

CONTRACT NO. 30 13 2306

**PROVISION OF FENCING SERVICES
FOR HUME CITY COUNCIL**

SPECIFICATION

1. INTRODUCTION

Council is calling tenders for the provision of Timber Paling, Farm Fencing Colorbond,, and Chainmesh Fencing.

2. SCOPE OF SERVICE -TIMBER PALING FENCE

2.1 Removal of Existing Fencing

The Contractor shall be required to be responsible for the removal of existing fencing and for clearing the work site. The cost of fence pull down and cleanup shall be included as a separate item in each quotation.

The Contractor must remove the pulled down fencing materials and clear the site prior to commencing construction of a new fence. Pulled down fencing and related materials must not be stored on Council owned land or reserves overnight. All materials must be removed prior to close of business each day.

Where the manner in which storage of pulled down fence and related materials results in the deposition of waste from other sources by unrelated parties, the Contractor shall also be responsible for legal disposal of that waste at no additional cost.

All pulled down fence and related materials become the property and responsibility of the Contractor unless otherwise stated in writing by the Supervisor prior to commencement of the work. All surplus materials belonging to the Contractor is to be removed from the site following completion of the works.

Any variations to the contract price must be approved by the supervisor prior to proceeding with the works.

2.2 New Fencing

For new fencing the Contractor is required to set out and supply all materials, plant and labour for the construction of either 1630 mm high or 1900mm high paling fences, as determined by the Supervisor, on various sites which will be specified during the contract period.

2.3 Establishment of boundaries

Where the correct location of the title property boundaries is not clearly established a licensed land surveyor must be engaged to determine the correct boundary line. It is the responsibility of the Contractor to ensure that the proposed fence line is along the title correct boundary line.

The cost of any licensed land surveyor boundary establishment survey shall be borne by the Council and the adjoining property owner. The

Supervisor must approve the engagement of a licensed land surveyor prior to his or her engagement to carry out a boundary survey.

2.4 Fencing Repairs

Fences requiring repairs will be specified to the Contractor during the contract period. All repaired fencing must be erected on the alignments of the fences being replaced unless otherwise directed by the Supervisor. Where this presents practical or other difficulties, the Contractor must seek direction from the Supervisor.

2.5 Materials to Be Used

The following requirements apply to materials used in the repair of existing fences and the construction of new fences.

2.5.1 Posts

- All timber posts shall be of **Red Gum** and durability with minimum cross-sectional dimensions 125mm X 75mm.
- Fence posts up to 1630mm in height are to be founded at least 600 mm minimum into the ground.
- Fence posts up to 1900mm in height are to be founded at 800mm minimum into the ground.
- Fence posts holes are to be not less than 250mm in diameter and backfilled with well mixed cement stabilised soil the cement content of which shall be not less than 1/2 of a standard 20kg bag of cement per post hole.
- Posts shall be set straight and plumb to tolerances not exceeding plus or minus 10 mm.
- Post tops are to be splayed to shed water.
- Checkouts are to be chiselled out, not vertically sawn, and must offer a neat fit to the rails. Where checkouts are not neat, the contractor must ensure that the top and middle rails are tight against the top of the checkout, and the bottom rails are tight to the bottom of the checkout.
- Spacing between posts is not to exceed 2700mm.

2.5.2 Palings

- Treated Pine
- Treated Pine must conform to the Australian Standard 1604-1993.
- Paling sizes shall be as follows;
- Base Palings 150mm X 12mm
- Over Palings 100mm X 12mm
- The type of palings to be used on specific jobs will be determined by the Supervisor following consideration of the paling type in nearby fences.
- Fixing
Base Palings are to be nailed using two (2) X 50mm minimum length flat head nails at each rail position.
Over Palings are to be nailed using two (2) X 65mm minimum length flat head nails at each rail position.
Note: Under no circumstances must "T" head nails be used for the fixing of any palings and care must be taken to ensure the nail gun pressure is always correctly set.
- Spacing
Spacing between base palings is be 50mm.
Spacing between over palings is be 100mm.

2.5.3 Rails

Unseasoned Hardwood must be used and must comply with the following nominal sizes:

Top: 75mm X 50mm nominal size.

Centre: 75mm X 38mm nominal size.

Bottom: 75mm X 50mm nominal size.

2.5.4 Fixing of Rails

Rails must be fitted in a manner to ensure that the outside face of the rail is flush with the outside face of the post. Over checking or under checking of posts must be rectified before a fence will be considered as satisfactorily completed.

2.5.5 Treated Pine Plinths

Timber used for plinths must be to a minimum nominal size of 150mm X 25mm and of the following timber types:

CCA Treated Radiata Pine AS 1604.

Plinths must be nailed using two (2) X 75mm flathead nails at each post. Joins in plinths shall be butt joined over the centre line of a post to a maximum tolerance of plus or minus 10mm.

3. SCOPE OF SERVICE - FARM FENCING

3.1 Posts

Posts to be treated pine 1800mm x 100mm at 6000mm centers to be founded at 600mm into the ground the post holes are to be no less than 200mm in diameter to be back filled with cement and stabilized soil.

3.2 Stay Assemblies

Posts to be 1800mm x 150mm to be founded at 600mm into the ground, the post holes are to be no less than 250mm in diameter and to be back filled with cement and stabilized soil. Rails to be 2700mm x150 mm diameter fixed to the posts and strained diagonally.

3.3 Fencing Wire

High tensile 2.5mm straining wire fixed to each post with a 40mm galvanized staple. Allowance must be made of 6mm on each staple for the straining wire to be able to move during wet and dry conditions or an 8mm pilot hole drilled through the posts for the straining wire to be threaded through each post.

3.4 Droppers - Star Picket's

Two wooden droppers to be fixed to the straining wires at 2000mm centre's between each posts. Straining wire to be threaded through each star picket at 2000mm centre's between each posts.

3.5 Farm Gates

Farm gates to be no less than 3600mm in length **unless otherwise instructed by Council Asset Protection officer** and to be fixed to the straining post with a threaded bolt nut and washer.

4. SCOPE OF SERVICE - COLORBOND FENCING

4.1 Establishment of boundaries

Where the correct location of the title property boundaries is not clearly established a licensed land surveyor must be engaged to determine the correct boundary line. It is the responsibility of the Contractor to ensure that the proposed fence line is along the title correct boundary line.

The cost of any licensed land surveyor boundary establishment survey shall be borne by the Council and the adjoining property owner. The Supervisor must approve the engagement of a licensed land surveyor prior to his or her engagement to carry out a boundary survey.

4.2 Materials

Colorbond fencing materials shall be manufactured from genuine **BHP Steel** Colorbond materials in accordance with the **BHP Lysaght** steel design specifications. Any variation from the BHP Steel design specifications must be approved in writing by the supervisor.

4.3 Installation

Colorbond fencing shall be designed and installed to ensure compliance with the **BHP Lysaght** Colorbond fencing installation guide available from BHP Steel. The depth of the posts should be 600mm deep. Any variation from the Colorbond fencing installation guide must be approved in writing by the supervisor.

Council recommends the use of BlueScope Steel Limited Colorbond fencing Specifications for all Colorbond fencing installations. Please refer to <http://www.steel.com.au/products/coated-steel/colorbond-steel/colorbond-steel-fencing> for all Material and Installation information.

5. SCOPE OF SERVICE –CHAIN MESH FENCING

5.1 Removal of Existing Fencing

The Contractor shall, if required by the Supervisor, be responsible for the removal of existing fencing and/or clearing the work site. The cost of the pull down and removal of fencing if varying from the contract price will be agreed between the contractor and the supervisor before the commencement of the works.

All salvaged materials become the property of the Contractor unless otherwise stated in writing by the Supervisor prior to commencement of the work. All surplus material belonging to the Contractor is to be removed from the site.

5.2 Establishment of boundaries

Where the correct location of the title property boundaries is not clearly established a licensed land surveyor must be engaged to determine the correct boundary line. It is the responsibility of the Contractor to ensure that the proposed fence line is along the title correct boundary line.

The cost of any licensed land surveyor boundary establishment survey shall be borne by the Council and the adjoining property owner. The Supervisor must approve the engagement of a licensed land surveyor prior to his or her engagement to carry out a boundary survey.

5.3 Fencing Repairs

Fences requiring repair will be specified to the Contractor during the contract period. All repaired fencing must be erected on the alignments of the fences being replaced unless otherwise directed by the Supervisor. Where this presents practical or other difficulties, the Contractor must seek direction from the Supervisor.

5.4 Materials To Be Used

The following requirements apply to materials used in the construction of new fencing and the repair of existing fences.

5.4.1 Posts

- Galvanised Pipe
- All posts used are to be made of galvanised pipe.
- End Corner Posts
Size: 50mm
- Intermediate Posts
Size: 40mm
- Bracing Posts

Size: 32mm

- Top Rail
Size: 32mm
- Post Caps
Must be galvanised and fitted to all corner posts and intermediate posts.
Spacing between posts shall not exceed 2700mm. If the ground is unstable the contractor must seek the direction of the supervisor as to the post spacings.

5.4.2 Chain Mesh

- Chain Mesh to be galvanised or plastic coated:
Size: 50mm x 2..50mm
- Straining Cables
Straining cables to be positioned at top, centre and bottom of posts
Size: 3.5mm
- Lacing Wire
Wire to match fence under construction
Size: 1.5mm
- Footings
Posts are to be set plumb and embedded to a minimum depth of 900mm.
Post holes shall be bored to a diameter of 250mm. Holes are to be refilled with Batch Mix 20mpa concrete, allowing for a minimum of 50mm of concrete to be placed under the post.

Any exposed concrete surfaces must be sloped away from the post to allow for shedding of water.

Wherever possible, concrete should be left undisturbed for a period of at least 24 hours except in locations subject to high winds where the minimum period must be 48 hours.

Once fixed, all posts must be checked for rigidity and any looseness detected must be rectified.

Where the ground is sloping or unstable, extra posts should be used to take account of such conditions.

6. VARIATIONS FROM STANDARD CONSTRUCTION

Where conditions vary from standard construction the contractor must obtain the approval of the supervisor prior to proceeding with the works.

The contractor must assure that adjoining fencing is secured to the new work to form one continuous line.

7. MANAGEMENT AND SUPERVISION OF THE CONTRACT

The Contractors will be responsible to Hume City Council's Asset Protection Officer ("**the Supervisor**") who will also be the Contractors(s) point of contact for any matters relating to the Contract. All work carried out by the Contractors must be to the satisfaction of the Supervisor.

8. CONSUMER PRICE INDEX (CPI)

Each of the rates specified in Schedule 1 – Form of Tender will be adjusted on each anniversary of the Commencement Date in accordance with the following formula:

$$ACR = CR \times [1 + (CPI B - CPI A) / CPI A]$$

Where:

ACR = the adjusted rate:

CR = the rate specified in Schedule 2, in Tender Information & Conditions of Tender;

CPI A = The Consumer Price Index All Groups Melbourne Number issued by the Australian Bureau of Statistics for the commencement quarter of the contract and;

CPI B = the most recent Consumer Price Index All Groups Melbourne Number issued by the Australian Bureau of Statistics at the time of the adjustment.

9. CONDUCT AND BEHAVIOUR OF CONTRACTOR'S EMPLOYEES

9.1 Prohibited Behaviour

The Contractor shall ensure that no employee, agent or sub-contractor -

- consumes any alcoholic beverage, is intoxicated or is under the influence of any drug which could impede his or her ability to safely and efficiently perform the Service, while engaged in the performance of the Service or any related activities.

9.2 Conduct of Employees

The Contractor shall ensure that all employees, agents and sub-contractors -

- conduct themselves towards Councillors of the Council, Council Staff and all members of the public in a civil and inoffensive manner; and
- carry out their duties at all times with as little inconvenience and disturbance to others as possible and without causing any nuisance.

9.3 Directions of Supervisor

The Supervisor may by notice to the Contractor require that any employee, agent or sub-contractor of the Contractor not be employed or continue to be engaged in the performance of the Service or any related activities.

10. PROPERTY

10.1 Damage to Property

The Contractor shall at once remedy any damage done by its employees, agents or sub-contractors to any property of the Council or any other person. Should the Contractor fail to do so, the Supervisor may effect the necessary repairs or pay compensation to the owner of the property. The cost of effecting any necessary repairs or the amount of any compensation shall be paid on demand by the Contractor to the Council or may be deducted by the Council from any monies due or becoming due to the Contractor under this Contract at the option of the Council.

10.2 Cost of Damage

The Supervisor shall determine the cost of effecting any necessary repairs or the amount of compensation to be paid to the owner of any property.

11. DEFECTS LIABILITY

The contractor agrees to a defects liability period of 12 months from the date of practical completion of the works in accordance with, Australian Standard 4000 - 1997, General Conditions of Contract, Clause 35.