SCHEDULE A: SECTION 1 A									
ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)		
1 A	SANS 1200 A		SECTION: PRELIMINARY AND GENERAL						
1.1	8.3		FIXED-CHARGE ITEMS						
1.1.1	8.3.1		Contractual Requirements	Sum	1				
	8.3.2		Establish Facilities on the Site :						
			a) Facilities for Engineer (SANS 1200 AB)						
1.1.2			1 No. Furnished office. Minimal 1 desk with drawers, printer table, 3 chairs, filing cabinet and drawing rack.	Sum	1				
1.1.3			2 No. Carports	Sum	1				
1.1.4			2 No. Contract name boards (HxW 3200 x 2500 mm)	Sum	1				
1.1.5			1 No. Printer/Scanner/Copier, A4 colour	Sum	1				
			b) Facilities for Contractor						
1.1.7			Offices and storage sheds	Sum	1				
1.1.8			Workshops	Sum	1				
1.1.9			Laboratories	Sum	1				
1.1.10			Living accommodation	Sum	1				
1.1.11			Ablution and latrine facilities	Sum	1				
1.1.12			Tools and equipment	Sum	1				
1.1.13			Water supplies, electric power and communications	Sum	1				
1.1.14			Dealing with water (Subclause 5.5)	Sum	1				
1.1.15			Access (Subclause 5.8)	Sum	1				
1.1.16	8.3.3		Other fixed-charge obligations	Sum	1				
1.1.17	8.3.4		Remove Engineer's and Contractor's Site establishment on completion	Sum	1				
1.2	8.4		TIME-RELATED ITEMS						
1.2.1	8.4.1		Contractual Requirements	Month	5				
	8.4.2		Operate and maintain facilities on the Site:						
	8.4.2.1		a) Facilities for Engineer for duration of construction (SANS 1200 AB)						
1.2.2			1 No. Furnished office, including stationary	Month	5				
1.2.3			2 No. Carports	Month	5				
Total Car	ried Forward		1	1					
1		1					1		

CONSTRUCTION COMPLETION CONTRACT FOR DIEPSLOOT PUPLIC ENVIRONMENT UPGRADE - PHASE 2

Contract No. JDA/17/19.3.2.B.7020PH-2

ITEM NO	E A: SECTION PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought F	orward						
1.2.4			2 No. Contract name boards	Month	5		
	8.4.2.2		b) Facilities for Contractor for duration of construction, except where otherwise stated				
1.2.7			Offices and storage sheds	Month	5		
1.2.8			Workshops	Month	5		
1.2.9			Laboratories	Month	5		
1.2.10			Living accommodation	Month	5		
1.2.11			Ablution and latrine facilities	Month	5		
1.2.12			Tools and equipment	Month	5		
1.2.13			Water supplies, electric power and communications	Month	5		
1.2.14			Dealing with water (Subclause 5.5)	Month	5		
1.2.15			Access (Subclause 5.8)	Month	5		
	8.4.3		Supervision				
1.2.16			a) Contract / Project manager (minimum of 1 person)	Month	5		
1.2.17			b) Site agent (minimum 1 person) for the whole of the works	Month	5		
1.2.18	PSA 8.4.3		c) Foreman (minimum 2 persons) specifically to monitor EME or QSE sub- contractors	Month	5		
1.2.19			d) Other supervisory staff required by the contractor	Month	5		
1.2.20	8.4.4		Company and head office overhead costs for the duration of the contract (Including EME or QSE Contractor(s) related, e.g. payment of EME or QSE Contractor(s))	Month	5		
1.2.21	PSA 8.4.5		Other time-related obligations	Month	5		
1.2.22	PSA 8.4.6		Provision of surveyor and survey equipment required for the survey of the works and construction setting out in accordance with the specifications. Including survey works requested by Employers Agent for coordinating existing services on site.	Month	5		
Total Carr	ied Forward						

	E A: SECTION		DECORPTION	1 1	071/			44401111
NO NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE		AMOUNT (RAND)
Brought F	orward							
1.2.23	PSA 8.4.7		Obtaining and maintaining in good standing, of wayleaves for the duration of the contract.	Month	5			
1.3			OTHER GENERAL					
	PSA 8.4.8		Community Liaison Officer					
1.3.1			a) Payment of Community Liaison Officer	Prov.S	1	R80 500,00	R	80 500,00
1.3.2			b) Communication for Community Liaison Officer	Prov.S	1	R10 500,00	R	10 500,00
1.3.3			c) Overheads, charges and profit on item above	%	91000			
	PSA 8.4.9		Training obligation					
1.3.4			a) Training allowance paid for targeted labour and EME or QSE Contractors in terms of formal training	Prov.S	1	R350 000,00	R	350 000,00
1.3.5			b) Overheads, charges and profit on item above	%	350000			
	PSA 8.4.10		EME or QSE Construction Mentor					
1.3.6			a) Payment of EME or QSE Construction Mentor	Sum	1	R350 000,00	R	350 000,00
			WORKS RESERVED FOR EME or QSE'S DEVELOPMENT MANHOLES, KERBING, PAVING, KEBING, ROADMARKINGS, STREET FURNITURE					
1.3.9	PSA 8.4.11		Assisting Local Emerging Contractors	Prov.S	1	R150 000,00	R	150 000,00
1.3.10			(a) Contractor's handling costs and other charges		150000			
1.3.11			STORMWATER DRAINAGE, SITE CLEARANCE AND EXCAVATION (Total amout from SCHEDULE SECTION 4)	Prov.S	1			
1.3.12	PSA 8.4.12		Payment for preliminary and general charges by appointed EME or QSE's, fixed and time-related.	%				
1.3.13			Contractor's handling costs and other charges in respect to Development of EME or QSE's item 1200 LE	%				
1.3.14			SEGMENTED PAVING (Total amout from SCHEDULE SECTION 8)	Prov.S	1			
1.3.15	PSA 8.4.12		Payment for preliminary and general charges by appointed EME or QSE's, fixed and time-related.	%				
1.3.16			Contractor's handling costs and other charges in respect to Development of EME or QSE's item 1200 MJ	%				
1.3.17			KERBING AND CHANNELLING (Total amout from SCHEDULE SECTION 9)	Prov.S	1			
1.3.18	PSA 8.4.12		Payment for preliminary and general charges by appointed EME or QSE's, fixed and time-related.	%				
1.3.19			Contractor's handling costs and other charges in respect to Development of EME or QSE's item 1200 MK	%				
Total Car	ried Forward		1	1		<u> </u>		
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	E A: SECTION		DECORIDATION		OTV	DATE.		ANAOLINIT
ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE		AMOUNT (RAND)
Brought F	orward							
1.3.20			ROAD MARKING AND SIGNS (Total amout from SCHEDULE SECTION 10)	Prov.S	1			
1.3.21	PSA 8.4.12		Payment for preliminary and general charges by appointed EME or QSE's, fixed and time-related.	%				
1.3.22			Contractor's handling costs and other charges in respect to Development of EME or QSE's item 1200MM	%				
1.3.23			STREET FURNITURE, (Total amout from SCHEDULE SECTION 4)	Prov.S	1			
1.3.24	PSA 8.4.12		Payment for preliminary and general charges by appointed EME or QSE's, fixed and time-related.	%				
1.3.25			Contractor's handling costs and other chargesin respect to Development of EME or QSE's item 1200MM	%				
1.3.26			Quality Control and Assurance	Prov.S	1	R700 000,00	R	700 000,00
1.3.27			Contractor's handling costs and other charges	%	700000			
1.3.10	PSA 8.4.13		Contractor's handling costs and other charges	%	700000			
1.3.11			a) Compile Environmental Management Plan and attain approval. (Item is only payable where the Contractors Plan is approved)	Sum	1			
1.3.12			b) Implement approved Environmental Management Plan, only payable if Contractors scores above 90% score per month and no serious offences exists	Sum	1			
1.3.13			Contractor's General Obligations in respect t Ensuring Compliance with the Environmental Plan					
1.3.14			(a) Fixed obligation	Sum	1	R500 000,00	R	500 000,00
1.3.15			(b) Time-related obligations	Month	5			
	PSA 8.4.14		Health and Safety Obligations					
1.3.16			a) Compile Health and Safety Plan and attain approval based on the specifications provided	Sum	1			
1.3.17			b) Appoint Health and Safety Personnel, including Officer and Representatives, only payable if Contractors scores above 90% score per month and no serious offences occurred.	Sum	1			
1.3.18			c) Implement approved Health and Safety Plan	Sum	1			
Total Car	l ried Forward		1	<u> </u>		<u> </u>		
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ITEM	E A: SECTION PAYMENT	N 1 A	DESCRIPTION	UNIT	QTY	RATE		AMOUNT
NO	FATWENT	LIC	DESCRIPTION	OIVIT	QII	IXIL		(RAND
Brought F								
1.4	8.7		DAYWORK					
1.4.1			Labour	Prov.S	1	R50 000,00	R	50 000,00
1.4.2			Percentage adjustment to items for labour	%	50000			
1.4.3			Materials	Prov.S	1	R50 000,00	R	50 000,00
1.4.4			Percentage adjustment to items for materials	%	50000			
1.4.5			Plant	Prov.S	1	R75 000,00	R	75 000,00
1.4.6			Percentage adjustment to items for plant	%	75000			
1.5	8.8		TEMPORARY WORKS					
1.5.1	8.8.1		Maintain accesses to properties	Sum	1			
	PSA 8.8.2		Dealing with traffic and maintain road (or accommodation of traffic)					
1.5.2			a) All temporary road traffic signs, markings and access control. As well as all flag-persons required to safely guide the public (vehicles as well as pedestrians around the works.	Sum	1			
1.5.3			b) Temporary hoarding for fencing of the works, including gates. Minimum 1.8m in height, covered in shading cloth or similar. Including placing the hoarding around the active portions of the works and moving the hoarding to follow the works for the duration of the works.	Sum	1			
1.5.4			c) Provision of qualified traffic controllers operational during morning and evening peak times. At times where intersections and or crossing roads are closed during the morning and evening peak times.	Sum	1			
1.5.5	8.8.3		Protect existing structures until construction in vicinity complete. Existing structures being all buildings (walls and foundations) where new pavement is constructed against the building edge, approx. 2000 meters in length.	Sum	1			
	PSA 8.8.4		Existing services:					
1.5.7			a) Conduct ground penetrating radar and CAT detection of existing underground services within the road reserve of the project streets as well as 20m up and down streets crossing with the project street. A full report need to be provided to the Engineer of the services found, including a survey in CAD format indicating position and depth of services (x,y,z-coords).	Sum	1			
1.5.8		LI	c) Excavate by hand in soft material to expose existing services	m³	50			
1.5.9	8.8.5		Cost of Survey in Terms of Land Survey Act (See 5.1.2) for record drawings no later than 5 days of issue of Practical Completion Certificate and for quantification of final payment certificate.	Sum	1			
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rotal Carl	ried Forward T	o Summa	ıy					

NO 18 SANS 1200 A 1.6 8.5 SUMS STATED PROVISIONALLY BY ENGINEER For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract a) Relocation of existing services (raising/lowering of manholes/valve characteristic receiving under meletre-referricing polesere), including attaining Prov. S 1 R400 000,00 R 4001 1.6.1 a) Provincians, charges and profit on item above for work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract a) Relocation of traffic lights (nowing existing polesicables/operating boxes, as well as replacing traffic light headily or installation of rear traffic lights 1.6.4 b) Overheads, charges and profit on item above For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract 1.6.5 a) Provincian for landscaping and street furniture additional to items described discerting in the bill of quantities. 1.6.5 b) Overheads, charges and profit on item above a) Provincian for landscaping and street furniture additional to items described discerting in the bill of quantities. 1.6.7 a) Provincian for landscaping and street furniture additional to items described discerting in the bill of quantities. 1.6.8 b) Overheads, charges and profit on item above a) Provincian for landscaping and street furniture additional to items described discerting in the bill of quantities. 1.6.8 c) Overheads, charges and profit on item above b) Overheads, charges and profit on item above For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract a) Design and construction for new electricity installation b) Overheads, charges and profit on item above For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract a) Design and construction for new electricity installation b) Overheads, charges and profit on item above For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract b) Overhe		E A: SECTION							
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For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract a) Relocation of existing services (raising-lowering of manifolies/valve others/bess/etc., indicating water electricital poles/etc.), including attaining values in terms of Clause 8.1.2.1 d) of conditions of contract b) Overheads, charges and profit on item above For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract a) Relocation of traffic lights (moving existing poles/tables/operating boxes, as value as replacing traffic light heads) or installation of new traffic lights 18.4 b) Overheads, charges and profit on item above For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract a) Provision for landscapping and street furniture additional to items described electricity in the libid of quantities. 18.5 c) Overheads, charges and profit on item above a) Provision for landscapping and street furniture additional to items described electricity in the libid of quantities. b) Overheads, charges and profit on item above a) Provision for landscapping and street furniture additional to items described electricity in the libid of quantities. c) Overheads, charges and profit on item above a) Provision for landscapping and attract furniture additional to items described electricity in the libid of quantities. b) Overheads, charges and profit on item above a) Provision for landscapping and attract furniture additional to items described electricity in the libid of quantities. c) Overheads, charges and profit on item above a) Provision for landscapping and attraction for new electricity installation b) Overheads, charges and profit on item above b)	1.6			CLIME STATED DROVISIONALLY BY ENCINEED					
1.6.1 a) Redocation of existing services (raising/lowering of manholes/valve chambers/etc., redocating services (raising/lowering of manholes/valve chambers/etc., redocating services (raising/lowering of manholes/valve chambers/etc.). Reducing attaining weyleveres from Services Authorities. 1.6.2 b) Overheads, charges and profit on item above For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract. 1.6.3 a) Redocation of traffic lights (moving existing poles/cabbes/operating boxes, as well as replacing traffic light heads) of restallation of new traffic lights 1.6.4 b) Overheads, charges and profit on item above For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and valued in terms of Clause 8.1.2.1 d) of conditions of contract and	1.0	0.5		SUMS STATED PROVISIONALLY BY ENGINEER					
chambers etc., relocating water meters/electrical poles/etc.), including attaining vay/eaves from Service Authorities. b) Overheads, charges and profit on item above For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract 1.6.3 a) Relocation of traffic lights (moving existing poles/cables/operating boxes, as well as replacing traffic light heads) or installation of new traffic lights. b) Overheads, charges and profit on item above For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract 1.6.5 a) Provision for landscaping and street furniture additional to items described elsewhere in the bills of quantilies. b) Overheads, charges and profit on item above 7, 200000 7, 200000 8, 200000 8, 200000 8, 200000 1, 2000000 1, 2000000 1, 200000000 1, 2000000000000000000000000000000000000									
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Total Carried Forward To Summary	Total Carr	ied Forward T	o Summai	у	I		•		

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Total Carried Forward To Summary	2.3.5		LI		m	500		
	Total Carri	ed Forward To	o Summar	у				

	E A: SECTIO						
ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
3	SANS 1200 DB		SECTION : PIPE TRENCHES				
3.1			EXCAVATION				
	PSDB 8.3.2(a)		Excavate in all materials for trenches and backfill, compact, and dispose of surplus/unsuitable material within 100m from excavation, utilising labour based construction methods:				
3.1.1		LI	a) For uPVC stormwater pipes within sidewalks, including connections to building downpipes. Exceeding 0,5 m but not exceeding 1,0 m	m³	80		
3.1.2		LI	b) For fibre sleeves within sidewalks, including crossing streets. Exceeding 0,5 m but not exceeding 1,0 m	m³	100		
3.1.3		LI	c) For electrical sleeves within sidewalks, including crossing streets. Exceeding 0,5 m but not exceeding 1,0 m	m³	100		
3.1.4		Ц	d) For cable ducts at intersections, for traffic signals etc. Exceeding 0,5 m but not exceeding 1,0 m	m³	100		
	8.3.2(b)		Excavate in all materials for trenches and backfill, compact, and dispose of surplus/unsuitable material for pipes up to 750 mm diam, including excavations at kerb inlets and manholes. for total trench depth: All excavations are assumed to expose significant existing services. No additional payment will be made for intersecting and/or adjoining services within the trench excavations.				
3.1.5			Exceeding 1,0 m but not exceeding 2,5 m	m	200		
	8.3.2(b)		Extra-over for excavation items (prov):				
			Intermediate excavation (no intermediate measured, all material not classified as hard will be considered as soft material)				
3.1.6		LI	Hard rock excavation (using jackhammers only, no blasting allowed)	m³	40		
3.1.7	8.3.2(c)	LI	Excavate and dispose of unsuitable material from trench bottom (Provisional)	m³	100		
3.2			EXCAVATION. ANCILLARIES				
			Make up deficiency in backfill material (Provisional)				
3.2.1	8.3.3.1(a		from other necessary excavations on site	m³	100		
3.2.2	8.3.3.1(c		by importation from commercial or off-site sources selected by the Contractor	m³	60		
3.2.3	8.3.4(a)		Shore trenching	m	80		
Total Carr	ied Forward		<u> </u>				
L		1					

Brought Forward 3.3 Brinishings Reinstate road surfaces a) Complete with all courses except surfacing, only where trenches are crossing existing surfaced roads and no other layerworks is required. Solicrete of excavated materials with 5% cement up to 200mm below NGL. Plus 200mm BSM 2 G2 material with 3% Emulsion and 1% Cement. Temporary works: Control water inflow from excavations Provide equipment Operate and maintain Days 30	SCHEDULE A: SECTION 3							
Brough Forward 3.3 8.3.6 Refinition and increases accord, surfacing, any where treather and cooking surfaced and surfaces a) Complete with all excuses accord, surfacing, any where treather and cooking surfaced and surface of the depressors is registered. Solicetion of excessive analysis (Section of excessive analysis) and 1% Cement. 8.3.4(b) Temporary works: Control water inflow from excavations Provide equipment Sum 1 Provide equipment Sum 1 Remove equipment Sum 1 Sum 1 Sum 1 Financial and surfaces and sur		PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Sa.6 FINISHINGS	140							(IVAIND)
Sa.6 FINISHINGS								
Sa.6 FINISHINGS	Brought F	onward						
8.3.6 Reinstate road surfaces a) Complete with all courses except surfacing, only where tranches are crossing existing surfaced roads and no direct byerworks is required. Solicinet of BSM 252 material with 3% Emulsion and 1% Cement. 8.3.4(b) Temporary works: Control water inflow from excavations Provide equipment Operate and maintain Days 30 Remove equipment Sum 1 1	3.3	orwaru		FINISHINGS				
a) Complete with all courses except surfacing, only where trenches are crossing consisting surfaced roads and no other layerworks is required. Solicereto of exceptated materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin below MCIL. Plus 200mm SSM 2 02 materials with SNs Ementup to pollomin SNs Eme		0.2.6						
excavated materials with 5% cement up to 200mm below NGL Plus 200mm 8M Z G material with 5% cement up to 200mm below NGL Plus 200mm 8M Z G material with 5% cement up to 200mm 9M Z G material with 5% cement up to 200mm 9M Z G material with 5		8.3.6						
3.3.2 Provide equipment Sum 1 3.3.3 Depresse and maintain Days 30 3.3.4 Remove equipment Sum 1 1 1 1 1 1 1 1 1 1 1 1 1	3.3.1			excavated materials with 5% cement up to 200mm below NGL. Plus 200mm	m²	500		
Operate and maintain Remove equipment Sum 1		8.3.4(b)		Temporary works : Control water inflow from excavations				
Remove equipment Sum 1	3.3.2			Provide equipment	Sum	1		
	3.3.3			Operate and maintain	Days	30		
Total Carried Forward To Summary	3.3.4			Remove equipment	Sum	1		
Total Carried Forward To Summary								
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	E A: SECTIO		T. DESCRIPTION.		071/		444011117
ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
							,
4			SECTION :STORMWATER DRAINAGE SITE CLEARANCE AND				
			EXCAVATION				
4.1	SANS 1200 LE		PIPES				
			Coraba haradla and law surrosta sina subsanta an alam O baddinas				
	8.2.1		Supply, handle and lay concrete pipe culverts on class C bedding:				
			a) Type S/C 100D-load pipes with spigot and socket joints:				
			, , , ,				
4.1.1			1) 450 mm diameter	m	10		
4.1.2			2) 600 mm diameter	m	30		
			2) 700 mm diameter	m	150		
			2) FOOTHIN GRANCES		150		
4.2	8.2.8		MANHOLES				
			Construct complete with covers and frames, benching, etc., as per Engineer's				
			drawings				
		LI	a) Type 1 Manhole (at kerb inlet)				
4.2.1			1) Exceeding 1,0 m but not exceeding 2,5 m	No.	2		
		LI	b) Type 2 Manhole (rectangular box)				
4.2.2			1) Exceeding 1,0 m but not exceeding 2,5 m	No.	Rate only		
4.2.3			1) Exceeding 1,0 m but not exceeding 2,5 m	No.	Rate only		
4.2.4	PSDM	LI	Break into and connect to existing manholes including joints and make good all	No.	1		
	8.2.11		benching				
4.3			INLET STRUCTURES				
	8.2.8	LI	KERB INLETS with chamber, complete with transitions and covers, benching etc. As per Engineer's drawings				
4.3.1			a) Kerb inlet with access chamber (complete manhole structure)	No.	6		
			OUTLET STRUCTURES				
400							
4.3.2			a) Stormwter otlet strutures as per detail drawing	No.	2		
Total Car	ried Forward					•	

CONSTRUCTION OF SUPER STOP AND PARK AND RIDE FACILITIES IN TSHEPISONG: PHASE 2 Contract No. JDA TPTF/PH02

SCHEDULE A: SECTION 4							AMOUNT
ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Fo	orward						
4.4			MISCELLANEOUS				
4.4.1	8.2.11	LI	Pipes for connecting building stormwater downpipes with road stormwater system. Unplasticised PVC pipes and fittings, sewer pipes, complete with couplings, 160mm diameter.	m	100		
4.4.2	8.2.11	LI	Pipes for future fibre ducts placed along the full length of the works on both sides of the road. Polyethylene double walled corrugated pipe smooth inside (orange colour), complete with couplings, 160mm diameter.	m	Rate only		
4.4.3	8.2.11	LI	Pipes for electrical ducts placed along the full length of the works on both sides of the road. Unplasticised PVC pipes and fittings, normal duty, complete with couplings, 110mm diameter.	m	200		
4.4.4	8.2.11	LI	Pipes for service ducts and intersections. Unplasticised PVC pipes and fittings, normal duty, complete with couplings, 110mm diameter. Three pipes together in one trench.	m	200		
4.5			BRICKWORK Extra-over item for "Inlet Structures" where the standard detail size needs to be adjusted to existing situation in the ground.				
4.5.1	8.2.9(a)	LI	115 mm thick	m²	50		
4.5.2		LI	230 mm thick	m²	100		
4.5.3	8.2.9(b)	LI	Plaster (not less than 10 mm and not more than 15 mm thick)	m²	100		
4.5.4	8.2.9(c)	LI	Benching in prescribed mix 15/19 concrete with granolithic rendering	m²	50		
4.5.5		LI	In-Situ cast concrete floor slabs class 25/19	m³	10		
4.5.6			High-tensile steel bars installed in concrete slabs	t	2		
Total Carri	ed Forward T	o Summar	у	•		•	

	E A: SECTION						
ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
5	SANS 1200 DM		SECTION: EARTHWORKS (ROADS, SUBGRADE)				
5.1			TREATMENT OF ROAD-BED				
	8.3.3(a)		Road-bed preparation and compaction of in-situ material. Compact to 90 % mod. AASHTO maximum density.				
5.1.1			a) For new walkway area, including driveways and road lay-by areas.	m³	450		
5.1.2			b) For new road pavements, including raised pedestrian crossings.	m³	250		
5.2			EARTHWORKS Including all haulage and dumping fees where applicable.				
	8.3.4		Cut to fill				
5.2.1			Compact to 90 % mod. AASHTO maximum density	m³	1700		
	8.3.5		Selected layer compacted to 93 % mod. AASHTO maximum density. G7 materials commercially sourced by the Contractor, including haulage and temporary stockpiling if required.				
5.2.2			a) For new walkway area, including driveways and road lay-by areas.	m³	1800		
5.2.3			b) For new road pavements, including raised pedestrian crossings.	m³	250		
	8.3.7		Cut to spoil from soft excavations				
5.2.4			a) For new walkway area, including driveways and road lay-by areas.	m³	850		
5.2.5			b) For new road pavements, including raised pedestrian crossings.	m³	400		
	8.3.13		SURFACE FINISHES				
5.3.1			Topsoiling min depth 100 mm. Material to be imported from commercial sources.	m²	1300		
5.3.2			Grassing (Cynodon dactylon (lawn) commonly known as Couch grass)	m²	1300		
T							
Total Carr	ied Forward T	o Summar	ry				

SCHEDUL ITEM	E A: SECTION PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
NO	I ATMENT	LIO	DEGOM HON	OIVII	Q I I	IVIL	(RAND)
6	SANS 1200 ME		SECTION: (SUB)BASE				
6.1			SUBBASE				
	8.3.3		Construct gravel subbase with G5 material from commercial sources. Including all haulage and temporary stockpiling of materials where required.				
6.1.1			a) 150 mm compacted to 95% mod. AASHTO (C4 after stabilisation) for walkways, driveways and road lay-by's.	m³	1700		
6.1.2			b) 150 mm compacted to 95% mod. AASHTO (C4 after stabilisation) for roadways and raised pedestrian crossings.	m³	300		
6.1.3			c) 150 mm compacted to 97% mod. AASHTO (C3 after stabilisation) for roadways and raised pedestrian crossings.	m³	300		
6.1.4	8.3.5		Process material by means of: Stabilizing (extra-over items 6.1.1, 6.1.2 and 6.1.3)	m³	2300		
6.1.4	8.3.8		Stabilizing agent Portland cement CEM II 32.5 A/L	t	200		
6.2	SANS		CRUSHED STONE BASE				
	1200 MF 8.3.3		Construct base with material from commercial sources. Including all haulage and temporary stockpiling of materials where required.				
			d) Graded crushed (G1)				
6.2.1			150 mm to main carriageways, compacted to 88% of apparent relative density	m³	250		
6,3			PAVEMENT REPAIRS				
6.3.1			Sawing of asphalt layers for patching (50mm to 100mm)	m	1500		
6.3.2			Sawing of cemented pavement layers for patching (150mm to 200mm)	m	100		
			Excavation in existing pavements for patching in: (including disposal of materials)				
6.3.3			a) Asphalt layers	m³	150		
6.3.4			b) Cemented layers	m³	50		
6.3.5			Backfilling of excavations for patching with: a) Chemically stabilised pavement material (C4) for a patch with surface area not exceeding 5m2.	m³	200		
			Crack sealing: a) Cleaning the cracks with compressed air	m	300		
			b) Applying hot bitumen rubber for sealing cracks.	I	50		
Total Carr	ied Forward T	o Summar	у				

	E A: SECTION		DESCRIPTION	LINIT	OTV	DATE	AMOUNT
ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
7	SANS 1200 MH		SECTION : ASPHALT BASE AND SURFACING				
7.1			PRIME COAT				
	8.5.1		Prime coat using:				
7.1.1			a) Base material (BSM 2 G2 material with 3% Emulsion and 1% Cement) for a patch with surface area not exceeding 5m2.	m²	2112		
7.1.2			a) 30mm continuous Asphalt: Bitumen treated base (BTB) with a maximum aggregate size of 26.5mm	m²	2112		
			Surveys and Soil Tests:				
			Note: Scheduled tests are minimum expected tests as per SANS1200. This does not relieve the contractor of all necessary quality control obligations (including accurate setting out of works). The contractor must always conduct all necessary test to satify themselves that all works have been done to specifications. Such tests to be available to the Engineer on request.				
			COMPACTION TESTS; Compaction density tests on compacted surfaces, including CBR, UCS, PI and GM, by certified testing laboratory to be identified by the contractor.	No.	325		
			Provisional Sums: Additional soil tests or survey checks to be carried out as directed by the Engineer:				
			COMPACTION TESTS; Compaction density tests on compacted surfaces, in	item	1		
			Overheads, charges and profit on above.	%			
			Verification surveys as requested by the Engineer to be done by independent	item	1		
			Overheads, charges and profit on above.	%			
Total Carr	ied Forward T	o Summai	у				

	JCTION COM No. JDA/17/19		CONTRACT FOR DIEPSLOOT PUPLIC ENVIRONMENT UPGRADE - PHASE 2			Contract	No. JDA KSPTF/PI
SCHEDUL ITEM	E A: SECTIO		DESCRIPTION	UNIT	QTY	RATE	AMOUN
NO							(RAND
	SANS 1200 MJ		SECTION: SEGMENTED PAVING				
.1	8.2.1	LI	PROVISION OF EDGE RESTRAINTS				
.1.1			a) Concrete edge beam 150 x 150 mm, in-situ cast concrete class 25/19. At edge of sidewalks against building line and between walkway paving and driveway paving.	m	2500		
1.2			b) Concrete edge beam 200 x 150 mm, insitu cast concrete class 25/19. At edge of driveways against building line.	m	300		
2	8.2.2	LI	CONSTRUCTION OF PRECAST CONCRETE SEGMENTED PAVING				
		8.2.2	Construction of Paving complete				
0.4			Inclusive of 20 mm layer bedding sand imported from commercial sources, with				
.2.1			a) Main Pedestrian Zone 1: Clay Paver Class PA, 220 x 110 mm, 50mm thick [Colour: RED] paving blocks laid to stretcher bond pattern in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, on 20mm compacted s	m²	6180		
.2.2			b) Main Pedestrian Zone (accents): Clay Paver Class PA 220 x 110 mm, 50mm thick [Colour: Yellow] paving blocks laid to stretcher bond pattern in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, on 20mm compacted sand bed.	m²	2450		
2.3			c) Main Pedestrian Zone - Walkway edge: 600mm x 300mm x 60mm "Jap Concrete Slab" 25MPa (to architects approval) [Colour: Natural grey]. Laid flat on 30mm concrete bedding (haunching) Concrete class 15/19.	m²	960		
2.4			d) Main Pedestrian Zone - Walkway Band: "Standard concrete cobble 110 x 110 mm" 50mm thick [Colour: Charcoal] paving blocks laid to block pattern in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, on 20mm compacted sand bed.	m²	390		
.2.5			e) Road lay-by paving: Concrete interlocking paving blocks Class S-A 221.2 x 110.8 mm, 80mm thick textured edge [Colour:Charcoal] paving blocks laid to herringbone pattern in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, on 20mm compacted sand bed.	m²	180		
2.6			g) Driveway paving: Concrete interlocking paving blocks Class S-A 221.2 x 110.8 mm, 80mm thick smooth edge [Colour:Charcoal] paving blocks laid to herringbone pattern in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, on 20mm compacted sand bed.	m²	1700		
.2.7			h) Warning tactile blocks - 400 x 400 x 65 mm (SANS 784, 2007), in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, on 20mm compacted sand bed.	m²	160		
.2.8			i) Guidance tactile blocks - 400 x 400 x 65 mm (SANS 784, 2007), in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, on 25mm compacted sand bed.	m²	150		
3			PEDESTRIAN RAMPS Extra-over precast concrete segmented paving items for lowering pavement and				
2 1		PSMJ	ADDITIONAL SUPPLY OF PRECAST CONCRETE SEGMENTED PAVING	m²	222		
3.1			a) Clay Paver Class PA 220 x 110 mm, 50mm thick [Colour: RED].	m²	200		
3.2			b) Clay Paver Class PA 220 x 110 mm, 50mm thick [Colour: Yellow].	m²	110		
3.3			c) 600mm x 300mm x 60mm "Jap Concrete Slab	m²	20		
3.4			d) Standard concrete cobble 110 x 110 mm, 50mm thick [Colour: Charcoal].	m²	40		
3.5			e) Concrete interlocking paving blocks Class S-A 221.2 x 110.8 mm, 80mm thick textured edge [Charcoal]	m²	20		
3.6			f) Concrete interlocking paving blocks Class S-A 221.2 x 110.8 mm, 80mm thick smooth edge [Colour: Charcoal]	m²	10		
3.7			g) Warning tactile blocks - 400 x 400 x 65 mm (SANS 784, 2007).	m²	20		
3.8			h) Guidance tactile blocks - 400 x 400 x 65 mm (SANS 784, 2007).	m²	20		
3.10		8.2.3	Extra for circular cutting not exceeding 2m radius.	m	992		

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	Contrac	C NO. JUA KSI	11/1110
Total Carried Forward			

ITEM NO	E A: SECTION PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Fo	orward						
8.3.11			h) Warning tactile blocks - 400 x 400 x 65 mm (SANS 784, 2007), in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, on 20mm compacted sand bed.	m²	250		
8.2.12			i) Guidance tactile blocks - 400 x 400 x 65 mm (SANS 784, 2007), in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, on 25mm compacted sand bed.	m²	250		
8.4	PSMJ 8.2.3	LI	PEDESTRIAN RAMPS				
8.4.1			Extra-over precast concrete segmented paving items for lowering pavement and skew sides for the construction of pedestrian scoops. Refer to Engineer's drawings	m²	600		
8.5	PSMJ 8.2.4		ADDITIONAL SUPPLY OF PRECAST CONCRETE SEGMENTED PAVING FOR ATTIC STOCK TO JRA DEPOT				
8.5.1			a) Clay Paver Class PA 220 x 110 mm, 50mm thick [Colour: RED].	m²	600		
8.5.2			b) Clay Paver Class PA 220 x 110 mm, 50mm thick [Colour: Yellow].	m²	50		
8.5.3			c) Clay Paver Class PA 220 x 110 mm, 50mm thick [Colour: Nutmeg].	m²	20		
8.5.4			d) Standard concrete cobble 110 x 110 mm, 50mm thick [Colour: Charcoal].	m²	50		
8.5.5			e) Concrete interlocking paving blocks Class S-A 221.2 x 110.8 mm, 80mm thick textured edge [Colour: Multi-Blend]	m²	270		
Total Carr	ied Forward T	o Summai	у			I	

CONSTRUCTION COMPLETION CONTRACT FOR DIEPSLOOT PUPLIC ENVIRONMENT UPGRADE - PHASE 2

Total Carried Forward To Summary

Contract No. JDA/17/19.3.2.B.7020PH-2 SCHEDULE A: SECTION 8 ITEM PAYMENT DESCRIPTION UNIT QTY RATE AMOUNT (RAND) Brought Forward f) Concrete interlocking paving blocks Class S-A 221.2 x 110.8 mm, 80mm thick smooth edge [Colour: Charcoal] 8.5.6 m² 100 g) Concrete interlocking paving blocks Class S-A 221.2 x 110.8 mm, 80mm thick smooth edge [Colour: Multi-Blend] 8.5.7 m² 100 8.5.8 h) Warning tactile blocks - 400 x 400 x 65 mm (SANS 784, 2007). m² 70 8.5.9 i) Guidance tactile blocks - 400 x 400 x 65 mm (SANS 784, 2007). 70 m²

SCHEDULE A: SECTION 9 ITEM PAYMENT DESCRIPTION UNIT RATE AMOUNT QTY (RAND) SECTION: KERBING AND CHANNELLING SANS 1200MK CONCRETE KERBING AND CHANNELLING 9.1 a) Pre-cast concrete kerbing (SANS 927) on sand-cement bedding with 8.2.2 adequate haunching as per drawings. All radii and straights, in curved sections units max. 300mm long. SANS KERBS 1200MK Laid straight. 8.2.1 104 m 8.2.1 LI Laid circular on plan not exceeding 10m radius. 136 m 11 Laid flat. 8.2.1 105 m 300 x 125 x 90 mm Half-battered moutable concrete kerb (SABS 927 8.2.1 11 Laid straight. m 3420 Laid circular on plan not exceeding 10m radius. 8.2.1 11 m 136 100 x 250mm Rectangular concrete kerb (SABS 927 Fig. 10) jointed and Laid straight. 8.2.1 3000 m 300 x 200 x 100 mm Mountable concrete kerb (SABS 927 Fig. 8c) jointed and pointed in 5:1 cement mortar and bedded in 15mpa concrete including all necessary excavation, stabilised backfilling, carting away, continuous concrete haunching on curves, concrete haunching at joints on straights, etc.: Laid straight. 8.2.1 3420 m 11 Laid circular on plan not exceeding 10m radius 8.2.1 136 m Mountable kerb to barrier kerb transitions as detailed in drawing (See 58 m 8.2.1 Civil and Structural Drawings) and to meet JRA standards for typical kerb 11 transitions JRA-SDRD-020 SUNDRIES 25Mpa/19mm Concrete for gapfilling between the laid kerbs, finished m 135 smooth with a steel trowel on all exposed surfaces to a uniform dense finish with closed cell expanded polyethylene filler and polyurethane 8.2.1 sealant expansion joints at 10m centres and saw cut construction joints and sealant at 2m centres including all necessary excavation, backfilling, formwork, dowels, etc. 30Mpa/19mm Concrete edge beam size 300 x 200mm deep finished m 83 smooth on all exposed surfaces to a uniform dense finish with one top corner having a 25 x 25mm chamfer with and including closed cell 8.2.1 expanded polyethylene filler and polyurethane sealant expansion joints LI at 6m centres and saw cut construction joints and sealant at 2m centres including all necessary excavation, backfilling, cutting into paving, formwork, dowels, etc. SANS CONCRETE 1200GB 25Mpa/19mm Concrete edging along existing buildings size 150 x m³ 77 150mm deep finished smooth on all exposed surfaces to a uniform dense finish with one top corner having a 10 x 10mm chamfer with closed cell expanded polyethylene filler and polyurethane sealant 8.1.1a expansion joints at 6m centres, saw cut construction joints and sealant at 2m centres and 10mm softboard expansion joint along full length including all necessary formwork, excavation, backfilling, cutting into paving, etc. 25Mpa/19mm Concrete in triangular shaped ramps to transition area of ${\rm m}^{\rm 3}$ 24 footpaths, including all necessary formwork, reinforcement, cutting 8.1.1b into paving, finishing top surfaces to an evenly ribbed non-slip finish, Total Carried Forward

	E A: SECTION						
NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Fo	orward						
	SANS 1200MM		ANCILLARY ROADWORKS				
	8.3.4		30Mpa/19mm Concrete in surrounds to existing posts, manholes, etc. size overall $300 \times 300 \times 150$ mm thick including all necessary formwork, movement joints, cutting into paving, finishing top surfaces to a smooth finish, steel ruled joints all round top, casting around existing posts, manholes, etc.	no	20		
	8.3.4		30Mpa/19mm Concrete in surrounds to existing posts, manholes, etc. size overall 400 x 400 x 200mm thick including all necessary formwork, movement joints, cutting into paving, finishing top surfaces to a smooth finish, steel ruled joints all round top, casting around existing posts, manholes, etc.	no	18		
	8.3.4		30Mpa/19mm Concrete in surrounds to existing posts, manholes, etc. size overall $450 \times 450 \times 250$ mm thick including all necessary formwork, movement joints, cutting into paving, finishing top surfaces to a smooth finish, steel ruled joints all round top, casting around existing posts, manholes, etc.	no	15		
	8.3.4		30Mpa/19mm Concrete in surrounds to existing posts, manholes, etc. size overall 1000 x 1000 x 80mm thick including all necessary formwork, movement joints, cutting into paving, finishing top surfaces to a smooth finish, steel ruled joints all round top, casting around existing posts, manholes, etc.	no	12		
	8.2.1		300mm High x 83mm wide "W" shaped hot dip galvanised steel				
	8.2.1		Installed straight.	m	80		
	8.2.1		Installed circular on plan	m	0		
	8.2.1		End units - end wing.	no	4		
	8.2.5		Chromadek reflector type D1.	no	18		
Total Carri	l ied Forward T	o Summai	ry			I	

ITEM NO	PAYMENT		DESCRIPTION	UNIT	QTY	RATE	AMO (P./
NO		LIC					(RA
	SANS 1200 MM		SECTION: ANCILLARY ROADWORKS				
		SANS 1200M M	ROAD MARKINGS AND SIGNS				
	8.4.1		Prepare and paint one coat approved white, red or yellow 1.25mm thick thermoplastic, reflective road marking paint with Class 1 reflective beads within the paint on asphalt surface as per "The Southern African Development Community - Road Traffic Signs Manual (SARTSM), June 1999 Edition, Volumes 1 to 4" all in accordance with SABS 1091-1975:				
	8.4.1		300mm Wide broken or continuous lines. Code: RTM1.	m	65		
	8.4.1		100mm Wide broken or continuous lines. Code: RM1.	m	1200		
	8.4.1		150mm Wide broken or continuous lines. Code: RM1.	m	150		
	8.4.1		Kerb marking. Code: GM8	m	520		
	8.4.1		Yield line marking sign. Code: RTM2.	no	2		
	8.4.1		2400mm High letters. Code: GM7.	no	13		
	8.4.1		2400mm High symbol. Code: WM5	no	2		
	8.4.1		Statutory direction arrows 4000mm long. Codes: WM7.1, WM7.2,	no	2		
	8.3.6		ROAD SIGNS				
	8.3.6		Class 1 retro-reflective road sign complying with the requirements of				
	8.3.6		600mm Diameter 'STOP' sign. Code: R1.	no	24		
	8.3.6		'YIELD' sign. Code: R2.	no	2		
	8.3.6		600mm Diameter 'NO PARKING' sign. Code: R216.	no	5		
	8.3.6		600mm Diameter 'NO STOPPING' sign. Code: R217.	no	5		
	8.3.6		450 x 100mm 'STREET NAME' sign as per JRA specifications. Code: GL1.	no	24		
	8.3.6		600mm Diameter 'HAWKERS PROHIBITED' sign on two sides of pole. Code: R241	no	15		
	8.3.6		SPEED HUMPS' sign. Code: W332.	no	7		
	8.3.6		Take up and remove to stockpiles existing signage post approximately	no	45		
tal Carr	I ied Forward T	o Summai	Ty			1	

NO 111 11.1		SECTION: STREET FURNITURE SUPPLEMENTARY PREAMBLES LANDSCAPING SPECIFICATIONS: RE FOLLOWING IN STREET FURNITURE Galvanaised Steel Bollards (Refer				(RAND
		SUPPLEMENTARY PREAMBLES LANDSCAPING SPECIFICATIONS: RE FOLLOWING IN STREET FURNITURE				
		SUPPLEMENTARY PREAMBLES LANDSCAPING SPECIFICATIONS: RE FOLLOWING IN STREET FURNITURE				
		SUPPLEMENTARY PREAMBLES LANDSCAPING SPECIFICATIONS: RE FOLLOWING IN STREET FURNITURE				
11.1		LANDSCAPING SPECIFICATIONS: RE				
11.1		FOLLOWING IN STREET FURNITURE				
			_			
		Galvanaised Steel Bollards (Refer	<u> </u>			
			to Architects drawing):			
		Galvanised Steel Bins (Refer to Arc	hitect's Drawing):			
			S, BUS SHELTERS, SEATS AND TABLES			
		(REFER TO ARCHITECTS DRAWING	<u>5)</u>			
		The following items have been pre				
		Standard System of Measuring as	Published by the Association of			
		South African Quantity Surveyors				
		BRICK PLANTER BOX One brick walls(6 x courses above p	naving level)			
			ace Brick	m²	550	
		·	e Brick Standard -FBS	•••	550	
			ve strength: 17-30 MPa			
11.1.1		7.	er absorption: 6-9%			
		Type and colour:	Country Classic Satin			
		Size: 222x	109x73mm.			
		Foundation brick (7 x courses belo	w paving level)			
		Clay Non Face Brick		m²	650	
11.1.2		Classification: Non Facing Extra - N				
		Average Compressive Strength: 14	MPa			
		Size: 222x106x73mm.				
		Coping				
				m²	59	
		Precast purpose made concrete co	ping slab with 4mm diameter	111	39	
		crimped galvanised wire wall to be	set into slab by manufacturer. Each			
		to be set at 232mm c/c. Number re	quired of crimp wire per slab: 3.			
11.1.3		All edges to be rounded				
		Compressive strength: 25MPa				
		Size: 600 x 300 x 60 mm				
		Colour: GREY				
		<u>Brickforce</u>				
		Brickioice				
		Brickforce, 2.8mm diameter min		m²	22	
		Yield Strength = 485 mpa				
		Lap length = 400mm min.				
11.1.4		Brickforce to be placed in the first				
		five layers of brickwork on footings				
		Thereafter to be placed in every 3				
		courses layer for all brickwalls above	e ground level			
		Cementitious Waterproofing				
		Cementitious waterproofing consis	ting of an osmotic cementitious	m²	560	
		mortar which complies with a 28 da	_		300	
		or greater. Maximum aggregate siz	·			
11.1.5		concrete must be 2MPa or greater	=			
		Apply two coats at an average tota	·			
		Consumption: 1.5Kg/m² per mm of				
		Colour: Grey				
		<u>Concrete</u>				
11.1.6		30/19 Concrete mass bootleg footi	ng to engineer's specs and details	m ³	50	
Total Carried	-		- • • • • • • • • • • • • • • • • • • •			

CONSTRUCTION COMPLETION CONTRACT FOR DIEPSLOOT PUPLIC ENVIRONMENT UPGRADE - PHASE 2 Contract No. JDA/17/19.3.2.B.7020PH-2

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUN' (RAND
rought F	orward		1	1			
1.1.7			Grouting General purpose non-shrink formable grout. Flow of less than 60 seconds as per ASTM C939.	Kg	1500		
1.1.8			BRICK PLANTER BOX 1200 square Concrete Tree Grid Overall dimensions: 1200 x 1200 x 60mm with a minimum diameter of 420mm at centre of tree grid and consists of 4 sectional pieces each at 600x600mm. Finish: Exposed concrete aggregates. Type 1 - Planter edge restraints as per VJ paver specifications	No	19		
1.1.9			Precast concrete paving slab Compressive strength: 25MPa Size: 600 x 300 x 60 mm Colour: GREY	m²	50		
1.1.10			Type 2 - Planter edge restraints as per VJ paver specifications Precast concrete paving slab	m²	50		
1.1.11			Perforated fixed bin as per architect's details and specifications	No	55		
1.1.12			20/19 Concrete mass to be filled into steel legs	m ³	20		
1.1.13			25/19 Concrete mass base footing	m ³	20		
1.1.14			BOLLARD 127mm diameter x 2.5mm thick x 1400 mm long Galvanised steel bollard with 3 x Galvanised steel rings with rounded edges welded to bollard	No	188		
1.1.15			Luminescent anti-slip tapes , 48mm width	m	15		
1.1.16			20/19 Concrete mass to be filled into bollards	m³	10		
1.1.17			Bollards concrete base footing (25/19)	m ³	10		
			LANDSCAPING				
			Tree type				
1.1.19			Combretum Erythrophyllum: River Bushwillow(100 litres size tree)	No.	56		
			Tree hole				
1.1.20			Dig tree hole 1x1x1m ³	m ³	37		
			Ground cover type				
1.1.21			Dietes bicolor (1 Ltr @ 8 /planter) Yellow Wild Iris (1 litre)	No.	448		
			Import and spead topsoil				
1.1.22			Loamy soil with pH of 6.8 to 7.2, with an ideal composition of 15 - 20% clay 10% silt / sludge 65 - 75% sand Minimum ration of organic material 2% All material shall be free of harmful deposits and unwanted seeds	m ³	30		
			Soil is to be spread in planting areas and lightly compacted in layers of 150mm				
			Application rate: 0.45m³ or 450 dm³ per tree hole planter				

	E A: SECTIO					_	
ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Fo	orward		T	1		1	
			Import and spread compost				
			Compost with pH of 4 to 7, shall be composed of properly decayed	m³	30		
			organic material All material shall be free of harmful deposits, salts, unwanted seeds and				
11.1.23			any other harmful waste				
			Compost application rate: 0.45m³ or 450 dm³ per tree hole planter				
			Bonemeal Fertilizer				
			Fertilizer as per specifications below, to be mixed thoroughly into	Kg	50		
			topsoil. No fertilizer to be added to soil more than two weeks before				
11.1.24			planting.				
			Application rate:				
			Bonemeal in tree holes - 0.8kg / tree hole				
			Super Phosphate				
			Fertilizer as per specifications below, to be mixed thoroughly into	Kg	84		
			topsoil. No fertilizer to be added to soil more than two weeks before				
11.1.25			planting.				
			Application rate:				
			Super Phosphate in tree holes - 1.5kg / tree hole				
			<u>Vermiculite</u>				
			Application rate: Vermiculite to be applied at 15% / m3 of topsoil per planting hole	m ³	10		
11.1.26			0.0675 m ³ or 67.5 dm ³				
			Import and spread mulch				
			Apply mulch in areas of planting. Mulch shall be composed of organic	m ³	10		
			material such as wood chips, free from particles of bark residue, fungus				
11.1.27			disease etc.				
			Mulch application rate: 50mm layer after planting				
			50 dm³ per planter				
 			Drainage Pipe				
11.1.28			110mm diam. and 1000 length perforated pipe Gravels	m	56		
11.1.29			19mm aggregate to be filled in into 110mm diameter drain pipe	m³	20		
			Tree timber stake				
11.1.30			Timber tree stake to be a minimum 50mm in diameter x 3 metres long Post maintenance for Landscaping	No.	112		
11.1.31			Allow for maintaining landscaping, This includes watering, weeding,	month	6		
Total Carri	ied Forward					1	
10tal Call	icu i uiwaiu						

ITEM NO	E A: SECTION PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
							()
12	SANS		SECTION: STRUCTURAL STEELWORK				
12	1200H						
12.1	8.3.1		Supply and Fabrication				
12.1.1	8.3.1.1		Preparation of shop detailed drawings	Sum	1		
12.1.2	PSH 8.3.1.2		Supply and fabrication of steelwork complete with all the necessary cleats, brackets, gussets, packs, etc as follows: including coating for a Bus Shelter	m²	250		
	PSH 8.3.1.2		Members				
			Rafter				
12.1.3	PSH 8.3.1.2		IPE 200 rafter cut to shape	t	4		
			Base plates				
12.1.4	PSH 8.3.1.2		250mmx250mmx12mm thick base plate	t	4		
			Purlins				
12.1.5	PSH 8.3.1.2		75x50x20x2.0mm C-Channel Purlin	t	5		
			Other Members				
12.1.6	PSH 8.3.1.2		Cap Plate welded to top of column	t	2		
12.1.7	PSH 8.3.1.2		102mm dia m/steel chs back support to be welded or bolted to columns	t	3		
12.1.8	PSH 8.3.1.2		3 x 60mm dia m/steel chs for seat to be welded to shaped steel plate	t	3		
12.1.9	PSH 8.3.1.2		203 x 203 m/steel H-column welded to base plate and bolted to r.c footing	t	20		
12.1.10	PSH 8.3.1.2		8mm thick shaped m/steel seat side supports, bolted to steel columns	t	3		
12.1.11	PSH 8.3.1.2		B100 mentis grating 'gripweld' or similar with 25x4.5mm bearer bars, fixed to 50x50mm steel shs surround frame	m²	80		
12.1.12	PSH 8.3.1.2		75 x 100 rectangular downpipe at both ends, colour to match roof sheeting	m	40		
12.1.13	PSH 8.3.1.2		8mm thick shaped m/steel side supports, bolted to steel columns	t	3		
12.1.14	PSH 8.3.1.2		50 x 50mm steel shs surround frame	t	3		
12.1.15	PSH 8.3.1.2		0,58mm Galvanized Z200 valley gutter, colour to match roof sheeting on 203 x 203 m/steel H-column to be used as roof support / gutter	t	3		
Total Carri	ed Forward						

Contract No. JDA KSPTF/PHQ1

CONSTRUCTION COMPLETION CONTRACT FOR DIEPSLOOT PUPLIC ENVIRONMENT UPGRADE - PHASE 2 Contract No. JDA/17/19.3.2.B.7020PH-2

ITEM NO	E A: SECTION PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)	
Brought Fo	orward							
12.1.16	PSH 8.3.1.2		203 x 203 m/steel H-column to be used as roof support / gutter	t	3			
12.2	8.3.2		Delivery					
12.2.1	8.3.2.1		Normal loads	t	56			
12.3	8.3.3		Erection on site	t	56			
12.4	8.3.6		Holding-down bolts					
12.4.1	8.3.6 (a)		M12 grade 8.8 threaded HD bolts complete with washers and nuts.	t	3			
Total Carried Forward To Summary								

Contract No. JDA KSPTF/PHQ1

CONSTRUCTION COMPLETION CONTRACT FOR DIEPSLOOT PUPLIC ENVIRONMENT UPGRADE - PHASE 2 Contract No. JDA/17/19.3.2.B.7020PH-2

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)	
13	SANS 1200HB		SECTION : CLADDING AND SHEETING					
13.1	8.2.2		Supply and Fabrication Roof cladding supply, deliver to site, erect 0.58mm @ 5Deg. Roof Slope. Chromadek finish: Dark Dolphin as per Engineer's drawings.					
13.1.1			Corrugated roof sheeting 0,58mm @ 5 deg Roof slope Chromadek finish: Dark Dolphin	m²	200			
Total Carri	Total Carried Forward To Summary							

	E A: SECTION	V 14 LIC	DECORPORTION	Luxuz	OTV	D: TE	AA40: 11:
ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
14	SANS		SECTION : CONCRETE (SMALL WORKS)				
	1200GA						
14.1	8.2		Scheduled formwork items				
14.1.1	8.2.1 (a)		Rough, 1200mm x 300mm deep strip foundation	m²	10		
14.1.2	8.2.1 (b)		Rough, 800mm x 250mm deep strip foundation	m²	5		
14.2	8.3		Scheduled reinforcement items				
14.2.1	8.3.1 (a)		High tensile steel (Diameter 12mm)	t	2		
14.2.2	8.3.1 (b)		Mild steel (Diameter 8mm)	t	1		
14.3	8.4		Scheduled concrete items				
14.3.1	8.4.2		15 MPa, 50mm thick blinding layer	m³	20		
14.3.2	8.4.3		Strength Concrete, Grade 25/19 in strip footings				
14.3.3	8.4.3 (a)		1200mm x 300mm deep strip footing	m³	100		
14.3.4	8.4.3 (b)		800mm x 250mm strip footing	m³	50		
14.3.5	8.4.3 (c)		For transition ramps and reinstatement of existing concrete surfaces complete		00		
14.5.5	0.4.5 (0)		To transmorrantps and reinstatement of existing concrete surfaces complete				
14.3.6			Strength Concrete, 19mm/15Mpa	m³	30		
14.3.7	8.4.4		Unformed Surface Finishes				
14.3.8	8.4.4 (a)		Wood-floated finish	m²	50		
14.3.9	8.4.4 (b)		Steel-floated finish	m²	50		
14.4	8.7		Grouting				
14.4.1	8.7 (a)		Non shrink cementitious grout under structrural steel members base plate	m ³	5		
	(=)		grand		-		
Total Car	ried Forward T	o Summar	у	ı		<u> </u>	

ITEM NO	E A: SECTION PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
15			JB MARKS BRIDGE (CULVERT STRUCTURE)				
			GENERAL SITEWORKS				
			SUPPLEMENTARY PREAMBLE				
			Carting away of excavated material				
			Descriptions of carting away of excavated material shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.				
15.1	SANS 1200C		SITE CLEARANCE, ETC.				
			Site clearance:				
15.1.1	8.2.1		Allow for digging up and removing all rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 100mm girth measured 1m above ground level, etc. including carting away all material to a dumping site to be located by the contractor.	m²	140		
15.1.2	8.2.10		Remove topsoil to nominal depth of 150 mm and stockpile	m²	140		
15.2	SANS 1200A		SUMS STATED PROVISSIONAL BY THE ENGINEER				
	8.5.1		For work to be executed by the Employer or a nominated subcontractor				
15.2.1	8.5a.1		Allow for removal of rubish,rubble, etc stockpiled along the river bank and rehabilitate the surface. This includes carting away all material to a dumping site to be located by the contractor, and making good the river bank to original shape, as per Engineer's instructions	Item	1		
15.2.2	8.5b.2		Overheads, charges and profit on (a) above.	Sum	1		
15.2.3	8.5c.3		Specified activities associated with or independent of (a) or (b) above.	Sum	1		
			TEMPORARY WORKS				
15.2.4	8.8.2		Dealing with or accommodation of traffic.	Sum	1		
15.2.5	8.8.3		The contractor is to provide all temporary works which he deems necessary to complete the project and he must protect all existing structures in the vicinity of the works.	Sum	1		
15.2.6	8.8.4a		Supply or hire of specialist equipment for the detection of all services.	Sum	1		
15.2.7	8.8.4b		Use of the equipment referred to in item (a) above.	Sum	1		
15.2.8	8.8.4d		Temporary protection of services.	Sum	1		
15.2.9	8.8.5.b.2		Cost of survey in terms of the land surveying act	Sum	1		
15.2.10	8,9		Compliance with the health and safety plan.	Sum	1		
15.2.11	8.9.4		Workman's Compensation Act.	Sum	1		
Total Carri	ed Forward T	o Summar	y			<u> </u>	

ITEM NO	PAYMENT	LIC DESCRIPTION	UNIT	QTY	RATE	AMOUN (RANI
Brought F	orward		1	1		
		Precast concrete portal culverts				
		Excavation:				
		(a) Excavating soft material situated within the following depth ranges below the surface level:				
15.2.12		(i) 0m up to 1.5m	m³	724		
15.2.13		(ii) Exceeding 1,5m and up to 3,0m	m³	48		
15.2.14		(b) Extra over subitem (a) for excavation in hard material irrespective or depth	f m³	10		
		Backfilling:				
		(a) Using imported selected material				
15.2.15		i) G2 Material To Be Compacted in 100mm Layers to 98% Mod AASHTO	m³	145		
15.2.16		ii) G5 Material To Be Compacted in 100mm Layers to 95% Mod AASHTC	m³	116		
15.2.17		iii) G7 Material To Be Compacted in 150mm Layers to 95% Mod AASHTO) m³	648		
15.2.18		(b) Extra over subitems(c) for soil cement backfilling (5% cement)	m³	50		
15.2.19		(c) Using dump rock	m³	837		
15.2.20		(d) 19mm Stones	m³	53		
15.2.21		e) Riversand	m³	140		
15.2.22		Precast Concrete Barrier	m	60		
		Compaction of in-situ surfaces:				
15.2.23	8.3.3a	Rip and recompact ground surface, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% modified AASHTO density and trim to required levels.	m²	560		
15.2.24	SANS 1200ME	SUB-BASE COURSE				
13.2.24	8.3.3	Selected imported G5 (commercial sources) (C4 after stabilisation)natural gravel in 150mm layers and spread, level, water and compact to 95% modified AASHTO density	m³	700		
	SANS 1200MF	BASE COURSE				
15.2.25	8.3.3	Selected imported C4 (commercial sources) (C4 after stabilisation) natural gravel in 150mm layers and spread, level, water and compact to 97% modified AASHTO density.	m ³	700		
	SANS 1200MH	BITUMEN TREATED BASE				
15.2.26	8.5.4	40mm Continuous Graded Asphalt	ton	0		

ITEM NO	PAYMENT	LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUN (RANI
Brought F	orward						
	SANS 1200ME		STABILISATION				
15.2.27	8.3.5d		Process base/sub-base course by stabilisation (cement elsewhere).	m³	70		
15.2.28	8.3.8		Stabilising with ordinary portland cement at the rate of 3% by mass	ton	43		
			Soil Tests:				
			Note: Prices for soil tests must be included in the contractor's rates for earthworks items.				
			Additional soil tests to be carried out as directed by the Engineer:				
15.2.28			Modified AASHTO density tests.	item	1		
			Supply, bed and lay precast concrete portal culverts:				
15.2.29			3000 x 3000mm High Class 75S culvert laid inverted with and including 1220mm wide x 140mm thick precast reinforced concrete cover slab with recessed edges.	No.	75		
			Cast in situ concrete				
15.2.30			(i) Class 15/19 concrete blinding	m³	53		
15.2.31	SANSA		(ii) Class 30/19 concrete for deck slab	m³	121		
	1200 DK		Gabions and Pitching				
15.2.32	8.2.1		Foundation trench excavation and backfilling with G4 or similar material.	m³	2160		
15.2.33	8.2.1		Prepare surface for bedding the gabions	m²	3600		
15.2.34	8.2.2		Gabions and Reno matress				
15.2.35			a) Supply and place 2000x1000x1000mm gabion boxes for gabion wall, 2.7/3.7mm, type 80 PVC coated Galfan wire mesh including lacing of wire mesh and assembling of rocks	m³	1437		
15.2.36			Extra-over 8.2.2 a) for packing selected stone for exposure face	m²	375		
15.2.37			b) Supply and place 2000x1000x300mm reno matress boxes for river bed protection, 2.7/3.7mm, type 60 PVC coated Galfan wire mesh or similar approved including lacing of wire mesh and assembling o fthe rocks	m³	1160		
	8.2.4		Geotextile (or geomembrane) or similar				
15.2.38			Supply and place nonwoven needlepunched and thermocalendered polypropylene geotextile with a CBR of 2.6 kN , puncture resistance of 17 mm. Permeability of 54 l/sqm.s and apparent opening size of 70 micron. Thickness at 2 kPa of 1.0mm.	m²	3600		
	8.2.5		Stone Pitching				
15.2.39			Supply and construct 150mm thick grouded pitching with 1:3 motar to fill gaps between the rocks, rock size between 150x200mm.	m²	60		

ITEM NO	PAYMENT LIC	DESCRIPTION	UNIT	QTY	RATE	AMOUN (RAND
Brought F	orward					
	8.2.7	Weep holes				
5.2.40		Drill, punture 110mm weep hole at a distance of 20m centre to centre (See architects drawings)	no	20		
5.2.41	8.2.1	Laid straight.	m	100		
		300 x 125 x 90 mm Half-battered moutable concrete kerb (SABS 927 Fig. 14) (This kerb act as gutter to convey water speedily to the nearest kerb inlet, jointed and pointed in 5:1 cement mortar and bedded in 15mpa concrete including all necessary excavation, backfilling, carting away, continuous concrete haunching on curves, concrete haunching at joints on straights, etc.:				
5.2.42	8.2.1	Laid straight.	m	100		
		100 x 250mm Rectangular concrete kerb (SABS 927 Fig. 10) jointed and pointed in 5:1 cement mortar and bedded in 15mpa concrete including all necessary excavation, backfilling, carting away, concrete haunching, etc.				
15.2.43	8.2.1	Laid straight.	m	80		
15.2.44		300 x 200 x 100 mm Mountable concrete kerb (SABS 927 Fig. 8c) jointed and pointed in 5:1 cement mortar and bedded in 15mpa concrete including all necessary excavation, stabilised backfilling, carting away, continuous concrete haunching on curves, concrete haunching at joints on straights, etc.:				
15.2.45	8.2.1	Laid straight.	m	80		
		<u>SUNDRIES</u>				
15.2.46	8.2.1	25Mpa/19mm Concrete for gapfilling between the laid kerbs, finished smooth with a steel trowel on all exposed surfaces to a uniform dense finish with closed cell expanded polyethylene filler and polyurethane sealant expansion joints at 10m centres and saw cut construction joints and sealant at 2m centres including all necessary excavation, backfilling, formwork, dowels, etc.	m	9		
	SANS 1200MM	ANCILLARY ROADWORKS				
15.2.47	8.3.4	30Mpa/19mm Concrete in surrounds to existing posts, manholes, etc. size overall 450 x 450 x 250mm thick including all necessary formwork, movement joints, cutting into paving, finishing top surfaces to a smooth finish, steel ruled joints all round top, casting around existing posts, manholes, etc.	no	8		
15.2.48	8.2.1	300mm High x 83mm wide "W" shaped hot dip galvanised steel guardrails, or equal approved, with & including 175mm diameter x 1800mm long timber creosote treated gumpoles at 3800mm centres & planted 1000mm deep in the ground, guardrails fixed to timber gumpoles with & including 325 x 100 x 150mm thick hardwood spacer blocks & 16mm diameter high tension steel bolts with reinforcing plates, including all necessary excavations, backfilling, fixing, rivetting, spring washers, etc. installed in strict accordance with the manufacturer's instructions (As per attached JRA Drawing JRA-SD-R021):				
15.2.49	8.2.1	Installed straight.	m	80		
5.2.50	8.2.1	End units - end wing.	no	4		
5.2.51	8.2.5 SANS	Chromadek reflector type D1.	no	18		
	1200MM	ROAD MARKINGS				

15.2.52	8.4.1	Prepare and paint one coat approved white, red or yellow 1.25mm thick thermoplastic, reflective road marking paint with Class 1 reflective beads within the paint on asphalt surface as per "The			Contra	t No. JDA KSPTF/PHQ
		Southern African Development Community - Road Traffic Signs Manual (SARTSM), June 1999 Edition, Volumes 1 to 4" all in accordance with SABS 1091-1975:				
15.2.53	8.4.1	100mm Wide broken or continuous lines. Code: RM1.	m	100		
15.2.54	8.3.6	ROAD SIGNS				
15.2.55	8.3.6	Class 1 retro-reflective road sign complying with the requirements of "The Southern African Development Community - Road Traffic Signs Manual (SARTSM), June 1999 Edition, Volumes 1 to 4" all in accordance with SABS 1519, including galvanised steel support post 76mm diameter x 3mm thick x 2500mm long above finished ground level and minimum 600mm from road edge (to edge of sign) including all necessary excavation, backfilling, etc. including setting post in 25Mpa concrete base size 600mm diameter x 900mm minimum thicknes				
		Narrow Bridge sign. Code: W326	no	3		
15.2.56		Speed limit sign. Code: R201	no	3		
Total Car	ried Forward	To Summary			1	

CONSTRUCTION COMPLETION CONTRACT FOR DIEPSLOOT PUPLIC ENVIRONMENT UPGRADE - PHASE 2

Contract No. JDA/17/19.3.2.B.7020PH-2

SCHEDULE A: SUMMARY

	SUMMARY OF SECTIONS	AMOUNT
SECTION	DESCRIPTION	(RAND)
1A	PRELIMINARY AND GENERAL	,
1 B	PROVISIONAL SUMS	
2	SITE CLEARANCE	
3	PIPE TRENCHES	
4	STORMWATER DRAINAGE, SITE CLEARANCE AND EXCAVATION	included
5	EARTHWORKS (ROADS, SUBGRADE)	
6	(SUB)BASE	
7	ASPHALT BASE AND SURFACING	
8	SEGMENTED PAVING	Included
9	KERBING AND CHANNELLING	Included
10	ANCILLARY ROADWORKS	Included
11	STREET FURNITURE	Included
12	STRUCTURAL STEELWORK	
13	CLADDING AND SHEETING	
14	CONCRETE (SMALL WORKS)	
15	THE BRIDGE	
	SUBTOTAL SCHEDULE ITEMS	
	15% VAT	
	TOTAL To Be Carried to OFFER Page	