



Costain Plant Specification

Minimum mandatory
requirements



Costain have set out the minimum mandatory requirements for plant specification to be used on contracts.

There may be higher specification for your contract which should be considered and is covered by the caveat at the foot of each specification.

There are 27 specifications with more due to be added later in 2020.

Plant Specifications

[180 Wheeled Excavator / Loader](#)

[360 Tracked Excavator](#)

[360 Wheeled Excavator](#)

[Air Compressor](#)

[Articulated Dump truck](#)

[Concrete Extrusion Machine](#)

[Concrete Pump](#)

[Crawler Crane](#)

[Forward Tipping Dumper](#)

[Generator](#)

[Lighting Tower](#)

[Lorry Loader Crane](#)

[MEWP \(Boom lift\)](#)

[MEWP \(PAV\)](#)

[MEWP \(Scissor lift\)](#)

[MEWP \(vehicle mounted\)](#)

[Mini Excavator](#)

[Mixer truck](#)

[Mobile Crane](#)

[Mobile Crushing Plant](#)

[Ride on Roller](#)

[Road Sweeper / Gulley Sucker](#)

[Suction Excavator](#)

[Telehandler](#)

[Tipper Lorry](#)

[Tracked Dozer](#)

[Wheeled loading shovel](#)

180° Wheeled Excavator/Loader

Core specification

- Highway use 180° wheeled excavator / loader up to 13 tonne.

Environmental requirements

- Must comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)



✓ Plant Equipment – Specific

- Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity or thorough examination
- Public Highway compliance with C&U regulations – (VED registered, working Lights, indicators, registration plate's front & rear etc.)
- ROPS and FOPS cab structure where risk of falling objects
- Capable of providing telematic data (if available)
- Live anti-theft tracking system
- Flashing amber beacons
- All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not
- Audible white noise reversing alarm
- Locking doors with key
- Buckets to be supplied as required
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height
- Wheel nut indicators
- Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure
- Tooth Guard for use during travel on public highway
- Isolation controls by a secondary device with seat rotation
- Must comply with LOLER and PUWER
- The equipment should not be more than 5 years old
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- CPCS card category:
 - A10 - Excavator 180° below 5 tonne
 - A12 - Excavator 180° above 5 tonne
- NPORS
 - N201 - Excavator 180°
 - N100 - Excavator as a Crane
- Cat B driving licence
- Safety Critical Workers Medical
- Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246)
- Trained in use of fitted quick hitch and attachments

✓ If used for lifting

- A machine specific lifting duty chart must be provided
- A report of thorough examination should be provided

✓ If used for lifting

- Lifting with excavator operator assessment to be completed
- Be trained in the use of specific lifting attachments

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

360° Tracked Excavator



Core specification

- 9 tonne and over steel or rubber tracked 360° excavator.

Environmental requirements

- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Must comply with Stage IIIB (>13 tonne is Stage IV) or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity or thorough examination.
- ROPS and FOPS protected cab structure where risk of falling objects
- Capable of providing telematic data
- Live anti-theft tracking system
- Flashing amber beacon
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not
- Locking doors with key
- Deadman lever must be fitted to prevent starting when lever not engaged
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height
- Track direction indicator
- Buckets to be supplied as required
- If used under overhead cables or near obstructions: Must be fitted with height and slew restrictors with external indication of use
- The equipment should not be more than 5 years old
- Cab and window security guards (optional)
- Quick hitch must be automatic double locking
- Suitable spill kit to be provided
- Must comply with LOLER and PUWER regulations
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- CPCS card category:
 - A58A Tracked Excavator 360° below 10 tonne, or:
 - A59A Tracked Excavator 360° above 10 tonne
- NPORS:
 - N202 - Excavator 360°
- Cat B driving licence
- Track category if travelling on public highway on tracks
- Safety Critical Workers Medical
- Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246)
- Trained in use of any fitted quick hitch and attachments and height and slew restrictors
- Trained in use of any fitted quick hitch and attachments

✓ If used for lifting - Equipment

- 12 month thorough examination certificate
- 6-month thorough examination certificate on lifting accessories
- Certified lifting points for all lifting duties
- Safe load indicator or Rated Capacity indicator
- SWL to be clearly marked
- Check valves must be fitted to boom & dipper circuits
- Specific equipment duty lifting chart should be available with the machine.

✓ If used for lifting - Operator

- CPCS card category:
 - A58C Lifting operations below 10 tonne, or:
 - A59C Lifting operations above 10 tonne
- NPORS: N100 - Excavator as a Crane

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

360° Wheeled Excavator



Core specification

- 7 tonne - 22 tonne wheeled, self-propelled 360° excavator.

Environmental requirements

- Must comply with Stage IIIB (>13 tonne is Stage IV) or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity
- If used on public highway - compliance with C&U regulations (VED registered, lights, indicators, registration plate's front & rear etc.)
- Protected ROPS or FOPS cab structure where risk of falling objects
- Capable of providing telematic data
- Live anti-theft tracking system
- Flashing amber beacon
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions
- Cab steps and grab handles to ensure 3 points of contact is achievable (preferably high visibility)
- Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not
- Audible travel alarm
- Locking doors with key
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height
- Buckets to be supplied as required
- Wheel nut indicators
- Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure
- Visible indicator of front or back for wheels
- Must comply with LOLER and PUWER regulations
- The equipment should not be more than 5 years old
- Manufacturer instruction and operator handbook to be with machine
- If used under overhead cables or near obstructions: Must be fitted with height and slew restrictors with external indication of use

✓ Plant Operator – Specific

- CPCS card category:
 - A58B Wheeled Excavator below 10 tonne, or:
 - A59B Wheeled Excavator above 10 tonne
- NPORS - N202 Excavator 360°
- Cat B driving licence
- Safety Critical Workers Medical
- Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246)
- Trained in use of any fitted quick hitch and attachments and height and slew restrictors

✓ If used for lifting—Equipment

- 12 month thorough examination certificate
- 6-month thorough examination certificate on lifting accessories
- Certified lifting points for all lifting duties
- Safe load indicator or Rated Capacity indicator
- SWL to be clearly marked
- Check valves must be fitted to boom & dipper circuits
- Specific equipment duty lifting chart should be available with the machine

✓ If used for lifting - Operator

- CPCS card category:
 - A58C – Lifting with excavators below 10 tonnes, or:
 - A59C – Lifting with Excavators above 10 tonnes
- NPORS - N100 Excavator as a Crane

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Air Compressor



Core specification

- Road towable, diesel powered, 50 – 750 cfm compressor

Environmental requirements

- Must comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity
- All current pressure systems regulations certification to be in place where greater than 250 bar/litres
- Type approved for use on the UK public Highway in accordance with Directive 2007 / 46 / EC
- Anti-theft tracking system (in line with SLA)
- Overrun Braking system (for items over 750kg)
- 40mm towing eye
- Break away cable
- Wheel nut indicators
- Labelled each side with tyre inflation pressure and wheel nut torque figure
- Unique ID number to be displayed
- Noise emission label in compliance with OND 2000/14/ EC
- Towing / lifting weight to be clearly displayed
- Canopy to have integral fuel bunding for environmental protection
- All hoses to be supplied with 2 whip checks
- Isolation Switch with Key
- Wheel chock should be provided (towed equipment)
- Proof of inspection of lifting lug from supplier prior to delivery
- Operator instructions must be displayed on the machine
- All safety decals in place and legible
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- If compressor is over 750KG, you must have the correct driving licence category for towing and not exceed the rated capacity of the towing vehicle.
- Pre 1997; C+E
- Post 1997; B+E and / or C1+E
- Must have suitable familiarisation training including fitted accessories and attachments prior to use of equipment.
- Safety Critical Workers Medical (when towing)
- Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246).
- Do not tow on a public highway with a commercial vehicle as tachograph regulations will apply.

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Plant Specification - Minimum Mandatory Requirements

Articulated Dump Truck



Core specification

- Self-propelled, diesel powered articulated or rigid dump truck from 13t to 50t

Environmental requirements

- Must comply with Stage IV or higher of EU Directive 97/68/EC and additionally in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must be compliant with EC Machinery Directive 2006/42/EC and supplied with a declaration of conformity
- Supplied with lights and if used on Public Highway compliance with C&U regulations – (VED registered, working Lights, indicators, registration plate's front & rear)
- Capable of providing telematic data
- Live tracking system
- Flashing amber beacon
- ROPS & FOPS Cab Structure c/w safety glass
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- Locking doors with keys
- Seat belts must be fitted & operational with safety system that will not engage until the seat belt is connected
- Inclinometer / Body Up warning system
- Articulation lock must be fitted & operational
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions
- White noise reversing alarm to be fitted & operational
- Mechanical prop fitted under body (Maintenance purposes only)
- Locking caps/covers to fuel and all other tanks
- Isolation switch with key
- Tipping linkage – must have no excessive play
- No tailgates unless specifically requested
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height
- Tip Prevention Inclinometer
- The equipment should not be more than 5 years old
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- CPCS card category:
 - A56 - Dump truck articulated chassis
 - A = up to 15 tonnes
 - B = all sizes (Senior)
 - A57 - Dump truck rigid chassis
 - A = Up to 15 tonnes
 - B = Up to 50 tonnes
 - C = All sizes wheeled (Senior)
 - D = All sizes tracked (separate)
- NPORS card category:
 - N205 –Rear tipping dumper
- Safety Critical Workers Medical
- Cat B driving licence as a minimum
- Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246)

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred



Concrete Extrusion Machine



Core specification

- Diesel powered concrete slip form paving machine primarily to form concrete drainage and stepped central highway barriers

Environmental requirements

- Must comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity or thorough examination
- Report of thorough examination within past 12-months
- Report of thorough examination within the past 6 months for all lifting accessories carried
- Travel movement alarm to be fitted working and audible
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions
- Audible reversing alarm
- Isolation switch with key
- Emergency stop button
- Safe access for refuelling, maintenance and to any place where accessories stored
- 'Elephant ears' rubber guards fitted to sides of concrete feeder hopper
- Fixed guards on horizontal auger incorporating isolation switches to immobilise auger when guards are removed
- Flashing amber beacons - front & rear at a height not to interfere with driver visibility
- Storage facilities for hand tools and lubricants etc.
- Podium steps for access to inclined auger access steps
- Access platform around horizontal auger to access front of auger for cleaning & maintenance complete with guard rail
- Pressure washer for cleaning off
- Guard rails around mould platform & driving platform (not chains)
- Rubber track bumper guards
- Fixed access ladder to mould & driving platforms
- Fixed hinged guards (4#) to inclined auger
- Fixed hinge guard & access steps across concrete feeder hopper

✓ Plant Equipment – (Cont'd)

- 2-way radio communication system
- Guards on conveyors
- Adjusting compensation plate
- GPS guidance system
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- Must have evidence of appropriate training for exclusion machines.
- Must have evidence of familiarisation training for the type of machine being operated
- Must have evidence of pressure washer training
- Cat B driving licence (minimum)
- Safety Critical Workers Medical
- Plant operator induction (SHE-T-247) and relevant plant operator assessment from (SHE-T-246)

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Concrete Pump



Core specification

- Trailer or vehicle mounted diesel driven concrete pump

Environmental requirements

- Must comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of Conformity or thorough examination
- Public Highway compliance with C&U regulations – (VED registered, working Lights, indicators, registration plate's front & rear etc.)
- 12-month thorough examination certificate
- Mirrors (including Class V & VI) / CCTV to satisfy 1m in all directions
- Safe access for refuelling, maintenance and to any place where accessories stored
- Flashing amber beacon
- Audible reversing alarm
- Locking doors with key & locking caps / covers to fuel and all other tanks
- Wheel nut indicators
- Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure
- Cab steps and grab handles to ensure 3 points of contact is achievable.
- Emergency stop button
- Independent isolation system with key

If vehicle mounted:

- Must have whole vehicle type approval if registered after October 2014.
- Chapter 8 compliant beacons, reflective chevrons and Highway / Motorway Maintenance signage (if applicable)
- Current Operator licence displayed
- Current MOT plating certificate
- Fleet Operator Recognition Scheme (FORS) - Minimum Bronze
- **Compliant with Costain Stop & Think Instruction SHE-T-402**
- Capable of proving telematic data
- Portable 'Chocks' / Wheel Stops to be manufactured to place on the ground behind the concrete pump
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Equipment – (Cont'd)

If trailer mounted:

- Type approved for use on the UK public Highway in accordance with Directive 2007/46/EC
- Overrun Braking system (for items over 750kg)
- 40mm towing eye
- Break away cable
- Wheel nut indicators
- Labelled each side with tyre inflation pressure and wheel nut torque figure

✓ Plant Operator – Specific

- CPCS card category:
 - A06 - Concrete Pump; Truck Mounted Boom: (LGV required)
 - A44 - Concrete Pump Trailer Mounted
- NPORS card category:
 - N211 - Concrete Pump Mobile
 - N721 - Static Concrete Placing Boom
- Safety critical medical
- Plant operator induction (SHE-T-247) and relevant plant operator assessment from (SHE-T-246)

If vehicle mounted:

- Appropriate licence for the class of vehicle to be operated (Lorry mounted pumps)
- Shall hold a current Driver CPC qualification

If trailer mounted:

- If trailer is over 750KG, the correct driving licence category for towing and not exceed the rated capacity of the towing vehicle. Pre 1997; C+E or; Post 1997; B+E and or C1+E
- Do not tow on a public highway with a commercial vehicle as tachograph regulations will apply.

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred



Crawler Crane



Core specification

- A 25-250t lift capacity crane consisting of an upper carriage mounted on a crawler type undercarriage with 360° rotation capability with either a box or a lattice type straight boom and optional jib (boom extension).

Environmental requirements

- Must comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific
<ul style="list-style-type: none"> • Must be compliant with EC Machinery Directive 2006/42/EC and supplied with a declaration of conformity or • 12-month thorough examination certificate • Current 6 monthly thorough examination certificate for all carried lifting tackle • Current 6 monthly certificate for the crane • Capable of providing telematic data (where possible) • Lifting accessories marked with SWL • Fitted and audible or visual overload warning system • All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions • Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility • Handrails fitted to running boards, crane upper structure and body of crane where access is required • Rated Capacity Indicator (RCI) • Flashing amber beacons • White noise “travelling or tracking” alarm • Slew alarms (visible / audible white noise) • Aircraft warning lights if working within 6km of airports • Slew, jib height and radius restrictors if working in vicinity of overhead power lines, railways and adjacent live traffic • Hook block over hoist cut-out facility • Boom hoist cut out facility • Load bearing hydraulic cylinders fitted with check valves • Crane fitted with anemometer to monitor in service wind speeds • Must have power lowering (no free fall capability) • Locking doors with key • Fire extinguisher in cab if only one exit

✓ Plant Equipment – (Cont'd)
<ul style="list-style-type: none"> • If chain slings used they must be safety hook type • Manufacturer instruction and operator handbook to be with machine • Equipment for the Lifting of Persons - Suspended Baskets • Ability to restrict the working speed of all crane functions to 0.5m/s • Control levers return to neutral automatically when released • The SWL of the crane during the lift must be at least twice the total weight of the loaded suspended basket • Power lowering facility fitted to crane. If not, free - fall capability must be locked out • Carrier hoisting and lowering ropes minimum diameter of 8mm

✓ Plant Operator – Specific
<ul style="list-style-type: none"> • CPCS card category: <ul style="list-style-type: none"> A02 Crawler crane over 10 tonnes, plus; A66D Compact Crane 360-Pick and carry • NPORS card category: <ul style="list-style-type: none"> N103—Crawler crane • Have evidence of crane familiarisation training for the specific model being used • Cat B driving licence (minimum) • Safety critical medical • Plant operator induction (SHE-T-247) • Lifting equipment operator appointment (OPS-T-968) to be completed • Be trained in the use of specific lifting attachments

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred



Forward Tipping Dumper



Core specification

- Below 1 tonne and up to 12 tonne forward and side tipping dumper wheeled or tracked.

Environmental requirements

- Must comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific
<ul style="list-style-type: none"> • Public Highway compliance with C&U regulations – (VED registered, working Lights, indicators, registration plate's front & rear etc.) • ROPS and FOPS protected cab structure where risk of falling objects • To aid selection utilise the Costain guidance on forward tipping dumpers, B 2019 002 rev1 • Capable of providing telematic data (9 tonne and over) • For use on public highway must be taxed and registered • Live anti-theft tracking system • Flashing amber beacons, • All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions • Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility • Seat belts must be fitted and operational with visible indication of seat belt engagement or machine isolation if not • White noise reversing alarm • Locking doors with key • Isolation switch with key • Locking caps / covers to fuel and all other tanks • Wheel nut indicators • Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure • The equipment should not be more than 5 years old • Tow hitch if fitted must have correct pin with chain attached to dumper. • Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific
<ul style="list-style-type: none"> • CPCS card category: <ul style="list-style-type: none"> A09 A - Forward Tipping Dumper wheeled A09 B –Forward Tipping Dumper tracked • NPORS card category: <ul style="list-style-type: none"> N139 –Forward Tipping Mini Dumper up to 1 tonne N204 - Forward Tipping Dumper • Cat B driving licence • For dumpers over 3.5 tonnes gross vehicle weight the operator / driver must be aged 21 or over • Safety Critical Workers Medical • Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246)

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Generator



Core specification

- Frame, trolley mounted, trailer, skid mounted or containerised generators.

Environmental requirements

- Solar, electric, hydrogen or hybrid must be first preference unless unavailable or demonstrated to be inappropriate for the activity.
- Engines used in a hybrid must also comply with Stage IIIA or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must be compliant with EC Machinery Directive 2006/42/EC
- **A Power Site Survey must be carried out by the supplier to ascertain the most suitable equipment to meet the environmental requirements shown above.**
- Must have evidence of pre-hire inspection and “next service and or inspection due” date sticker
- Portable frame mounted up to 3KVA
- Portable trolley mounted above 3KVA
- Isolation switch key for generators above 5KVA
- Electric start for generators above 5KVA
- Capable of providing telematic data (where possible)
- Use of these generators must comply with BS7671 On Site Guide (Generators).
- 110v / 240v outlets as required with suitable protection to prevent electric shock.
- 110v outputs should be centre tapped to earth, the phase earth voltage should not exceed 55 volts
- Operator instructions and safety instructions should be available with equipment
- All safety decals in place and legible
- Towing and lifting weight to be clearly displayed on generator
- 40mm towing eye
- Wheeled generators labelled each side with tyre inflation pressure and wheel nut torque figure (if applicable)
- Unique ID number to be displayed
- Proof of inspection of a fitted lifting eye from supplier prior to delivery
- The equipment should not be more than 5 years old

✓ Plant Operator – Specific

- If wheeled generator is over 750KG, you must have the correct driving licence category for towing and not exceed the rated capacity of the towing vehicle.
- Pre 1997; C+E
- Post 1997; B+E and / or C1+E
- Must have suitable familiarisation training including fitted accessories and attachments prior to use of equipment.
- Safety Critical Workers Medical (when towing)
- Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246).
- Do not tow on a public highway with a commercial vehicle as tachograph regulations will apply.



BeGreen

Many low carbon solutions are available for this type of equipment.

Electric, hydrogen and hybrid equipment should be given preference.

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred



BeWell



BeSafe



BeGreen

Lighting Tower



Core specification

- Wheeled and towable lighting towers from 5.5m to 9m in height when extended

Environmental requirements

- Solar, electric, hydrogen, or hybrid LED lighting towers must be first preference unless unavailable or demonstrated to be inappropriate for the activity.
- Engines used in a hybrid must also comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM

✓ Plant Equipment – Specific

- Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity
- Type approved for use on the UK public Highway in accordance with Directive 2007 / 46 / EC
- Fitted with AMOSS system
- Anti-theft tracking system (in line with SLA)
- Overrun Braking system (for items over 750kg)
- 40mm towing eye
- Break away cable
- Labelled each side with tyre inflation pressure and wheel nut torque figure
- Level indicators fitted
- Unique ID number to be displayed
- Noise emission label in compliance with OND 2000/14/ EC
- Towing / lifting weight to be clearly displayed
- Canopy to have integral fuel bunding for environmental protection
- Isolation Switch with Key
- Proof of inspection of lifting lug from supplier prior to delivery
- Operator instructions must be displayed on the machine
- All safety decals in place and legible
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- If lighting tower is over 750KG, you must have the correct driving licence category for towing and not exceed the rated capacity of the towing vehicle.
- Pre 1997; C+E
- Post 1997; B+E and / or C1+E
- Must have suitable familiarisation training including fitted accessories and attachments prior to use of equipment.
- Safety Critical Workers Medical (when towing)
- Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246).
- Do not tow on a public highway with a commercial vehicle as tachograph regulations will apply.



BeGreen

Many low carbon solutions are available for this type of equipment.

Solar lights should be given preference and the hybrid LED models are the minimum specification for lighting towers.

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred



BeWell



BeSafe



BeGreen

Lorry Loader Crane (HIAB)



Core specification

- Flatbed wagon, diesel engine, 6 or 8 wheel configuration up to 32 tonne GVW with a fixed mounted telescopic loading crane

Environmental requirements

- Preference should be given to vehicles with Euro V or VI engines for anything roadgoing.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Chapter 8 compliant beacons, reflective chevrons and 'Highway / Motorway Maintenance' signage (if applicable)
- Public Highway compliance with C&U regulations – (VED registered, working Lights, indicators, registration plate's front & rear etc.)
- Must have whole vehicle type approval if registered after Oct '14
- Current Operator licence displayed
- Current MOT plating certificate
- 12-month thorough examination certificate for crane
- 6-month thorough examination certificate on lifting accessories
- The lorry should be Fleet Operator Recognition Scheme (FORS) - Minimum Bronze
- Should have a Documented pre-operational check
- **Compliant with the Costain Stop & Think Instruction SHE-T-402**
- EN 12999 compliant where the rated capacity load plate must be "clearly visible from all fixed controls stations"
- Safe load indicator or rated capacity indicator
- Seat belts must be fitted and operational
- Daylight running lights
- Rear work lights
- Wheel nut indicators
- Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions
- Reversing camera & audible reversing alarm
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility

✓ Plant Equipment – (Cont'd)

- Isolation switch with key
- Locking doors with key
- Locking caps / covers to fuel and all other tanks
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- CPCS card category:
 - A36 – Lorry Loader including relevant endorsements for attachment. Hook – A, Clamshell Bucket – B or Hydraulic Clamp – C; or,
- NPORS card category:
 - N107 –Lorry Loader; or
- ALLMI lorry loader operator certification
 - <https://www.allmi.com/operator-training/operator-training-categories.html>
- Minimum of Cat C driving licence when unit over 7.5t GVW
- Shall hold a current Driver CPC qualification
- Operator to be Traffic Management trained in 'mobile works' (Highways contract specific)
- Safety critical medical
- Plant operator induction (SHE-T-247) and relevant plant operator assessment from (SHE-T-246)

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

MEWP (Boom Lift)



Core specification

- MEWPs where the vertical projection of the centre of gravity of the load may be outside the tipping lines up to 57m working height.

Environmental requirements

- Must comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Hybrid and fuel efficient plant must be given preference wherever available.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must be compliant with BS EN 280
- Power source / engine type as required / suitable for task.
- 6 monthly LOLER thorough examination certificate
- Flashing amber beacon
- Capable of providing telematic data
- Travel movement alarm to be fitted working and audible
- Isolation switch with key
- Operating control functions clearly marked and include direction of travel
- Maximum gradient for safe operation must be displayed
- Power Failure Safe Lowering System
- SWL displayed in platform
- Maximum permitted wind-speed for safe operations must be displayed
- Wheel loading details including ground bearing pressure to be provided
- Wheel nut indicators labelled each side with tyre inflation pressure and wheel nut torque figure
- All Self-Propelled Boom Lifts must have shrouded controls and have secondary guarding to prevent entrapment / crushing through sustained involuntary operation of the MEWP, either through electronic and/or mechanical means.
- Harness anchorage points in boom platform
- The equipment should not be more than 5 years old
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- Must be suitably trained and competent in the use of this type of equipment
- CPCS card category A26A or IPAF (3b/3b+)
- NPORS card category N108 – MEWP Boom
- Safety harness and suitable restraint lanyard training for operator
- Must receive a full supplier handover, familiarisation training and practice of the emergency recovery procedure from the ground
- Safety critical medical
- Plant operator induction (SHE-T-247) and operator assessment (SHE-T-246).

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

MEWP (PAV)



Core specification

- A push around, elevating work platform either 110v / battery powered or manual wind up to a maximum working height of 9.5m, for use both internally or externally

Environmental requirements

- Must comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.

✓ Plant Equipment – Specific

- Must be compliant with BS EN 280
- Must be as requisitioned unless agree otherwise
- 6 monthly LOLER thorough examination certificate
- Provide full handover instructions for the operator including emergency lowering training
- Functions to be able to be isolated using a key or physical lock as applicable
- Operating control functions must be clearly marked
- A daily / weekly pre-use inspection schedule must be provided
- Maximum gradient for safe operation must be displayed
- Gradient indicator must be present
- Powered machines must be fitted with an audible tilt alarm
- Power Failure Safe Lowering System must be present where applicable
- SWL displayed in platform
- Isolation switch with key for powered MEWPS
- Maximum permitted wind speed for safe operations must be displayed
- Equipment should not be more than 5 years old
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- CPCS card category:
A25 - MEWP Scissor
- IPAF category - 1a / 1a+ or PAV card
- NPORS card category:
N109 –MEWP Scissor
- Full site-defined PPE must be worn – non-loose fitting as controls can be caught inadvertently
- Must receive a full supplier handover, familiarisation training and practice of the emergency recovery procedure from the ground
- Safety critical medical
- Plant operator induction (SHE-T-247) and relevant plant operator assessment from (SHE-T-246)

✓ If used for lifting

- A machine specific lifting duty chart must be provided
- A report of thorough examination should be provided

✓ If used for lifting

- Be trained in the use of specific lifting attachments

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

MEWP (Scissor Lift)



Core specification

- MEWPs where the vertical projection of the centre of gravity of the load is always inside the tipping lines up to 34m working height

Environmental requirements

- Must comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must be compliant with BS EN 280
- Power source / engine type as required / suitable for task.
- 6 monthly LOLER thorough examination certificate
- Flashing amber beacon
- Travel movement alarm to be fitted working and audible
- Isolation switch with key
- Operating control functions clearly marked
- A daily / weekly maintenance schedule must be provided
- Direction of travel must be clearly indicated
- Maximum gradient for safe operation must be displayed
- The machine must be suitable for the location (indoor / outdoor)
- Power Failure Safe Lowering System
- SWL displayed in platform
- Maximum permitted wind-speed for safe operations must be displayed
- Outrigger / wheel loading details provided and ground bearing pressure required
- Wheel nut indicators & labelled each side with tyre inflation pressure and wheel nut torque figure
- All scissor lifts must have shrouded controls which limit the risk of entrapment / crushing through sustained involuntary operation
- The equipment should not be more than 5 years old
- Manufacturer instruction and operator handbook

✓ Plant Operator – Specific

- Must be suitably trained and competent in the use of this type of equipment
- CPCS card category A25 or IPAF (3a/3a+)
- NPORS card category N109 - MEWP Scissor
- Must receive a full supplier handover, familiarisation training and practice of the emergency recovery procedure from the ground
- Safety critical medical
- Plant operator induction (SHE-T-247) and relevant plant operator assessment from (SHE-T-246)

✓ If used for lifting

- A machine specific lifting attachment – state what is being lifted
- A report of thorough examination should be provided

✓ If used for lifting

- Be trained or receive familiarisation in the use of specific lifting attachments

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

MEWP (Vehicle Mounted)



Core specification

- Lorry or van mounted scissor or boom type elevating work platform to a maximum self-drive working height of 26m or 3.5t GVW or operated up to 70m above 3.5t GVW.

Environmental requirements

- Must comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- 6 monthly LOLER thorough examination certificate
- Chapter 8 compliant beacons, reflective chevrons and 'Highway / Motorway Maintenance' signage
- Supplied with lights and if used on Public Highway compliance with C&U regulations – (VED registered, working Lights, indicators, registration plate's front & rear etc.)
- Capable of providing telematic data (where possible)
- Seat belts must be fitted and operational
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high at 1m distance in all directions. Mirrors (including Class V & VI on vehicles >=7.5t)
- Audible white noise reversing alarm
- Wheel nut indicators
- Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure
- Isolation switch with key
- Locking doors with key
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- Locking caps / covers to fuel and all other tanks
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height
- Boom functions to be able to be isolated using a key or physical lock as applicable
- Maximum permitted wind speed for safe operations must be displayed
- Outrigger loading details provided & ground bearing capacity checked (where applicable)
- Outrigger pads with a suitable handle must be provided
- Harness fixing points in basket
- The equipment should not be more than 5 years old
- Provision of full handover including emergency lowering training to the operator

✓ Plant Equipment – Cont'd

- Where possible (if available) must have shrouded controls and secondary guarding to prevent entrapment / crushing through sustained involuntary operation of the MEWP, either through electronic and/or mechanical means.

If Truck Mounted

- Current Operator licence displayed
- Fleet Operator Recognition Scheme (FORS) - Minimum Bronze
- **Compliant with Costain Stop & Think Instruction SHE-T-402**

✓ Plant Operator – Specific

- CPCS Card category:
A26A –MEWP boom vehicle mounted
- IPAF Card category:
1b/1b+
- NPORS card category:
N108—MEWP Boom
- Must have a current relevant driving licence for the equipment being used. Minimum Category B, if unit is over 7.5t GVW then a Minimum of Category "C" driving licence is required plus:
- Shall hold a current Driver CPC qualification
- Safety Critical Workers Medical
- Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246)
- Receive full handover and familiarisation training including emergency lowering procedure training

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Mini Excavator



Core specification

- 0.75 – 8 tonne rubber or steel tracked 360° mini excavator.

Environmental requirements

- Electric, hybrid or hydrogen mini excavators must be first preference unless unavailable or demonstrated to be inappropriate for the activity.
- Engines used in a hybrid must also comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity
- ROPS and FOPS cab structure where risk of falling objects
- Capable of providing telematic data (where available)
- Live anti-theft tracking system
- Flashing amber beacons
- All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- Seat belts must be fitted and operational with visible indication of seat belt engagement or machine isolation when not
- Locking doors with key
- Buckets to be supplied as required
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height
- Deadman lever must be fitted to prevent starting when lever not engaged
- Must comply with LOLER and PUWER regulations
- If used under overhead cables or near obstructions: Must be fitted with height and slew restrictors with external indication of use
- The equipment should not be more than 5 years old
- Automatic double locking quick hitch $\geq 5T$
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- CPCS card category
A58A - Excavator up to 10 tonne
- NPORS
N016 Micro Excavator 360° up to 1 tonne
N202 Excavator 360°
- Cat B driving licence
- Safety Critical Workers Medical
- Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246)
- Trained in use of any fitted quick hitch and attachments and height and slew restrictors

✓ If used for lifting - Equipment

- 12 month thorough examination report should be provided
- 6-month thorough examination certificate on lifting accessories
- Certified lifting points
- Safe load indicator or rated capacity indicator
- SWL to be clearly marked
- Check valves must be fitted to boom & dipper circuits $\geq 5T$
- A machine specific lifting duty chart must be provided

✓ If used for lifting - Operator

- CPCS card category A58C – Lifting with Excavators
- NPORS card category N100 - Excavator as a Crane

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Mixer Truck



Core specification

- Vehicle mounted concrete / cement mixer up to 8m³ capacity (33t GVW).

Environmental requirements

- Preference should be given to vehicles with Euro V or VI engines for anything roadgoing.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must be compliant with EC Machinery Directive 2006/42/EC and supplied with a declaration of conformity
- Chapter 8 compliant beacons, reflective chevrons and “Highway / Motorway Maintenance “ signage (if applicable)
- Public Highway compliance with C&U regulations (VED registered, working Lights, indicators, registration plate’s front & rear etc.)
- Capable of providing telematic data
- Current Operator licence displayed
- Current MOT plating certificate
- **Compliant with Costain Stop & Think Instruction SHE-T-402**
- Fleet Operator Recognition Scheme (FORS) - Minimum Bronze
- Seat belts must be fitted and operational
- White noise reversing alarm
- Isolation switch with key
- Locking doors with key & locking caps / covers to fuel and all other tanks
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height
- Wheel nut indicators
- Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure
- Rear work lights
- Fire extinguisher fitted in cab
- First aid kit and eyewash in cab
- Manufacturer instruction and operator handbook to be with machine
- Spill kit

✓ Plant Operator – Specific

- Minimum of Category “C” driving licence when unit over 7.5t GVW
- Shall hold a current Driver CPC qualification
- Safety critical medical
- Plant operator induction (SHE-T-247) and relevant plant operator assessment from (SHE-T-246)
- Hand and skin dermatitis protection / monitoring
- Trained in use of spill kits

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Mobile Crane



Core specification

- A 25 -1000t lift capacity self-propelled, vehicle mounted crane, cable controlled or hydraulic-powered crane with a telescoping boom

Environmental requirements

- Preference should be given to vehicles with Euro V or VI engines for anything roadgoing.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must be compliant with EC Machinery Directive 2006/42/EC and supplied with a declaration of conformity or
- 12-month thorough examination certificate
- Current 6 monthly LOLER thorough examination certificate for crane
- Current 6 monthly LOLER thorough examination certificate for all lifting tackle carried
- Capable of providing telematic data (where possible)
- FOPS Cab structure
- Fitted and operational audible or visual overload system
- Over hoist limit device installed
- Operational manual with load charts to be available with machine
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions
- Flashing amber beacon
- Reversing alarm to be fitted working and audible
- Crane fitted with anemometer to monitor in service wind speeds
- Locking Door with keys provided
- Aircraft warning lights if working within vicinity of airports
- Slew, jib height and radius restrictors if working in the vicinity of overhead power lines, railways, adjacent live traffic, etc.
- Load bearing hydraulic cylinders fitted with check valves
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- All road wheels to be fitted with wheel nut indicators
- Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure
- Hook fitted with safety catch
- Protective mesh must be in place to side of cab on jib side if window is opening type

✓ Plant Equipment Specific (Cont'd)

- If chain slings used they must be safety hook type
- Fire extinguisher in cab if only one exit
- Sectional / lightweight or circular outrigger pads if manually handled to reduce risk to personnel
- Where access is required at height for security & maintenance purposes, suitable handrails must be in place to prevent falling from height
- **Equipment for the Lifting of Persons - Suspended Baskets**
- Ability to restrict the working speed of all crane functions to 0.5m/s
- Control levers return to neutral automatically when released
- The SWL of the crane during the lift must be at least twice the total weight of the loaded suspended basket
- Power lowering facility fitted to crane. If not, free - fall capability must be locked out
- Carrier hoisting and lowering ropes minimum diameter of 8mm

✓ Plant Operator – Specific

- CPCS card category:
A60C - all duties; A –blocked duty only; B –pick and carry duties only
- NPORS card category:
N101 - Mobile Crane
- Have evidence of crane familiarisation training for the specific model being used
- Minimum of Cat C driving licence when unit is over 7.5t Gross Vehicle Weight (GVW)
- Safety critical medical
- Plant operator induction (SHE-T-247)
- Lifting equipment operator appointment (OPS-T-968) to be completed
- Be trained in the use of specific lifting attachments

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred



Mobile Crushing Plant



Core specification

- Self-contained diesel powered mobile crushing plant with an output of up to 100 tonnes per hour.

Environmental requirements

- Must comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Operating control functions clearly marked
- Remote control capability
- Isolation switch with key
- Capable of providing telematic data (where available)
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions
- Reverse Alarm
- All moving parts to be adequately guarded
- Where access is required at height for security & maintenance purposes, suitable handrails must be in place to prevent falling from height
- Main control panel lockable by multi locking arrangements to facilitate safe maintenance
- Emergency stop controls to be available at various locations around the machine
- Trip wire required along the conveyor at any sections not fully guarded
- Guards to be fitted with interlock switches to prevent operation with guards removed
- Automatic greasing
- Working platform on machine for maintenance and inspection to be in good order with edge protection intact
- Manufacturer instruction and operator handbook to be with machine

✓ When Crushing

- Mechanical means to remove blockage, operated remotely
- Water mist dust suppression fitted and operational
- Ramp to loading hopper to be effectively bunded
- Physical exclusion, e.g. 2m high HERAS® panels to be erected around the crushing area

✓ Plant Operator – Specific

- CPCS card category:
A42 - Crusher *
- NPORS card category:
N207 –Crusher
- Cat B driving licence
- Safety critical workers medical
- Plant operator induction (SHE-T-247) and relevant plant operator assessment from (SHE-T-246)

✓ PERMITS - For Crushing

- Environmental permits / exemptions from the local planning authority and Environment Agency must be in place prior to crushing.
- The [Aggregates Quality Protocol](#) needs to be adhered to if the intention is to produce a material.

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Ride on Roller



Core specification

- Self-propelled diesel ride on compaction roller from 1t to 13t

Environmental requirements

- Must comply with Stage IIIB or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Supplied with lights and if used on Public Highway compliance with C&U regulations – (VED registered, working Lights, indicators, registration plate's front & rear etc.)
- Flashing amber beacon
- Cab Care System (if fitted with cab)
- Capable of providing telematic data (where possible)
- Small rollers ROPS (where no cab fitted)
- Large machines ROPS and FOPs cab structure where risk of falling objects
- Fitted with front & rear scraper bars on drum(s)
- Integral water supply to drum (where applicable)
- Locking doors with key - for all glazed cab machines
- Live anti-theft tracking system
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions
- White noise reversing alarm
- Locking caps / covers to fuel and all other tanks
- Isolation switch with key
- Under seat starter / isolator pressure switch
- The equipment should not be more than 5 years old
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- CPCS card category:
A31 – Ride on roller
- NPORS card category:
N214 - Road Roller
- Cat B driving licence
- Safety critical medical
- Plant operator induction (SHE-T-247) and relevant plant operator assessment from (SHE-T-246)

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Road Sweeper / Gully Sucker



Core specification

- Vehicle mounted road sweeper or combined road sweeper and gully sucker up to 6,800 capacity

Environmental requirements

- Preference should be given to vehicles with Euro V or VI engines for anything roadgoing.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Chapter 8 compliant beacons, reflective chevrons and Highway / Motorway Maintenance signage if applicable
- Public Highway compliance with C&U regulations – (VED registered, working Lights, indicators, registration plate's front & rear etc.)
- Fleet Operator Recognition Scheme (FORS) - Minimum Bronze
- Compliant with Costain Stop & Think Instructions SHE-T-402
- Current MOT plating certificate
- Waste carriers licence.
- Seat belts must be fitted and operational
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions
- Audible reversing alarm & Reversing Camera
- Isolation switch with key
- Locking doors with key
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- Locking caps / covers to fuel and all other tanks
- Where access is required at height for security & maintenance purposes, suitable handrails must be in place to prevent falling from height
- Wheel nut indicators
- Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure
- Dual gully brush and wide main brush
- Gully sucker and hand lance
- Rear work lights
- Park brake not engaged warning device
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- Minimum of Category "C" driving licence when unit over 7.5t GVW
- Shall hold a current Driver CPC qualification
- Be trained in and comply with the Duty of Care for Waste Carriers
- Operator to be TM trained in 'mobile works'
- Demonstrable training and experience in operation of sweeper / gully sucker
- Safety critical medical
- Plant operator induction (SHE-T-247) and relevant plant operator assessment from (SHE-T-246)

✓ Permits

- **Ensure the subcontractor has the appropriate environmental permits in place to dispose of liquid waste or, the contract have obtained if managed on site.**

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Suction Excavator

Core specification

- Lorry mounted suction / vacuum excavator, 26 or 32t GVW c/w either hydraulic or counterbalanced suction arm.

Environmental requirements

- Preference should be given to vehicles with Euro V or VI engines for anything roadgoing.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)



✓ Plant Equipment – Specific

- Must have whole vehicle type approval if registered after October 2014
- Chapter 8 compliant beacons, reflective chevrons & “Highway/Motorway Maintenance” signage (where applicable)
- Public Highway compliance with C&U regulations – (VED registered, working lights, indicators, registration plates front & rear etc.)
- Current Operator licence displayed
- Current MOT plating certificate
- Fleet Operator Recognition Scheme (FORS) - Minimum Bronze
- **Compliant with the Costain Stop & Think Instruction SHE-T-402**
- Capable of providing telematic data
- Live tracking system
- Seat belts must be fitted and operational
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions
- Reversing camera
- Daylight running lights
- Rear work lights
- White noise reversing alarm
- Emergency stops fitted front and rear
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- Isolation switch key
- Wheel nut indicators
- Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure
- Locking doors with key
- Locking caps / covers to fuel and all other tanks
- All safety decals and warning signage including noise levels should be legible
- All tools must be made of non-conductive material
- Suction nozzles must be made of non-conductive material only
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- CPCS card category:
 - A78 – Vacuum Excavator with additional subcategory dependent upon unit
 - A: Trailer - Manual Arm
 - B: Trailer - Semi powered arm
 - C: Non-LGV – Manual arm
 - D: Non-LGV –Semi powered arm
 - E: LGV - Semi powered arm
 - F: LGV – Fully powered arm - Senior
- **Second Operator:**
 - G: LGV Semi powered arm - second operator (Non - LGV Driver)
 - H: LGV Fully powered arm - second operator (Non - LGV Driver)
- NPORS card category:
 - N021 –Suction Excavator
- HGV / LGV Cat C (class 2) driving license as a minimum
- Must hold a current Driver CPC qualification
- Must comply with the Drivers Hours Regulations
- Safety critical workers medical
- Plant operator induction (SHE-T-247) and relevant plant operator assessment from (SHE-T-246)
- A second operator must be in attendance whilst in operation at all times who is fully trained to operate the machine in case of an emergency
- If fitted with a hydrostatic drive an operator must be present in the driving seat in addition to the operator controlling the machine externally
- If the remote control is operated through an umbilical cord this must extend to allow the operator to work from a place of safety

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Telehandler (forklift)



Core specification

- Vehicle Self-propelled, diesel powered telehandler with a reach up to 20m and lift capacity up to 5,000kg

Environmental requirements

- Hybrid and fuel efficient plant must be given preference wherever available.
- Must comply with Stage IV or higher of EU Directive 97/68/EC and **additionally** in London the 'Low Emission Zone' for NRMM.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- In date 12 month LOLER thorough examination certificate
- Supplied with lights and if used on public highway, compliance with C&U regulations (indicators, registration plate's front & rear etc.)
- ROPS & FOPS protected cab
- Flashing amber beacons
- Capable of providing telematic data
- All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions
- Locking doors with keys
- Isolation switch with key
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- Seat belts must be fitted and operational with visible indication of seat belt engagement or machine isolation when not
- White noise audible reversing alarm
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height
- Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure
- Lifting duty chart to be displayed or available in the cab.
- Longitudinal load Movement control system
- SWL to be clearly marked
- Check valves must be fitted
- If used under overhead cables or near obstructions: Must be fitted with height restrictors with external indication of use
- Locking caps / covers to fuel and all other tanks
- Boom ram lock facility must be provided with the machine
- Protective mesh / fixed glass panel must be fitted to jib side of cab.

✓ Plant Equipment – (Cont'd)

- The equipment should not be more than 5 years old
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- CPCS card category
A17 – Telescopic handler including relevant endorsements for size / slew etc
- If using a fly-jib attachment with a rotating jib / turret telehandler e.g. Merlo, the operator must have a Mobile Crane CPCS Card – category A60 with suitable endorsement for use (A/B/C).
- NPORS card category
N010 - Telescopic Handler
N138 - Telescopic Handler Suspended Loads
(if authorised to work with suspended lads)
- Cat B driving licence
- Safety Critical medical
- Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246)

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Tipper Lorry



Core specification

- Tipper / Tipper Grab lorry over 3.5te and up to 32te GVW, diesel engine, 6 or 8-wheel configuration

Environmental requirements

- Preference should be given to vehicles with Euro V or VI engines for anything roadgoing.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- Must have whole vehicle type approval if registered after Oct '14
- Chapter 8 compliant beacons, reflective chevrons and 'Highway / Motorway Maintenance' signage
- Public Highway compliance with C&U regulations (VED registered, working Lights, indicators, registration plate's front & rear etc.)
- Fleet Operator Recognition Scheme (FORS) - Minimum Bronze
- Current Operator licence displayed
- Current MOT plating certificate
- **Compliant with Costain Stop & Think Instruction SHE-T-402**
- Capable of providing telematic data
- In cab height warning indicator
- Seat belts must be fitted and operational with visible indication of seat belt engagement or machine isolation when not
- Daylight running lights
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions
- Reversing camera & Audible reversing alarm
- Audible / visual tipping alarm
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- Isolation switch with key
- Locking doors with key
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height
- Wheel nut indicators
- Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure
- Automated operation for tailgate
- Manufacturer instruction and operator handbook to be with machine

If fitted with a grab/crane:

- 6-month thorough examination for crane and all lifting accessories
- SWL to be clearly marked

✓ Plant Equipment – (Cont'd)

- Load bearing hydraulic cylinders fitted with check valves
- Vertical exhaust system
- Legs not stowed interlock
- De-rate over cab for stability
- Full leg deployment system (HSPC) to comply with EN12999/A3
- Rear cargo work lights
- Flashing lights on outrigger rams
- Slipper pads and storage boxes
- Boom above horizontal audible warning

✓ Plant Operator – Specific

- Minimum of Cat C driving licence when unit over 7.5t GVW
- Shall hold a current driver CPC qualification
- Operator to be TM trained in "mobile works"
- Driver to be aware and comply with Duty of Care for waste carriers
- Safety Critical Workers Medical
- Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246)
- **If fitted with a grab / crane:**
- CPCS card category:
 - A36 – Lorry loader including relevant endorsements for attachment; A = Hook (separate); B = Clamshell bucket; C = Hydraulic clamp; or,
- NPORS card category:
 - N107 - Lorry Loader; or,
- Equivalent ALLMI card

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Tracked Dozer



Core specification

- Tracked dozer, diesel powered, from 8 – 50 tonne

Environmental requirements

- Must comply with Stage IIIB (>13 tonne is Stage IV) or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific

- ROPS and FOPS protected cab structure where risk of falling objects
- Audible reversing alarm fitted and white noise directional
- Capable of providing telematic data
- Flashing amber beacon
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions
- Seat belts must be fitted and operational with visible indication of seat belt engagement or machine isolation when not
- Locking doors with key
- Locking caps / covers to fuel and all other tanks
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height
- The equipment should not be more than 5 years old
- If winch fitted:
 - Associated lifting accessories to have 6 month thorough examination certificate
- Manufacturer instruction and operator handbook to be with machine

✓ Plant Operator – Specific

- CPCS card category:
 - A34 –Crawler Tractor / Dozer
- NPORS card category:
 - N215 - Dozer
- Safety Critical Workers Medical
- Cat B driving licence
- Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246)

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

Wheeled Loading Shovel



Core specification

- Self-propelled, diesel powered articulated or rigid loading shovel from 2t to 22t

Environmental requirements

- Must comply with Stage IIIB (>13 tonne is Stage IV) or higher of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

✓ Plant Equipment – Specific	✓ Plant Operator – Specific
<ul style="list-style-type: none"> • 12-month thorough examination certificate • 6-month thorough examination certificate on lifting accessories • Lifting duty chart displayed on boom or in cab • Supplied with lights and if used on Public Highway compliance with C&U regulations – (VED registered, working Lights, indicators, registration plate's front & rear etc.) • Capable of providing telematic data • Flashing amber beacon • ROPS for non-cabbed machines & ROPS & FOPS c/w safety glass for cabbed machines • Seat belts must be fitted and operational with visible indication of seat belt engagement or machine isolation when not • All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions • Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility • Where access is required at height for security & maintenance purposes, suitable handrails must be in place to prevent falling from height • Locking doors with keys & locking caps / covers to fuel and all other tanks • Isolation switch with key • Audible, white noise reversing alarm to be fitted • Wheel nut indicators • Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure • Articulation lock must be fitted and operational • Machine lifting and tie down points clearly labelled • Reversing camera (over 15t models) • Manufacturer instruction and operator handbook to be with machine 	<ul style="list-style-type: none"> • CPCS card category: A21 – Wheeled Loading Shovel • NPORS card category: N209 –Loading Shovel • Must be minimum of 18 years of age. • Safety Critical Workers Medical • Cat B driving licence as a minimum • Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246)

Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred

