SPECIFICATION FOR ARBORICULTURAL WORKS

WORKING ARRANGEMENTS: GENERAL

1.0. WORK CATEGORIES

1.1. All instructions under this Contract will be given in writing by the Authorised Officer to the Contractor except in the case of Emergency Works where the instruction may be given orally and will be confirmed in writing.

1.2. Each such instruction will indicate the time within which the work must be completed as follows:

   - Category 1 Tasks: those, which must be completed within 2 hours (Emergency Works).
   - Category 2 Tasks: those, which must be completed within 7 days.
   - Category 3 Tasks: those, which must be completed within 30 days.

The Contractor will be given as much notice as possible of tasks to be carried out with the intention of providing an even workload throughout the year. Failure to complete the tasks within the allocated time period could lead to action under Special Condition (B) of the Contract.

1.3. Hours of Work

All work shall be carried out during normal working hours i.e. 0800 - 1730 hours, Monday to Friday, except for emergency call-outs. Working outside of these hours may only be undertaken after prior consultation with the Authorised Officer and a minimum notice of 48 hours shall be required.

2.0. EMERGENCY CALL-OUTS

2.1. The Contractor shall supply all emergency call-out cover outside normal working hours, including Bank Holidays.

2.2. The Authorised Officer shall be the first point of contact from the Emergency Service. They will assess the situation and contact the Contractor with information on the required number of operators and machinery necessary to make safe and clear the emergency. Emergency Tasks shall be completed within 2 hours of notification by the Authorised Officer, with arisings from such operations being cleared within 12 hours. Once the Authorised Officer has informed the Contractor of the necessary requirements to deal with the emergency, the response time by the Contractor shall be 30 minutes.
2.3. **Extreme Weather:** the Authorised Officer may give the Contractor notice of impending extreme weather. Upon notification, the Contractor shall arrange for a minimum of 5 operatives plus the Contract Manager, together with vehicle and equipment to assemble at a central point and await further instructions from the Authorised Officer. Contractors will be given and be expected to understand the Hastings Borough Council’s ‘Arboricultural Section Emergency Plan’. Major tree incidents will be tackled with reference to this Plan.

2.4. The hourly rate given within the Schedule of Rates will be a total payment all tasks undertaken as emergency works at all sites. Timed from the team's arrival on site to the time when they are stood down by the Authorised Officer.

3.0. **COMMUNICATIONS**

3.1. The Contractor shall ensure that the Contract Manager is contactable by the Authorised Officer for 24 hours a day by telephone and that the response time to any call shall be 10 minutes.

3.2. All gangs working under this contract shall be contactable via a mobile telephone linking the Contract Manager to his employees. This is to enable the Authorised Officer to obtain a prompt response from the Contractor when required.

4.0. **ACCESS**

4.1. Access to the sites shall be by public roads or other defined routes, which shall be identified by the Authorised Officer either on plans or on site. The Contractor will be responsible for ensuring that his operatives' vehicles and those of suppliers and others employed on the works use only agreed routes.

4.2. Where it is necessary to enter or cross land which is not the Council's property, or which is in the possession of another party, the Contractor shall be responsible for making his own arrangements for access.

4.3. The Contractor must ensure that where vehicular access has been gained to a site by unlocking a gate or removing a bollard or barrier, the access is re-secured and locked where applicable immediately behind the Contractor's vehicles using the access.

4.4. The Contractor shall ensure that site transport directly or indirectly involved in the works shall at all times when leaving the site be in a state of cleanliness to prevent the fouling of public or private roads leading to and from the site.

5.0. **STATUTORY SERVICES**

5.1. The Contractor shall be held responsible for locating and marking the position of all statutory undertakers apparatus and private supplies e.g. water, gas, electricity, telephone, mains and service connections and is to arrange with the appropriate authority for the disconnection of services and
removal of fittings and equipment where required and also for reconnection.

6.0. **WORK IN PUBLIC PLACES**

6.1. Where works are to be undertaken at locations to which the public have access, the Contractor shall take every precaution to ensure their safety. This shall include providing sufficient staff to restrict or redirect the public and erecting signs, cones, barriers and the like as necessary.

6.2. The Contractor shall not leave any Plant unattended on any location without the prior consent of the Authorised Officer in which case it will be left in a safe condition with adequate warning signs, lamps, cones and the like provided to safeguard the public.

7.0. **PROTECTION OF TREES, SHRUBS AND OTHER SITE FEATURES**

7.1. The Contractor shall take all reasonable precautions against damage to the remaining trees and shrubs on the area or in any neighboring woods, or to buildings, walls, gates, fences, hedges, drains and other public services, watercourses, roads, rides and tracks in the vicinity of his work and shall be liable for any damages thereto due to any act of default of the Contractor and shall make good any damage.

7.2. At no time shall the Contractor use climbing irons (spikes) when climbing live trees, except where those trees are to be felled. Standing trees must not be used as an anchor point for winches unless prior consent is received from the Authorised Officer.

7.3. Ruts and damage to grass areas shall be made good before the Contractor leaves the site and to the satisfaction of the Authorised Officer.

7.4. The Contractor shall be responsible for all expenditure incurred for any reinstatements or replacement required following works.

8.0. **DISPOSAL OF TIMBER AND OTHER ARISINGS**

8.1. **Brushwood (Up to 125mm diameter)**

Unless otherwise specified by the Authorised Officer or the site is inaccessible, all brushwood shall be chipped and the chippings delivered to one or more sites within the Borough as directed by the Authorised Officer and at no extra cost to the Council. Chippings shall have an average size of 50mm.

8.2. **Cordwood and Timber (in excess of 125mm diameter)**

Unless otherwise specified by the Authorised Officer, the contractor shall dispose of all cordwood and timber. If the council requires such wood to be retained the Authorised Officer will inform the Contractor of the specifications the wood will be cut to and the site, if any, to which it is to be removed. This site may be different from that implicated in 8.1. The Contractor shall ensure that any timber or cordwood left at a specified storage site shall be stacked in a safe and neat condition. The contractor should note that the Council does not have available facilities for the storage of cordwood and in most instances the contractor should ensure
arrangements are in place for the disposal of such material.

8.3. All arisings, including stakes, ties and tree guards (where applicable) shall be removed from the site daily unless prior permission to do otherwise is received from the Authorised Officer. Where permission is give to leave arisings, timber and cordwood on site, the Contractor shall be fully responsible for ensuring that they are left tidy and in a safe and secure condition. Any cordwood and timber not required by the Council will be removed by the contractor and disposed of by him at his own expense.

8.4. All removal and disposal must be carried out safely and the movement and disposal of material must comply with all relevant legislation which is in force at the time of the work being carried out.

8.5. Any tipping fees or other charges or costs incurred in the removal or disposal of any arisings shall be met fully by the Contractor.

8.6. The working site shall be left clean, tidy and in a safe condition at the end of each working day.

9.0. HEALTH AND SAFETY

9.1. General

The Contractor in all operations will comply at his own expense with all current and future relevant codes, Statutory Instruments, European legislation, regulations and statutes relating to health, safety and welfare in forestry, arboriculture, landscape and agricultural operations.

9.2. Work Wear

Whilst in any work location all of the Contractor's employees shall wear rubber soled steel toecap safety boots or steel toe capped Wellingtons with a sole pattern, which gives a good grip on slippery surfaces.

9.3. The Authorised Officer requires there to be two experienced operatives on site at all times whilst either chainsaw or chipping machine are employed. At least one grounds man must be equipped and able to climb in order to undertake aerial rescue should the need arise.

9.4. Reflective jackets shall be worn at all times when engaged in work on public highways.

9.5. First Aid

At least one member of a work team should have a recognised First Aid qualification.

9.6. Use of Chemicals

In this contract, the term "pesticides" includes products such as herbicides, fungicides and insecticides. The use, application and storage of pesticides shall be carried out in accordance with the provisions laid down in the Control of Pesticides Regulations 1986, Food and Environment Protection Act 1985 and the Control of Substances Hazardous to Health Regulations 1988 and as defined in the Provisional Code of Practice for the Use of Pesticides in Forestry 1989 and subsequent reviews of this legislation.
9.7. The Contractor and all his employees involved in the storage, transport or application of any pesticide shall be fully trained and certificated to undertake the required operation. The Contractor shall supply the Authorised Officer with a list of employees who hold the relevant certificates, together with copies of those certificates before the commencement of the contract. The Contractor shall keep the Authorised Officer updated should any employee gain certification during the course of this Contract.

9.8. Should the use of any pesticide result in any damage whatsoever to any turf, plants, trees or soil other than those intended specifically to be controlled by the produce or to any other flora or fauna within or outside the area to be treated, then the Contractor shall be held fully liable and shall fully indemnify the Council accordingly.

9.9. The Contractor shall ensure that all operatives involved with the application of pesticides are supplied with, and wear at all times, appropriate protective clothing complying with the recommendations for the chemical being handled.

9.10. All operators must be supplied with and must use appropriate equipment to apply the pesticides concerned.

9.11. All pesticides shall be kept safe under lock and key when not in use. Empty containers shall be removed from site, washed out and disposed of safely. Suitable records shall be kept for all stock and its use.

9.12. Use of pesticides shall only be undertaken during suitable weather conditions.

9.13. The Contractor shall take all necessary precautions to protect rivers, streams, waterways and the like against silting, erosion and pollution which may be likely to damage water supplies or cause injury to fish or plant life.

9.14. Operators shall have sufficient water supply for drinking, personal washing, washing down equipment and diluting pesticides as necessary.

9.15. The only pesticides used will be those specified on the Approved List. The pesticide must be applied exactly according to the manufacturers written instructions.

9.16. **Fires**

No fires shall be lit in any park, garden, open space or woodland, without the prior consent of the Authorised Officer. Where fires are permitted, the Contractor shall:-

- ensure that the fire is controlled to prevent damage to surrounding trees and shrubs (crown, canopy, stem and root) and property and to prevent nuisance from smoke.

- ensure that the fire is sited more than 16m from the centre of a carriageway and that fires are not lit under or near to overhead power lines.

- ensure that the fire is not allowed to burn unattended at any time. At the end of the working day, the Contractor must completely extinguish and liberally douse with water all fires so that when
going off site, the fire site cannot constitute a danger.

- ensure that on completion of all works, the fire site shall be tidied nearly and all non combustible debris removed to a legal tip.
- that the local Fire Brigade is informed of the location of fires before they are lit.

9.17. **Noise**

The greatest care shall be taken by the Contractor to keep noise to a minimum at all times, having regard for nearby offices, houses and flats and he shall abide by the requirements of the 1989 Noise at Work Regulations and the working hours requirements in paragraph 1.3.

9.18. **Tools & Equipment**

The Contractor may use such tools and equipment as deemed suitable. All tools shall be kept sharp and in serviceable condition.

9.19. The Contractor shall ensure that all staff engaged in the use of chainsaws hold the appropriate Chainsaw Certification for the task being undertaken.

9.20. **Defects in Trees**

The Contractor shall not be expected to have foreknowledge of less obvious defects in trees but, where applicable, he shall report any defects to the Authorised Officer to agree on any necessary variation to the work. Failure to report any obvious defects may result in the Contractor being liable should any claim against the Council be made.
WORKING ARRANGEMENTS: SPECIFIC

10.0. **HIGHWAYS**

10.1. This work is carried out under an agreement with the Highway Authority, East Sussex County Council, which can be terminated by either party giving 12 months notice. If either party gives such notice, Condition No. 4 of the General Contract Conditions may apply.

10.2. Where work is to be carried out adjacent to a public highway, the Contractor shall arrange the works so as to avoid traffic congestion and public inconvenience and shall make all necessary arrangements with Police, Fire Brigade, Ambulance Services and Bus Companies. The Contractor shall be responsible for all prior erection of notices and "no parking" cones where clear working sites are required.

10.3. The Contractor shall comply with the recommendations contained in the booklet “Safety at Street Works and Road Works - A Code of Practice” (1992) issued by HMSO.

11.0. **CEMETERIES**

11.1. The Contractor shall give at least 48 hours notice of any work to be carried out in any cemetery, whether open or closed, to the Cemetery Manager. The Contractor on arrival at the Cemetery should contact the Cemetery Manager. The Contractor shall stop work if requested either by the Cemetery Manager or Authorised Officer should any burials be taking place in the cemeteries in which he is working at the time. Contact numbers are given at the end of this Section.

12.0. **POND WORKS**

12.1. The Contractor may occasionally (1 or 2 days per year), be required to carry out works on or around areas of water which shall require use of a boat. In such instances, the Contractor shall be required undertake an appropriate risk assessment, to supply a boat in a suitable and safe condition and also to provide all necessary safety equipment e.g. life jackets.

13.0. **RESIDENTIAL AREAS**

13.1. Where work may affect occupiers living in an area e.g. if access to their property is required, the Contractor must give 48 hours notice to the relevant occupants.
14.0. **PRUNING**

14.1. **General**

Subject to General Condition 16, unless specified otherwise, tree works should conform to British Standard 3998: 1989 - Tree Work, or any subsequent revision thereof.

14.2. When carrying out work to trees, growth shall be cut approximately one metre clear of any street lamps, or cables of suspended street lighting, traffic signs, traffic lights, street name plates etc. Growth should be cut approximately 2 metres clear of any window or adjacent property. Growth shall be lifted 3 metres clear over pavements and 5.5 metres clear over carriageways, or as directed by the Authorised Officer.

14.3. In removing growth, branches shall be cut back to another branch or limb to give a natural appearance. All final cuts should be just outside the branch collar. Where there is no collar present, the angle of the cut should be the mirror image of the branch bark ridge (see Figure 1)

14.4. **Appearance of Trees**

Each tree shall be individually considered and the general description of the work to be done shall be interpreted in relation to the shape, size, character, condition and species of each tree. All operations carried out shall be completed so as to leave each specimen with a pleasing and well-balanced appearance, compatible with safety. The Authorised Officer shall determine this.

14.5. **Timing**

The Contractor shall ensure that the species indicated below are not pruned otherwise than during the circumstances specified:-

<table>
<thead>
<tr>
<th>Genera</th>
<th>Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corlyus spp</td>
<td>)</td>
</tr>
<tr>
<td>Acer spp</td>
<td>)</td>
</tr>
<tr>
<td>Betula spp</td>
<td>) Only to be pruned in full leaf and before</td>
</tr>
<tr>
<td>Alnus spp</td>
<td>) October</td>
</tr>
<tr>
<td>Juglans spp</td>
<td>)</td>
</tr>
<tr>
<td>Carpinus spp</td>
<td>)</td>
</tr>
</tbody>
</table>

For the purposes of this contract, other genera can be pruned all year round.

14.6 Contractors must comply with the Wildlife and Countryside Act 1990, or any subsequent legislation, particularly with regards to the restrictions placed on works that could result in disturbance to nesting birds and/or bats.
14.7. **Formative Pruning**

This operation shall comprise the selective pruning of double leadered trees if appropriate, to leave the most suitable single leading stem, the removal of basal growth, epicormic stem growth and crossing branches, the removal of dead, diseased or damaged wood and/or the pruning back of long side branches as appropriate to the individual tree in order to promote the development of a well formed, balanced specimen of the desired shape and habit. All pruning cuts shall be made in accordance with the requirements of Section 14. Where minor damage has occurred to the bark of the tree, the Contractor shall cleanly cut any dead, damaged or loose bark back to undamaged tissue or the line of the newly formed callus growth. In either case, the size of the wound shall be kept to a minimum and its final shape, as far as possible, shall be rounded or elliptical and free of sharp corners.

14.8. **Crown Thinning**

The works specified in the Schedule of Rates shall indicate the removal of a percentage of the branches, which for the purposes of this Contract, shall be 30%. When assessing the work and pricing the Schedules, the Contractor shall allow for the thinning of the whole tree including the ends of branches and trailers where applicable, by the amount specified. This may involve the use of extended polesaws and pruners. All the work shall call for skilled trained operatives capable of assessing the amount of wood to be removed as work proceeds. The thinning of the trees shall be done by the removal of whole branches, side branches, or small growths back to the main branch limb or trunk to give a natural appearance. (See Figure 2). The work shall include removal of all epicormic and basal sucker growth.

14.9. **Removal of Deadwood**

Unless specified otherwise, this refers to the removal of all dead, diseased or damaged wood throughout the tree in excess of 25mm diameter as well as all other unwanted objects (such as windblown rubbish, tree houses, redundant cable bracing) and where these can be removed without inflicting any undue damage to the tree concerned. Climbing plants shall be removed or cut where specified by the Authorised Officer. All snags which are left from fallen deadwood or previous pruning shall be removed to the main branch or limb except where they have completely callused over. This shall include any crossing branches where the upper branch shall be removed.

14.10. **Reducing and Shaping**

Work shall be expressed as a percentage reduction of the trees crown height (see Figure 3). In broadleaved trees, the complete outline dimension of the canopy shall be reduced, from the tip of the leader and the other limbs and branches to the main stem by shortening growth to an acceptable branch, twig or bud to leave a flowing silhouette. Crown reduction shall retain an overall appearance typical for the species or variety of tree concerned.
14.11. **Crown Lifting**

The object of this work is to increase the distance between the ground and the lowest branch thereby allowing the safe passage of pedestrians and vehicles. This shall entail the removal of the lower branches from the main stem or branch system up to a specified height or line as indicated in Section 14.1. All branches shall be removed as in Section 14.2. Any trees to which an order has been placed to crown lift shall also have all epicormic and basal growth removed as in Sections 14.12 and 14.13.

14.12. **Pollarding**

The whole branch system of certain trees shall be removed to leave a clean stem at a height specified by the Authorised Officer. The final cut surface will be smooth and even and slightly angled to facilitate the run-off of surface water.

14.13. **Removal of Epicormic Shoots**

Used in this context, epicormic shoots are all shoots, including basal suckers arising from the main trunk or branch structure. These shall be removed flush to the main stem or parent branch. This operation shall be carried out up to a height of 3m above ground level and shall include any branches on the main stem up to this height where the presence of such branches in considered not conductive to the correct development of the crown of the tree.


Used in this context, basal suckers are shoots arising from the base of the tree, its roots or the graft union. These shall be removed from source and not cut off at ground level.

14.15. **Clearance of Public Utilities**

Works of this nature should be undertaken to the specifications detailed in Section 14.2 inclusive of the general requirement to lift crowns over pavements and/or carriageways.
FIGURE 1: CORRECT PRUNING POSITION

FIGURE 2: CROWN THINNING
15.0. **TREE FELLING**

15.1. **Straight Felling**

This operation shall consist of the felling of the whole tree to within 100mm of ground level. Where the stump is not to be removed, it shall be cut off smoothly as close to ground level as possible. Where the tree is growing in a hedge or fence line, the Authorised Officer may require that the stump be left level with the top of the hedge or fence or any other required height in which case the final cut shall leave the stump with a smooth, level surface. Where necessary, trees to be felled shall be marked with paint by the Authorised Officer. The operation will include the removal and disposal of all arisings (if required) as directed by the Authorised Officer.

15.2. **Fell and Grind Stump**

This operation combines the specifications given in Sections 16.

15.3. **Site Damage**

Special care shall be taken to avoid damage to underground or overground services, footpaths and adjacent property. Underground structures, which could be directly damaged during felling, should be identified and protected from such damage.

15.4. **Clearing Fallen and/or Hanging Branches**

Where fallen or hanging branches are removed, the Contractor will ensure that any remaining branch stub on the parent tree is pruned to an appropriate branch junction or the main trunk. The final cut should, where possible, conform to the specification given in Section 14.3.
16.0. **STUMP REMOVAL**

16.1. **Stump Grinding**

16.1.1. This operation shall consist of the removal by mechanical grinding machine of the whole stump area including buttress and surface roots arising from or near to its base. Unless otherwise directed by the Authorised Officer, this operation shall be to a minimum depth of 300mm below ground. Grinding shall be undertaken by pedestrian grinder unless approval is given by the Authorised Officer for alternative machinery to be used.

16.2. **Stump Grubbing**

16.2.1. This operation shall consist of the complete removal of the stump including buttress and surface roots arising from or near to its base by means of excavation and/or winching. The Authorised Officer will determine the depth of grubbing in each case.

16.3. **Underground Services**

The Contractor shall take great care not to damage underground services during his grinding/grubbing works and he should note that it is his responsibility to locate and identify all such services in the vicinity of his work prior to commencement.

16.4. **Disposal of Arisings**

All arisings from the grubbing or grinding operations shall be removed to a legal tip. None of the arisings shall be used as part of the backfill for the hole resulting from the operations unless specifically authorised by the Authorised Officer.

16.5. **Reinstatement of Holes**

Holes arising from stump grinding or grubbing operations shall be treated as follows:

- all arisings from the chipping operation to be removed (see Section 16.4.)
- the hole to be backfilled and compacted with topsoil according to BS3882 : 2007. Soil to be supplied by the Contractor.
- topsoil should be of medium texture, neutral to slightly acid and stone free.
- topsoil should be raised to 100mm proud of the surface of all holes to allow for settlement.

16.6. **Stump Treatment**

16.6.1. Broadleaves: in order to prevent re-growth the stumps of broadleaf trees shall be treated with an approved herbicide.

Conifers: in order to prevent infection by Heterobasidion annosum (Syn: Fomes annosus), the stump of conifers shall be treated with an approved herbicide.
16.6.2. Before the application of herbicide, the cut surface of the stump should be scored with a chainsaw in order to expose a greater surface area to the chemical being applied.

17.0. **STATUTES AND REGULATIONS**

17.1. The Contractor must ensure that where relevant legislation and Standards exist they are followed during the implementation of the contract. When such documents are revised, replaced, or superseded such revisions are to be adopted and executed within the contract. An indicative current list of such publications is appended to this specification.

18.0. **CONTACT NUMBERS**

<table>
<thead>
<tr>
<th>NAME</th>
<th>DESIGNATION</th>
<th>TELEPHONE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virginia Gilbert</td>
<td>Authorised Officer</td>
<td>01424 451956</td>
</tr>
<tr>
<td>Clive Mayhew</td>
<td>Contract Compliance Manager</td>
<td>01424 451104</td>
</tr>
<tr>
<td>George Ford</td>
<td>Cemetery Manager</td>
<td>01424 781300</td>
</tr>
<tr>
<td>Transco</td>
<td>Plant Protection Team (Emergency Gas escapes)</td>
<td>0800 111999</td>
</tr>
<tr>
<td>Seeboard</td>
<td>Eastbourne Mains Office</td>
<td>0800 0568888</td>
</tr>
<tr>
<td>British Telecom</td>
<td>Area Office</td>
<td>08009 173993</td>
</tr>
<tr>
<td>Southern Water</td>
<td>Brighton Office</td>
<td>01273 606766</td>
</tr>
<tr>
<td>Police</td>
<td></td>
<td>0845 6070999</td>
</tr>
<tr>
<td>Fire Brigade</td>
<td></td>
<td>01273 406406</td>
</tr>
</tbody>
</table>
19.0. **APPROVED LIST OF MATERIALS AND CHEMICALS**

1. The list of materials and chemicals are those from which Hastings Borough Council requires to be used during the period of the contract.

2. Prior written approval for the use of alternative or additional materials or chemicals must be obtained from the Authorised Officer prior to use of that alternative or addition.

3. Hastings Borough Council accepts that during the period of the contract, new brands and improved products will come onto the market. Prior written approval from the Authorised Officer must be obtained before any ground application is made.

### APPROVED LIST OF CHEMICALS

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>USE</th>
<th>SUPPLIER</th>
</tr>
</thead>
</table>
| Glyphosate | a) Total, contact herbicide for weeding around newly planted trees  
             b) Broadleaf stump treatment | Monsanto PLC  
                                    PO Box 53  
                                    Lane End Road  
                                    High Wycombe  
                                    Bucks HP12 4HL  
                                    Tel: (01494) 613203 |
| Urea | Conifer stump treatment | Omex Agriculture Ltd  
                               Bardney Airfield  
                               Tupholme  
                               Lincs LN3 5TP  
                               Tel: (01526) 398661 |
| Asulam | Bracken control | Rhone-Poulenc Agriculture  
                             Fyfield Road  
                             Ongar  
                             Essex CM5 OHW  
                             Tel: (01277) 301301 |
## APPROVED LIST OF MATERIALS

This list is given as a guide of approved materials. The Authorised Officer prior to installation must approve all materials actually used.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>SPECIFICATION</th>
</tr>
</thead>
</table>
| Tree Stakes                     | 6’ (1800mm) long  
|                                 | 3” (75mm) diameter  
|                                 | Sweet Chestnut                                                                                     |
| Tree Shelter Stakes (1.2m shelter) | 5’ (1.5m) long  
|                                 | 1” (25mm) square, hardwood with 2 ties                                                          |
| Tree Shelter Stakes (0.6m shelter) | 3’ (0.9m) long  
|                                 | 1” (25mm) square, hardwood with 2 ties                                                          |
| Shrub guard Stakes              | 3’ (0.9m) long  
|                                 | 1” (25mm) square, hardwood                                                                        |
| Tree Shelter                    | 2’ (0.6m) or 4’ (1.2m) cylindrical, minimum diameter 80mm, max diameter 114mm made of twin-walled polypropelene either brown or green. Outer facing rim, supported by 2 ties |
| Shrub guards                    | 2’ (0.6m) high 200mm top diameter 185mm basal diameter Polyester reinforced plastic. Brown tinted transparent. 2 stakes per guard, 2 ties per stake. |
| Tree Tie                        | a) Plastic belt (25mm wide) with buckle and spacers.                                               |
|                                 | b) Hessian roll fixed with galvanized staples                                                       |
| Spiral Rabbit Guard             | 24” (600mm) high black, brown, green.                                                              |
| Compost                         | Peat free tree planting compost                                                                     |