

CONTRACT: 2V-47702

**Construction of car parking and concrete retaining wall including
stormwater drainage at Gillitts Electricity Depot in Westmead, no. 50 Gillitts
Road, (Ward 18).**

BIII OF QUANTITIES

PREAMBLE

Construction of car parking and concrete retaining wall including stormwater drainage at Gillitts Electricity Depot in Westmead, no. 50 Gillitts Road, (Ward 18).

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Construction of car parking and concrete retaining wall including stormwater drainage at Gillitts Electricity Depot in Westmead, no. 50 Gillitts Road, (Ward 18).

BILL OF QUANTITIES

SECTION 1 PRELIMINARIES

PART AA PRELIMINARIES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	GCC 2015	GENERAL CONDITIONS OF CONTRACT (GCC 2015) READ IN CONJUNCTION WITH THE CONTRACT DATA Fixed Charge obligations	sum	1		
2	GCC 2015	Time Related obligations	sum	1		
3	SANS 1921-1	SANS 1921-1 : GENERAL ENGINEERING AND CONSTRUCTION WORKS READ IN CONJUNCTION WITH THE ASSOCIATED SPECIFICATION DATA IN THE SCOPE OF WORKS Fixed Charge Items	sum	1		
4	SANS 1921-1	Time Related Items	sum	1		
5	C1.2.3.1	COMMUNITY LIAISON OFFICER Allow for a CLO to be appointed.	PC Sum	85000	1.00	85,000.00
6		Contractors Mark up	%	85000		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARIES

R

PART AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AB.2	FIXED CHARGES Offices for Engineer and Staff	sum	1		
2	AB.2	Services Connection Fee (electrical / water / telephone) (Provisional)	PC sum	50000	1.00	50,000.00
3	AB.4	Contractor's Camp Site / Store Yard	sum	1		
4	AB.5	Notice Board	sum	1		
5	AB.7	Initial supply of all signs, barricades and delineators	sum	1		
6	PS.15	Survey coordination of existing valves, manholes, catchpits, and cable duct markers	sum	1		
7	AB.2	Attendance on and Maintenance of Office for Engineer and Staff	sum	1		
8	AB.6	Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		
9	AB.7	Maintenance of Pedestrian and Traffic Facilities	sum	1		

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Part Continued PART AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
10	AB.7	Maintenance of all signs, barricades and delineators	sum	1		
11	PS.15	Survey for, and Preparation of, 'As-Built' Drawings	sum	1		
12	PS.11	Site security	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARIES R

PART AH OCCUPATIONAL HEALTH and SAFETY

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.10, AH 14.1	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
2	PS.10, AH 14.2	Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
3	PS.10, AH 14.3	Submission of the Health and Safety File	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARIES R

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BILL OF QUANTITIES

SECTION 2 CAR PARKING AND CONCRETE RETAINING WALL

PART B SITE CLEARANCE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2	General clearance and grubbing where directed by the engineer	m2	500		
2	B.8.4	Removal and grubbing of large trees and de-stump to approved tip	no.	12		
3	B.8.5	Removal of existing fence: Rate shall include removal of top broken precast concrete panel, removal of first to eight precast panels along the section, removal of precast concrete posts and haulage to approved tip.	m	80		
4	B.8.10	Removal of unreinforced concrete to approved tip.	m3	25		
5	B.8.9	Removal of brickwork to approved tip (including stonepitch wall)	m2	16		
6	B8.14	Removal of roadway to approved tip	m3	30		
7	B.8.19	Removal of stormwater concrete channel with steel grid and spoil at tip. Rate to include all haulage	m	80		
8	B.8.13	Removal of precast concrete retaining structure to approved tip	m2	160		
9	B.8.19	Removal of disused pipes, 0 - 350 mm diameter and spoil at tip. Rate to include all haulage	m	10		
10	B.8.6	Removal of stormwater grid cover and store on site for re-use	no.	1		

TOTAL CARRIED TO SECTION 2 SUMMARY: CAR PARKING AND CONCRETE RETAINING WALL

R

PART C CONCRETE WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1	Grade 15Mpa concrete for fence foundations	m3	10		
2	C.8.1	Grade 15Mpa concrete blinding of thickness 50 mm	m2	193		
3	C.8.1	Grade 40Mpa concrete in walls and base	m3	195		
4	PS.C.17	Wall and Floor Expansion Joint Detail / softboard and sealant as per attached drawing and detail	m	77		
5	PS.C.1	Mild steel reinforcement	t	1		
6	PS.C.1	High tensile steel reinforcement	t	18		
7	PS.C.2.1	Class 1 shuttering to base slabs	m2	64		
8	PS.C.2.1	Class 1 shuttering to walls	m2	520		

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Part Continued **PART C CONCRETE WORK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
9	PS.C.5	Construct 75 mm dia. P.V.C weepholes inclusive of no-fines concrete plug	no.	50		
10	PS.C.14	Geofabric placed behind wall as per drawing no.74481.	m2	308		
11	PS.C.14	Subsoil drain as per drawing no.74481.	m	85		

TOTAL CARRIED TO SECTION 2 SUMMARY: CAR PARKING AND CONCRETE RETAINING WALL

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PART DA EARTHWORKS : BULK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.2	Excavate topsoil to stockpile for landscape and or tip to approved tip.(150mm nominal depth)	m3	30		
2	DA.8.3	Excavate soft material and place directly into fill	m3	920		
3	DA.8.3	Extra over above for excavation in intermediate material to spoil at approved tip.	m3	200		
4	DA.8.3	Extra over above for excavation in hard material to spoil at approved tip.	m3	100		
5	DA.8.3	Extra over above for excavation of boulders greater than 0,15 m3 to fill	m3	260		
6	DA.8.3	Excavate unsuitable material below embankments or formation and spoil at tip	m3	80		
7	DA.8.5	Compact imported fill material to 95% Mod. A.A.S.H.T.O.	m3	150		
8	DA.8.6	Trimming of embankments	m2	120		
9	DA.8.9	Formation	m2	620		
10	PS.DA.3	Subgrade G7,150mm thick compacted to 95% Mod A.A.S.H.T.O (Obtained from commercial source)	m3	100		

TOTAL CARRIED TO SECTION 2 SUMMARY: CAR PARKING AND CONCRETE RETAINING WALL

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PART DB EARTHWORKS FOR PIPE TRENCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.DB.1-6	Excavate and backfill in all material for 160 mm diameter cable duct sleeve where depth is :- - Over 0,0 m and not exceeding 1,5 m	m3	10		
2	DB.8.10	Placing and compacting flexible pipe bedding for 160mm diameter pipe	m	65		
3	DB.8.13	Provision of clean coarse sand for subsoil pipe.	m3	6		

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Part Continued **PART DB EARTHWORKS FOR PIPE TRENCHES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
4	DB.8.13	Provision of 19mm stone for subsoil drain from commercial or off-site source	m3	8		
5	DB.8.19	Proving Underground Services	m3	20		
6	PS.DB.1-6	Excavate and backfill in all material for 110 mm diameter cable duct sleeve where depth is :- Over 0,0 m and not exceeding 1,5 m	m3	10		

TOTAL CARRIED TO SECTION 2 SUMMARY: CAR PARKING AND CONCRETE RETAINING WALL

R

PART DD EARTHWORKS FOR STRUCTURES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.DD.1	Excavate in all material for the retaining wall base to spoil, rate to include backfilling	m3	100		
2	PS.DD.1	Extra over item 1 for hard material	m3	50		
3	PS.DD.1	Design, installation and removal of a ground lateral support system to secure the excavated surfaces	sum	1		

TOTAL CARRIED TO SECTION 2 SUMMARY: CAR PARKING AND CONCRETE RETAINING WALL

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PART EB GRADED CRUSHED STONE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.EB.1	Natural G4, 150 mm thick compacted to 98% Mod A.A.S.H.T.O. (obtained from commercial source)	m3	70		
2	PS.EB.2	Prime coat at 0.60 l/m2	m2	460		

TOTAL CARRIED TO SECTION 2 SUMMARY: CAR PARKING AND CONCRETE RETAINING WALL

R

PART ED ROAD ASPHALT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.ED.1.2	Continuously graded wearing course of compacted thickness 40 mm - Sa-S10 Material	t	135		
2	PS.ED.4	Saw Cut existing road edge	m	40		
3	PS.ED.3	Tack coat	m2	1520		

TOTAL CARRIED TO SECTION 2 SUMMARY: CAR PARKING AND CONCRETE RETAINING WALL

R

PART EF KERBS AND HAUNCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EF.8.1	Type A barrier kerb and channel/fillet as per detail (Drg no 38577). Rate to include full length haunching, base and channel.	m	20		

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Part Continued **PART EF KERBS AND HAUNCHES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
2	EF.8.1	Type F mountable kerb and channel/fillet as per detail (Drg no 38577). Rate to include full length haunching , base and channel.	m	10		
3	EF.8.1	Figure 12 Mini Precast edge restraint as per detail. Rate to include full length haunching and base.	m	80		

TOTAL CARRIED TO SECTION 2 SUMMARY: CAR PARKING AND CONCRETE RETAINING WALL

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PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.1	Topsoiling from stockpile: thickness 100 mm	m2	60		
2	F.8.3	Grass planting, cynodon dactylon	m2	60		
3	PS.F.4.	Supply and install 2.4m high concrete palisade fence to match existing on site. Rate to include posts and all fasteners and necessary labour, equipment and material to complete installation as per standard drawing no.38582.	m	85		
4	PS.F.4.	Supply and install 5m galvanised swing gate necessary labour, equipment and material to complete installation as per standard drawing no.38582.	no.	1		
5	PS.F.4	Supply and install 1,2m galvanised pedestrian opening gate necessary labour, equipment and material to complete installation as per standard drawing no.38582.	no.	1		

TOTAL CARRIED TO SECTION 2 SUMMARY: CAR PARKING AND CONCRETE RETAINING WALL

R

PART PG NON PRESSURE PIPELINES and PC CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PG.8.2	110 mm diameter U.P.V.C. heavy duty pipe cable duct	m	70		
2	PG.8.2	160 mm diameter u.P.V.C. heavy duty pipe cable duct	m	10		
3	PG.8.12	Break into existing stormwater open channel for tie-in and make good	m	2		
4	PS.PG.5, PG.8.12.1	Synthetic-fibre filter fabric (Grade 2)	m2	150		
5	PS.PG.9.1	Supply and lay precast concrete surface water channel SWC 8 drainage line as per detailed drawing no. 74481	m	80		
6	PS.PG.9.1	Supplier and place steel grid cover as per detailed drawing no. 74481	m	80		

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PART PG NON PRESSURE PIPELINES and PC CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
TOTAL CARRIED TO SECTION 2 SUMMARY: CAR PARKING AND CONCRETE RETAINING WALL						R

PART PH MANHOLES and APPURTENANT DRAINAGE WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.PH.8	Grid inlet	no.	1		
TOTAL CARRIED TO SECTION 2 SUMMARY: CAR PARKING AND CONCRETE RETAINING WALL						R

PART TB ROAD MARKINGS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	TB.8.1.1	Plastic Painted road lines 100mm wide (white), including setting out and premarking	m	300		
2	PS.TB.8.1.1	Plastic Painted road lines 100mm wide (red), including setting out and premarking	m	15		
3	PS.TB.8.1.1	Painted road lines 100mm wide (yellow), including setting out and premarking	m	50		
4	TB.8.1.2	Road Marking for lettering, symbols and traffic islands (white), including setting out lettering, symbols and traffic island markings.	m2	10		
5	TB.8.1.2	Road Marking for lettering, symbols and traffic islands (yellow), including setting out lettering, symbols and traffic island markings.	m2	10		
TOTAL CARRIED TO SECTION 2 SUMMARY: CAR PARKING AND CONCRETE RETAINING WALL						R

BILL OF QUANTITIES SECTION SUMMARY**SECTION 1 PRELIMINARIES**

PART AA	PRELIMINARIES	
PART AB	GENERAL SPECIFICATIONS	
PART AH	OCCUPATIONAL HEALTH and SAFETY	
TOTAL CARRIED TO FINAL SUMMARY		

BILL OF QUANTITIES SECTION SUMMARY**SECTION 2 CAR PARKING AND CONCRETE RETAINING WALL**

PART B	SITE CLEARANCE	
PART C	CONCRETE WORK	
PART DA	EARTHWORKS : BULK	
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PART EB	GRADED CRUSHED STONE	
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PART EF	KERBS AND HAUNCHES	
PART F	PROTECTION WORKS	
PART PG	NON PRESSURE PIPELINES and PC CULVERTS	
PART PH	MANHOLES and APPURTENANT DRAINAGE WORKS	
PART TB	ROAD MARKINGS	
TOTAL CARRIED TO FINAL SUMMARY		

Construction of car parking and concrete retaining wall including stormwater drainage at Gillitts Electricity Depot in Westmead, no. 50 Gillitts Road, (Ward 18).

SUMMARY OF BILL OF QUANTITIES

1	PRELIMINARIES		R	_____
	AA	PRELIMINARIES	R	_____
	AB	GENERAL SPECIFICATIONS	R	_____
	AH	OCCUPATIONAL HEALTH and SAFETY	R	_____
2	CAR PARKING AND CONCRETE RETAINING WALL		R	_____
	B	SITE CLEARANCE	R	_____
	C	CONCRETE WORK	R	_____
	DA	EARTHWORKS : BULK	R	_____
	DB	EARTHWORKS FOR PIPE TRENCHES	R	_____
	DD	EARTHWORKS FOR STRUCTURES	R	_____
	EB	GRADED CRUSHED STONE	R	_____
	ED	ROAD ASPHALT	R	_____
	EF	KERBS AND HAUNCHES	R	_____
	F	PROTECTION WORKS	R	_____
	PG	NON PRESSURE PIPELINES and PC CULVERTS	R	_____
	PH	MANHOLES and APPURTENANT DRAINAGE WORKS	R	_____
	TB	ROAD MARKINGS	R	_____
SUB TOTAL			R	_____
ADD VAT (15%) - (only if a registered VAT Vendor)			R	_____
TOTAL CARRIED TO FORM OF TENDER			R	_____