

3. **SCADA UPGRADE PROGRAMME**
EQUIPMENT PURCHASE CONTRACTS CZ0471 AND CZ0472

COMMITTEE RECOMMENDATIONS

That Council approve the award of:

- 1. Contract CZ0471 to Westburne Ruddy Electric Ltd., Ottawa, for the supply of Allen-Bradley Programmable Logic Controller and Remote Telemetry Unit (PLC/RTU) equipment for a total contract provision of \$511,493.**
- 2. Contract CZ0472 to CB Engineering (Eastern) Ltd., Laval, for the supply of Intellution HMI SCADA software for a total contract provision of \$210,095.**

DOCUMENTATION:

- 1. Environment and Transportation Commissioner's report dated 31 Mar 99 is immediately attached.**

REGION OF OTTAWA-CARLETON
RÉGION D'OTTAWA-CARLETON

REPORT
RAPPORT

Our File/N/Réf. Your File/V/Réf.	50 18-99-0003-V
DATE	31 March 1999
TO/DEST.	Co-ordinator Corporate Services and Economic Development Committee
FROM/EXP.	Environment and Transportation Commissioner
SUBJECT/OBJET	SCADA UPGRADE PROGRAMME EQUIPMENT PURCHASE CONTRACTS CZ0471 AND CZ0472

DEPARTMENTAL RECOMMENDATION

That the Corporate Services and Economic Development Committee and Council approve the award of:

- 1. Contract CZ0471 to Westburne Ruddy Electric Ltd., Ottawa, for the supply of Allen-Bradley Programmable Logic Controller and Remote Telemetry Unit (PLC/RTU) equipment for a total contract provision of \$511,493.**
- 2. Contract CZ0472 to CB Engineering (Eastern) Ltd., Laval, for the supply of Intellution HMI SCADA software for a total contract provision of \$210,095.**

INTRODUCTION

The SCADA Upgrade Programme is two and one-half months into the implementation stage (Phase 2) with the progress continuing on schedule for completion of each of the two design build contracts by December 1999. At this time, design work has progressed sufficiently to specify the required equipment for the project. This report requests approval of two contracts for the purchase of programmable logic controller/remote telemetry unit (PLC/RTU) hardware and software and SCADA human-machine interface (HMI) control software.

Phase 1 of the project defined the scope of work required to complete the project and included a review of the products available to the Region for the implementation of the SCADA Upgrade Programme. During Phase 1, the business case analysis concluded that the selection of Allen-Bradley PLC/RTU equipment and Intellution HMI software was the most appropriate and best met the goals, objective and needs of the project.

Supply Management Division, in conjunction with ETD staff requested quotations from the manufacturers authorized local distributors of these products: Westburne Ruddy Electric Ltd. for the PLC's/RTU's and CB Engineering (Eastern) Ltd. for the HMI software. To maintain competitive pricing, since Thorburn Penny Limited (TPL) could source these goods outside the Region's local distributor's area, the TPL design build team were also invited to bid.

RATIONALE

Bids were received on 26 March 1999 as follows:

<u>Vendor</u>	<u>PLC/RTU Hardware and Software</u>	<u>HMI Software</u>
Thorburn Penny Limited, Burlington	\$519,313.96	\$194,590.00
Westburne Ruddy Electric Ltd., Ottawa	\$434,573.77	
CB Engineering (Eastern) Ltd., Laval		\$178,500.00

Based on the submissions received and evaluation results, the Department recommends the award of the following contracts:

- CZ0471 to Westburne Ruddy Electric with a contract provision of \$434,574 plus a \$43,457 contingency for unforeseen variations and \$33,462 for the G.S.T. resulting in a total contract provision of \$511,493;
- CZ0472 to CB Engineering with a contract provision of \$178,500 plus a \$17,850 contingency for unforeseen variations and \$13,745 for the G.S.T. resulting in a total contract provision of \$210,095.

CONSULTATION

The public consultation process is not applicable.

EXPENDITURE JUSTIFICATION

Modifications to the existing SCADA system are required to replace aged communication and control equipment, provide additional automation at the Britannia Water Purification Plant filters and ensure Year 2000 compliance.

FINANCIAL STATEMENT

	922-41755	912-17954
	\$	\$
Approved Budget to Date	7,830,000	15,850,000
Total Paid and Committed	<u>(7,289,341)</u>	<u>(8,587,517)</u>
Balance Available	540,659	7,262,483
THIS REQUEST	<u>(511,493)</u>	<u>(210,095)</u>
Balance Remaining	<u>29,166</u>	<u>7,052,388</u>

Funds have been provided in the 1999 Capital Budget, Account No. 922-41755-3964, SCADA Upgrade Programme and Account No. 912-17954-3608, Year 2000, (Reference pages 85 and 349).

*Approved by
M.J.E. Sheflin, P.Eng.*

MS/jw

SUPPLY MANAGEMENT DIVISION

I concur,

*G. Ford on behalf of the
Finance Commissioner*

FINANCE DEPARTMENT COMMENT

Funds are available as indicated.

*Approved by T. Fedec
on behalf of the Finance Commissioner*