

Item No.	Cattle Specific Equipment	Specification	Standard Cost
SG25	Auto Calf Feeder with Washing Facility	<p>Programmable milk feeder for calves, capable of individually feeding and monitoring calf intake. Able to alert if calf is not drinking or drinking less than normal.</p> <p>Must automatically self-clean feeding tube and teat between each feeding.</p> <p>Capable of feeding up to 40 calves individually.</p> <p>Cost is for one feed station.</p>	£8,116
SG26	Additional Feed Station	<p>Purchase of additional feed station for programmable milk feed for calves capable of feeding up to 40 calves.</p> <p>Up to maximum of 3 additional feed stations can be applied for.</p>	£2,179
R2-SG66	EID Panel (race) Reader for cattle	<p>Pair of antenna with built in reader, with bluetooth connection.</p> <p>Must be able to read HDX and FDX B tags.</p>	£1,466

Sheep Specific Equipment

Item No.	Sheep Specific Equipment	Specification	Standard Cost
SG27	Mobile Sheep Handling Systems	<p>System capable of holding and handling a minimum of 250 sheep with the aim to allow farmers to handle sheep on blocks of ground away from the main holding.</p> <p>Must include a gathering pen, forcing pen, drafting race, dosing race, side pens, the ability to fit footbath.</p> <p>The integrated trailer must be road legal.</p> <p>All metal work must be either galvanised or powder coated. Painted crushes are not eligible.</p>	£7,487
SG28	Fixed Sheep Handling Systems	<p>Fixed sheep handling system consisting of a gathering pen, forcing pen, drafting race, dosing race, side pens and the ability to fit plastic footbath.</p> <p>System capable of holding a minimum of 100 sheep.</p> <p>All metal work must be either galvanised or powder coated. Painted crushes are not eligible.</p>	£3,337
SG29	Electronic Weigh Crate	<p>Electronic weigh crate with Electronic Weigh System.</p> <p>The weigh system will be a digital weighing device with the ability to record individual animals and track the live weight gains.</p> <p>The system will be compatible for use with EID.</p>	£4,832
SG30	Sheep Handler	<p>Crate or clamp style sheep handler for efficiently dagging, dosing and sorting sheep.</p>	£3,273

Item No.	Sheep Specific Equipment	Specification	Standard Cost
R2-SG67	Automatic Weighing and Drafting Crate for sheep	<p>Using EID tags the crate must be able to automatically draft out animals based on current weight or any electronically saved data on the animal e.g. age, sex.</p> <p>The system must include auto drafting crate and control system with fully automated entry and exit gates.</p> <p>Note weigh bars and panel reader (weigh head or recorder are included within this spec).</p>	£9,199
R2-SG68	Sheep Conveyor	Static twin belt conveyor designed for routine sheep work both 3m minimum length.	£9,700
R2-SG69	EID Panel (race) Reader for sheep	<p>Single antenna with static / race reader, with bluetooth connection.</p> <p>Must be able to read HDX and FDX B tags.</p>	£1,328

Pig Specific Equipment

Item No.	Pig Specific Equipment	Specification	Standard Cost
SG31	Fixed Handling System for Pigs	<p>Suitable for adaptation in either indoor or outdoor production systems.</p> <p>Pig race consisting of sheeted hurdles and gates. This must be a system which provides a safe and effective race-way handling facility capable of being connected to a weighing facility; either an individual crate or a weighing platform.</p> <p>The system can be erected to suit the requirements of the individual site and must consist of the following minimum specification: 2m x 1m hurdles lined with 9mm Stokbord sheeting or similar recycled sheeted material capable of cleaning and disinfection (Qty:10), 2m wide drafting gate in frame 50mm x 50mm, also Stokbord sheeted, race joiner, coupling pins (Qty:20).</p> <p>All items should be constructed as a minimum from galvanised but preferably in stainless steel, which is lighter, significantly stronger and resistant to corrosive attack from acidic disinfectants.</p>	£2,100

Item No.	Pig Specific Equipment	Specification	Standard Cost
SG32	Electronic Pig Weighing and Sorting Facility	<p>To be used in conjunction with an integral Electronic Data Management System.</p> <p>Automatic electronic system for sorting pigs by weight and profile using 3D camera technology and digital weighing. With the ability to record live weights for individual pigs and auto drafting to sort into specific weighs or physical characteristics.</p> <p>Suitable for use in both indoor and outdoor production systems.</p> <p>The facility will have a computer or mobile device interface to an integral electronic data management system. Capable of weighing pigs from 7kg to 250kg.</p> <p>System consists of a weigh crate, 3D cameras, weigh platform and two auto segregation gates</p>	£2,900
SG33	Enclosed Piglet Creeps with Heat Pads	<p>Both capable of thermostatic control to optimise energy efficiency.</p> <p>Made from GRP (glass-reinforced plastic) insulated panels, suitable for effective cleaning and disinfection.</p> <p>They feature purpose built elements to ensure even heat distribution over the whole surface area thus allowing all piglets' access to warmth.</p> <p>The power cable is protected from animal damage by a flexible stainless-steel tube. Pads are available with or without a sensor along with a temperature controller capable of running up to 1800 watts.</p> <p>Each creep being purchased must include heat pads.</p> <p>Heat pad or creeps on their own are not eligible.</p>	£387

General Livestock Specific Equipment

Item No.	General Livestock Specific Equipment	Specification	Standard Cost
SG7	Electronic Weigh System (all species)	<p>Digital weighing device with the ability to record individual animals and track the live weight gains must have the functionality to operate with auto drafting.</p> <p>The device must have the ability to be connected to a computer or mobile device to download collected information.</p> <p>Weigh bars are separate item (see below).</p>	£1,700
SG8	Weigh Bars (all species)	<p>Load bars or a platform to operate with cattle crushes, sheep or pig crates. Capable of weighing up to 2000kg.</p>	£1,150
R2-SG70	Positive Pressure Tube Ventilation Systems	<p>The system is aimed at supporting natural ventilation. The system pushes clean fresh air into the building using an internal horizontal fabric tube stretching the length of the building with holes cut to direct the air where needed.</p> <p>The cost includes wall mounted fan which draws fresh air into the building and an internal fabric tube.</p>	£1,433
R2-SG71	Cameras for monitoring livestock	<p>IP Camera for monitoring livestock. Outdoor rated IP66 with Pan Tilt and Zoom (PTZ), day and night vision. Infrared range of 50m minimum, 18x zoom minimum. 1080 pixels minimum.</p> <p>Must be compatible with online viewing app for phone or tablet.</p>	£255
R2-SG72	Grassland Sward Lifters	<p>Machine must have cutting disc in front of each leg.</p> <p>Minimum three legs with adjustable depth control (at least to 300mm) on the legs and a packing roller to leave a consolidated level finish.</p> <p>Shearbolt or hydraulic reset.</p>	£7,397

Item No.	General Livestock Specific Equipment	Specification	Standard Cost
R2-SG73	UV Water Treatment System	<p>For the treatment of water to be used in the feeding of livestock or irrigation of horticultural crops.</p> <p>In line UV water treatment system must be capable of treating at least 30 litres per minute (55 Watt power consumption). System must be WRAS approved.</p> <p>Maximum 10 units per application.</p>	£667
SG34	EID Hand Held Recorder Device	<p>EID handheld device with RFID technology for individual reading and recording of animals, must be able to record information including breeding, births, weights, treatments, movements.</p> <p>Must be capable of exporting data to a computer based software package for the active monitoring of livestock.</p>	£1,222
SG35	EID Hand Held Device (stick reader)	<p>EID hand held device (stick reader) with RFID technology for individual reading of animals.</p> <p>Must be capable of scanning tags and storing data, with the ability to connect wirelessly to phones or other devices.</p> <p>Must be able to read HDX and FDX B tags.</p>	£550
SG36	Auto EID Drench Gun	<p>A drenching gun that wirelessly communicates with a weigh head to automatically adjust the dosage of drench or pour on, depending on the animal's weight.</p>	£850
R2-SG74	Vaccination Gun with RFID Reader for vaccination of livestock	<p>A vaccination or dosing gun fitted with an RFID reader to enable recording of type batch and amount of medicine used.</p> <p>Must include wireless technology to allow downloading of accurate vaccination reports to computer, smart phone or I-pad.</p> <p>Maximum two per application.</p>	£850

Item No.	General Livestock Specific Equipment	Specification	Standard Cost
SG37	Pasture Plate Meter (Hand-held)	<p>A hand-held device to assess grass cover by measuring total height and the number of measures.</p> <p>The device must have the capability of storing separate paddocks and for the data to be downloaded to a computer.</p>	£550
SG38	Pasture Plate Meter (Trailed)	<p>A trailed device to assess grass cover by measuring total height and the number of measures.</p> <p>The device must have the capability of storing separate paddocks and for the data to be downloaded to a computer.</p>	£2,650
SG39	Electric Fencer Energiser	Solar powered Electric Fencing Energiser providing at least 0.15 joules with integrated battery	£240
SG55	Robotic Silage Pusher	<p>Robotic system with intelligent software and programmable for the intended feed passage.</p> <p>The equipment must have the capability to detect the distance from the feed barrier along with the amount of feed in the passage.</p>	12,000
R2-SG75	Robotic Slurry Pusher/ Collector	<p>Robotic system with intelligent software and sensors to allow the robot to navigate independently throughout the passageways.</p> <p>It must have built in sensors to avoid contact with the livestock.</p> <p>Cost includes robot and charging station.</p>	13,500

Precision Farming inc. Horticulture Specific Equipment

Item No.	Precision Farming inc. Horticulture Specific Equipment	Specification	Standard Cost
SG40	GPS linked to auto steer and implement control	<p>A standalone GPS unit with automatic field boundary measurement and field recognition.</p> <p>It must have a minimum capability of straight and curved guidance modes and be capable of linking to implement control and auto steer.</p>	£1,366
R2-SG76	GPS Light Bar	<p>GPS guidance system using light bar to aid guidance. Linked to iphone or ipad to create, recognise and load field boundary information. Provide field boundary measurements.</p> <p>It must have a minimum capability of straight and curved guidance modes. With pass to pass accuracy of 20cm or greater.</p>	£1,303
R2-SG77	GPS Auto Steer	<p>Auto steering system linked to GPS to enable auto steering to be used on older tractors.</p> <p>System to include electric, hands-free, automated steering system with easy installation onto steering wheel or column.</p>	£1,855
SG41	Yield Monitoring	An electronic device to connect to a combine or forage harvester to monitor crop yield during harvest. It will provide information on harvesting rate, with total and partial area (field) yield of crop.	£4,730
SG42	Variable Rate Controller for sprayers and fertiliser spreaders	<p>An electronic device to connect to an existing sprayer or fertiliser spreader for the purposes of variable rate application.</p> <p>The regulation system will work from either a pressure or a flow sensor and provide sectional control.</p>	£4,625

Item No.	Precision Farming inc. Horticulture Specific Equipment	Specification	Standard Cost
SG43	Flow Rate Monitoring of slurry	<p>Slurry flow meter, cab display/controller must be able to be linked to GPS to provide accurate record of slurry application.</p> <p>The system must be able to provide record of slurry applied by volume.</p>	£4,506
SG44	Measuring nitrogen levels in crops using light reflectance	<p>Tractor mounted sensor to determine the nitrogen status of the crop using light reflectance to enable real time variable rate Nitrogen fertiliser application.</p> <p>Offer includes sensor and linkage to variable control on fertiliser spreader.</p>	£22,500
SG54	Direct Drill 3m	<p>Tine or disc, zero till direct drill for arable and cover crops.</p> <p>Must be able to drill through a cover crop. A minimum width 3m.</p> <p>Grassland over seeders excluded.</p>	£24,000
R2-SG78	Cover Crop Roller 3m	<p>Front tractor mounted roller system to terminate and or bruise cover crops ahead of direct drill.</p> <p>3m width.</p>	£4,880
R2-SG79	Cover Crop Roller 6m	<p>Front tractor mounted roller system to terminate and or bruise cover crops ahead of direct drill.</p> <p>6m width.</p>	£10,850
R2-SG80	Hand held device for measuring nitrogen levels in crops using light reflectance	<p>Hand held sensor instantly measures and logs chlorophyll content or “greenness” of the plants to determine the nitrogen status of the crop using light reflectance.</p> <p>Enables increased accuracy for Nitrogen fertiliser application to be calculated for grassland.</p>	£395

Item No.	Precision Farming inc. Horticulture Specific Equipment	Specification	Standard Cost
R2-SG81	Chlorophyll Meter	Hand held device to instantly measures and logs chlorophyll content of individual plant leaves to assist in detecting yield-limiting deficiencies or costly over fertilising.	£1,557
R2-SG82	Fruit Ripeness Spectrometers	<p>Hand held device for use in orchards to determine produce quality and harvest timing.</p> <p>Uses NIR to determine and to measure DM, total soluble solids, titratable acidity, and colour to determine ripeness.</p>	£6,121
R2-SG83	Mobile Vertical Frost Fans for vineyards and horticulture	<p>Selective Inverted Sink (SIS) fans for use in vineyards and on stone and soft fruit farms to prevent frost damage.</p> <p>The vertical axis fans must be mobile.</p> <p>Horizontal, tower or permanently sited fans are not eligible.</p>	£11,940

Resource Management and Efficiency Equipment

Item No.	Resource Management and Efficiency Equipment	Specification	Standard Cost
SG45	Trailing Shoe Slurry System including Macerators	Trailing shoe slurry applicator, minimum 6m working width. To fit to slurry tanker or attach to flexible pipe/umbilical system. Includes pipework, stone traps, lines, full length sight glass.	£21,500
SG46	Dribble Bar	Dribble bar applicator, minimum 6m working width. To fit to slurry tanker or attached to flexible pipe/ umbilical system.	£10,000
SG47	Shallow Injection Systems	Injection system to inject slurry into soil surface. To fit to slurry tanker or attach to flexible pipe/umbilical system. Minimum working width 3 metres.	£22,169
SG48	Hose Reeler Umbilical	Umbilical hose reeler, random or compartmentalised trailed or mounted. Includes cost of the hose.	£3,418
SG49	Trailed Compartmented Reeler	Trailed compartmented reeler (minimum size of 1600m). Includes cost of the hose.	£11,162
SG50	Heat Recovery Unit to pre heat water for existing hot water system	System to utilise the heat energy released by the milk refrigeration system used for cooling milk before entering the bulk tank. Energy recovered used to pre heat water for existing hot water system. Reducing electricity usage. Cost includes connection to existing refrigerant system, water tank max 300 litre and transfer pump to existing hot water system.	£6,950

Item No.	Resource Management and Efficiency Equipment	Specification	Standard Cost
R2-SG84	Plate Heat Exchanger (PHE) for cooling milk (plate cooler)	Gasket plate heat exchangers to pre cool milk before entering the bulk tank using cold water. Maximum continuous flow rate 5,000 litres per hour.	£2,450
SG51	Variable Speed Drive on vacuum pump for use in dairies	Funding is towards the purchase of a variable speed drive for use with vacuum pumps to allow pumps to only perform work when required thereby saving energy over continuous running systems.	£4,585
SG52	Improving efficiency of Plate Heat Exchanger (PHE), including solenoid valve	Control equipment regulates cold water flow to match the flow of warm milk, saving both electricity and water.	£3,393
SG53	Hydraulic Ram Pumps (water)	Pump working by hydraulic pressure to raise clean water. Pump plus sediment chamber, pump chamber, drive pipe, distribution pipe, 5,000 ltr (minimum) header tank and return pipe. System assumes 20 ltr /min flow, 3m head with 10 - 20m lift, 300m delivery pipe and two spurs.	£4,996

Other General Equipment

Item No.	Other General Equipment	Specification	Standard Cost
SG57	Humidity Controls for grain drying and dehumidifiers	<p>Control system to sense humidity and control intensity (fuel use) of drying process. Includes duplex burners for use with fan installation.</p> <p>SMS Text Alert System is designed to continuously monitor the running of bulk grain drying temperature controller for multiple grain cooling fans.</p>	£6,075
SG58	Grain Stirrers	Grain stirrers installed within a flat store which move across the grain on a gantry.	£17,050
SG59	Digital Weather Station	<p>A system/station that has the minimum functionality to record barometric pressure, temperature, humidity, rainfall, wind speed and direction, solar radiation, UV levels, soil moisture and soil temperature.</p> <p>Most systems require additional sensors to meet this specification.</p> <p>The system must be able to link wirelessly to a computer.</p> <p>The cost includes the station, mounting facilities and up to 5 additional sensors.</p> <p>Excludes installation costs, service costs annual licence fee for software and calibration.</p>	£2,687
SG60	Wide Area Network equipment to connect devices on farm	Wireless network repeaters to extend an existing wireless network to enable devices to connect for agricultural use.	£220
SG61	Fibre Optic Networking Equipment	Fibre optic networking cable (50m lengths) plus media convertors to enable devices to connect for agricultural use.	£610

Item No.	Other General Equipment	Specification	Standard Cost
R2-SG85	Thermal Image Camera	<p>Handheld thermal camera or tablet with an IR detector generating images of at least 18,000 pixels to provide high degree of resolution.</p> <p>The device must display temperature on screen and have still and video recording facilities.</p> <p>Images must be down loadable to PC.</p>	£1,234
R2-SG86	Portable Carbon Dioxide Analyser	<p>Portable gas analyser for use in checking and recording levels of carbon dioxide in crop stores and livestock buildings.</p> <p>Must include visual and audio alarms accuracy of plus or minus 40ppm or less.</p>	£279
R2-SG87	Portable Ammonia Analyser	<p>Portable gas analyser for use in checking and recording levels of ammonia in livestock buildings.</p> <p>Must include visual and audio alarms.</p>	£204