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

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS</u>				
1	C1.3.1.1 PS.C1.3.1 PS.C1.3.2	The Contractors General Obligations Fixed Obligations	sum	1		
2	C1.3.1.2 PS.C1.3.1 PS.C1.3.2	The Contractors General Obligations Value-related Obligations	sum	1		
3	C1.3.1.3 PS.C1.3.1 PS.C1.3.2	The Contractors General Obligations Time-related Obligations	months	6		
		<u>Programming and Reporting</u>				
4	C1.2.2.1 PS.1	Submission of a Scheme 1 Programme	sum	1		
5	C1.2.2.2 PS.1	Reviewing and updating a Scheme 1 Programme	months	6		
		<u>Health and Safety</u>				
6	C1.2.5.1 PS.10	Implementation of Health and Safety Plan	months	6		
		<u>Security</u>				
7	C1.4.8 PS.11	Provision of security on site to guard against any disruption of the works throughout the duration of the contract	months	6		
8	C1.2.4 PS.14	Liasing, coordinating and mentoring CPG Sub-contractors	months	6		
		<u>Stakeholder Management</u>				
9	C1.2.4 PS.13	Stakeholder Management and Liaison	months	6		
		<u>CLO</u>				
10	C1.2.4.1 PS.13	Community Liaison Officer	PC Sum	115200	1.00	115,200.00
11	C1.2.4 PS.13	Enter % of Work Package Order	%	115200		
12	C1.2.6 PS.16	Submission of As-Built Data	sum	1		

Road Upgrade of 611137 Street located off Himalaya Drive, Redcliffe, Ward 60

Part Continued PART 0102 C1.2 GENERAL REQUIREMENTS AND PROVISIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
13	PS.18	Testing and Equipment for the Engineer (Provisional)	PC Sum	25000	1.00	25,000.00
14	PS.18	Enter % of Work Package Order	%	25000		
<u>ACCOMMODATION OF TRAFFIC</u>						
15	C1.3.2 PS.C1.3.2	Contract sign boards	no.	1		
16	C1.5.7.1(b)	Delineators including mounting bases and ballast: Double sided, reversible left or right (1200mm x 250mm)	no	10		
17	PS.1.3.4	Temporary barriers for accommodation of traffic, concrete New Jersey type, Contractor's own source	m	10		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL ITEMS

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Road Upgrade of 611137 Street located off Himalaya Drive, Redcliffe, Ward 60

SECTION 2 SITE CLEARANCE**PART 0106 C1.6 CLEARING AND GRUBBING**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Clearing				
1	C1.6.1.1 PS.C.1.6.1	Clearing with machines where necessary, to spoil including haulage	m2	1137		
2	C1.6.1.2 PS.C.1.6.1	Clearing with hand labour only when labour enhanced work is specified, to spoil including haulage	m2	60		
		Grubbing				
3	C1.6.2.1 PS.C.1.6.1	Grubbing with machines where necessary, to spoil including haulage	m2	598		
4	C1.6.2.2 PS.C.1.6.1	Grubbing with hand labour when labour enhancement work is specified or it is not practical to use a machine, to spoil including haulage	m2	60		
		Removal and Grubbing of Large Trees and Tree Stumps				
5	C1.6.3.1	Girth equal to or exceeding 1,0 m up to and including 2,0 m, to spoil including haulage	no	1		
6	C1.6.4.1	Removal of buildings and structures: (concrete fences, temporary buildings and other encroachments identified on site)	Lump sum	1		

TOTAL CARRIED TO SECTION 2 SUMMARY: SITE CLEARANCE**R**

Road Upgrade of 611137 Street located off Himalaya Drive, Redcliffe, Ward 60

SECTION 3 SERVICES

PART 0201 C2.1 GEN REQMENTS AND TRENCHING SERVICE

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Relocation of Services by Others:</u>				
		<u>Water, Sewer, Electricity and Telecommunications</u>				
1	C2.1.1.2 PS.2	Permanent services relocation or protection work by others	PC Sum	70000	1.00	70,000.00
2	C2.1.1.3 PS.1	Handling costs and profit in respect of item above	%	70000		
		<u>Relocation of Services by the Contractor</u>				
		<u>Water, Sewer, Electricity and Telecommunications</u>				
3	C2.1.1.4 PS.2	Permanent services relocation or protection work by the Contractor	ProvSum	1	1,800,000.00	1,800,000.00
4	C2.1.2.5 PS.2	Using hand excavation to locate, expose and verify services	m3	8		
5	C2.1.27.1 PS.C2.1.27.1	Demolition of existing manholes, access chambers and other service structures consisting of: Unreinforced concrete, to spoil including haulage	m3	2		
6	C2.1.27.2 PS.C2.1.27.2	Demolition of existing manholes, access chambers and other service structures consisting of: Reinforced concrete, to spoil including haulage	m3	2		
7	C2.1.27.3 PS.C2.1.27.3	Demolition of existing manholes, access chambers and other service structures consisting of: Masonry, to spoil including haulage	m3	2		
8	C2.2.5.2	Concrete encasement of services (class 20/26)	m3	6		

TOTAL CARRIED TO SECTION 3 SUMMARY: SERVICES

R

Road Upgrade of 611137 Street located off Himalaya Drive, Redcliffe, Ward 60

SECTION 4 DRAINAGE**PART 0302 C3.2 CULVERTS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		450mm Pipes				
1	C3.2.1.1(a) PS.C3.2.1.1 PS.C2.1	Excavation for culvert structures (pipes): in all material situated within the following depth ranges below the surface level:(a) 0 m to 1,5 m, to spoil including haulage	m	20		
2	C3.2.2.1 PS.C3.2.3.2	Backfilling: Using the excavated material	m	20		
3	C3.2.2.2(a) PS.C3.2.3.2	Backfilling: Using granular material	m	20		
		Inlets and Manholes				
4	C3.2.1.1(a) PS.C3.2.1.1 PS.C2.1	Excavation for culvert structures (Inlets and Manholes): in all material situated within the following depth ranges below the surface level:(a) 0 m to 1,5 m, to spoil including haulage	m3	2		
5	C3.2.1.1(b) PS.C3.2.1.1 PS.C2.1	(b) Exceeding 1,5 m and up to 3,0 m, to spoil including haulage	m3	2		
6	C3.2.2.1 PS.C3.2.3.2	Backfilling: Using the excavated material	m3	4		
7	C3.2.2.2(a) PS.C3.2.3.2	Backfilling: Using granular material	m3	4		
8	C3.2.1.4 PS.C3.2.1.1 PS.C2.1	Extra over sub-item C3.2.1.1 for excavation in hard or boulder material,irrespective of depth, to spoil including haulage	m3	5		
9	C3.2.3.2 PS.C3.2.3.2	Concrete pipe culverts: On Class B bedding (450mm diameter concrete Class 100D)	m	20		
10	C3.2.15.2 PS.C3.2.15.2	Inlet: Type S2; Depth: Exceeding 0,0m and up to 1,5m, including brickwork for inlet walls	no	4		
11	C3.2.15.2 PS.C3.2.15.2	Inlet: Type S2; Depth: Exceeding 0,0m and up to 1,5m, demolish existing brickwork and relocate inlet cover including new brickwork and concrete slab. See drawing 38573 - "Details of Inlet / Manhole Affected by Road Widening"	no	2		
12	C2.1.19.2	Dealing with subsurface water	sum	1		

Road Upgrade of 611137 Street located off Himalaya Drive, Redcliffe, Ward 60

Part Continued **PART** 0302 C3.2 CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
13	C3.2.12.2	Demolition of concrete members or elements: Partial member or element (location and description will be confirmed on site by the Engineer)	m3	10		
14	C3.2.23	Breaking into existing drainage structures and building in pipes or culverts of the following size (450mm diameter)	no	4		
15	C3.2.26	Repair with cementitious mortar or concrete (To be confirmed on site by the Engineer)	l	15		

TOTAL CARRIED TO SECTION 4 SUMMARY: DRAINAGE

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PART 0303 C3.3 CONCRETE KERBING AND CHANNELING

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C13.4.11	Cast in situ concrete for Pedestrian / Vehicular Scoop (Grade 20/13)	m3	12		
2	C2.1.16 PS.C2.1.16	Subsurface drains in trench bottoms (Drawing 38575 - Type A)	m	30		
3	C3.3.1	Prefabricated Kerbing (Fig. 8 Type C as per Drawing 38577) EXCLUDING channel / fillet	m	120		
4	C3.3.2.1, PS.C3.3.2.1	Prefabricated kerbing, cast in-situ channeling: Type F Mountable Kerb, fig. 6, with 150mm channel, Drawing 38577	m	200		
5	C3.3.2.1, PS.C3.3.2.1	Prefabricated kerbing, cast in-situ fillet: Type F Mountable Kerb, fig. 6, with 150mm channel, Drawing 38577	m	200		
6	C3.3.3.1, PS.C3.3.2.1	Extra over items C3.3.1 and C3.3.2 for concrete kerbing and channeling / fillet on curves of radii more than or equal to 2,0 m but less than 25 m	m	60		
7	C3.3.4	Extra over item C3.3.2 for drop kerbs and channel / Fillet at pedestrian crossings and driveways (Drawing 38579)	m	60		
		Open Drains				
8	C3.3.6.2	Cast in situ concrete chutes (V Drain, as per drawing) Item to include formation, backfill and compaction, Concrete reinforcement and formwork	m	200		

TOTAL CARRIED TO SECTION 4 SUMMARY: DRAINAGE

R

Road Upgrade of 611137 Street located off Himalaya Drive, Redcliffe, Ward 60

SECTION 5 EARTHWORKS & LAYERWORKS**PART 0402 C4.2 CUT MATERIALS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C4.2.9.1 PS.C4.2	Excavating of materials to spoil, including haulage, in sites designated by the Contractor, material obtained from: Soft excavation	m3	840		
2	C4.2.9.3 PS.C4.2	Boulder excavation class B to spoil, including haulage	m3	150		
3	C4.2.9.4 PS.C4.2	Hard excavation (other than by blasting) to spoil, including haulage	m3	100		
4	C4.2.12.1(a)	Finishing the side slopes of Cuttings:(a) In soft material	m2	208		

TOTAL CARRIED TO SECTION 5 SUMMARY: EARTHWORKS LAYERWORKS

R

PART 0403 C4.3 EXISTING ROAD MATERIALS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C4.3.4.4(a)	Saw-cut Saw-cutting existing materials within the following average depth ranges:Cemented Material :(a) Upo 100 mm	m	20		
2	C4.3.18.2 PS.C4.2	Excavate non-compliant or excess pavement layer material to spoil in sites designated by the Contractor, including haulage, material consisting of: Crushed stone, macadam, gravel and sand material	m3	12		
3	C4.3.18.3 PS.C4.2	Excavate non-compliant or excess pavement layer material to spoil in sites designated by the Contractor, including haulage, material consisting of: Cemented Material	m3	6		

TOTAL CARRIED TO SECTION 5 SUMMARY: EARTHWORKS LAYERWORKS

R

PART 0404 C4.4 COMMERCIAL MATERIALS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C5.3.1	Compiling and implementing M&U plans for the construction of all the pavement layers.	no	1		
2	C4.4.2.1©	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material:Type G2	m3	141		
3	C5.3.2.1(b)	Construction of layers: 150mm Selected layer (G2) compacted to 98 % of MDD	m3	126		

Road Upgrade of 611137 Street located off Himalaya Drive, Redcliffe, Ward 60

Part Continued **PART** 0404 C4.4 COMMERCIAL MATERIALS

Item	Clause	Description	Unit	Quantity	Rate	Amount
4	C4.4.2.1(d) PS.C4.2	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material:Type G4	m3	38		
5	C5.3.2.1(b)	Construction of layers:150mm Selected layer (G4) compacted to 98 % of MDD	m3	38		
6	C4.4.2.1(e)	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material:Type G5	m3	132		
7	C5.3.2.1(b)	Construction of layers:150mm Selected layer (G5) compacted to 98 % of MDD	m3	132		
8	C4.4.2.1(g)	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material:Type G7	m3	178		
9	C5.3.2.1(b)	Construction of layers:150mm Selected layer (G7) compacted to 95 % of MDD	m3	178		
10	C5.3.11.1	Using a 3,0 m straight edge	m	1		
11	C5.3.11.2	Using a rolling straight edge	m	1		
12	C5.3.2.1(b)	Construction of layers: Selected layer (G2) compacted to 98 % of MDD for driveways and restricted areas	m3	15		
13	C5.1.1.2 PS.C5.1.1.2	Roadbed construction and compaction to 95 % of MDD	m3	263		
14	C5.1.3.1(a) PS.C4.2	Excavate material to spoil from roadbed construction, material obtained from:(a) Soft excavation	m3	79		

TOTAL CARRIED TO SECTION 5 SUMMARY: EARTHWORKS LAYERWORKS

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PART 0901 C9.1 ASPHALT LAYERS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C9.1.3.1 PS.C9.1	Bond Coat Application of bond coat: Stable –grade 30 % net bitumen emulsion as specified. Applied with a calibrated distributor	l	739		
2	C9.1.5.1(e) PS.C9.1	Asphalt Surface New construction (paver laid) (a) Stone skeletal mix – continuously graded (SA-S10) (50mm layer)	m2	820		
3	C8.1.1.2	Prime coat: MC -30 cut-back bitumen. 0.8l/m2	l	709		

TOTAL CARRIED TO SECTION 5 SUMMARY: EARTHWORKS LAYERWORKS

R

Road Upgrade of 611137 Street located off Himalaya Drive, Redcliffe, Ward 60

PART 1203 C12.3 GROUND IMPROVEMENT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C12.3.20 PS.C12.3.20	Importing dump rock for subgrade improvement, 300mm thick	m3	60		
2	PS.C12.3.20	Supply and place minimum grade 5 geofabric to dumprock layer.	m2	220		
3	C12.3.19 PS.C12.3.20	Importing G7 quality material from approved sources, to be applied over dumprock layer.	m3	22		

TOTAL CARRIED TO SECTION 5 SUMMARY: EARTHWORKS LAYERWORKS**R**

Road Upgrade of 611137 Street located off Himalaya Drive, Redcliffe, Ward 60

SECTION 6 CONCRETE**PART 0601 C6.1 PAVER LAID CONCRETE LAYERS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C6.1.2.1(a)	Construction of jointed concrete pavement (JCP) (Excluding texturing and curing)JCP without dowels:Hand laid construction (150mm,40MPa)	m2	296		
2	C6.1.5.2	Burlap-dragged and broom finish only	m2	296		
3	C6.1.5.3(b)	(b) Curing: Labour enhanced construction	m2	296		
4	C6.1.7.1	Expansion joints complete (excluding dowels)	m	170		
5	C6.1.7.4(a)	Dowel bars: mild steel inserted in new concrete (Y10, 500mm length)	no	98		
6	C6.1.7.3	Sealed transverse contraction joints sawn in two separate operations (widths as shown on the drawings)	m	20		
7	C6.1.7.5(a)	Tie-bars: installed in new concrete (Y10, 500mm length):(a) Mild steel	no	27		
8	C6.1.7.6	Forming and sealing joints between asphalt and concrete pavements	m	20		
9	C6.1.8.2	Steel reinforcement in concrete pavements: Mesh Red 395	m2	296		
10	C6.1.9.2	150mm cores drilled from pavement for testing of compressive strength	no	4		

TOTAL CARRIED TO SECTION 6 SUMMARY: CONCRETE**R****PART 0602 C6.2 SEGMENTAL BLOCK PAVING LAYERS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C6.2.1.1	Segmental concrete block paving (indicate class, type and thickness of blocks)	m2	600		
2	C6.2.2	Cast in-situ concrete edge and intermediate beams	m3	5		
3	C6.2.3.1	Provision and application of approved herbicide and ant poison: Provision of materials	PC Sum	15000	1.00	15,000.00
4	C6.2.3.2	Contractor's charges and profit added to the prime cost sum	%	15000		
5	C6.2.4.1	Re sanding of joints in segmental block paving: Concrete block paving (indicate class, type and thickness of blocks)	m2	5		

TOTAL CARRIED TO SECTION 6 SUMMARY: CONCRETE**R**

Road Upgrade of 611137 Street located off Himalaya Drive, Redcliffe, Ward 60

SECTION 7 ANCILLARY ROAD WORKS**PART 1105 C11.5 FENCING**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Supply and erect new fencing material for new fences and for supplementing material in existing fences which are being repaired or removed:</u>				
1	C11.5.1.3	Diamond mesh (PVC Coated to 3.15mm, and 55 mm)	m2	120		
2	C11.5.1.9(a)(ii)	Straining posts, stays and anchors: (a) Vertical (ii) Timber straining posts (as referenced in Standard Drawing 38583)	no	20		
3	C11.5.1.9(b)(ii)	Straining posts, stays and anchors: (b) Inclined (ii) Timber stays and anchors (as referenced in Standard Drawing 38583)	no	8		
4	C11.5.3.1(d)	Moving existing fences:(d) Security fences	m	60		
5	C11.5.3.2	Moving existing gates	no	4		
6	C11.5.4.1(d)	Dismantling existing fences:(d) Security fences	m	60		
7	C11.5.4.2	Dismantling existing gates	no	1		
8	C11.5.10.1	Disposal of existing fencing materials (as indicated by the Engineer on site)	m	50		
9	C11.5.9	Repairing existing fences (Security Fences- typically Diamond Mesh with Timber Posts or as indicated by the Engineer on site)	m	40		

TOTAL CARRIED TO SECTION 7 SUMMARY: ANCILLARY ROAD WORKS**R****PART 1106 C11.6 ROAD SIGNS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.6.1.3(a)	Road signboards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class I retro-reflective material, where the sign board is constructed from:Prepainted galvanized steel plate:(a) Area 0 to 0,5 m2	m2	2		
2	C11.6.5.1 PS.C2.1	Excavation and backfilling for road sign supports (not applicable to kilometre posts):Excavating soft material and backfilling	m3	1		
3	C13.4.11	Cast in situ concrete for road sign footings as directed by the Engineer (Grade 20/19)	m3	1		

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PART 1106 C11.6 ROAD SIGNS

Item	Clause	Description	Unit	Quantity	Rate	Amount
TOTAL CARRIED TO SECTION 7 SUMMARY: ANCILLARY ROAD WORKS						R

PART 1107 C11.7 ROAD MARKINGS AND ROAD STUDS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Lettering and Symbols				
1	C11.7.1.4	White lettering and symbols (Thermoplastic)	m2	3		
		Transverse Lines and Islands				
2	C11.7.1.7	Transverse lines, painted island and arrestor bed markings (White) (Thermoplastic)	m2	2		
		Broken and Unbroken Lines				
3	C11.7.3.1	Thermoplastic road marking, broken or unbroken (White, 100mm wide)	m	10		
4	C11.7.8	Setting out and premarking the lines	m	10		
TOTAL CARRIED TO SECTION 7 SUMMARY: ANCILLARY ROAD WORKS						R

PART 1109 C11.9 FINISHING ROAD AND ROAD RESERVE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.9.1.1	Finishing the road and road reserve: Single carriageway road	m	260		
TOTAL CARRIED TO SECTION 7 SUMMARY: ANCILLARY ROAD WORKS						R

PART 1206 C12.6 MECH STABILISED FILL AND GABIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Block Walls				
1	C12.6.2	Excavation for wall base foundation	m3	18		
2	C12.6.3	Concrete for wall base foundation (25/26)	m3	6		
3	C12.6.12.2	Facings (Plain smooth finish): For concrete block wall facing	m2	39		
		Segmented Block walls (Geolock or similar approved)				
4	C12.6.2	Excavation for wall base foundation	m3	26		
5	C12.6.3	Concrete for wall base foundation (specify)	m3	8		
6	C12.6.7	Metallic reinforcing mesh (section dimension indicated)	m2	36		
7	C12.6.12.2	Facings (type, size and thickness indicated): For concrete block wall facing	m2	58		

Road Upgrade of 611137 Street located off Himalaya Drive, Redcliffe, Ward 60

Part Continued PART 1206 C12.6 MECH STABILISED FILL AND GABIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
8	C12.6.13	Drainage (50mm weepholes installed inclusive of all elements as per drawing)	no	16		
9	C12.6.11	Backfill (compacted to 95% MDD)	m3	20		
10	C12.6.17	Geotextile (Drainage A3)	m2	92		
11	C12.6.3	Concrete for wall Top blocks of wall (25/26)	m3	14		
12	C3.1.9.1	Pipes in subsoil drainage systems: U-PVC pipes and fittings, normal duty, complete with couplings (state size and whether or not perforated or slotted)	m	45		
13	C3.3.6.2	Precast concrete chutes (catchwater drain, minimum 300mm wide by 150mm deepm as per drawing) Item to include all materials, formation, backfill and installation.	m	50		

TOTAL CARRIED TO SECTION 7 SUMMARY: ANCILLARY ROAD WORKS

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SUMMARY OF BILL OF QUANTITIES

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	0201 C2.1 GEN REQMENTS AND TRENCHING SERVICE	R		_____	
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	0303 C3.3 CONCRETE KERBING AND CHANNELING	R		_____	
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	0402 C4.2 CUT MATERIALS	R		_____	
	0403 C4.3 EXISTING ROAD MATERIALS	R		_____	
	0404 C4.4 COMMERCIAL MATERIALS	R		_____	
	0901 C9.1 ASPHALT LAYERS	R		_____	
	1203 C12.3 GROUND IMPROVEMENT	R		_____	
6	CONCRETE		R	_____	
	0601 C6.1 PAVER LAID CONCRETE LAYERS	R		_____	
	0602 C6.2 SEGMENTAL BLOCK PAVING LAYERS	R		_____	
7	ANCILLARY ROAD WORKS		R	_____	
	1105 C11.5 FENCING	R		_____	
	1106 C11.6 ROAD SIGNS	R		_____	
	1107 C11.7 ROAD MARKINGS AND ROAD STUDS	R		_____	
	1109 C11.9 FINISHING ROAD AND ROAD RESERVE	R		_____	
	1206 C12.6 MECH STABILISED FILL AND GABIONS	R		_____	
SUB TOTAL				R	_____
ADD VAT (15%) - (only if a registered VAT Vendor)				R	_____
TOTAL CARRIED TO FORM OF TENDER				R	_____