
Specifications

Request for Quotation (RFQ)

RFQ Title Level 1 Essential Energy Works for the Warialda Truck Wash

RFQ Number GWY_1819_Q03

Issue Date 21st December 2018

This document contains the specification and scope of works required by this RFQ. Proponents are to read and fully understand Council's requirements and propose a response that fully satisfies the detailed requirements.

Table of Contents

Table of Contents	2
1. Introduction	3
2. Scope of Works	3
3. General Requirements	5
4. Supply and Metering	9
5. Service Levels & Key Performance Indicators (KPI's)	11
6. Table of Attachments	12
Appendix 1 – Site Photos of Warialda Truck Wash	12

1. Introduction

The Principal has is currently seeking quotations for the construction of the Level 1 electrical work for the Warialda Truck Wash.

This Scope of Work provides information on the key details of the Principals requirements.

Respondents may provide pricing for one, or all portions of the scope of work outlined below.

The Principal is not obligated to accept Submissions from one Respondent only and will consider awarding a combination of contracts to Suppliers who are able to meet the Principals requirements.

2. Scope of Works

The newly proposed Truck Wash will be located east of Warialda, adjacent to the newly proposed alignment for the Warialda High Productivity Vehicle (HPV) Route. The route will connect the Gwydir Highway, east of Warialda, to Warialda Road, north of Warialda. The Truck Wash location is shown in Figure 3.1 below.

Photographs of the Truck Wash site are shown in the Appendix of this document.



Figure 1 – Proposed site cadastral locality map.

The work carried out shall comprise the manufacture, supply, delivery, installation, testing, commissioning and maintenance of the Electrical Services for this project.

All work shall be carried out in accordance with the Specification, Drawings and such details and instructions as are issued by the Superintendent or his representative during the progress of the work.

This Specification shall be read in conjunction with the Drawings, all of which are intended to be mutually explanatory. All work called for by the one even if not by the other, shall be fully executed.

The Drawings and Specification show the general intent and do not necessarily show all equipment required to complete the electrical works. Minor items as used in normally accepted trade practice with installations of this type and which are not specifically mentioned, shall be included in the Tender and installation.

2.1 Investigation

The contractor shall be responsible for ensuring that sufficient and adequate investigation is carried out for the Truck Wash design to meet the requirements of this specification. If, in the opinion of the contractor, insufficient information has been provided by the principal, the contractor shall arrange to carry out whatever additional investigation the contractor deems necessary.

Where investigations have been carried out by the principal, Respondents shall be solely responsible for determining whether or not the principal's investigation is both satisfactory and adequate for the design of the works and for interpreting the results.

If a Respondent is not satisfied with the principal's investigation, it shall include an allowance in its quoted price for any additional investigation the Respondent deems necessary.

2.2 Construction

2.2.1 In Scope

The work includes but is not limited to the following main elements:

- Demolition, disconnection and removal.
- Liaison with DNSP and Energy Retailer for the installation of new pole mount transformer, HV cables and metering.
- Substation works to DNSP requirements.

- Conduits and trenching for DNSP cables and Telecommunications Carrier cables.
- Mobile elevated work platforms.
- Lifting equipment such as crane, hoist and personnel lift.
- Underground utilities locating.
- Liaison with other trades.
- Maintenance Manuals.
- As-Installed Drawings.

2.2.2 Work In Other Trades

Related work in connection with the Electrical Services (performed by other trades) includes the following:

2.2.2.1 By Main Contractor/Builder

- Coordination of all trades.
- Site facilities and ablutions.
- Disposal of spoil & rubbish from site.
- Storage space for tools and materials on site.
- Site temporary water and electrical services.
- Fixed elevated work platforms, scaffolding, edge protection and the like.

3. General Requirements

3.1 General

This section outlines general requirements which are applicable to all sections of this specification and the works.

3.2 Standards and Regulations

Conform to the latest editions of all standards and regulations. The following standards and regulations are always applicable:

BCA	Building Code of Australia – latest issue before commencement of the building design
AS/NZS3000	Wiring Rules
AS CCM	Communication Cabling Manual for Telecommunications Systems
AS3008.1	For Electrical Cables
AS3012	For Construction and Demolition Sites
AS60529	For Degrees of Protection of Enclosures
AS/NZS3017	For Testing for Safety of Low Voltage Electrical Systems

State Workplace/Occupational Health and Safety Legislation

Electrical Safety Act and Regulations.

All other relevant Acts and Regulations, Local Authority Requirements, Australian Standards and Codes having jurisdiction.

3.3 Quality of Materials and Workmanship

All materials shall be new, of the best quality and of the class most suitable for the purpose specified.

All equipment shall have a verified history of successful use in the commercial environment. No prototype equipment will be accepted.

All work on the site shall be supervised by a competent tradesman supervisor who shall be present on site when requested by the Superintendent, for all phases of the project. A representative shall be nominated, who shall be present and responsible for the day to day running of the project.

The entire electrical installation shall be executed by licensed, experienced tradesmen, and shall be completed in a neat and first-class tradesman-like manner to the satisfaction of the Superintendent.

3.4 Uniformity

All fittings, accessories and equipment of the same type shall be of the same manufacture and catalogue number.

3.5 Manufacturer's Warranty

Provide manufacturer's warranty agreements where applicable.

Complete all necessary documentation on the Owner's behalf.

Include copies of warranties in the maintenance manuals.

3.6 Certification

Certify that the works have been installed to the requirements of all applicable rules and regulations.

3.7 Electromagnetic Compatibility

Ensure that the entire installation covered by this specification meets the Electromagnetic Compatibility requirements of the Australian Communications and Media Authority.

3.8 Site Conditions and Precautions

Where shutdowns of systems are required:

- Provide the Superintendent and Owner with written notification at least 5 days in advance of the intended shutdown time.
- Keep each shutdown time to a minimum.
- For each shutdown, complete the works and ensure that the systems are fully operational prior to leaving the site for the day.

Carry out the work in such a manner as to interfere as little as possible with other trades and persons having access rights.

Ensure that normal access ways within the buildings are unobstructed.

Check existing site services, both underground and overhead, prior to commencing work. Plan work practices based on these existing conditions to minimise risk and maximise workplace safety.

Wherever possible locate all existing services prior to excavation or working on existing structures.

3.9 Access to Site

No traffic access will be available to the general public at the proposed location of the new Truck Wash. Proposed HPV Route has not yet been fully constructed and will not be completed prior to the

completion of the Truck Wash concrete works. Current access to the site is via an unformed general vehicle track provided from the northern side of Gwydir Highway.

Provision for pedestrians is not required.

3.10 Exclusion Zones

Exclusion zones surrounding the work area will be delineated. Under no circumstances is any personnel or equipment to enter the exclusion zones without permission from the principal.

3.11 Packing Storage and Protection

Plant equipment, apparatus, materials and parts shall be delivered to the site in as- new condition and properly packed and protected against damage due to handling or adverse weather or other circumstances.

Arrange suitable storage areas for materials, plant and equipment. Storage shall be on purpose made racks, mounts, etc., to ensure no damage or deformation of items.

Any items suffering damage in transit or whilst on site shall be rejected and replaced without cost to the Contract.

3.12 Setting Out

The positioning of equipment as shown on the Drawings is approximate and diagrammatic only, and these Drawings shall not be used for exact setting out. Locations of all equipment shall be confirmed on site by means of a formal and documented process such as drawing mark up, dimensioning or on-site mark up with as a minimum the Superintendent and Contractor in attendance. This co-ordination process shall be the responsibility of the Contractor to organise and it shall be carried out prior to rough-in.

3.13 Clean Up

At completion clean all electrical equipment to as-new condition.

Remove all waste and debris on a continuous basis.

3.14 Practical Completion

Practical Completion will be granted after the following is provided:

- Finalisation of all testing and commissioning
- Certification that the installation complies with the specified requirements and all applicable Statutes and Standards
- Authorities approval obtained as required
- Preliminary instruction on safe plant operation has been provided
- Critical defects have been rectified
- Operation and Maintenance Manuals and As-Installed drawings have been provided

4. Supply and Metering

4.1 Definitions & Abbreviations

DNSP	Distribution Network Service Provider
NER	National Electricity Rules

4.2 General

Works are described within the attached documentation. All works are to be completed to the standards and guidelines of the DNSP.

4.3 Supply

Supply will be to Network Standards 3 phase, 230/400V, 50Hz, 4 wire, MEN earth system.

4.4 Distribution Network Services Provider (DNSP)

The DNSP is: **Essential Energy**

DNSP Project Reference (i.e. Work Request) Number: **116218**

4.5 Standards

Comply with all regulations, standards and requirements of the Local Electricity Act & Regulations, DNSP requirements, local council and BCA.

4.6 HV/LV Substation

The DNSP works are outlined within the tender forms as a part of this Level 1 specification these works will include the supply and install a HV Supply and provide a pole mount transformer rated at 100 kVA.

Liaise with the DNSP to ensure provision of all substation works and supply of electricity as required by the project program.

The DNSP works include but not limited to the following:

- Incoming HV and LV cables
- Pole mount transformer

This contractor shall supply and install the following for use by the DNSP:

- HV and LV connections, all to DNSP standards. Ensure all required inspections are carried out.
- Pole mount transformer foundations, paving, thresholds, access, retaining walls, earthing arrangement and any other works as required by the DNSP to enable installation of their pole mount substation transformer.

Engage suitably qualified specialist contractors to perform the work as required by the local DNSP.

4.7 Applications

Coordinate the actions required by all parties including owner, tenants, electricity retailer, metering provider and DNSP to ensure the electricity service and all required metering is installed to meet project timeframes.

This includes

- The completion and lodgement of all application forms
- Lodging and managing the electricity application on the DNSP's online portal

4.8 Phase Rotation

Check phase rotation with the DNSP and provide uniform phase rotation in the project cabling system.

4.9 Supply Shutdowns

Co-ordinate all shutdowns of supply with the Customer (Owner) and DNSP.

Arrange all shutdowns in advance (a minimum of 5 working days) so that alternative operational arrangements can be made.

Keep supply shutdowns to a minimum.

Pay all costs associated with shutdown of supply.

4.10 Statutory Requirements

4.10.1 General

The contractor shall comply with all the terms and conditions of any licence or permit obtained.

4.10.2 Environmental

The contractor shall comply with the recommendations of any environmental reports.

The contractor shall ensure erosion and sediment controls are in place throughout construction and are maintained after construction until the banks have stabilised, where disturbed by the contractor. The contractor shall prepare and implement a revegetation plan for all areas of soil disturbed or exposed as a result of the contractor's work, where applicable.

Notwithstanding any other provision in this clause, the contractor shall carry out all operations in such a manner as to avoid or minimise damage to the environment and in compliance with the Review of Environmental Factors that can be provided by the Principal.

4.11 Project Timelines

Respondents shall submit a proposed program of work with their Submission in Part 4. As a minimum, the program shall show the planned durations and details of the following activities:

- Investigation
- Mobilisation
- Construction
- Practical Completion
- Site Clean-Up

5. Service Levels & Key Performance Indicators (KPI's)

This contract will be performance managed by the project manager during regular site inspections.

6. Table of Attachments

The attached documents are provided to be read in conjunction with Part 3 to provide Respondents with complete detail relating to the requirements of the Submission.

Attachment No.	Attachment Title
1	17-1907 E001 - Legend, Notes, and Site Layout
2	17-1907 E002 - Electrical Reticulation
3	17-1907 E003 - Truck Wash Amenities
4	17-1907 E004 - Schematics

Appendix 1 – Site Photos of Warialda Truck Wash



Figure 2 – View of proposed site, taken from northern end looking south towards Gwydir Highway.



Figure 3 – View of southern end of proposed site.



Figure 4 – View of HPV Route alignment, Truck Wash location left. Taken from southern end looking north.

END OF PART 3