



TransGrid
Specification No. 1282
Waratah West 330/132 kV Substation
Installation of New 330 kV Transformer
Civil & Electrical Works

The following summary indicates the general nature of the work for which TransGrid desires tenders to be submitted. It is issued to enable an assessment to be made whether the Specification documents should be obtained from TransGrid for tendering purposes. It does not form part of the Specification and must not be included as part of your offer.

Extent of Work

The Principal is undertaking the installation of a second 330/132 kV 375 MVA transformer at Waratah West 330 kV substation and converting of existing 132 kV line to 330 kV operation to meet future demand. To accommodate the new transformer installation and line conversion, additional switch bays and minor line re-arrangements are required at Waratah West and Newcastle substations.

The Principal will place a single civil and electrical construction contract that covers works for both substations.

The Contractor shall be responsible for the supply, fabrication, transport to site and construction including all civil, structural, electrical, secondary systems and cabling works required for Waratah West and Newcastle substations.

This work shall include, but not be limited to, the following items:

1. Procurement and supply of all items, plant and equipment required to complete the works **except** for those Principal supplied items listed in 4 below
2. Collection, co-ordination, packaging, loading and unloading, transporting to site, storage and handling of all materials both Principal and Contractor supplied, required to complete the works (except delivery and/or erection of nominated Principal supplied equipment).
3. Construction of the works
4. The Principal will supply the following equipment and materials:
 - 330/132 kV 375 MVA Main Transformer
 - 11 kV/450 V 500 kVA Auxiliary Transformer
 - Neutral Earthing Reactor for Main Transformer
 - 330 kV Circuit breakers, complete with support structures
 - 330 kV Disconnectors, complete with support structures
 - 330 kV Associated Earth Switches
 - 330 kV Independent Earth Switch, complete with support structures
 - 330 kV Current Transformers (SF6)
 - 330 kV Capacitor Voltage Transformers

- 330 kV Line Traps
- 330 kV Surge Arrestors
- 330 kV Support Insulators
- 330 kV Tension and Suspension Insulators
- 132 kV Magnetic Voltage Transformers
- 132 kV Dead Tank Circuit breakers, complete with structures
- 132 kV Surge Arrestors
- 132 kV Disconnectors complete with support structures
- 132 kV Associated Earth Switches
- 132 kV Support Insulators
- 132 kV Tension and Suspension Insulators
- 37.5 kV Surge Arrestors
- 15 kV Surge Arrestors
- 11 kV Support Insulators
- New Control, Protection and Metering Panels

All materials to be supplied by the Principal will be available on site or for pick up from stores as required

5. Works **not in this Contract** which is to be carried out by the Principal includes the following:
 - Installation of the No. 1 330/132 kV 375 MVA transformer at Waratah West (HV and LV connections will remain the responsibility of the Contractor)
 - Final commissioning of transformer and switchbays
 - Erection of the following HV equipment
 - 330 kV and 132 kV circuit breakers
 - 330 kV and 132 kV disconnectors
 - 330 kV and 132 kV earth switches

Contract Period

Possession of Site: Within 2 months of the date of the Letter of Acceptance.

Practical Completion: Within 280 calendar days from the date of Possession of Site

Contract Closure

A Tenderer shall lodge its Tender:

- i) by utilising TransGrid's eTendering website at www.transgrid.com.au before 11.00 am Sydney time) on the closing date nominated, or
- ii) by hard-copy, in a sealed cover with the Specification number and title clearly endorsed thereon, in TransGrid's tender receptacle located in the Administration Building at:

Metropolitan Area Centre
200 Old Wallgrove Road
EASTERN CREEK NSW 2766

Postal Address: TransGrid
TENDER BOX
PO Box 87
HORSLEY PARK NSW 2175

before 11.00 am (Sydney time) on the closing date of **Tuesday 13th October 2009** or by despatching the same by prepaid post or courier service at such time as will permit the Tender reaching TransGrid's tender receptacle at the above address prior to tender closing time.

Tenderers lodging hard copies are required to lodge one (1) original and one (1) duplicate as well as a CD version of the complete Tender. The CD is to include the excel spreadsheets for both the technical and commercial schedules in the original format. Duplicates in "pdf" or other formats may also be submitted.

Site Inspection

A mandatory site inspection will be conducted as listed below to enable Tenderers to fully familiarise themselves with the site conditions.

Note: It is mandatory that all parties interested in tendering attend this site inspection.

All parties interested in attending the site inspection shall notify their attendance by telephoning Mr. Yousseph Ters on (02) 9620 0388.

Date	Time	Location
22 September 09	10:30 am	Waratah West 330kV Substation Wirra Crescent (Off University Drive), Waratah, NSW 2298
22 September 09	Upon completion of first inspection	Newcastle 330kV Substation Killingworth Road, Killingworth, NSW 2278

All persons attending the site inspection must wear long sleeve shirts, trousers, safety helmets, enclosed footwear and high visibility shirts or vests. Persons not so attired will not be allowed to enter the switchyard.

Geotechnical Reports

Three (3) Geotechnical Reports are available and are listed in the Part 3 Drawings & Reference Documents Index. Due to the size of these documents, they will **NOT** be available for downloading from the TransGrid e-tendering Website. These documents will be made available (on CD) to representatives of those Companies who have paid for the Specification at the Mandatory Site Meeting. If these reports are required earlier than this, please contact Mr Chris Jones on 02 9620 0268 or by e-mail to Chris.b.jones@transgrid.com.au <mailto:chris.b.jones@transgrid.com.au>

Further Information

The following contact officers will be available during normal business hours of the tendering period to address any concerns or enquiries that a tenderer may have in relation to work scope and specification requirements:

Technical Enquiries

Mr Hai Van Tran – Ph (02) 8204 6383 or,
E-mail: HaiVan.Tran@transgrid.com.au

Mr Yousseph Ters – Ph (02) 9620 0388 or,
Email: Yousseph.Ters@transgrid.com.au

Commercial Enquiries

Mr Chris Jones – Ph (02) 9620 0268 or,
Email: chris.b.jones@transgrid.com.au