

Steve Watson

From: Steve Watson <Steve.Watson@treasury.qld.gov.au>
Sent: Wednesday, 6 November 2019 10:52 AM
To: Sch. 4(4)(6) - Disclosing personal information
Cc: Sch. 4(4)(6) - Disclosing personal information
Subject: RE: Amended Scope Estimate

Hi Sch. 4(4)(6) - Disclosing personal information

Thanks for waiting for us to progress this matter a little further. In line with your advice below, can you please confirm the \$50k budget would account for the following scope?

- Item 1 - Review Existing STP Reports/Recommendations
- Item 4 - STP Concept Design, Schedules and Capital Cost Estimates

Specifically the scope should include:

- Review and comment on the options analysis already undertaken by Cassowary Coast Regional Council and advise as to the suitability of the proposed 500EP solution
- Assist to develop any alternative treatment systems, if required
- Provide a report detailing the options and limitations of the site and existing infrastructure, and identifying the most suitable STP option
- Provide concept design of the recommended STP option servicing Port Hinchinbrook only with a view to potential expansion – (electrical, mechanical, civil, structural, hydraulic, and services etc.)
- Provide an indicate project schedule

There will be some urgency in the delivery of this work, ideally a report before the Christmas break, can you also please advise your availability to commence these works and a likely timeframe for delivery?

Apologies for the time pressure noting the delay. At this point we are investigating the procurement matters from our end also. Are you able to provide a formal offer detailing the scope and budget of \$50K on company letterhead?



Steve Watson
Principal Property Officer
Investment Transactions, Investment Facilitation and Partnerships

Department of State Development,
Manufacturing, Infrastructure and Planning

P 34527918

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LET'S CONNECT





From Sch. 4(4)(6) - Disclosing personal information@ganden.com.au>
Sent: Monday, 23 September 2019 2:58 PM
To: Steve Watson <Steve.Watson@dsmip.qld.gov.au>
Cc: Sch. 4(4)(6) - Disclosing personal information@ganden.com.au>; Ruth Grant <Ruth.Grant@dsmip.qld.gov.au>
Subject: Re: Amended Scope Estimate

Hi Steve,

I think it would be simpler to split the STP and reticulation scope items as per below which will allow Council to undertake their modelling and future planning for the expansion of the sewer reticulation if required. As the reticulation is a 'future' project and is not guaranteed, it would be difficult to establish the basis for the design.

The two areas include: -

- Sewage Treatment Plant (STP) - Items 1 & 4
- Items 2 & 3 - Reticulation - Items 2 & 3.

The reticulation values can feed into the STP, however, typical wastewater production values and historical data from the STP/existing reticulation can be used to size the upgraded plant.

MEDLI modelling would be in the order of \$5k (Quote i received today for a slightly larger plant) and would be included in the \$50k for items 1 & 4.

Please give me a call if you would like to discuss further.

Kind regards,

Sch. 4(4)(6) - Disclosing personal information Project Engineer - Water and Wastewater



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On Mon, 23 Sep 2019 at 14:35, Steve Watson <Steve.Watson@dsmip.qld.gov.au> wrote:

Thanks Sch. 4(4)(6) - Disclosing personal information

Noting that the desired output from the next body of work is a costed STP Concept Design, is there any benefit in undertaking items 1-3? If we are looking to maximise the return for funds expended, would we be better to simply undertake a Concept Design process from scratch (item 4) with a budget of \$50k, and undertake MEDLI modelling to understand the irrigation land requirement?



Steve Watson
A/Principal Property Officer

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From: Sch. 4(4)(6) - Disclosing personal information ganden.com.au
Sent: Monday, 23 September 2019 9:41 AM
To: Steve Watson <Steve.Watson@dsdmip.qld.gov.au>
Cc: Sch. 4(4)(6) - Disclosing personal information [@ganden.com.au](mailto:ganden.com.au); Ruth Grant <Ruth.Grant@dsdmip.qld.gov.au>
Subject: Re: Amended Scope Estimate

Hi Steve,

Indicative budget estimates for the scope of works described below as follows: -

Please note the above budget estimates excludes third party investigation costs (i.e. MEDLI, survey, geotechnical, flow monitoring etc.) and assumes all as-constructed data is available to be used for the infoworks modelling. No allowance has been made for electrical design in the budget estimates, high-level assessment and recommendations for upgrades will be provided.

Please let me know if you have any questions.

Kind regards,

Sch. 4(4)(6) - Disclosing personal information

Project Engineer - Water and Wastewater



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On Fri, 20 Sep 2019 at 13:01, Steve Watson <Steve.Watson@dsmip.qld.gov.au> wrote:

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Thanks for your assistance thus far. At this point our likely scope for any consultancy is likely to differ from a straight STP conceptual design proposal. Council have already developed conceptual design model for a 500EP STP to service on Port Hinchinbrook.

Council have a number of condition report and knowledge of the facility based on their maintaining of the facility for the last 12 months. We are hopeful that works to date will reduce the cost for the next phase report.

The scope we will most likely be looking at will be something like:

1. Review existing STP Replacement conceptual design and suggest improvements in capital expenditure and ongoing operational expenditure through differing design options (If any)
2. Review condition reports on existing Port Hinchinbrook reticulation network to verify repair cost estimates
3. Undertake additional design investigations to provide a report with conceptual designs for :
 - a. PH Only (Pressurised reticulation)
 - b. PH Only (Hybrid solution)
 - c. PH + Southern Cardwell/CBD (Pressurised reticulation)
 - d. PH + Southern Cardwell/CBD (Hybrid solution)
4. Provide a report including a costed STP conceptual design with a recommended option.

Council's proposed methodology for item 3 includes:

- A) Develop an indicative Infoworks ICM model of the existing sewerage system, with indicative gravity sewers to get flows to the SPS's and existing pressure pipework, based upon the design plans / overview plans provided with estimated pump curves. I don't seem to have any details of the outfall pipe to the STP from PS09 (this may be critical) and there may be some other gaps that need filling by a quick site inspection.
- B) CCRC to confirm any properties that are currently connected / constructed in addition to those on the provided aerial photo.
- C) Simulate model of current network with existing and build out scenarios based on "design" DWF rates and indicative WWF.
- D) Using the existing network as a base, develop a fully PSS model of the system using the existing infrastructure where possible and make high level assessment of additional required infrastructure.
- E) Wind back the PSS design model to only service existing properties and assess short term infrastructure needs (ie connecting pressure pipe connections around pumping stations, pressure pipe extensions / duplications etc)
- F) Develop say 2 hybrid models / designs that would effectively be possible staging strategies (eg decommission PS 04 and retrofit properties with PSS and say 2 other areas of CCRC choosing)
- G) Prepare a brief report detailing works undertaken with "concept plans", schedules and indicative capital costs

Again without fully scoping the work required, could you estimate a budget for the above works?



Steve Watson

A/Principal Property Officer

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08/11/2019

Steve Watson
Principal Property Officer
Department of State Development, Manufacturing, Infrastructure and Planning
Level 16, 1 William Street,
Brisbane QLD 4000

Dear Steve,

Re: Port Hinchinbrook STP – Review STP and Preparation of Concept Design

Thank you for the opportunity to provide a quotation for provision of professional engineering services to assist the Department of State Development, Manufacturing, Infrastructure and Planning (DSDMIP) with works associated with the rectification of the Port Hinchinbrook Sewage Treatment Plant (STP) including review of the existing STP documentation and preparation of a concept design.

GANDEN have previously provided support to DSDMIP regarding the STP replacement works and understand the project background and complexity regarding ownership. GANDEN understand the STP is in poor condition and is not operating as per its intended functionality and Cassowary Coast Regional Council (CCRC) have previously undertaken an options analysis and prepared a concept design for the proposed 500EP plant. DSDMIP require GANDEN to undertake a review of the options report and concept designs prepared by CCRC and provide recommendations or alternative solutions for the plant. Following the review, GANDEN will prepare a concept design for the recommended solution which may build on the current design by CCRC (if suitable) or propose an alternative.

Scope

GANDENs understanding of the scope of works is to: -

1. Facilitate a kick-off workshop with DSDMIP at 1 William Street, Brisbane;
2. Collation and review of existing information including condition assessments, planning reports and the Options Report and Concept Design undertaken by Cassowary Coast Regional Council;
3. Facilitate a workshop with Cassowary Coast Regional Council (CCRC) in Innisfail;
4. Undertake site inspection of the STP accompanied by CCRC stakeholders and operational staff;
5. Preparation of Technical Report capturing the review of existing options reports and concept design, including commentary on the condition of the STP, limitations of the site and identification of alternative treatment options;
6. Facilitation of Options Review Workshop at DSDMIP offices (1 William Street, Brisbane);
7. Concept Design of the preferred solution to service Port Hinchinbrook with consideration to expansion in the future (i.e. provision of connections / real estate for additional process units in the future if CCRC expand the sewer network; and

8. Provision of indicative Project Schedule for the Design and Construction of the upgrades.

Program

The following indicative program/durations for specific project stages are described below.

Project Stage	Est. Timeframe
Kickoff Meeting w/ DSDMIP at 1 William Street, Brisbane	Within 1 week of award
Meeting with CCRC in Innisfail followed by site inspection	Within 2 weeks of award
Options Review Report	Within 4 weeks of award
DSDMIP / CRC Review of Options Report & Recommendations	1 week following submission of report
Concept Design	4 weeks following endorsement of preferred option from DSDMIP/CCRC

Assumptions

GANDEN have made the following assumptions:

- DSDMIP will provide all record information, condition assessment reports, options and concept designs regarding the STP upgrade;
- The proposed program is based on receipt of all information at during the inception phase of the project;
- Concept Design Review Workshop at 1 William Street, Brisbane.

Exclusions

- Process design excluded;
- MEDLI modelling excluded;
- Electrical and controls design excluded;
- No allowance for preparation of design and construct specifications;
- Engagement and management of site investigations;
- Vendor equipment certification excluded;
- Site measurement, survey, 3D scans and service location excluded;
- Geotechnical investigations excluded;
- Confined space entry excluded;
- Attendance at design review meetings (no review meetings requested in specification. This can be provided, if required);
- Commissioning documentation or assistance excluded;
- No allowance for condition assessment of existing infrastructure; and
- No allowance for approvals.

Fees

GANDEN propose a lump sum fee of **\$48,570 (ex. GST)** for the detailed design of the scope as described above. A breakdown of the fee is provided below.

Project Stage	Fee (ex. GST)
Item 1 - Kickoff Meeting, Site Inspection and Workshop with CCRC & STP Review Report	\$13,800
Item 2 – Concept Design	\$34,770
Total (ex. GST)	\$48,570

Disbursements

Disbursements and expenses will be charged at cost + 20%.

Terms

Terms would be to DSDMIP general terms and conditions for subcontractors. Invoicing would be done monthly with 30 day payment terms.

Insurances

GANDEN holds the following insurances: -

- Professional Indemnity Insurance: \$10M Resource Underwriting Pacific Pty Ltd
- Public Liability Insurance: \$20M AAI Ltd T/A Vero Insurance
- WorkCover Queensland: Policy Number WCA130518901

Copies of Insurance Certificates of Currency are available in the link below:

<http://www.ganden.com.au/details/>

Quality, Environment, Health & Safety and Risk

All work will be performed to the GANDEN's Integrated Management System that has been third-party certified to be compliant to: -

- AS/NZS ISO 9001:2008 Quality Management Systems,
- AS/NZS ISO 14001:2004 Environmental Management Systems, and
- AS/NZS 4801:2001 Occupational Health and Safety Management.

It is the policy of GANDEN to comply with the terms of all relevant National, State and Territory legislation and the requirements of all of our clients. The certification certificates and GANDEN's policies for Quality, Environment and Occupational Health and Safety are available on our website at:

<http://www.ganden.com.au/quality-environment-safety-and-risk/>

I trust this is to your requirements. Please advise if you require additional information or elaboration on the above.

With regards,

GANDEN Engineers and Project Managers

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Project Engineer – Water and Wastewater

RTI RELEASE - DSDI