removal, protection and replacement of dia up to 300mm water main as instructed by the Engineer	m	150,0		
	TOTAL CARRIED FORWARD TO SUMMARY				R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART E	OCCUPATION HEALTH AND SAFETY AND EMP				
C11.01	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	L/Sum	1		
C11.02	Contractor's time related in respect of the Occupational Health and Safety Act and Construction Regulations	month	6		
C11.03	Provision of full time Construction Safety Officer	month	6		
C11.04	Submission of the Health and Safety File	L/Sum	1		
	<i>TOTAL CARRIED FORWARD TO SUMMARY</i>				R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART F	FENCING & GATES				
8500/F01	<p>Fencing</p> <p>Supply and erect new Clear View type fencing material as detailed:</p> <p>Supply and erect new panelled fencing material: 1.8m High PVC coated panels with 76mm x 12mm openings, "Clear View" type fencing, including panels, posts, clamps, foundations, toppings and 600mm under dig. All required components to be included.</p>	m	550,0		
8500/F02	<p>New gates</p> <p>Supply and install double leaf swing gate (2 x 3m wide x 1.8 high), manufactured from panelled fencing materials (PVC coated panels with 76mm x 12mm openings, "Clear View" type fencing) complete, to match fencing material described in Item F01. All required components to be included.</p> <p>Supply and install double leaf swing gate (2 x 4m wide x 1.8m high), manufactured from panelled fencing materials (PVC coated panels with 76mm x 12mm openings, "Clear View" type fencing) complete, to match fencing material described in Item F01. All required components to be included.</p> <p>Supply and install sliding gate (6m wide x 1.8m high), manufactured from panelled fencing materials (PVC coated panels with 76mm x 12mm openings, "Clear View" type fencing) complete, to match fencing material described in Item F01. All required components to be included.</p>	No	3		
		No	1		
		No	1		
8500/F03	Supply and install Prefabricated Security Guard Hut (1,2m x 2,4m x 2.4m high), manufactured from Pre-painted Aluminium Zinc Coated Sheeting, with 2 glass windows (600mm x 900mm), lockable door with toughened window (400mm x 600mm), Aluminium Zinc Coated sheet framed floor with shutter board and 3mm rubber studded flooring, Alububble 4mm roof insulation, including 150mm, mesh ref. 245 reinforced concrete slab. All required components to be included.	Lump Sum	1,0		
8500/F04	Installation of Manual Booms (Swing Type) complete as per drawings including foundations	No	14		

CONTRACT No : GRJ7501/2024/RFP
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FOR THE LANDSIDE PARKING PROJECT AT GEORGE AIRPORT, AIRPORTS COMPANY SOUTH AFRICA
SCHEDULE B: MISCELLANEOUS



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<i>TOTAL CARRIED FORWARD TO SUMMARY</i>				R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART AA	PRELIMINARY AND GENERAL (ELECTRICAL)				
8500/AA1	CONTRACTORS FIXED CHARGES				
AA1.1	Contractual Requirements	Item	1,0		
AA1.2	Transport & logistics to site	Item	1,0		
AA1.3	Compliance with the Occupational Health and Safety Act Regulations	Item	1,0		
AA1.4	Compliance with the Environmental Management Plan	Item	1,0		
AA1.5	Testing and commissioning	Sum	1,0		
AA1.6	Operating and maintenance manual (two copies)	Sum	1,0		
AA1.7	AS built information in GIS format	Item	1,0		
8500/AA2	CONTRACTORS TIME RELATED ITEMS				
AA2.1	Contractual Requirements	Sum	1,0		
AA2.2	Operation/maintenance of facilities/site	Sum	1,0		
AA2.3	Project Management & Works Supervision	Sum	1,0		
AA2.4	Company and Head Office overhead costs	Sum	1,0		
TOTAL CARRIED FORWARD TO SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART BB	ELECTRICAL-LOW VOLTAGE NETWORK				
8500/BB1	ESSENTAIL DB IN TERMINAL SUBSTATION				
BB1.1	3CR12 powder coated (Red), Essential AC distribution Board with 400 Amp busbars floor standing with bottom entry and spare space as depicted on the drawings	No	1		
BB1.2	200A Incoming 3 phase isolator	each	1		
BB1.3	125A 3 phase circuit breaker 10kA to Server room	each	1		
BB1.4a	80A 3 phase circuit breaker 10kA to UPS1	each	1		
BB1.4b	80A 3 phase circuit breaker 10kA for future UPS2	each	1		
BB1.5a	Disconnect existing DB (white) fixed to side of existing Essential DB & reconnect 50mm ² Cu 4 core supply cable from genset to new Essential DB	each	1		
BB1.5b	50mm ² 4 core SWA PVC cable from existing Essential DB to new Essential DB	m			Rate Only
BB1.6	Termination of existing cable 50mm ² /4c Cu at new Essential DB	each	1		
BB1.7	16 mm ² BCEC (for 25 mm ² 4 core Cu cable circuits) to existing station earth bar	m	10		
BB1.8	Termination of BCEC	each	2		
BB1.9	25mm ² 4 core SWA PVC cable from new Essential DB to UPS1	m	15		
BB1.10	Termination of 25mm ² 4 core SWA PVC cable at Essentail DB and UPS1	each	2		
BB1.11	Labeling of DB and all incoming & outgoing LV cables and feeders according to specification to indicate size, type, source, etc.	m	4		
8500/BB2	UPS AC DB IN TERMINAL SUBSTATION				
BB2.1	3CR12 powder coated (White), UPS Distribution Board with 200A busbars, floor standing with top entry and spare space as depicted on the drawings	each	1,0		
TOTAL CARRIED FORWARD					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<i>TOTAL BROUGHT FORWARD</i>					R
BB2.2	100A Incoming 3 phase isolator	each	2,0		
BB2.3	40A 3 pole Circuit breaker to Kiosk 1A	each	1,0		
BB2.4	CT connected digital multimeter, complete with fuses, connected to busbar, similar or equal to Levato DMG700 type	each	1,0		
BB2.5	25mm ² 4 core SWA PVC cable from UPS1 to UPS DB	m	2,0		
BB2.6	Termination of 25mm ² 4 core, SWA PVC cable at UPS DB & UPS1	each	2,0		
BB2.7	16mm ² BCEC to existing station earth bar	each	10,0		
BB2.8	Termination of BCEC	each	2,0		
BB2.9	Hot dipped galvanised 50mm wide cable tray, fitted against inner wall from cable trench to top entry of the UPS1 DB for 25mm ² 4 core SWA PVC cable mounting	m	5,0		
BB2.10	25mm ² 4 core SWA PVC cable from UPS AC DB to Kiosk 1A	m	170		
BB2.11	Termination of 25mm ² 4 core SWA PVC cable at UPS AC DB and Kiosk 1A	each	2		
BB2.12	16 mm ² BCEC (for 25 mm ² 4 core Cu cable circuits) to existing station earth bar	each	170		
BB2.13	Termination of BCEC	each	1		
BB2.14	25mm ² 4 core, SWA PVC cable from UPS AC DB to Kiosk 2A	m	115		
BB2.15	Termination of 25mm ² 4 core, SWA PVC cable from UPS AC DB to Kiosk 2A	each	2		
BB2.16	16 mm ² BCEC (for 25 mm ² 4 core Cu cable circuits) to existing station earth bar	each	115		
BB2.17	Termination of BCEC	each	1		
BB2.18	Labeling of DB and all incoming & outgoing LV cables and feeders according to specification to indicate size, type, source, etc.	sum	7		
<i>TOTAL CARRIED FORWARD</i>					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<i>TOTAL BROUGHT FORWARD</i>					R
BB2.19	4mm ² 2 core SWA PVC cable from UPS AC DB to existing cable to Auto Pay 1 and Auto Pay 2 stations	m	20		
BB2.20	Joints for 4mm ² 4mm ² 2 core, SWA PVCcable	each	2		
BB2.21	Termination of 4mm ² 4mm ² 2 core, SWA PVC cable	each	2		
BB2.22	4mm ² BCEC for 4mm ² 2 core, SWA PVC cable	m	20		
BB2.23	Termination of BCEC	each	2		
8500/BB3	DISTRIBUTION KIOSKS				
	Supply and installation of Polyethylene DD kiosks wired with isolators, cable busbars, busbar covers, 6kA curve 1 circuit breakers (All equipment labeled):				
BB3.1	Kiosk 1A - 9-way (Paystation)	each	1		
BB3.1.1	60A 3 pole Isolator	each	1		
BB3.1.2	40A 3 pole Circuit breaker feeder to Kiosk 1B	each	1		
BB3.1.3	20A single pole Circuit breaker - Paystation Feeder	each	1		
BB3.1.4	20A single pole Circuit breaker – Boom Feeder 1	each	1		
BB3.1.5	20A single pole Circuit breaker – Boom Feeder 2	each	1		
BB3.1.6	20A single pole Circuit breaker – CCTV Feeder	each	1		
BB3.1.7	20A single pole Circuit breaker for Data Switch socket outlet	each	1		
BB3.1.8	Switch socket outlet - Blue - Data	each	1		
BB3.1.9	Disconnection off existing services and reconnecting to kiosk, including cable and terminations	each	4		
BB3.1.10	25 mm ² 4 core Cu cable from Kiosk 1A to Kiosk 1B	m	120		
BB3.1.11	Termination of 25 mm ² 4 core Cu cable from Kiosk 1A to Kiosk 1B	each	2		
<i>TOTAL CARRIED FORWARD</i>					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<i>TOTAL BROUGHT FORWARD</i>					R
BB3.1.12	16 mm ² BCEC (for 25 mm ² 4 core Cu cable circuits)	m	120		
BB3.1.13	Termination of BCEC	each	2		
BB3.1.14	2.5 mm ² 2 core + earth Cu cable to Switch socket outlet	m	1		
BB3.1.15	Labeling of Kiosk and all incoming & outgoing LV cables and feeders according to specification to indicate size, type, erf, source & load, etc.	each	8		
BB3.2	Kiosk 1B - 9-way (Parking exit)	each	1		
BB3.2.1	60A 3 pole Isolator	each	1		
BB3.2.2	40A 3 pole Circuit breaker feeder to Kiosk 2B	each	1		
BB3.2.3	40A single pole Circuit breaker - Kiosk 1C Feeder	each	1		
BB3.2.4	20A single pole Circuit breaker - Exit boom station Feeder 1	each	1		
BB3.2.5	20A single pole Circuit breaker - Exit boom station Feeder 2	each	1		
BB3.2.6	20A single pole Circuit breaker – CCTV Feeder	each	1		
BB3.2.7	20A single pole Circuit breaker - Switch socket outlet	each	1		
BB3.2.8	Switch socket outlet - Blue - Data side	each	1		
BB3.2.9	Disconnection off existing services and reconnecting to kiosk, including cable and terminations	each	3		
BB3.2.10	25 mm ² 4 core Cu cable from Kiosk 1B to Kiosk 2B	m	110		
BB3.2.11	Termination of 25 mm ² 4 core Cu cable from Kiosk 1B to Kiosk 2B	each	2		
BB3.2.12	16 mm ² BCEC (for 25 mm ² 4 core Cu cable circuits)	m	110		
BB3.2.13	Termination of BCEC	each	2		
<i>TOTAL CARRIED FORWARD</i>					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<i>TOTAL BROUGHT FORWARD</i>					R
BB3.2.14	16 mm ² 2 core Cu cable from Kiosk 1B to Kiosk 1C	m	150		
BB3.2.15	Termination of 16 mm ² 2 core Cu cable from Kiosk 1B to Kiosk 1C	each	2		
BB3.2.16	10 mm ² BCEC (for 16 mm ² 2 core Cu connection circuits)	m	150		
BB3.2.17	Termination of BCEC	each	1		
BB3.2.18	2.5 mm ² 2 core + earth Cu cable to existing equipment	m	30		
BB3.2.19	2.5 mm ² 2 core + earth Cu cable to Switch socket outlet	m	1		
BB3.2.20	Labeling of Kiosk and all incoming & outgoing LV cables and feeders according to specification to indicate size, type, erf, source & load, etc.	each	9		
BB3.3	Kiosk 1C - 9-way (GA entry)	each	1		
BB3.3.1	60A Single pole Isolator	each	1		
BB3.3.2	20A single pole Circuit breaker 1 - Boom station equipment	each	1		
BB3.3.3	20A single pole Circuit breaker 2 - Boom station equipment	each	1		
BB3.3.4	20A single pole Circuit breaker - CCTV camera supply Box 1	each	1		
BB3.3.5	20A single pole Circuit breaker - Switch socket outlet	each	1		
BB3.3.6	Switch socket outlet - Blue - Data side	each	1		
BB3.3.7	CCTV Pole Box 1: 400(W) x 450(H) x 190(D) Polyethylene pole mounted, fitted with 1 x 30A single phase Isolator, 4 x 20 A single phase circuit breakers and day light switch	each	1		
BB3.3.8	CCTV Pole Box 2: 400(W) x 450(H) x 190(D) Polyethylene pole mounted, fitted with 1 x 30A single phase Isolator, 1 x 20 A single phase circuit breakers	each	1		
BB3.3.9	Ready board in guard house	each	1		
<i>TOTAL CARRIED FORWARD</i>					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<i>TOTAL BROUGHT FORWARD</i>					R
BB3.3.10	4 mm ² 2 core Cu cable from new Kiosk 1C to guard house	m	20		
BB3.3.11	LED strip light in guard house	each	1		
BB3.3.12	4 mm ² 2 core Cu cable from new Kiosk 1C to new CCTV Box1	m	25		
BB3.3.13	4 mm ² 2 core Cu cable from new CCTV box1 to new CCTV Box2	m	75		
BB3.3.14	2.5 mm ² 2 core + earth Cu cable to equipment and in guard house	m	35		
BB3.3.15	2.5 mm ² 2 core + earth Cu cable to Switch socket outlet	m	1		
BB3.3.16	Labeling of Kiosk and all incoming & outgoing LV cables and feeders according to specification to indicate size, type, erf, source & load, etc.	each	7		
BB3.4	Kiosk 2A - 9-way (Staff parking boom station)	each	1		
BB3.4.1	60A, 3 pole Isolator	each	1		
BB3.4.2	40A 3 pole Circuit breaker feeder to Kiosk 2B	each	1		
BB3.4.3	20A single pole Circuit breaker – Boom Feeder 1	each	1		
BB3.4.4	20A single pole Circuit breaker – Boom Feeder 2	each	1		
BB3.4.5	20A single pole Circuit breaker – Boom Feeder 3	each	1		
BB3.4.6	20A single pole Circuit breaker – CCTV Feeder	each	1		
BB3.4.7	20A single pole Circuit breaker – Data Switch socket outlet	each	1		
BB3.4.8	Switch socket outlet - Blue - Data	each	1		
BB3.4.9	Disconnection off existing services and reconnecting to kiosk, including cable and terminations	each	4		
BB3.4.10	25 mm ² 4 core Cu cable from Kiosk 2A to Kiosk 2B	m	120		
<i>TOTAL CARRIED FORWARD</i>					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<i>TOTAL BROUGHT FORWARD</i>					R
BB3.4.11	Termination of 25 mm ² 4 core Cu cable from Kiosk 2A to Kiosk 2B	each	8		
BB3.4.12	16 mm ² BCEC (for 25 mm ² 4 core Cu cable circuits)	m	120		
BB3.4.13	Termination of BCEC	each	2		
BB3.4.14	2.5 mm ² 2 core + earth Cu cable to existing equipment	m	80		
BB3.4.15	2.5 mm ² 2 core + earth Cu cable to Switch socket outlet	m	1		
BB3.4.16	Labeling of Kiosk and all incoming & outgoing LV cables and feeders according to specification to indicate size, type, erf, source & load, etc.	each	8		
BB3.5	Kiosk 2B - 9-way (Entry boom station)	each	1		
BB3.5.1	60A 3 pole Isolator	each	1		
BB3.5.2	40A 3 pole Circuit breaker feeder to Kiosk 1B	each	1		
BB3.5.3	20A single pole Circuit breaker – Boom Feeder 1	each	1		
BB3.5.4	20A single pole Circuit breaker – Boom Feeder 2	each	1		
BB3.5.5	20A single pole Circuit breaker – Boom Feeder 3	each	1		
BB3.5.6	20A single pole Circuit breaker – Boom Feeder 4	each	1		
BB3.5.7	20A single pole Circuit breaker – CCTV Feeder 1	each	1		
BB3.5.8	20A single pole Circuit breaker – CCTV Feeder 2	each	1		
BB3.5.9	20A single pole Circuit breaker – CCTV Feeder 3	each	1		
BB3.5.10	20A single pole Circuit breaker – CCTV Feeder 4	each	1		
BB3.5.11	20A single pole Circuit breaker – Automated Pay Station	each	1		
<i>TOTAL CARRIED FORWARD</i>					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<i>TOTAL BROUGHT FORWARD</i>					R
BB3.5.12	20A single pole Circuit breaker – Grass area parking Station	each	1		
BB3.5.13	20A single pole Circuit breaker – Data Switch socket outlet	each	1		
BB3.5.14	Switch socket outlet - Blue - Data	each	1		
BB3.5.15	Disconnection off existing services and reconnecting to kiosk, including 16 mm ² 2 core Cu cable and terminations	each	10		
BB3.5.16	Termination of 16 mm ² 2 core Cu cable	each	5		
BB3.5.17	Termination of 2.5 mm ² 2 core cable	each	5		
BB3.5.18	2.5 mm ² 2 core + earth Cu cable to existing equipment	m	60		
BB3.5.19	4.0 mm ² 2 core + earth Cu cable to existing equipment	m	75		
BB3.5.20	2.5 mm ² 2 core + earth Cu cable to Switch socket outlet	m	1		
BB3.5.21	Labeling of Kiosk and all incoming & outgoing LV cables and feeders according to specification to indicate size, type, erf, source & load, etc.	each	15		
BB3.6	Kiosk related				
BB3.6.1	Laminate and fit schematics inside kiosks	each	5		
8500/BB4	TRENCHING				
BB4.1	Surface removal and repair extra over Tarmac, 500 mm wide	m	20		
BB4.2	Warning tape 300mm x 0.12mm above each cable	m	650		
8500/BB5	SLEEVES				
BB5.1	110mm diameter black corrugated sleeve	m	1350		
BB5.2	110mm diameter green corrugated sleeve	m	675		
BB5.3	Excavation	m	520		
BB5.4	Parking Surface Excavation (Remove & reinstate of Tarmac)	m	155		
<i>TOTAL CARRIED FORWARD</i>					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<i>TOTAL BROUGHT FORWARD</i>					R
8500/BB6	ROAD CROSSING				
BB6.1	12m Main exist road crossing (excavation)	each	1		
BB6.2	12m Parking exist road crossing (excavation)	each	1		
BB6.3	12m Main exist intersection road crossing (drilling)	each	1		
BB6.4	6m Service road crossing (excavation)	each	1		
BB6.5	6m Rental parking road crossing (excavation)	each	1		
8500/BB7	MANHOLES				
BB7.1	Demolish & remove existing 450x450 manholes	each	1		Rate Only
BB7.2	Build 900(L)x600(W)x1200(D) manhole around existing & new sleeves with 900x600 heavy duty lockable Polymer Concrete manhole cover	each	19		
8500/BB8	GENERAL LV				
BB8.1	Complete LV testing and commissioning inter alia earth resistance, insulation tests, voltage recordings, BDE checklists, etc.	sum	6		
BB8.2	All other items deemed necessary to complete the works. (Specify):				
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART CC	UPS SYSTEM				
8500/CC1	TERMINAL SUBSTATION BUILDING				
	Supply and installation of Standby UPS system similar or equal to the PowerMan PM33-HF025R model:				
CC1.1	25KVA On-Line 3-phase UPS with internal 8A Charger Module	each	1,0		
CC1.2	Battery Cabinet with 8 x 64V50Ah LiFePo4 batteries	each	1,0		
CC1.3	Network Management card	each	1,0		
CC1.4	UPS Assembly & DC Installation Services Including Travel & Accommodation	each	1,0		
CC1.5	Delivery & Rigging of UPS & Batteries	each	1		
<i>TOTAL CARRIED FORWARD TO SUMMARY</i>					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART DD	UPS SYSTEM				
8500/DD1	SECURITY BOOM STATION Supply and installation of a Jupiter Hub boom station equipment and systems including number plate recognition and proximity sensor:				
DD1.1	Ticket dispenser	each	1		
DD1.2	Ticket acceptor	each	1		
DD1.3	Intercom both entry and exit	each	2		
DD1.4	3m high speed barrier both entry and exit	each	2		
DD1.5	Software extention to connect to existing system at the Pay Station	each	1		
DD1.6	Installation & Freight	each	1		
DD1.7	Remote override control both entry and exit	each			Rate only
DD1.8	Face rcognition camera	each			Rate only
TOTAL CARRIED FORWARD TO SUMMARY					R

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART EE	SECURITY SURVEILLANCE				
8500/EE1	SECURITY SURVEILLANCE Supply and installation of cameras:				
EE1.2	24/7 Full -colour 4 Megapixel motorised lens bullet camera with hybrid 40m IR and white LED	each	3		
8500/EE2	DATA RELATED ITEMS				
EE2.1	Single mode 12 pair fibre optic cable	m	270		
EE2.2	Cat 6 cable	m	125		
EE2.3	8 Port switch	each	1		
EE2.4	Fibre to Copper converter	each	1		
8500/EE3	CCTV POLES & AREA LIGHTING				
EE3.1	8m heavy duty galvanised pole for CCTV Box 2 with 1x camera	each	1		
EE3.2	10m heavy duty galvanised pole for CCTV Box 1 with 2x cameras and flood light	each	1		
EE3.3	Supply and install luminaire Type S1 96W Ledlume XP2 with 5307 optic	each	1		
TOTAL CARRIED FORWARD TO SUMMARY					R

SUMMARY OF SCHEDULE OF QUANTITIES		
SCHEDULE A: ROADWORKS		AMOUNT
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	DAYWORK AND HIRE OF CONSTRUCTION EQUIPMENT	R
2100	DRAINS	R
2200	PREFABRICATED CULVERTS	R
2300	CONCRETE KERBING	R
3300	MASS EARTHWORKS	R
3400	PAVEMENT LAYERS OF GRAVEL MATERIALS	R
3500	STABILIZATION	R
4100	PRIME COAT	R
4200	ASPHALT BASE ANS SURFACING	R
5100	PITCHING, STONEMWORK AND PROTECTION AGAINTS EROSION	R
5600	ROAD SIGNS	R
5700	ROAD MARKINGS	R
8100	TESTING MATERIALS AND WORKMANSHIP	R
TOTAL SCHEDULE A		R
SCHEDULE B: MISCELLANEOUS		
PART C	EMPLOYMENT OF LOCAL LABOUR AS EPWP BENEFICIARIES	R
PART D	BOLLARDS	R
PART E	OCCUPATION HEALTH AND SAFETY	R
PART F	FENCING & GATES	R
TOTAL SCHEDULE B		R
SCHEDULE C: ELECTRICAL AND ELECTRONICS		
PART AA	PRELIMINARY AND GENERAL (ELECTRICAL)	R
PART BB	LOW VOLTAGE NETWORK	R
PART CC	TERMINAL SUBSTATION BUILDING (UPS from PowerMan)	R
PART DD	SECURITY BOOM STATION	R
PART EE	SECURITY SURVEILLANCE	R
TOTAL SCHEDULE C		R
CALCULATION OF TENDER SUM		
TOTAL SCHEDULE A		R
TOTAL SCHEDULE B		R
TOTAL SCHEDULE C		R
SUB-TOTAL D (A+B+C)		R
10% CONTINGENCIES		R
SUB-TOTAL E		R
15% VAT		R
TOTAL TENDER SUM		R