



## **PART 2**

### **SPECIFICATIONS**

<b>Expression of Interest (EOI)</b>	<b>2023/24 Approved Contractor List for the Hire of Plant</b>
<b>Closing Time &amp; Date:</b>	<b>12:00 Noon (EST) Wednesday, 31 May 2023</b>
<b>EOI Contract Number:</b>	<b>2324-01</b>

## TABLE OF CONTENTS

1.	INTRODUCTION .....	4
2.	TERMS OF ENGAGEMENT .....	4
3.	NATURE AND TERM OF CONTRACT .....	4
4.	ENGAGEMENT .....	5
5.	INTELLECTUAL PROPERTY .....	5
6.	CONDITIONS OF EXPRESSION OF INTEREST .....	5
6.1	EOI Documents.....	5
6.2	EOI Submission .....	5
6.2.1	EOI Submission Documents .....	5
6.2.2	Lodgement Details .....	5
6.2.3	EOI Closing & Opening .....	6
6.2.4	Late Submissions.....	6
6.2.5	Contact Person .....	6
6.3	Form of Contract .....	6
6.4	Price Basis .....	6
6.5	GST .....	6
6.6	Scope of Submissions .....	6
6.7	Evidence of Residency .....	6
6.8	Evidence of Ownership of Plant .....	7
6.9	Acceptance of Expression of Interest.....	7
6.10	Other Requirements.....	7
7.	EVALUATION CRITERIA .....	7
8.	PRICING .....	7
9.	ANNEXURE A - PLANT REQUIREMENTS .....	8
9.1	INTRODUCTION .....	8
9.2	SAFETY STANDARDS .....	8
9.2.1	Neutral Start.....	8
9.2.2	Service Brakes.....	8
9.2.3	Park Brake .....	8
9.2.4	Trailer Brake .....	9
9.2.5	Emergency Stop Devices.....	9
9.2.6	Protective Structures (ROPS/FOPS.....	9
9.2.7	Seat Belts .....	9
9.2.8	Reverse or Travel Alarm .....	10
9.2.9	Compulsory Signs.....	10
9.2.10	Quick Hitch.....	11
9.2.11	Machinery Guards.....	11
9.2.12	Provision of Information .....	11
9.2.13	Fire Extinguishers .....	11
9.3	REGISTRATION REQUIREMENTS .....	11
9.3.1	Registration/Unregistered Vehicle Permit .....	11
9.3.2	Equipment.....	11
9.3.3	Windscreen Wipers.....	11
9.3.4	Lights and Reflectors .....	12
9.3.5	Reflective Tape .....	12
9.3.6	Horn .....	12
9.3.7	Amber Beacon .....	12
9.3.8	Rear Vision Mirrors .....	12
9.4	GENERAL REQUIREMENTS .....	12

9.4.1	Mechanical Requirements .....	12
9.4.2	Chassis/Cabin Requirements.....	13
9.4.3	Miscellaneous Requirements.....	13
9.4.4	Lifting Requirements .....	14
9.5	MAJOR DEFECTS.....	14

## 1. INTRODUCTION

The Goondiwindi region is located in the Darling Downs, Queensland, Australia. The local government area is situated along the state's border with New South Wales, approximately 350 kilometres south west of the Queensland state capital, Brisbane. The Council area has a total land area of about 19,300km<sup>2</sup>.

It is home to around 10,400 people, comprising of a number of different areas that offer many attractions to both tourists and locals alike. The region is predominately rural, with urban areas in a number of towns, with the largest urban centre being Goondiwindi, which includes residential; commercial and industrial areas. Other small towns are located at Inglewood, Texas, Bungunya, Talwood, Toobeah and Yelarbon.

The region's prosperity is based on its extensive agricultural and pastoral industries that produce some of Australia's best wheat, beef cattle, wool, cotton and other specialty crops for domestic and overseas markets.

Goondiwindi Regional Council (GRC) has a vision to strengthen their thriving regional lifestyle and prosperous economy by providing leadership in making locally responsive and informed decisions while delivering quality services and facilities to their communities within the Goondiwindi region.

Council provides residents with a wide range of services including road maintenance and construction; town planning and development controls; water and sewerage; waste collection and disposal; community cultural and recreational activities; library services; cemeteries; maintenance of parks and public areas.



## 2. TERMS OF ENGAGEMENT

Goods and services required for this engagement are provided below to assist the Tenderer with their response.

## 3. NATURE AND TERM OF CONTRACT

Goondiwindi Regional Council (GRC) is inviting fixed priced submissions for Expressions of Interest (EOI) 2324/01 from suitably qualified, experienced and resourced **CONTRACTORS THAT RESIDE OR HAVE A REGISTERED PLACE OF BUSINESS WITHIN THE GRC LOCAL GOVERNMENT AREA** for inclusion on

an approved contractor list for the intermittent hire of plant from 1 July 2023 to 30 June 2024. From this register, plant will be ordered by GRC on a needs basis throughout the contract period.

#### 4. ENGAGEMENT

Engagement of the successful Contractors for inclusion in the 2023/24 Preferred Supplier Approved Contractor List for the Hire of Plant will be notified in writing. The terms and conditions of the engagement include any additional special conditions and amendments detailed in this Expressions of Interest (EOI).

#### 5. INTELLECTUAL PROPERTY

All Intellectual Property developed as part of this engagement remains the property of Council.

#### 6. CONDITIONS OF EXPRESSION OF INTEREST

##### 6.1 EOI Documents

The following comprise the Expression of Interest (EOI) documentation:

- (a) Part 1: Expression of Interest;
- (b) Part 2: Specification
- (c) Part 3: EOI Response Forms Documentation;
- (d) Part 6: General Conditions & Special Conditions of Contract

##### 6.2 EOI Submission

###### 6.2.1 EOI Submission Documents

Notwithstanding other information requested elsewhere in the documentation, the Contractor shall submit the following completed and signed documentation:

- (a) Part 3: EOI Submission Documentation comprising:
  - (i) EOI Response Forms;
  - (ii) Checklist;
  - (iii) Selection Criteria;
  - (iv) Schedule of Rates A - Misc Plant (if applicable);
  - (v) Schedule of Rates B – Trucks (if applicable);
  - (vi) Schedule of Insurances;
  - (vii) Evidence of Residency;
  - (viii) General Conditions & Special Conditions Acknowledgement; and
  - (ix) Appendix A Contractor's Occupational Health & Safety Management System Questionnaire.

**Any submission that is not accompanied by adequate information for evaluation may not be accepted**

###### 6.2.2 Lodgement Details

Refer to ***Part 1 Request for Quotation 7. Lodgement of Tender***

The completed EOI Submission Documents shall be enclosed in a sealed envelope clearly marked “**EOI 2324/01– 2023/24 Approved Contractor List for the Hire of Plant.**”

EOI documentation shall be lodged:

- (a) By post to:
  - Goondiwindi Regional Council
  - LMB 7
  - INGLEWOOD QLD 4387
  - OR
- (b) By hand delivery to:

The office of the Goondiwindi Regional Council located at:

- i) 4 McLean Street, Goondiwindi;
- ii) High Street, Texas; or
- iii) 8 Elizabeth Street, Inglewood.

(c) By email to:

[tenders@grc.qld.gov.au](mailto:tenders@grc.qld.gov.au)

Request for tender received by facsimile or telephone will not be considered.

### 6.2.3 EOI Closing & Opening

EOI shall be lodged on or before the closing time of **12:00 noon (EST), Wednesday 31 May 2023** at the Public Offices of GRC.

GRC may extend the Closing Time at its discretion.

EOI will not be opened publicly and schedule of rates will not be made available externally to Council.

### 6.2.4 Late Submissions

EOI's lodged or received by GRC after the stated closing time will be deemed to be a late submission. A late submission will only be admitted for evaluation at GRC's discretion.

### 6.2.5 Contact Person

Enquiries regarding this EOI may be directed to:

Name: Andrew Leach  
Title: Executive Assistant to Director Engineering Services  
Phone: 07 4671 7449  
Email: [aleach@grc.qld.gov.au](mailto:aleach@grc.qld.gov.au)

### 6.3 Form of Contract

Successful Contractors will be accepted for inclusion on an approved contractors list between GRC and the Contractor for the intermittent hire of miscellaneous plant.

### 6.4 Price Basis

Price basis shall be at a fixed price for a twelve (12) month period. The Contractor has an option of reviewing the quoted price on completion of the initial six (6) month contract period.

### 6.5 GST

All prices shall be inclusive of GST.

GRC is not obligated to pay any additional amount to the Contractor on account of GST on the supply of the goods and/or services.

### 6.6 Scope of Submissions

Submissions shall be limited to Contractors that either reside or have a registered place of business within the GRC local government area.

### 6.7 Evidence of Residency

Contractors must provide evidence to demonstrate that they reside or have a registered place of business within the GRC local government area by submitting a copy of at least one of the following documents:

- (a) Rates Notice;
- (b) Drivers Licence;
- (c) Phone Bill; or

(d) Electricity Bill.

Failure to produce satisfactory evidence will result in the Contractor's entire offer being rejected.

#### 6.8 Evidence of Ownership of Plant

GRC may request evidence of ownership of plant. Failure by the Contractor to produce satisfactory evidence will result in the Contractor's entire offer being rejected or removed from the approved contractors list.

#### 6.9 Acceptance of Expression of Interest

GRC shall not be bound to accept the lowest or any submission. Any EOI which does not comply in every respect with the requirements of these EOI Documents may not be accepted by GRC.

GRC will notify each Contractor in writing whether it has been included on the approved contractor list for the hire of plant.

#### 6.10 Other Requirements

Successful Contractors for Council must have an understanding of statutory obligations and comply with all other relevant laws and regulations.

Contractors must comply with Council's Workplace Health & Safety requirements and must have an understanding of Council's internal and legislative health and safety policies with a view to actively assess and manage workplace risks.

## 7. EVALUATION CRITERIA

Expressions of Interest will be evaluated using the information provided in the Tender Response Forms document and supporting information. GRC will select, in its absolute discretion, which Contractors are accepted under this contract based on the following selection criteria:

<b>1. Past Performance</b> Tenderer provides details of similar work and tenderer's involvement, including demonstrated competency and proven track record of achieving outcomes.	<b>25%</b>
<b>2. GRC Residency</b> Tenderer provides evidence of residency within the local area of Goondiwindi Regional Council.	<b>25%</b>
<b>3. Suitability of Plant</b> Tenderer provides details of Plant including schedule of insurances, certificate of currency and proof of ownership.	<b>25%</b>
<b>4. Compliance with Contract Documentation Documents</b> Tenderer provides all documentation detailed in <b>6.2.1 EOI Submission Documents</b>	<b>25%</b>
<b>TOTAL</b>	<b>100%</b>

Any submission which does not comply may not be accepted

## 8. PRICING

Services are to be provided under the fee offered by the tenderer in Part 3, EOI Response Forms – Section: Pricing Schedule.

## 9. ANNEXURE A - PLANT REQUIREMENTS

### 9.1 INTRODUCTION

All plant must comply with the *Work Health and Safety Act 2011*, *Work Health and Safety Regulation 2011*, Federal and State legislation, and relevant Australian Standards in addition to the requirements set out below.

Plant includes road constructions plant, trucks and motor vehicles.

### 9.2 SAFETY STANDARDS

#### 9.2.1 Neutral Start

Neutral start switches shall be fitted to all construction plant and equipment, excluding trucks without automatic transmissions and motor vehicles. Neutral start switches must operate on all transmissions other than manual gearboxes fitted with a mechanical type clutch. Neutral Start switches must operate on all automatic transmissions except those provided in motor vehicles.

Excavators and skid steer loaders are exempt from the normal type of neutral start switch. All original type safety/hydraulic locks must operate correctly and travel levers must self-centre to the neutral position.

#### 9.2.2 Service Brakes

Brake components must be free from leaks or defects and be securely mounted. Brake controls must be fully operational and free from any defects. Air systems and tanks must be free from leaks and contamination.

Plant fitted with steel drums or a combination of steel drums/rubber tyres or tracks, while on the maximum operating gradient specified by the manufacturer, must be capable of stopping as shown in the table below:

Plant Operating Mass	Stopping Distance from 5 km/hr
Less than 5400 kg	1.2 metres
5400 kg to 13600 kg	1.5 metres
Greater than 13600 kg	1.9 metres

Plant fitted with rubber tyres, while on the maximum operating gradient specified by the manufacturer, must be capable of stopping as shown in the table below:

Plant Operating Mass	Stopping distance from 30 km/hr
Up to 2500 kg	9 metres
Greater than 2500 kg	14 metres

#### 9.2.3 Park Brake

On implement-type plant the park brake must be capable of holding the plant item on an incline of:

- 15%, i.e. approximately 1 in 7, or 9 degrees for wheeled plant; or
- 25%, i.e. 1 in 4, or 14 degrees for rollers.

A "fail safe" braking system on hydro-statically driven plant will receive a higher evaluation rating than similar plant without this system.

For truck-mounted plant the emergency brake must meet the following minimum braking standard:

Plant Operating Mass	Stopping Distance from 30 km/hr
Up to 2500 kg	22 metres
Greater than 2500 kg	34 metres



### 9.2.4 Trailer Brake

Trailer brakes where fitted must be fully operational and free from any defects. Air systems must be free from leaks and contamination.

### 9.2.5 Emergency Stop Devices

Emergency stops must be prominent, clearly and durably labelled and easily accessible to the operator. Handles, bars or push buttons must be coloured red. These devices must not be capable of being affected by any electrical or electronic malfunction.

### 9.2.6 Protective Structures (ROPS/FOPS)

All earthmoving machinery designed to have a mass of 700 kg or more, but less than 100,000 kg must comply with the following:

- (a) if the machinery was manufactured, imported or originally purchased after 1 July 1989 it must be securely fitted with a protective structure that conforms with AS 2294.1 – 1997, AS 2294.2 – 1997 and AS 2294.3 – 1997 Earthmoving machinery Protective Structures; or
- (b) if the machinery was manufactured, imported or originally purchased before 1 July 1989, it must be securely fitted with:
  - (i) a protective structure that conforms with AS 2294.1 – 1997, AS 2294.2 – 1997 and AS 2294.3 – 1997; or
  - (ii) if such a structure is not available, an alternative protective structure designed by a suitably qualified engineer having regard to the performance requirements of AS 2294.1 – 1997, AS 2294.2 – 1997 and AS 2294.3 – 1997.

Tractors designed to have a mass of 560 kg or more, but less than 15,000 kg must comply with the following:

- (a) if the tractor was manufactured, imported or originally purchased after 1981, it is securely fitted with a protective structure that conforms with AS 1636.1–1996, AS 1636.2-1996 and AS 1636.3-1996 *Tractors – Roll-over Protective Structures – Criteria and Tests*, or
- (b) if the tractor was manufactured, imported or originally purchased before 1981, it is securely fitted with:
  - (i) a roll-over protective structure that conforms with AS 1636.1-1996, AS1636.2 -1996 and AS1636.3-1996 *Tractors – Roll-over Protective Structures – Criteria and Tests*, or
  - (ii) if such a structure is not available, an alternative roll-over protective structure designed by a suitably qualified engineer having regard to the performance requirements of AS 1636.1-1996.

The protective structure must be identified with the information required by AS 2294.1 – 1997, AS 2294.2 – 1997 and AS 2294.3 – 1997.

### 9.2.7 Seat Belts

Any plant fitted with a roll-over protective structure must be fitted with seat belts conforming with one of the following Standards:

- Australian Standard AS 2664 - 1983.
- Society of Automotive Engineers SAE J386.
- International Standard ISO 6683.

Tractors fitted with a roll-over protective structure must be fitted with seat belts conforming to one of the following Standards:

- Australian Standard AS 2596.
- Society of Automotive Engineers SAE J386 or equivalent.

Each seat belt assembly or part assembly shall be permanently and legibly marked with the following:

- The manufacturer's name and trademark.
- Date of manufacture by month and year.
- Manufacturer's identification code (relevant standard).

Plant manufactured after June 1989 and fitted with a ROPS/FOPS must have a sign in the operator's compartment warning of the possibility of a roll-over hazard and advising the operator to wear the seat belt.

All trucks and motor vehicles shall be fitted with seatbelts complying with the appropriate standard. Seatbelts must be free of defects and capable of being worn at all times.

### 9.2.8 Reverse or Travel Alarm

All plant and trucks must be fitted with a reverse alarm which is automatically activated when reverse gear is selected. The alarm must be mounted with unobstructed 'vision' to the rear of the plant.

Excavators and other plant with restricted operator vision in both forward and reverse directions must be fitted with a travel alarm which operates in both directions.

The output of the alarm must be **clearly audible** above the noise level of the plant. The base noise level of the alarm shall be not less than 87 dB(A) measured at a distance of 1 metre.

For rollers with an operating mass less than 4,500 kg, an alarm with a base noise level of 85 dB(A) is acceptable, provided the plant:

- a) Has a noise level less than 80 dB(A); and
- b) Does not have an enclosed cab.

Truck and trailer combinations must be fitted with a reverse alarm at the rear of the rear-most trailer.

### 9.2.9 Compulsory Signs

Minimum compulsory sign requirements are summarised in Table 1 at the end of this section. Safety specific signs are listed below:

**1. Hearing Protection**

Any plant with a noise level above 85 dB(A) **must** be fitted with two 225 mm hearing protection signs, one each side, and one 50 mm hearing protection sign fitted to the operator's console.

**2. Safe Working Load (SWL)**

Safe working loads **must** be distinctively labelled on all backhoes, excavators and loaders that are used for lifting loads.

**3. Electrical Hazard Warning**

Plant and trucks whose height can alter whilst working **must** have an Electrical Hazard Warning notice fitted so that it is in clear view of the operator. The notice must display the minimum safe working distances.

**4. Roll-Over Hazard - seat belt warning**

All plant fitted with a ROPS canopy **must** have a safety sign warning that a roll over hazard exists and requiring the operator to wear the seat belt.

**5. Articulation joint crush zone**

All articulated plant **must** have an appropriate safety warning sign fitted.

**6. Hydraulic steering**

Plant with hydraulic steering **must** have a sign warning of the importance of maintaining hydraulic fluid level.

**7. Confined space**

Plant with a confined space, eg water tankers, **must** have a warning sign fitted near the entry point to the confined space.

**8. Dual control**

Plant capable of being operated from either driving position **must** have a warning sign fitted to the front and rear of the vehicle indicating dual control.

**9. Left hand drive**

Plant capable of being operated from the left hand driving position **must** have a warning sign fitted to the front and rear of the vehicle indicating left hand drive.

**10. Water-filled tyres**

Plant fitted with water-filled tyres, or tyres that can be filled with water, **must** have a warning sign adjacent to each tyre.

**11. Lime / Cement spreaders and pugmills**

Lime / Cement Spreaders and Pugmills are to be fitted with the following warning signs to advise the operator of the personal protective equipment to be worn:

- Dust Mask
- Eye Protection (goggles not glasses)
- Gloves
- Overalls

### 9.2.10 Quick Hitch

All hydraulic quick hitches must be fitted with an independent latching device which is both positively and mechanically locked in the engaged position and needs to be intentionally disengaged for the attachment to be uncoupled.

Latching systems for hydraulic quick hitches that are not supplied by the manufacturer of the plant shall be certified by a qualified mechanical engineer as suitable for the purpose. The quick hitch and all attachments must be correctly matched.

Hitches must be identified with:

- a) a unique identification mark;
- b) manufacturer's name and model;
- c) maximum rated attachment capacity;
- d) mass of the hitch; and
- e) lift point capacity (Kg).

### 9.2.11 Machinery Guards

All rotating, moving or hot components must be fitted with an appropriate safety guard to prevent injury to any persons.

### 9.2.12 Provision of Information

Manufacturers manuals providing relevant information on operating and emergency features of the plant item shall be located and secured within the cabin for the use of operators and inspectors and other persons affected by the operation of the plant.

The contractor must ensure that relevant information on operating and emergency features of the plant is clearly displayed for the use of the Operator, inspectors and other persons affected by the operation of the plant.

### 9.2.13 Fire Extinguishers

All plant shall have an operating Dry Powder fire extinguisher fitted within the cabin. The minimum size of extinguisher shall be as follows unless larger specified by regulation:

Motor vehicles	1 kg
Trucks	2 kg
Plant	4 kg

Servicing of fire extinguishers on a 6 monthly basis to meet statutory requirements must be arranged by the contractor.

Operators shall immediately report defects or discharge of Fire Extinguishers to Council and complete the Plant Service/Defect Report form (PLANT-02). Council will promptly arrange for the refilling, replacement and/or repair of the fire extinguisher at cost to the contractor.

## 9.3 REGISTRATION REQUIREMENTS

### 9.3.1 Registration/Unregistered Vehicle Permit

All plant must be either fully registered or covered by an unregistered vehicle permit unless exempted . The appropriate registration label must be affixed in a secure, visible location. All old labels must be removed.

### 9.3.2 Equipment

The minimum equipment requirements for plant are shown in Table 2 at the end of this section.

### 9.3.3 Windscreen Wipers

Plant having a windscreen must have an operative windscreen wiper which effectively clears the screen directly in front of the operator and gives an adequate view in front of the plant. Wipers fitted to other windows must also operate effectively.

### 9.3.4 Lights and Reflectors

The requirements for lights and reflectors are shown in Table 2 at the end of this section. Plant and trucks required to work at night work must have suitable and efficient lights, including headlights or work lights.

### 9.3.5 Reflective Tape

Dozers and excavators which do not have rear reflectors, and all rollers must be fitted with side and rear reflective tape. Requirements for other plant are shown in Table 2 at the end of this section.

*Material* - The tape must be **red** and **yellow** with a retro-reflective surface. Photometric performance and durability must comply with Class 2, AS 1906.

*Size* - The total surface area of reflective tape must be at least 0.32 square metres, e.g. 150 mm by 2100 mm.

*Installation* - The tape must be evenly applied to the rear and sides of the plant. Tape must not be applied to the front of plant.

Where practical, the lower edge of the tape shall be between 400 mm and 1500 mm from the ground, with the outermost edge less than 150 mm from the corners of the plant.

### 9.3.6 Horn

All plant and trucks must be equipped with a clearly audible horn. Exhaust whistles, compression whistles, sirens or alternating tone horns are not acceptable.

### 9.3.7 Amber Beacon

Plant must have at least one amber beacon which is **wired through the ignition switch** and is active whenever the plant is travelling or operating on the job site.

The beacon shall be mounted as near as possible to the top of the plant or truck, and be clearly visible in normal daylight at a distance of 200 metres in all directions. The beacon shall be either a halogen rotating type (minimum 55 watt) or flashing strobe type (minimum 8 joule double pulse).

Water tankers and trucks may be fitted with a switch to turn the beacon off when travelling on roads outside the job site.

### 9.3.8 Rear Vision Mirrors

All plant must be fitted with rear vision mirrors that provide adequate rear vision on both sides of the plant.

## 9.4 GENERAL REQUIREMENTS

### 9.4.1 Mechanical Requirements

**Leaks** -The engine, transmission, drive-line, hydraulics and fuel system must not have any leaks which allow oil or fuel to drip onto the road surface, or on exhaust system or on brake components. Steering and brake systems must be free from leaks. Catch trays or tanks to contain leaks are unacceptable.

**Engine** -Must start readily and easily and provide sufficient power.

**Battery**-Must have sufficient power storage capability to easily restart the engine and to run the electrical system. The battery and any connections must be securely mounted and free from any cracks or leaks. Loose connections which could cause arcing are unacceptable. Frequent jump starting is dangerous and unacceptable.

**Cooling System** -Must provide efficient cooling for all climatic conditions. All drive belts and hoses must be free from deterioration and/or leaks.

**Exhaust System** -Must be free from leaks and be securely mounted.

**Exhaust Smoke** -Plant must not emit visible smoke for continuous periods of more than 10 seconds (Protection of the Environment Operations Act 1997).

**Transmission and Final Drive** -Must operate to the manufacturers specifications and be free of leaks. Manual gearboxes coupled to hydrostatic drives must be capable of being locked in gear to prevent accidental gear selection.

**Hydraulics** -All hydraulic functions must respond quickly and smoothly, and be free from leaks and hydraulic creep. Time for the hydraulics to "warm up" must be within manufacturer's specifications.

Plant used as a crane with a safe working load greater than 3000 kg must be fitted with anti-drop valves.

#### 9.4.2 Chassis/Cabin Requirements

**Chassis/Frame** -Must be free from damage, cracks, advanced rust, missing or loose bolts, sharp edges or protrusions that could cause personal injury.

**Body/Cabin/Steps and Handrails** -Must be free from cracks, advanced rust, missing or loose bolts, sharp edges or protrusions that could cause personal injury. All doors, door locks and latches must be secure and functional.

Plant with fully enclosed cabins that have no opening windows must have an operational air conditioner fitted.

Steps and handrails must be as originally manufactured.

**Windows** -The windscreen and all other windows must be free from defects which impair visibility. Front windscreens are to approved laminated type glass only. All other glass must be an approved safety type. Clear Lexan may be used to replace glass in side and rear windows only.

**Suspension** -Suspension components must not be broken, loose, cracked, cut, missing or modified. All nuts, bolts and locking devices must be in place and secure. The maximum allowable wear in any suspension component must not exceed manufacturers specifications, or where these are not available, 3 mm.

**Steering** -Steering components must not be broken, loose, cracked, cut, missing or modified. All nuts, bolts and locking devices must be in place and secure. The maximum allowable free play in any steering joint is 3 mm. Rotational free play at the steering wheel must not exceed 100 mm.

The steering must operate smoothly in both directions. The operation of the steering, from lock to lock, on plant with full hydraulic steering is to be checked at approximately half maximum engine speed.

**Tyres** -Must be free from deep cuts, bulges, exposed cords or other signs of casing failure. Traction tyres must provide adequate grip. Tyres must be the correct type, load rating and size to suit the wheel rims. Tyres on trucks and motor vehicles must comply with TMR requirements for tread depth, etc.

A spare wheel/tyre must be carried by all graders, trucks and motor vehicles.

**Tracks** -Tracks and related equipment must be in good condition and must provide sufficient traction.

#### 9.4.3 Miscellaneous Requirements

**Air Conditioning** – All plant with enclosed cabins must have a functional air conditioner fitted.

**Controls and switches** - All controls and switches must:

- be in good condition
- be secure;
- function correctly and be free of excessive wear;
- perform as designed,
  - be permanently and clearly labelled to indicate the direction of the movement or function.

**Seat** - The operator's seat must be in good condition, secure and must not affect the operator's ability to operate the plant.

**Work Attachments** - All attachments including buckets, blades, cutting edges, tynes, hydraulic tools, etc shall be securely mounted, free from cracks, leaks or any defects and be in good condition and working order.

**Tool Kit** – All plant shall be provided with a basic tool kit including grease gun, spanners, jacks, etc in a secure tool box to allow for servicing and to carry out minor repairs and adjustments in the field. Additional tools and equipment such as chains, dogs, etc shall be provided for specific plant. A tool card detailing items for each plant will be included in the tool box.

**Articulation Joints/Fifth Wheel** - Clearance in the articulation joint must be within the manufacturer's specifications. There must be a means of locking the articulation joint. Clearance in the fifth wheel must be within the manufacturer's specifications.

**Electrical System** - All electrical equipment must operate as intended by the manufacturer. Electrical wiring and connections, both inside and outside the plant, must be secure and free from any damage or corrosion. Insulation must not be chafed or exposed to excessive heat.

**Plant Security** - Parts of the plant which are critical to its operation and which are subject to vandalism such as engine and console covers, fuel caps, etc must be adequately protected and fitted with appropriate locking devices. Cabins must have provision to be locked.

**Load Covering Devices** – Load covering devices that minimise the risk of loose material falling onto the roadway must be provided on any tipping truck and may include permanently mounted or temporary devices.

**Load Restraining devices** – tie down straps, etc capable of restraining a load in the event of a rollover accident will be provided for commercial trucks and trailers and included in the toolbox.

**Truck Body** – Trucks and trailers must have hydraulic tipping bodies with a self-supporting safety prop permanently attached to support the body when required. Tip over axle/body tippers are exempt from safety props.

Bodies must be free of any defects that will allow any loss of material particularly tailgates

**Noise level** – Noise emissions from plant must be less than 5 dB(A) above the manufacturer's original specifications. Plant not meeting this requirement will be required to take necessary action to comply. All noise attenuation devices must be maintained in good working condition. Noise levels for those staff operating plant must not exceed 85 dB(A) over an eight hour period as measured according to the method described in AS 2012.2

**Tow Bar** – The recommended height for towing equipment is 760 mm unladen for trucks only. Tow couplings must be stamped with the manufacturers name and capacity.

Trailer brake connections must be dual line air with self-sealing quick release couplings. The safety chain connection(s) must be of an approved type and capacity.

#### 9.4.4 Lifting Requirements

Plant that may be used as cranes such as backhoes, loaders and excavators, and having components used for lifting (hooks and lugs) that do not have a manufacturer's ID and SWL will, at the discretion of Council, require a Structural Engineer's certificate for these components.

#### 9.5 MAJOR DEFECTS

Plant with any of the following defects at the time of an inspection will have its hire terminated:

- a) Defective Neutral start switch;
- b) Defective service, park or emergency brakes;
- c) Defective seatbelt or absence of a seat belt when ROPS is fitted;
- d) Inoperative or inaudible reverse/travel alarm;
- e) Mechanical lock pin not available or not fitted to the quick hitch;
- f) Machinery guards not fitted;
- g) No manual transmission lock (applies to rollers);
- h) Dangerous suspension, steering or tyres;
- i) Dangerous chassis defects;
- j) Continuous dark exhaust smoke;
- k) Plant is unregistered;
- l) Any other condition which could impair the safe operation of the plant

Table 1 - Minimum compulsory sign requirements

Plant Item	Hearing Protection	SWL	Electrical Hazard Warning	ROPS Hazard "Wear Seat"	Articulation Joint Crush	Hydraulic Steering	Confined Spaces	Dual Control	Left Hand Drive
<i>Backhoe loader</i>	Yes <sup>2</sup>	Yes <sup>1</sup>	Yes	Yes <sup>1</sup>	No <sup>3</sup>	Yes	No	No	No
<b>Cherry Picker</b>	No	Yes	Yes	No	Yes	No	No	No	No
<b>Compactor (landfill)</b>	Yes <sup>2</sup>	No	No	Yes <sup>1</sup>	Yes	Yes	No	No	No
<b>Compressor</b>	Yes <sup>2</sup>	No	No	No	No	No	No	No	No
<b>Dozer</b>	Yes <sup>2</sup>	No	No	Yes <sup>1</sup>	No	Yes	No	No	No
<b>Excavator</b>	Yes <sup>2</sup>	Yes <sup>1</sup>	Yes	Yes <sup>1</sup>	No	Yes	No	No	Yes <sup>1</sup>
<b>Grader</b>	Yes <sup>2</sup>	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes	No	No	No
<b>Garbage Compactor Truck</b>	Yes	Yes	Yes	No	No	Yes	Yes	Yes <sup>1</sup>	Yes <sup>1</sup>
<b>Lime/Cement spreader<sup>4</sup></b>	Yes <sup>2</sup>	No	No	No	Yes <sup>1</sup>	No	Yes	No	No
<b>Loader</b>	Yes <sup>2</sup>	Yes <sup>1</sup>	Yes	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes	No	No	No
<b>Mower, deck</b>	Yes <sup>2</sup>	No	No	Yes <sup>1</sup>	No	Yes	No	No	No
<b>Multi tyred roller</b>	Yes <sup>2</sup>	No	No	Yes <sup>1</sup>	No	Yes	Yes <sup>1</sup>	Yes <sup>1</sup>	No
<b>Padfoot roller</b>	Yes <sup>2</sup>	No	No	Yes <sup>1</sup>	Yes	Yes	No	Yes <sup>1</sup>	No
<b>Paver</b>	Yes <sup>2</sup>	No	No	No	No	Yes	No	Yes <sup>1</sup>	No
<i>Prime Mover &amp; Trailer/Tanker</i>	Yes <sup>2</sup>	No	Yes	No	Yes	Yes	Yes	No	No
<b>Profiler</b>	Yes <sup>2</sup>	No	Yes	Yes <sup>1</sup>	No	Yes	No	Yes <sup>1</sup>	No
<b>Scraper</b>	Yes <sup>2</sup>	No	No	Yes <sup>1</sup>	Yes	Yes	No	No	Yes <sup>1</sup>
<b>Skid steer loader</b>	Yes <sup>2</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	No	Yes	No	No	No
<b>Smooth drum roller</b>	Yes <sup>2</sup>	No	No	Yes <sup>1</sup>	Yes	Yes	No	Yes <sup>1</sup>	No
<b>Soil Stabiliser</b>	Yes <sup>2</sup>	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes	No	Yes <sup>1</sup>	Yes <sup>1</sup>
<b>Tandem drum roller</b>	Yes <sup>2</sup>	No	No	Yes <sup>1</sup>	Yes	Yes	No	Yes <sup>1</sup>	No
<b>3 Point roller</b>	Yes <sup>2</sup>	No	No	Yes <sup>1</sup>	Yes	Yes	No	Yes <sup>1</sup>	No
<b>Tractor &amp; attachments</b>	Yes <sup>2</sup>	No	No	Yes <sup>1</sup>	No	Yes	No	No	No
<b>Truck</b>	Yes <sup>2</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	No	No	Yes	No	Yes <sup>1</sup>	Yes <sup>1</sup>
<i>Water Tanker</i>	Yes <sup>2</sup>	No	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes	No	No

Notes applying to table:

1. Denotes that these warning signs must be fitted where applicable.
2. Hearing Protection signs must be fitted when noise levels exceed 85 dB(A)
3. Recommended that these signs be fitted near the boom area.
4. Lime/Cement spreaders must also be fitted with warning signs to advise that eye protection, dust mask, gloves & overalls must be worn while operating the equipment.

**All plant with water-filled tyres must have a warning sign adjacent to each tyre.  
Emergency stop devices must be clearly marked/labelled**

Table 2 - Minimum plant equipment requirements

Plant Item	Amber Rotating Beacon	Brake lights & turn signals	Head Lights	Tail & Clearance Lights	Rear Reflectors	Rear & side Reflective Tape	Rear vision Mirror(s)	Horn	Reverse or Travel Alarm	Neutral Start
Backhoe loader	Yes	Yes	Yes	Yes <sup>1</sup>	Yes	No	Yes	Yes	Yes	Yes
Cherry Picker	Yes	Yes	No	Yes	Yes	No	No	No	No	Yes
Compactor	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes
Dozer	Yes	No	No	No	Yes	Yes <sup>3</sup>	Yes	Yes	Yes	Yes
Excavator	Yes	No	No	No	Yes	Yes <sup>3</sup>	Yes	Yes	Yes	Yes <sup>4</sup>
Grader	Yes	Yes	No	Yes <sup>1</sup>	Yes	No	Yes	Yes	Yes	Yes <sup>4</sup>
Lime/Cement Spreader	Yes	Yes	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes	No	Yes	Yes	Yes	Yes
Linemarkers & Trailer	Yes	Yes	No	Yes	Yes	No	No	No	No	Yes
Loader	Yes	Yes	No	Yes <sup>1</sup>	Yes	No	Yes	Yes	Yes	Yes
Multi tyred roller	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mower, Deck	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes
Padfoot roller	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3 Point roller	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Paver	Yes	No	No	No	No	Yes <sup>2</sup>	Yes	Yes	Yes	Yes
Profiler	Yes	No	No	No	No	Yes <sup>2</sup>	Yes	Yes	Yes	Yes
Scraper	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes
Skid steer loader	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes <sup>4</sup>
Smooth drum roller	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Soil Stabiliser	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes
Tandem drum roller	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tractor & Attachments	Yes	Yes	Yes	Yes <sup>1</sup>	Yes	No	Yes	Yes	Yes	Yes <sup>4</sup>
Trucks	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes <sup>4</sup>
Water Tanker	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes <sup>4</sup>

Notes applying to table:

1. Only required if plant item is on full 24 hour registration.
2. If no rear reflectors, brake lights and turn signals.
3. If no rear reflectors.
4. Refer to section 4.4.1 for detailed requirements