

Rivers Meet

Community | Culture | Fitness | Sport

Gillingham Community Leisure Trust
Riversmeet
Harding's Lane
Gillingham
Dorset
SP84HX
04-03-19

Tender Specification

RE: To provide a system which encompasses large savings against the current electricity use at the Riversmeet Sports centre?

Please find set out below, an outline specification and summary of the energy savings required within your tender.

1. Outline specification of energy saving works to be carried out at Riversmeet Leisure Centre

- (a) Installation of Air Source Heat Pumps or similar, to provide heating for pool water, pool ventilation and Hot Water Services
- (b) Improvements to pool ventilation system
- (c) Rebalancing of remaining existing air source heat pump system
- (d) Installation of control system for pool circulation pumps and water quality

2. Summary of the energy savings to be provided.

- (a) In summary, to provide a system which establishes savings of around £51,500+ per annum?
(See facts and figures of current use provided in section 8)
- (b) With our current set up (Mitsubishi) working at a seasonal performance of 2. We require a system (if Air source heat pumps) to improve this performance to 4.8
- (c) The new system will provide 80% of the energy used at site with the remaining 20% of the estimated energy use being provided by the current Mitsubishi set up. The remaining 20% will manage the buildings air conditioning only.

3. Improvements to pool ventilation

- (a) Riversmeet currently has a poolside ventilation system that is not efficient. The tender includes a revision of the existing system so as to make it efficient and effective via changes to the layout and input and extraction of fresh and heated air. The current air flow across the poolside must meet EU directives in relation to the amount of fresh air and recycled air in the pool hall. The changes must work with the existing Menerga unit.
- (b) The improvements will include as follows
 - new control system for the pool hall
 - a heat recovery system
 - new plate exchangers for the heat recovery system
 - Variable ventilation control and a loop air distribution with low level extract grilles to more efficiently remove evaporation and the by-products of the pool water dosing.

(Please note temporary ventilation for the period of works must be provided so as to avoid closure of the pool. This will require limited out of hours working).

4. Rebalancing of the existing system

- (a) The existing Mitsubishi units will stay as part of this project. The system is to be reprogrammed so as to supply 20% or as near as energy provision to the buildings cool and heated air supply via the air conditioning units within Riversmeet.
- (b) To reprogram all existing Mitsubishi units so they work to maximum efficiency throughout their lifecycle.
- (c) A 12 month warranty on the efficiencies of the reprogrammed Mitsubishi units based against current readings in their current state

5. Installation of control system for pool circulation pumps and water quality

- (a) Supply and installation of 3 x ABB invertors to the 3 main pumps to the pool circulation
- (b) Supply and install a system to control the invertors so as to establish substantial savings in relation to main pool circulation pumps
- (c) To remove and replace the existing pool dosing equipment with a system that intelligently works with the pool water and pool circulation pumps

6. Calculation of current and expected electricity savings at Riversmeet

Elliot Pickard our energy broker has stated that electricity costs will rise by 25%. For the analysis of costs and savings for the proposal, we have used the 24 hour average of 2018 electricity costs and those scheduled to start in October 2019, 11.1 p per kWh.

6.1 Analysis of RiversMeet electricity consumption

	kWh	Cost
(a) Current annual electricity consumption	750,000	£ 83,000
(b) Expected savings from new equipment installation	-375,000	£41,500
(c) Less non heat pump electricity use, approximately	180,000	£20,000
(d) Expected savings from new equipment installation	90,000	£10,000

(I) Expected electricity costs after installation £51,500 PA

(7) European Regional Development Fund grant and RHI subsidy

- Riversmeet will be the principal in these transactions, to qualify for EU grant and the RHI.
- The new system may qualify for a 40% grant from the European Regional Development Fund.
- This is subject to deduction of the European grant, spread over the 20 years of RHI payments.

(8) Financial Arrangements

The successful company will provide information on their financial position and the schedule of payments for the project during the tender processes. Low Carbon Dorset funding will be applied for but will only be paid, if the application is successful, after all payments to the installers have been made.

The total cost of the project will therefore be met in the first instance via Gillingham Community Leisure Trust which will make any large early part payments demanded by installers a factor in assessing tenders.

(9) Tender Assessment

All tenders submitted by the closing date will be assessed via the following weightings:

- Confidence 50%
- Quality 30%
- Cost 20%

This process will be done in line with the Low Carbon Dorset Procurement guide

(10) Other information required as per this process

The successful tender will provide Riversmeet with a full tender document plus the following.

Full Risk assessments and safe system of work which will include RAMS for all works.

(11) Contact Details

All tenders sent via email to alan.waistell@riversmeetgillingham.org

(12) Closing date **10pm 29th March 2019**