



SPECIFICATION

for

TENDER NUMBER: T691920HUN

SUPPLY AND DELIVERY

OF

**STEEL REINFORCED CONCRETE (RRJ & FJ) and
FIBRE REINFORCED CONCRETE (FRC)
STORMWATER PIPES
&
ASSOCIATED CONCRETE PRODUCTS**

SINGLE SOURCE by Council



ISO 9001:2008
Lic: QEC27783

SPECIFICATION

TENDER NUMBER: T691920HUN

“The statement of purposes set out in this SPECIFICATION is not intended to be an exhaustive list of the purposes required by this agreement”.

1. SCOPE

For the supply and delivery of

Category 1: Steel reinforced concrete (Rubber Ring Joint & Flush Joint) stormwater pipes and associated concrete products and

Category 2: Fibre reinforced concrete (FRC) stormwater pipes

Supplied to nominated participating Councils. This tender is to be awarded to one (1) supplier PER CATEGORY for the period stated at Clause 2.3 in the Deed of Agreement. Tenders are to be submitted for all the specified items for each Category tendered for.

The participating Hunter Councils are:

• Dungog Shire	• Lake Macquarie City
• Maitland City	• Mid- Western Regional
• Singleton	• Upper Hunter Shire

The participating Orana Councils are:

• Bogan Shire	• Bourke Shire
• Brewarrina Shire	• Cobar Shire
• Coonamble Shire	• Gilgandra Shire
• Narromine Shire	• Walgett Shire
• Warren Shire	• Warrumbungle Shire

Participating Councils' expenditure is approximately \$ 2 million over the term of the contract.

**No assurances that this figure will be achieved or exceeded during the Term of this Contract.*

2. PRICING

2.1 All prices are to be shown as GST exclusive in the columns provided.

2.2 Pricing of the relevant Schedules Tender Price shall indicate both of the following:

- Standard product compliant with the Australian Standards as indicated in 3.1
- RMS Specification R11 – Edition 5/Revision 5 May 2019 compliant product, and
- RMS Specification R16 – Edition 6/Revision 1 June 2010 Precast Reinforced Box Culverts

2.3 Pricing will include delivery and unloading for orders over 9 Tonnes.

2.4 Orders less than 9 Tonnes may be subject to delivery charges as per the Tender Price Schedule Delivery Tab and suppliers are to nominate their delivery rates if applicable.

Suppliers are to note that the Tender Price Schedule Delivery Tab must be completed to submit a conforming tender and that no variations or alternatives will be accepted. For delivery at no cost to Council, insert the words “Free of Charge” in the corresponding cell.

Delivery and unloading shall be the responsibility of the Service Provider. Deliveries may be to either work sites or Council Depots and shall (where applicable) be inclusive of the cost of unloading and placing onto ground for all items nominated in the Schedule Tender Price.

The Tendered Unit Prices shall apply equally to each purchase order issued by a participating Council.

3. STANDARDS

The Standards for Rubber Ring Jointed Stormwater Pipes in Steel and Fibre Reinforced Concrete Class 2(X), 3(X) and 4(X) shall be;

AS/NZ 4058 -	2007 Precast concrete pipes (pressure and non-pressure)
AS/NZ 3725 -	2007 Loads on buried concrete pipes.
AS/NZ 3725 -	Supp 1:2007 Design for installation of buried concrete pipes - Commentary
AS 1646 -	2018 Elastomeric seals for waterworks purposes
AS 3600 –	2018 Concrete Structures
AS 3600 -	2009/Amdt 1- 2018
AS 3600 –	Supp 1 – 2014
AS 4139 -	2018 Fibre reinforced concrete pipes and fittings

3.1 PRODUCT STORMWATER PIPES CONCRETE STEEL REINFORCED)

Along with the relevant additional requirements of RMS Specification R11 - Stormwater Drainage and R16 – Box Culverts as and when requested by Council. Councils shall place orders in lineal metres at multiples of standard lengths.

Manufacturing Standards SRC

All SRC stormwater pipes shall be manufactured to the relevant Australian Standards. The manufacturer shall maintain a Quality System in accordance with ISO 9001 as a means of ensuring that the pipe components conform to the requirements of the Specification.

The following requirements pursuant to Appendix B in AS 4058 shall apply to RMS R11 Non-compliant pipe:

- (a) the pipes are to be used for drainage;
- (b) size range is 300 - 1200 and classes are 2(X), specific requirements will be shown on the Purchase Order;
- (c) the effective pipe length shall be stated in the tender schedules;
- (d) pipe jacking is not applicable;
- (e) the type of jointing must be flexible rubber ring, spigot and socket joints;
- (f) rubber ring joints must comply with AS 1646;
- (g) load classes will be specified on the Purchase Order;
- (h) the pipes are not subject to internal pressure;
- (i) pressure pipes not applicable;
- (j) clear cover to reinforcement must be based on normal environments (Table 3.1 in AS 4058);
- (k) the maximum limit of water absorption must be 6.0 percent;
- (l) no tests other than required tests;
- (m) the place and rate of delivery will be specified on the Purchase Order;
- (n) the place of acceptance shall be the place of delivery specified on the Purchase Order;
- (o) the type of cement shall be GB;
- (p) admixtures must be as specified in AS 4058;
- (q) finish and repair materials must be as specified in AS 4058;
- (r) no other special treatments or requirements.

The manufacturing requirements for RMS R11 Compliant pipes and R16 – Box Culverts shall be as specified in RMS QA Specification R11 – Storm water Drainage.

Limitations on Use

Should the participating Council require pipeline products with a performance capability that exceeds that of those products listed in the Schedules Tender Price then such products shall be deemed to fall outside the scope of this tender. In such cases the participating Council reserves the right to obtain separate quotes for supply of these products.

Special Lifting Devices – SLD (optional)

The provision of special lifting devices (SLD) such as the “Swift Lift” is acceptable but not a requirement of this supply. Selection of these will be made on both price and site requirements. The tenderer shall indicate on the Schedule Tender Price which pipes are fitted with special lifting devices (SLD).

3.2 PRODUCT – HEADWALLS SINGLE PIPE

Precast Head-walls shall comply with AS 3600 and **MUST BE FITTED** with two 1.3 tonne minimum Reid Swift-lift anchors (or an approved equivalent).

The required sizes/types are itemised in the Schedule Tender Price. The tenderer shall submit detailed drawings for each product type tendered. Drawings shall show all relevant dimensions, size and placement of steel reinforcement and load ratings.

3.3 PRODUCT – PRECAST LINTELS

Precast Kerb Lintels shall comply with AS 3600. Precast Kerb Lintels **MUST BE FITTED** with two 1.3 tonne Reid Swift-lift anchors (or an approved equivalent).

The required sizes/types are itemised in the Schedule Tender Price. The tenderer shall submit detailed drawings for each product type tendered. Drawings shall show all relevant dimensions, size and placement of steel reinforcement and design wheel load ratings.

3.4 PRODUCT – PRECAST KERB ENTRY UNITS

Precast Kerb Entry Units shall comply with AS 3600. Precast Kerb Entry Units **MUST BE FITTED** with two 1.3 tonne Reid Swift-lift anchors (or an approved equivalent).

The required sizes/types are itemised in the Schedule Tender Price. The tenderer shall submit detailed drawings for each product type tendered. Drawings shall show all relevant dimensions, size and placement of steel reinforcement and design wheel load ratings including grate specification.

3.5 PRODUCT STORMWATER PIPES CONCRETE FIBRE REINFORCED

Fibre reinforced concrete (FRC) pipes shall comply with AS 4139-2003 Fibre Reinforced Concrete Pipes and Fittings. All joints for pipes shall be of the rubber ring (FRC) joint type; either single ring or the “supertite” double-vee rubber ring joint complying with AS 1646. For larger diameters up to 600mm the jointing systems shall be single rubber ring joint, spigot and socket joint as specified

Junctions in FRC pipes shall be installed using a pre-fabricated bend in accordance with the appropriate manufacturer’s specification.

Manufacturing Standards FRC

All FRC stormwater pipes shall be manufactured to the relevant Australian Standards. The manufacturer shall maintain a Quality System in accordance with ISO 9001 as a means of ensuring that the pipe components conform to the requirements of the Specification.

The following requirements pursuant to Appendix A in AS 4139 shall apply to RMS R11 pipe:

- (a) pipes are to be used for drainage,
- (b) jointing must be flexible, elastomeric, double V-ring joints complying with AS 1646 (Flush or butt joints must only be used for the first pipe when extending existing pipes).
- (c) tests required are:
 - load tests in accordance with Clause 10.1 in AS 4139. One pipe per 100 or part thereof of each size and class is to be load tested; and
 - dimensions and tolerances tests in accordance with Clause 9 of AS 4139. One pipe per 50 pipes or part thereof of each size and class is to be tested for internal diameter, wall thickness, pipe length, squareness of ends, and straightness
- (d) sizes range from 225mm to 750mm in classes 2, 3 and 4 (note 225mm does not come in class 3)
- (e) a Manufacturer’s Statement including all the information listed in Clause 12 of AS 4139 must be supplied to the Member Council;

- (f) In addition, the design diameter as defined in AS 4139 must not be less than 95% of the nominal size shown on Drawings for all classes of pipes and as set out in table.

3.6 PRODUCT – PRECAST BOX CULVERTS

The definitions of AS1597.1-2010 and AS 1597.2 apply in addition to R16 – Box Culverts. The following interpretations apply to terms used in this Specification:

- Small Culvert Unit: Culvert unit with a span up to 1200 mm and a height up to 1200 mm
- Large Culvert Unit: Culvert unit with a span from 1500 mm and up to 4200 mm and a height up to 4200 mm
- 1.22m and 2.44m Depth.

Design, test, manufacture and deliver all culverts and link slabs in accordance with AS1597.1-2010 and AS 1597.2

Design assurance and verification must comply with the requirements of Clause 7.3 of ISO 9001.

Provide certification demonstrating that the design complies with all the requirements of this Specification.

The required sizes/types are itemised in the Schedule Tender Price. The tenderer shall submit detailed drawings for each product type tendered. Drawings shall show all relevant dimensions, size

4. SAFETY MANAGEMENT

4.1 Vehicles

From the commencement of this tender all vehicles over 5t GVM, and plant and equipment entering Member Councils work sites are to meet RMS requirements with regards to having at least one "AMBER FLASHING LIGHT" that is active whenever they are travelling on or operating on the site. The flashing light is to be mounted as near as possible to the top of the plant and clearly visible in normal daylight at a distance of 200 metres in all directions.

No deliveries shall be permitted without prior arrangements being made with the Member Council's Job Site Staff nominated on the purchase order. Under no circumstances shall deliveries be made without a Member Council's representative being on site to instruct, receive and document condition of supply.

4.2 Safe Work Method Statement

The tenderer shall complete the Schedule OHS&R questionnaire and submit copies of Safe Work Method statements relating to the requirements of this tender including but not limited to:

- Loading, securing and chocking of product onto transport vehicle,
- Unloading of product from transport vehicle onto ground at delivery site,
- Stacking, chocking and securing of product on ground at delivery site.

4.3 Personal Protective Equipment

The Service Provider shall ensure that delivery drivers wear the Personal Protective Equipment and Clothing as necessary for the work to be performed. High Visibility Clothing or a fluorescent safety vest will be required for all employees delivering to road works or in the vicinity of mobile plant and equipment. The Company name is to be clearly identified on this clothing.

5. WARRANTY

The manufacturer shall warrant each item against defective workmanship or materials and against defects in the manufacturing and handling processes for a period of 18 months from the date of delivery or 12 months from the date of installation whichever occurs first.

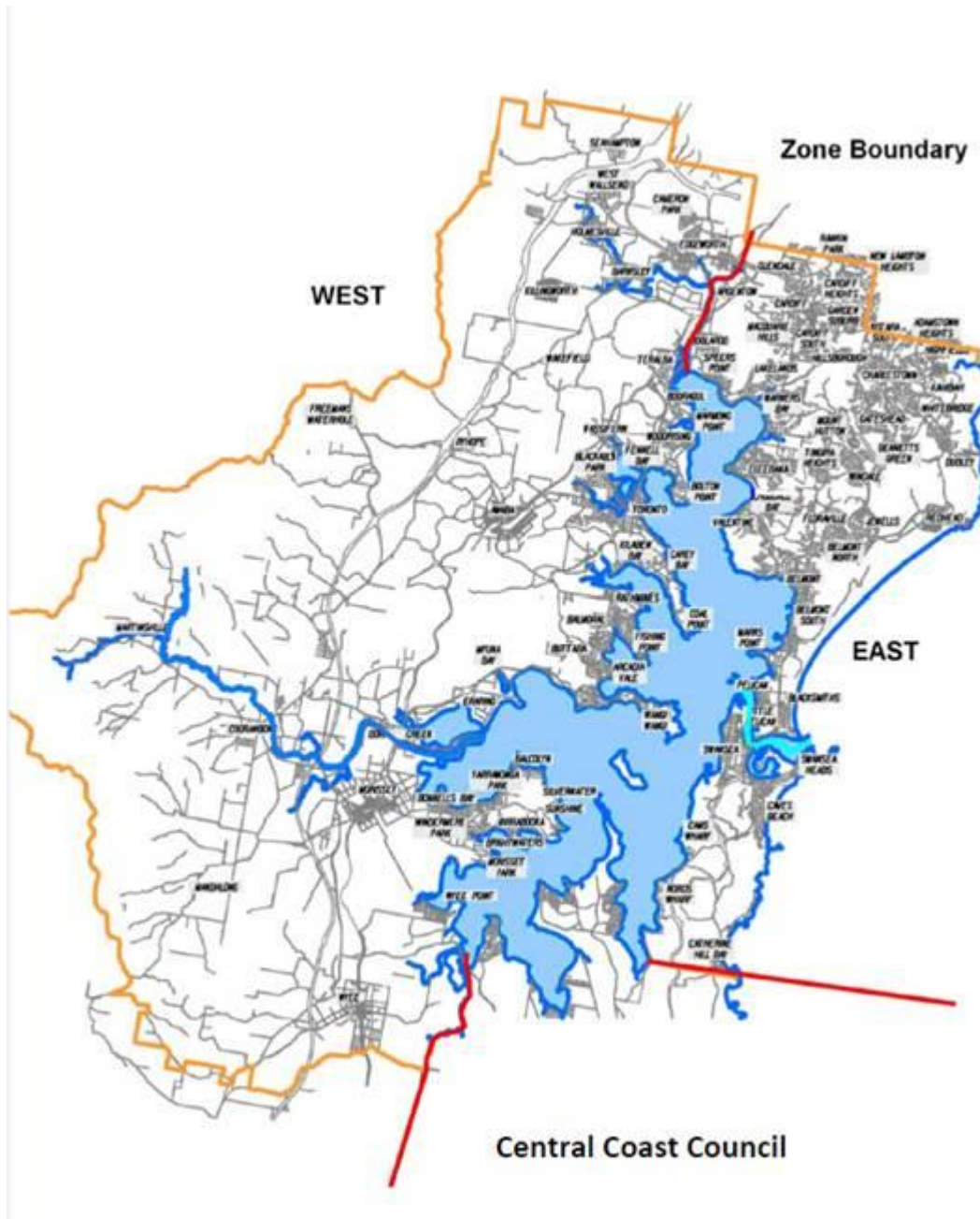
6. COMPLIANCE CERTIFICATION

If requested by Council, the Service Provider must supply a signed statement certifying the items delivered comply with this Specification and all the referenced RMS Specifications and Australian Standards, with each delivery.

7. DELIVERY SCHEDULE

The tenderer shall submit delivery rates (where applicable) in the format shown in the Price Schedule under Delivery. Any other method will be considered ‘non-conforming’ and rated zero in the evaluation process.

- 7.1** Delivery shall be F.O.G. (Free on Ground) to all nominated delivery sites for orders over 9 Tonnes.
- 7.2** Delivery charges shall be nominated by the Tonnage category per order, **not** per tonne. If no freight is to be charged then insert F.O.G.
- 7.3** Orders less than 9 Tonnes shall be subject to the delivery rates indicated in Tender Price Schedules under Delivery Tender Schedule Price.
- 7.4** The participating Council may choose to nominate a carrier at time of order in the purchase order.
- 7.5** Lake Macquarie City Council (LMCC) Delivery Schedule
 - 7.5.1** LMCC delivery zones are split into the East and the West Zone. The East and the West Zones share a common boundary to the north and is bounded by Cockle Creek and Brush Creek that intersects Main Road 527 at Macdonald’s Restaurant, Edgeworth. A line then continues in a northerly direction towards the City Boundary.
 - 7.5.2** The East Zone is from the common boundary through to the Wyong Local Government Area on the eastern side of Lake Macquarie.
 - 7.5.3** The West Zone is from the common boundary through to the Wyong Local Government Area on the western side of Lake Macquarie.
 - 7.5.4** Figure 1 shows the boundaries described above.



8. HEAVY VEHICLE NATIONAL LAW – CHAIN OF RESPONSIBILITY

Every party in the heavy vehicle (gross vehicle mass greater than 4.5 tonnes) transport supply chain has a duty to ensure the safety of their transport activities. In practical terms, this primary duty represents an obligation to eliminate or minimise potential harm or loss (risk) by doing all that is reasonably practicable to ensure safety. Service Providers are to ensure that safety management systems and controls are in place, such as business practices, training, procedures and review processes that:

- i) identify, assess, evaluate, and control risk.
- ii) manage compliance with speed, fatigue, mass, dimension, loading and vehicle standards requirements through identified best practice.
- iii) involve regular reporting, including to executive officers.
- iii) document or record actions taken to manage safety.