

## Attachment 12: Analysis of plant hire rates

### Major Plants hire rate assessment

<i>Plant</i>	<i>Current Hire Rate</i>	<i>Actual Hire rate per 1200 hr operation</i>	<i>Required yearly recovery</i>	<i>Recovery in Days</i>
<i>Truck- plant 173</i>	<b>70</b>	<b>102.94</b>	<b>123528</b>	<b>208</b>
<i>Truck trailer</i>	<b>20</b>	<b>15.73</b>	<b>18876</b>	<b>111</b>
<i>Truck plus Trailer</i>	<b>90</b>	<b>118.67</b>	<b>142404</b>	<b>186</b>
<i>Grader- plant 234</i>	<b>75</b>	<b>90.74</b>	<b>108888</b>	<b>171</b>
<i>Grader - plant 2703</i>	<b>75</b>	<b>105.4</b>	<b>126480</b>	<b>198</b>
<i>Grader- plant 2709</i>	<b>75</b>	<b>95.01</b>	<b>114012</b>	<b>179</b>
<i>Grader- plant 228</i>	<b>75</b>	<b>92.17</b>	<b>110604</b>	<b>173</b>

### Tip Truck:

#### PLANT # 173

#### PLANT DESCRIPTION: Tip Truck - 20/9/2006

TOTAL PURCHASE PRICE - 20/9/2006	\$166,251.00
ESTIMATED MARKET VALUE ON DISPOSAL	\$60,000.00
OWNERSHIP PERIOD YEARS	10
ANNUAL DEPRECIATION	<b>\$10,625.10</b>
OPPORTUNITY COST / INTEREST (8%)	\$13,300.08
INSURANCE / REGISTRATION - (0.25% / + REGO)	\$6,800.00
OWNING COST	\$30,725.18
ANNUAL OPERATING HOURS	<b>1200</b>
HOURLY OWNING COSTS	\$25.60

#### **HOURLY OPERATING COST**

#### FUEL

UNIT COST (cents / lts)	\$1.45
CONSUMPTION (lts / hour)	37.2
TOTAL COST (per hour)	\$53.94

#### TYRES

ESTIMATED TYRE LIFE (hours)	2,700.00
REPLACEMENT COST (per set)	\$6,694.00
TOTAL COST (per hour)	\$2.48

#### ROUTINE MAINTENANCE

PARTS (per year, including outside labour)	\$6,357.00
LABOUR (per year, internal)	\$6,190.00
TOTAL COST (per hour), working hours	\$10.46

#### REPAIRS

PARTS	\$5.30
LABOUR	\$5.16
TOTAL COST - gross - (per hour)	\$10.46
SPECIAL ITEMS (eg, Ground engaging tools)	
TOTAL HOURLY OPERATING COST	\$77.33
TOTAL HOURLY OWNING COST	\$25.60
TOTAL HOURLY PLANT COST	\$102.94

#### CHARGE OUT RATES

OPERATOR COST (gross - per hour)	\$27.00
HOURLY COST INCLUDING OPERATOR OVERHEADS	\$129.94
	\$15.59
INTERNAL PLANT HIRE RATE (excludes operator)	\$102.94
EXTERNAL PLANT HIRE RATE (excluding gst)	\$145.53

COMPILED By : Krishna Shrestha

#### Tip Truck Trailer:

[PLANT # 173- trailer only](#)

#### PLANT DESCRIPTION: Tip Truck - 20/9/2006

TOTAL PURCHASE PRICE - 20/9/2006	32799.73
ESTIMATED MARKET VALUE ON DISPOSAL	4919.9595
OWNERSHIP PERIOD YEARS	10
ANNUAL DEPRECIATION	\$2,787.98
OPPORTUNITY COST / INTEREST (8%)	\$2,623.98
INSURANCE / REGISTRATION - (0.25% / + REGO)	1677
OWNING COST	\$7,088.96
ANNUAL OPERATING HOURS	1200
HOURLY OWNING COSTS	\$5.91

#### HOURLY OPERATING COST

##### FUEL

UNIT COST (cents / lts)	\$1.45
CONSUMPTION (lts / hour)	0
TOTAL COST (per hour)	\$0.00

##### TYRES

ESTIMATED TYRE LIFE (hours)	2,700.00
REPLACEMENT COST (per set)	\$6,694.00
TOTAL COST (per hour)	\$2.48

##### ROUTINE MAINTENANCE

PARTS (per year, including outside labour)	1331
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LABOUR (per year, internal)	3073
TOTAL COST (per hour), working hours	\$3.67

## REPAIRS

PARTS	\$1.11
LABOUR	\$2.56
TOTAL COST - gross - (per hour)	\$3.67
SPECIAL ITEMS (eg, Ground engaging tools)	
TOTAL HOURLY OPERATING COST	\$9.82
TOTAL HOURLY OWNING COST	\$5.91
TOTAL HOURLY PLANT COST	\$15.73

## CHARGE OUT RATES

OPERATOR COST (gross - per hour)	\$27.00
HOURLY COST INCLUDING OPERATOR	\$42.73
OVERHEADS	\$5.13

<b>INTERNAL PLANT HIRE RATE (excludes operator)</b>	\$15.73
<b>EXTERNAL PLANT HIRE RATE (excluding gst)</b>	\$47.85

## Plant 234- Grader:

**PLANT # 234**

**Date: 31/07/2015**

### PLANT DESCRIPTION: CAT 12H Grader - 23/12/2014

TOTAL PURCHASE PRICE	\$	302,800.00
<b>ESTIMATED MARKET VALUE ON DISPOSAL</b>		\$120,000.00
OWNERSHIP PERIOD YEARS		10
ANNUAL DEPRECIATION	\$	18,280.00
OPPORTUNITY COST / INTEREST (8%)		\$24,224.00
INSURANCE / REGISTRATION - (0.25% / + REGO)		\$1,900.00
OWNING COST		\$44,404.00
<b>ANNUAL OPERATING HOURS</b>		1200.00
HOURLY OWNING COSTS		\$37.00

## HOURLY OPERATING COST

### FUEL

<b>UNIT COST (cents / lts)</b>	\$1.35
CONSUMPTION (lts / hour)	14.00
TOTAL COST (per hour)	\$18.90

### TYRES

<b>ESTIMATED TYRE LIFE (hours)</b>	1850
<b>REPLACEMENT COST (per set)</b>	\$5,800.00
TOTAL COST (per hour)	\$3.14

### ROUTINE MAINTENANCE

PARTS & OILS	\$11,959.00
LABOUR	\$7,059.00
TOTAL COST (per hour) , working hours	\$15.85

#### REPAIRS

PARTS	\$9.97
LABOUR	\$5.88
TOTAL COST - gross - (per hour)	\$15.85
SPECIAL ITEMS (eg, Ground engaging tools)	
TOTAL HOURLY OPERATING COST	\$53.73
TOTAL HOURLY OWNING COST	\$37.00
TOTAL HOURLY PLANT COST	\$90.74

#### CHARGE OUT RATES

OPERATOR COST (gross - per hour)	\$27.00
HOURLY COST INCLUDING OPERATOR OVERHEADS	\$117.74
	14.13
<b>INTERNAL PLANT HIRE RATE (excludes operator)</b>	<b>\$90.74</b>
<b>EXTERNAL PLANT HIRE RATE (excluding gst)</b>	<b>\$131.86</b>

#### Plant 2703- Grader:

**PLANT # 2703**

**Date: 31/07/2015**

#### PLANT DESCRIPTION: CAT 12H Grader - 23/12/2014

TOTAL PURCHASE PRICE	\$	378,140.00
<b>ESTIMATED MARKET VALUE ON DISPOSAL</b>		\$120,000.00
OWNERSHIP PERIOD YEARS		10
ANNUAL DEPRECIATION	\$	25,814.00
OPPORTUNITY COST / INTEREST (8%)		\$30,251.20
INSURANCE / REGISTRATION - (0.25% / + REGO)		\$1,900.00
OWNING COST		\$57,965.20
<b>ANNUAL OPERATING HOURS</b>		1200.00
HOURLY OWNING COSTS		\$48.30

#### HOURLY OPERATING COST

##### FUEL

<b>UNIT COST (cents / lts)</b>	\$1.40
CONSUMPTION (lts / hour)	15.90
TOTAL COST (per hour)	\$22.26

##### TYRES

<b>ESTIMATED TYRE LIFE (hours)</b>	1850
<b>REPLACEMENT COST (per set)</b>	\$5,800.00
TOTAL COST (per hour)	\$3.14

## ROUTINE MAINTENANCE

PARTS & OILS	\$11,959.00
LABOUR	\$7,059.00
TOTAL COST (per hour) , working hours	\$15.85

## REPAIRS

PARTS	\$9.97
LABOUR	\$5.88
TOTAL COST - gross - (per hour)	\$15.85
SPECIAL ITEMS (eg, Ground engaging tools)	
TOTAL HOURLY OPERATING COST	\$57.09
TOTAL HOURLY OWNING COST	\$48.30
TOTAL HOURLY PLANT COST	\$105.40

## CHARGE OUT RATES

OPERATOR COST (gross - per hour)	\$27.00
HOURLY COST INCLUDING OPERATOR OVERHEADS	\$132.40
	15.89

INTERNAL PLANT HIRE RATE (excludes operator)	\$105.40
EXTERNAL PLANT HIRE RATE (excluding gst)	\$148.28

## Plant 2709- Grader:

**PLANT # 2709**

**Date: 31/07/2015**

## PLANT DESCRIPTION: CAT 12H Grader - 23/12/2014

TOTAL PURCHASE PRICE	\$	349,900.00
ESTIMATED MARKET VALUE ON DISPOSAL		\$120,000.00
OWNERSHIP PERIOD YEARS		10
ANNUAL DEPRECIATION	\$	22,990.00
OPPORTUNITY COST / INTEREST (8%)		\$27,992.00
INSURANCE / REGISTRATION - (0.25% / + REGO)		\$1,900.00
OWNING COST		\$52,882.00
ANNUAL OPERATING HOURS		1200.00
HOURLY OWNING COSTS		\$44.07

## HOURLY OPERATING COST

### FUEL

UNIT COST (cents / lts)	\$1.40
CONSUMPTION (lts / hour)	13.00
TOTAL COST (per hour)	\$18.20

### TYRES

ESTIMATED TYRE LIFE (hours)	1850
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REPLACEMENT COST (per set)	\$5,800.00
TOTAL COST (per hour)	\$3.14

#### ROUTINE MAINTENANCE

PARTS & OILS	\$12,045.00
LABOUR	\$5,720.00
TOTAL COST (per hour) , working hours	\$14.80

#### REPAIRS

PARTS	\$10.04
LABOUR	\$4.77
TOTAL COST - gross - (per hour)	\$14.80
SPECIAL ITEMS (eg, Ground engaging tools)	
TOTAL HOURLY OPERATING COST	\$50.94
TOTAL HOURLY OWNING COST	\$44.07
TOTAL HOURLY PLANT COST	\$95.01

#### CHARGE OUT RATES

OPERATOR COST (gross - per hour)	\$27.00
HOURLY COST INCLUDING OPERATOR	\$122.01
OVERHEADS	14.64

INTERNAL PLANT HIRE RATE (excludes operator)	\$95.01
EXTERNAL PLANT HIRE RATE (excluding gst)	\$136.65

#### Plant 228- Grader:

PLANT # 228

Date: 31/07/2015

#### PLANT DESCRIPTION: CAT 12H Grader - 23/12/2014

TOTAL PURCHASE PRICE	\$	326,550.00
ESTIMATED MARKET VALUE ON DISPOSAL		\$120,000.00
OWNERSHIP PERIOD YEARS		10
ANNUAL DEPRECIATION	\$	20,655.00
OPPORTUNITY COST / INTEREST (8%)		\$26,124.00
INSURANCE / REGISTRATION - (0.25% / + REGO)		\$1,900.00
OWNING COST		\$48,679.00
ANNUAL OPERATING HOURS		1200.00
HOURLY OWNING COSTS		\$40.57

#### HOURLY OPERATING COST

##### FUEL

UNIT COST (cents / lts)	\$1.40
CONSUMPTION (lts / hour)	13.75
TOTAL COST (per hour)	\$19.25

##### TYRES

ESTIMATED TYRE LIFE (hours)	1850
REPLACEMENT COST (per set)	\$5,800.00
TOTAL COST (per hour)	\$3.14

#### **ROUTINE MAINTENANCE**

PARTS & OILS	\$11,978.00
LABOUR	\$5,553.00
TOTAL COST (per hour) , working hours	\$14.61

#### **REPAIRS**

PARTS	\$9.98
LABOUR	\$4.63
TOTAL COST - gross - (per hour)	\$14.61
SPECIAL ITEMS (eg, Ground engaging tools)	
TOTAL HOURLY OPERATING COST	\$51.60
TOTAL HOURLY OWNING COST	\$40.57
TOTAL HOURLY PLANT COST	\$92.17

<b>CHARGE OUT RATES</b>
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OPERATOR COST (gross - per hour)	\$27.00
HOURLY COST INCLUDING OPERATOR	\$119.17
OVERHEADS	14.30

<b>INTERNAL PLANT HIRE RATE (excludes operator)</b>	\$92.17
<b>EXTERNAL PLANT HIRE RATE (excluding gst)</b>	\$133.47