



**CONSTRUCTION COST
BUDGET ESTIMATE**

Client: Gladstone Regional Council
Attention: Farayi Kaisa

Project: BITS Clubs & Dennis Park Sports Complex - Detailed Design Irrigation System
Description: Concept Design - Constuction Cost Estimates - Summary all sites (new systems)

Date: 2/08/2021
By: SJ
Client Ref #: 182-21
Contact Ph : 07 4975 8466
HP Ref #: 15888
Stage: CONCEPT
Rev: A

Item	Description	Unit	Qty	Rate	Amount
BITS CLUBS & DENNIS PARK SPORTS COMPLEX - SUMMARY ALL SITES					
1.0	BITS Sports fields (Option 1 or 2), incl new U8 pitch	item	1	\$403,525.00	\$ 403,525.00
2.0	BITS Golf course (Option 1 or 2), incl future 5 holes*	item	1	\$1,420,900.00	\$ 1,420,900.00
3.0	Dennis Park Sports fields (Option 1.1 or 1.2), incl new areas, new Junior RL field NE2	item	1	\$426,800.00	\$ 426,800.00
	Rates above include allowances for; tender evaluation, project management, contingency and price rises.				
	Refer individual site estimate sheets for more details.				
	Draft budget estimates for concept design are subject to review in detailed design & final selection options.				
(*) value of future 5 holes, \$297,000 included in total >>>				Total, excluding GST	\$ 2,251,225.00
				GST payable	\$ 225,122.50
				Total, including GST	\$ 2,476,347.50

Notes:

A	At concept stage Option 1 & 2 will not vary significantly in price for BITS Sports or Golf course
B	At concept stage Option 1.1 & 1.2 will not vary significantly in price for Dennis Park Sports - deduct \$237K for Option 2
C	For concept design and performance data refer dwgs # 15888-100 to 103 (A) BITS Sports, # 15888-200 to 212 & 1588-220 to 223 (A) BITS Golf, & #1588-300-303 (A) Dennis Park Sports

Exclusions, Options, Clarifications, unless otherwise noted:

i	Potential saving to consolidate BITS clubs pump station into one larger PS system, total capex savings \$40K
ii	BITS backup Potable water supply is included option in total summary cost estimate above, valued at \$35K
iii	Golf is 3x pump system is designed for 18 holes, by blanking 1 pump (future demand) on manifold savings \$20K
iv	On-site dosing system cost not included in concept budget, may be added at STP or site, add \$25-\$100K if GRC require

Signed:

Scott Johnstone, Principal Consultant



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**CONSTRUCTION COST
BUDGET ESTIMATE**

Client: Gladstone Regional Council
Attention: Farayi Kaisa

Project: BITS Clubs & Dennis Park Sports Complex - Detailed Design Irrigation System
Description: Concept Design - Constuction Cost Estimates - BITS Sports Fields (Soc/AFL-CRI)

Date: 2/08/2021
By: SJ
Client Ref #: 182-21
Contact Ph : 07 4975 8466
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Rev: A

Item	Description	Unit	Qty	Rate	Amount
BITS SPORTS FIELDS (SOCCER/AFL-CRICKET) - OPTION 1 or 2					
1.0	Irrigation System, Options 1 & 2 similar cost (exist area)	m ²	36010	\$5.75	\$ 207,057.50
2.0	Irrigation System, proposed new area Soccer U8 Pitch	m ²	1890	\$5.75	\$ 10,867.50
3.0	Pump & Filter system - assumes separate for budget purposes. Option to combine PS with golf PS for savings	item	1	\$70,000.00	\$ 70,000.00
4.0	New pump slab, shed & electrical - 50% contribution Golf budget to include balance for budget, 50%	item	1	\$22,500.00	\$ 22,500.00
5.0	Potable water supply backup, incl; backflow, fence tank & pipe. 66% contribution, balance 34% in Golf	item	1	\$23,100.00	\$ 23,100.00
6.0	Tender assessment & Project management (~10%)	item	1	\$35,000.00	\$ 35,000.00
7.0	Contingency & price rises (~10%)	item	1	\$35,000.00	\$ 35,000.00
Total, excluding GST					\$ 403,525.00
GST payable					\$ 40,352.50
Total, including GST					\$ 443,877.50

Notes:

A	At concept stage Option 1 & 2 will have similar costs, in this case Option 1 has a better Scheduling Coefficient (SC)
B	Soccer - Option 1 (Rain Bird) SC = 1.1 versus Option 2 (Toro) = 1.2
C	AFL-Cricket - Option 1 (Rain Bird) SC = 1.1 versus option 2 (Toro) = 1.2
D	Refer dwgs # 15888-100 to 103 (A) for concept design and performance data

Exclusions, Options, Clarifications, unless otherwise noted:

i	Potential saving to consolidate BITS clubs pump station into one larger PS system, Sports savings \$15K (\$40K BITS total).
ii	Potable water supply is option included, and cost apportioned between BITS clubs to allow up to 2Ha/2days week each.
iii	On-site dosing system cost not included in concept budget, may be added at STP or site (\$25-\$75K pend options)
iv	

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**CONSTRUCTION COST
BUDGET ESTIMATE**

Client: Gladstone Regional Council
Attention: Farayi Kaisa

Project: BITS Clubs & Dennis Park Sports Complex - Detailed Design Irrigation System
Description: Concept Design - Constuction Cost Estimates - BITS Golf Course

Date: 2/08/2021
By: SJ
Client Ref #: 182-21
Contact Ph : 07 4975 8466
HP Ref #: 15888
Stage: CONCEPT
Rev: A

Item	Description	Unit	Qty	Rate	Amount
<u>BITS GOLF COURSE - OPTION 1 or 2</u>					
1.0	Irrigation System, Options 1 & 2 similar cost, 13 holes	m ²	114000	\$6.75	\$ 769,500.00
2.0	Irrigation System, allowance for Future 5 holes	m ²	44000	\$6.75	\$ 297,000.00
3.0	Pump & Filter system - assumes separate for budget purposes. Option to combine PS with golf PS for savings	item	1	\$110,000.00	\$ 110,000.00
4.0	New pump slab, shed & electrical - 50% contribution BITS Sports budget to include balance for budget, 50%	item	1	\$22,500.00	\$ 22,500.00
5.0	Reroute RW pipe to PS suction & disconnect exist PS	item	1	\$20,000.00	\$ 20,000.00
6.0	Potable water supply backup, incl; backflow, fence tank & pipe. 34% contribution, balance 66% in Sports	item	1	\$11,900.00	\$ 11,900.00
7.0	Tender assessment & Project management (~10%)	item	1	\$95,000.00	\$ 95,000.00
8.0	Contingency & price rises (~10%)	item	1	\$95,000.00	\$ 95,000.00
(*) value of future 5 holes, \$297,000 included in total >>>					
Total, excluding GST					\$ 1,420,900.00
GST payable					\$ 142,090.00
Total, including GST					\$ 1,562,990.00

Notes:

A	At concept stage option 1 & 2 will not vary significantly in price, in this case Option 1 & 2 has similar SC
B	Option 2 (Toro) has slightly better performance overall at lower pressure and with lower precipitation rates
C	Refer dwgs # 15888-200 to 212 & 1588-220 to 223 (A) for concept design and performance data
D	Item 4 (reroute RW suction pipe) has not been apportioned for BITS sports fields, and costed only in golf estimate

Exclusions, Options, Clarifications, unless otherwise noted:

i	Potential saving to consolidate BITS clubs pump station into one larger PS system, Golf savings \$25K (\$40K BITS total).
ii	Potable water supply is option included, and cost apportioned between BITS clubs to allow up to 2Ha/2days week each.
iii	Golf is 3x pump system is designed for 18 holes, by blanking 1 pump (future demand) on manifold savings \$20K.
iv	On-site dosing system cost not included in concept budget, may be added at STP or site (\$25-\$75K pend options)

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**CONSTRUCTION COST
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Client: Gladstone Regional Council
Attention: Farayi Kaisa

Project: BITS Clubs & Dennis Park Sports Complex - Detailed Design Irrigation System
Description: Concept Design - Constuction Cost Estimates - Dennis Park Sports Complex (RL)

Date: 2/08/2021
By: SJ
Client Ref #: 182-21
Contact Ph : 07 4975 8466
HP Ref #: 15888
Stage: CONCEPT
Rev: A

Item	Description	Unit	Qty	Rate	Amount
DENNIS PARK SPORTS (RL) - OPTION 1.1 & 1.2 NEW IRRIGATION & PUMP SYSTEM					
1.0	Irrigation System, Options 1.1 & 1.2 existing area only	m ²	33920	\$5.75	\$ 195,040.00
2.0	Irrigation system, proposed new area NE2 Junior RL field	m ²	8480	\$5.75	\$ 48,760.00
3.0	New Pump & Filter system - surface mounted pumps, disconnect existing submersible pumps	item	1	\$75,000.00	\$ 75,000.00
4.0	New pump slab, shed & electrical	item	1	\$38,000.00	\$ 38,000.00
5.0	Tender assessment & Project management (~10%)	item	1	\$35,000.00	\$ 35,000.00
6.0	Contingency & price rises (~10%)	item	1	\$35,000.00	\$ 35,000.00
Total, excluding GST					\$ 426,800.00
GST payable					\$ 42,680.00
Total, including GST					\$ 469,480.00

Notes:

A	At concept stage Option 1 & 2 will have similar costs, in this case Option 1 has a better Scheduling Coefficient (SC)
B	RL Senoir & Junior - Option 1.1 (Rain Bird) SC = 1.2 versus Option 2 (Toro) SC = 1.3
C	Refer dwgs # 15888-300 to 303 (A) for concept design and performance data - option 1
D	Alternative Option 2, retain existing irrigation system & add extensions requested, SC = 1.7 (well outside specification)

Exclusions, Options, Clarifications, unless otherwise noted:

i	Option to to retain existing submersible pump station & panel as is (except add new filter), potential savings \$68K
ii	No option or allowance for backup Potable water supply at Dennis Park, not required by stakeholders
iii	On-site dosing system cost not included in concept budget, may be added at STP or site (\$25-\$75K pend options)
iv	

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Description: Concept Design - Constuction Cost Estimates - Dennis Park Sports Complex (RL)

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Item	Description	Unit	Qty	Rate	Amount
DENNIS PARK (RL) - OPTION 2 RETAIN EXISTING IRRIGATION & PUMP SYSTEM & EXTEND IRRIGATION					
1.0	Irrigation System, Option 2 retain & extend by adding 5 valves (30 rotors), Sched co-efficient = 1.7 (new areas)	m ²	9520	\$5.75	\$ 54,740.00
2.0	Modify connections to pipe, controls & cabling	item	1	\$40,000.00	\$ 40,000.00
2.0	Retain existing pump station and add new Filter	item	1	\$45,000.00	\$ 45,000.00
3.0	Tender assessment & Project management (~10%)	item	1	\$35,000.00	\$ 35,000.00
4.0	Contingency & price rises (~10%)	item	1	\$15,000.00	\$ 15,000.00
NOTE: THIS OPTION 2 WAS PREPARED AT THE REQUEST OF STAKEHOLDERS AS A BACKUP PLAN HOWEVER DOES NOT MEET THE SPECIFIED SELECTION CRITERIA FOR PERFORMANCE, SO NOT SHOWN IN SUMMARY					
Total, excluding GST					\$ 189,740.00
GST payable					\$ 18,974.00
Total, including GST					\$ 208,714.00

Notes:

A	Alternative Option 2, retain existing irrigation system & add extensions requested, is well outside specification
B	RL Senoir & Junior - Option 2 (Hunter) Scheduling Coefficient = 1.7 (versus scope brief SC target range ~ 1.0 to 1.3)
C	Refer dwgs # 15888-300 to 303 (A) for concept design and performance data - option 2
D	Refer Options 1.1 & 1.2 for SC in 1.0 to 1.3 range (new system)

Exclusions, Options, Clarifications, unless otherwise noted:

i	No option or allowance for backup Potable water supply at Dennis Park, not required by stakeholders
ii	On-site dosing system cost not included in concept budget, may be added at STP or site (\$25-\$75K pend options)
iii	
iv	

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