

**ITEM 19. TENDER – CENTRAL MONITORING AND CONTROL SYSTEM FOR  
PARKS**

**FILE NO: X002975**

**TENDER NO: 1661**

**SUMMARY**

This report provides details of the tenders received for a central monitoring and control system for parks.

The selection and implementation of a centralised system will control the City's watering and lighting infrastructure in Parks. The system is critical to ensuring efficient operations of the City's irrigation, water recycling systems, water features and sportsfield lighting. The system will enable staff to actively track, monitor, and control key parks water efficiency and asset performance and enable the City to improve accuracy and transparency when reporting environmental performance.

These improvements in operations will contribute to our Sustainable Sydney 2030 Strategy in relation to water and energy efficiencies in the following manner:

1. by enhancing park irrigation and water recycling efficiency the system will contribute to the delivery of the 2016-2021 Environmental Action Plan: Water Sensitive City targets:
  - zero increase in potable water use from 2006 baseline; and
  - annual potable water use of 180L/m<sup>2</sup> of irrigated open space;
2. increasing the operational efficiency of sportsfield lighting will assist in meeting the objective of the 2016-2021 Environmental Action Plan: Low Carbon City through decreased carbon emissions.

Twenty-three priority sites have been identified for initial implementation, with the system supported and serviced for a period of three years.

This report recommends that council accept the tender offer of Tenderer 'A' for central monitoring and control system for parks.

**RECOMMENDATION**

It is resolved that:

- (A) Council accept the tender offer for lump sum and schedule of rates of Tenderer 'A' for central monitoring and control system for parks for a period of three years; and
- (B) authority be delegated to the Chief Executive Officer to negotiate, execute and administer the contracts relating to the tender.

**ATTACHMENTS**

**Attachment A:** List of selected sites

**Attachment B:** Tender Evaluation Summary (Confidential)

**Attachment C:** Lump sum figure and Schedule of Rates (Confidential)

**(As Attachments B and C are confidential, they will be circulated separately from the agenda paper and to Councillors and relevant senior staff only.)**

**BACKGROUND**

1. The centralised monitoring and control system (the system) will enable customised monitoring and control options for the City's 59 irrigated parks, 20 water recycling systems, 42 water features and 10 sportsfield lighting assets. These assets require both proactive and reactive monitoring and control.
2. The system consists of control software and programs, and electrical hardware and cabling components.
3. The system will provide real-time monitoring of parks assets to ensure they are operating and maintained in an optimal condition. This is a major improvement from the existing system that is nine years old and does not have remote access functionality, the ability to adjust scheduling or report on faults and performance.
4. Twenty-three key sites have been identified for the initial system implementation (the subject of this tender). These sites have been prioritised due to high water consumption or requirements for a higher standard of water quality. Refer Attachment A – Table 1 for site details.
5. In addition to improved water use and water quality, a key operational benefit of implementing the system is the efficiency gains for service teams. With an expanding asset base and technological advances, this system will allow staff and contractors to remotely access and control key assets at any time and from any location.
6. A lump sum figure and a comprehensive schedule of rates has been developed to allow for system design and implementation to meet our current requirements, and customisation to meet future needs. The schedule of rates enables future implementation as new park assets and sites are delivered (potential future sites identified in Attachment A – Table 2). The schedule of rates also covers additional training, emergency services, access to parts and materials for use as required.
7. The service provider will be responsible for the design, installation and commissioning of the system. The service provider will also deliver 36 months of service support and system updates, training for City staff and operational manuals.
8. A three year service period was deemed sufficient as the City maintains ownership of all infrastructure after installation. The recommended tenderer has provided a range of options for the continuance of system operations beyond this contract term.

**ENVIRONMENTAL IMPACTS**

9. The centralised monitoring and control system contract will assist the City in achieving the Sustainable Sydney 2030 water reduction target, of maintaining 2006 potable water use levels by:
  - (a) watering our parks more efficiently by identifying water wastage from system faults through alerts and alarms leading to quicker repairs and maintenance;
  - (b) providing additional tracking and monitoring of water meter readings and irrigation output to measure against the 2021 targeted annual potable water use of 180L/m<sup>2</sup> of irrigated open space; and
  - (c) providing real-time quantitative and qualitative data of water consumption.

10. The centralised monitoring and control system contract will assist the City in achieving the Sustainable Sydney 2030 70 per cent reduction in greenhouse gas emissions base on 2006 levels by enabling more visibility and immediate control of sportsfield lighting.
11. The centralised monitoring and control system contract will also assist the City in meeting NSW Health guidelines in relation to water quality testing of water play elements. In January 2016, NSW Health advised the City that water play elements must meet swimming pool standards. Within the City these features are:
  - (a) Pirrama Park interactive water play;
  - (b) Cook and Phillip Park “Jumping Jewels”;
  - (c) Redfern Park “Lotus” water play; and
  - (d) Mary O’Brien Reserve water play.

### **INVITATION TO TENDER**

12. The Request for Tender was advertised in The Sydney Morning Herald and The Daily Telegraph on 13 September 2016 and on the City of Sydney’s E-Tendering portal. The tender period closed on 30 September 2016.

### **TENDER SUBMISSIONS**

13. Three submissions were received from the following organisations (listed alphabetically):
  - Centratch Systems Pty Ltd
  - Industrial Automation Group Pty Ltd
  - Itech Corporation Pty Ltd.
16. No late submissions were received.

### **TENDER EVALUATION**

17. All members of the Tender Evaluation Panel have signed Pecuniary Interest Declarations. No pecuniary interests were noted.
18. The relative ranking of tenders as determined from the total weighted score is provided in the confidential Tender Evaluation Summary – Attachment B.
19. All submissions were assessed in accordance with the approved evaluation criteria being:
  - (a) financial stability and financial position of the tenderer;
  - (b) lump sum price and schedule of rates;
  - (c) demonstrated capacity and technical ability to carry out the work under the contract;

- (d) demonstrated managerial capability, qualifications, experience, specified personal, sub-contractors, their qualifications, technical expertise, their roles and responsibilities in delivering these works;
- (e) previous works and successful demonstration of system functions;
- (f) capacity to meet the functional and non-functional requirements specified, user interfaces, system reliability and proposed integration within the City of Sydney's service delivery needs;
- (g) environmental management, SSSMP (Site Specific Safety Management Plan), software warranties, technical support capacity; and
- (h) Work Health and Safety and Insurances.

### **PERFORMANCE MEASUREMENT**

20. The City will ensure that performance standards are met and monitored by:
- (a) ensuring the works are in accordance with the contract documents;
  - (b) reviewing design, program, servicing schedules and work method statements;
  - (c) reviewing samples, submissions and product data;
  - (d) conducting regular meetings with the service provider and stakeholders; and
  - (e) attending regular inspections of the works.
21. This contract has mechanisms to ensure the new technologies that Council invests in remain efficient and operational.

### **FINANCIAL IMPLICATIONS**

22. There are sufficient funds allocated for this project within the current year's operating budget and future years' forward estimates.

### **RELEVANT LEGISLATION**

23. The tender has been conducted in accordance with the Local Government Act 1993, the Local Government (General) Regulation 2005 and the City's Contracts Policy.
24. Attachments B and C are confidential in accordance with Section 10A(2)(C) and Section 10A(2)(D) of the Local Government Act 1993. Attachments B and C contain confidential commercial information of the tenderers and details of Council's tender evaluation and contingencies which, if disclosed, would:
- (a) confer a commercial advantage on a person with whom Council is conducting (or proposes to conduct) business; and
  - (b) prejudice the commercial position of the person who supplied it.
25. Discussion of the matter in an open meeting would, on balance, be contrary to the public interest because it would compromise Council's ability to negotiate fairly and commercially to achieve the best outcome for its ratepayers.

**CRITICAL DATES / TIME FRAMES**

26. If approved by Council, the time frame for this project is:

- |                               |                           |
|-------------------------------|---------------------------|
| (a) Execute contract          | December 2016             |
| (b) Design and implementation | January 2017 to June 2017 |
| (c) Maintenance period        | June 2017 to June 2020    |
| (d) Contract completion       | June 2020                 |

**PUBLIC CONSULTATION**

27. Site signage will be installed to notify the community of works being undertaken.

**DAVID RIORDAN**

Director City Operations

Fred Tilden, Parks Assets and Services Manager

Karen Sweeney, Acting Manager City Greening and Leisure