

MELBOURNE AND METROPOLITAN TRAMWAYS BOARD

SUMMARY OF MATERIALS PURCHASED UNDER SPECIAL  
CONTRACTS 1919 - 1969

CATEGORIES

BUILDINGS  
CABLE WIRE ROPES  
CABLE GRIP DIES  
GENERAL  
MISCELLANEOUS VEHICLES  
MOTOR BUSES AND GARAGE EQUIPMENT  
RAIL BONDS  
PERMANENT WAY EQUIPMENT  
POLES - STEEL AND WOODEN  
SPECIAL TRACKWORK  
SUBSTATION EQUIPMENT  
TRAFFIC  
TRANS AND BODIES  
TRAM EQUIPMENT  
TRAM RAILS  
TROLLEY WIRE  
WORKSHOPS EQUIPMENT

BUILDINGS.

1921-22	Contract 150 - Sprinkler Installation, Hawthorn Depot. Wormald Bros.	£1,031
	76 Tons Structural Steelwork - stanchions, trusses and girders for Glenhuntly Depot. Edward Campbell & Son P/L.	£27.16.6 ton
	350,000 Bricks, Glenhuntly Depot. Northcote Brick Co.,	£4.12.0 per 1,000
Sept. 1923.	Completion of erection Glenhuntly Depot. Massey & Sons P/L.	£15,004
Aug. 1923 to July 1924	Erection Traffic Offices, Glenhuntly Depot. Massey & Sons P/L.	£6,875
1924	Automatic Sprinklers, Glenhuntly Depot. Wormald Bros P/L.	£1,122
	Erection Carlton Substation Building. Massey & Sons P/L.	£6,670
1925-27	Sprinkler Tower Glenhuntly Carshed. Massey & Sons P/L.	£1,299
1923-24	Erection Substation, Ascot Vale. A.F. Deague.	£4,303
1924	Additions to Essendon Depot. Thompson & Chalmers P/L.	£13,115
	Erection Camberwell Substation. W.H. Cooper.	£3,943
1924-25	Additions to Carshed, Coburg. B.F. Vorweg.	£10,630
	Structural Steelwork for Preston Depot. Johns & Waygood Ltd.,	£12,534
	Contract 293 - Erection of Body and Paint Shops, Preston Workshops. Massey & Sons P/L.	£45,305
	Automatic Sprinklers, Essendon Depot. Wormald Bros Ltd.	£1,239
1928	Erection St Kilda Substation. Thompson & Chalmers P/L. ( Demolished June, 1967 to make way for M.M.B.W. St Kilda Junction Project. )	£4,864
	Sprinkler Installation, Coburg Depot. Wormald Bros Ltd.	£456
	Excavation for Kew Depot Extension. Harrison and Hansen.	£574
1925-26	New Store at Preston Workshops. Massey & Sons P/L.	£15,397
	Demolishing Buildings, Howard Street for Temporary Cable Depot.	£1,388
	Sprinklers for Preston Paint and Body Shops. Noel Murray.	£1,552
	Piles for South Melbourne Building - 40 - 51' 100 - 31' 296 - 26'. Pettit, Robertson P/L.	£2,793 + £1,215 Driving
1930	Erection of Substation, Colville Road, Malvern. A.F. Deague	£5,999

1925-26	Erection of South Melbourne Substation. Massey & Sons P/L. <i>Inklers Ltd.</i>	£5,443
1925-26	Erection of South Melbourne Depot. Massey & Sons P/L.	£50,712
	Sprinklers for new Store, Preston Workshops. Wormald Bros. Ltd. <i>Inklers Ltd.</i>	£653
	Erection of Truck and Machine Shops, Preston Workshops. E.A. Watts.	£25,971
1927-28	Steelwork for Machine Shop, Preston. <i>Offices.</i> Johns & Waygood Ltd. <i>and 2/3/28.</i>	£14,253 + £579
	Erection of Substation at Preston Workshops. <i>Electric Goods</i> E.A. Watts. <i>New Head Office. Johns &amp; Waygood Ltd.</i>	£330
	Sprinklers for South Melbourne Depot. <i>and Turntable for</i> Wormald Bros Ltd. <i>Johns &amp; Waygood Ltd.</i>	£1,292
1926-27	Additions and Alterations - Kew Carshed. <i>Water Service</i> B.F. Vorweg. <i>Offices. A.E. Smith &amp; Son.</i>	£12,917
	Erection of Brick Store Stables and Steel Tower, at South Melbourne. <i>Steel Ltd.</i> F. Frencham P/L.	£1,104 £6,786
	Ventilation Service for New Head Office. Contract 471 - Erection of Brick Offices, Preston (Workshops ?) J.C. Morison.	£915 £4,633
	Lighting and Power Installation for New Head Office. Structural Steelwork for Timber Sheds, Preston Workshops. A. Challingsworth P/L.	£3,381 £948
1927	Erection of Brick Substation, South Yarra. Clements Langford P/L.	£547 £2,663
	Timber Platform on Piles at Hauss Street. Erection of Blacksmiths Shop and Brass Foundry, Preston Workshops. B.F. Vorweg.	£1,350 £24,994
	Water Main Installation and Tank for New Head Office. Erection of Brick Mess Room, Preston Workshops. B.F. Vorweg.	£111 £11,704
1928	Steelwork for additions to Preston Depot. Sprinklers Kew Depot Extension. Noel Murray.	£880 £495
1928	Erection of Fuelling and Inspection Building, Nicholson	£3,543
1929	Structural Steelwork, Crombie Lane Substation. Johns & Waygood Ltd.	£830
1929	Erection and Completion Garage Extension, Nicholson	£6,981
1929	Erection Shelter & Signal Box Cabin, Victoria and Swanston Streets. B.F. Vorweg.	£1,334
1929	Erection and Completion of Traffic Offices, Nicholson	£9,985
	Steelwork for additions to Preston Car Depot. Kelly & Lewis P/L.	£832
	Automatic Sprinklers, Nicholson Street Garage.	£243
1928-9	Erection of Camberwell Car Depot. B.F. Vorweg.	£35,965
	Erection of Workshop Nicholson Street Garage.	£7,347
1929	Sprinklers for Camberwell Road Carshed. Noel Murray & Son P/L.	£1,388
	Extension to Sprinkler System, Central Bus Garage.	£248
1929-30	Erection of Offices - Camberwell Road Carshed. B.F. Vorweg.	£11,106
	Erection of Laboratory Extensions, Preston Workshops.	£2,853
	Erection of Substation, Young Street, Fitzroy. A.T. Leech.	£4,950
1941	Extensions - Malvern Depot. B.F. Vorweg.	£4,110 £33,966
	Extension to Sprinkler System, Nicholson Street.	£1,687
1930	Erection of Substation, Coldblo Road, Malvern. A.T. Leech	£5,999

	Sprinklers - Malvern Carshed. Automatic Fire Sprinklers Ltd.	£945
1935-36	Erection of Brunswick Car Depot. B.F. Vorweg.	£34,431
	Automatic Sprinklers - Brunswick Carshed. Automatic Fire Sprinklers Ltd.	£1,594
	Erection of Brunswick Traffic Offices. B.F. Vorweg.	£11,205
1937-38	Contract 1012 - Erection of new Head Office. E.A. Watts. Completed 8/3/38.	£73,059
	Contract 1023 - 2 Electric Passenger and 1 Electric Goods Lifts for new Head Office. Johns & Waygood Ltd.	£7,001
	Contract 1024 - 1 Hydraulic Car Lift and Turntable for New Head Office. Johns & Waygood Ltd.	£741
	Contract 1033 - Central Heating and Hot Water Service for New Head Office/ A.E. Smith & Son.	£2,899
	Structural Steelwork for Port Melbourne Garage. Australian Iron & Steel Ltd.	£1,104
	Ventilation Service for New Head Office. A.E. Atherton & Sons. P/L.	£915
	Lighting and Power installation for New Head Office. Bayley & Grimster P/L.	£3,981
	110 Ironbark Timber Piles for Hanna Street Store. Alex Sturrock & Sons P/L.	£544
	Timber Platform on Piles at Hanna Street. Colin E Patience.	£1,350
	Petrol fuelling Installation and Tank for New Head Office. Shipman King & Co. P/L.	£111
1938	Steelwork for additions to Preston Depot. Australian Iron & Steel Ltd.	£980
	Erection of Fuelling and Inspection Building, Nicholson Street Garage. E.A. Watts.	£3,543
1939	Erection and Completion Garage Extension, Nicholson Street. Weavell & Keast.	£6,985
1940	Erection and Completion of Traffic Offices, Nicholson Street Garage. G.A. Winwood.	£9,985
	Automatic Sprinklers, Nicholson Street Garage. Wormald Bros. P/L.	£923 + £541
	Erection of workshop Nicholson Street Garage. John Whitelaw.	£7,347
	Extensions to Sprinkler System, Central Bus Garage. Wormald Bros. Ltd.	£248
	Erection of Laboratory Extensions, Preston Workshops. T.W. Morris.	£2,853
1941	Erection new Carshed, Essendon Depot. McDougall & Ireland.	£4,110
	Erection Garage Extension Bus Depot, Nicholson Street. A.M. & R.R. Gyngell.	£1,667

1941	Extension Sprinklers, Essendon Carshed. Wormald Bros P/L.	£498
	Erection of Steel Framed Concrete Substation, Maribyrnong. Weavell & Keast.	£
1942	Extension to Sprinkler Installation Central Bus Garage. Wormald Bros P/L.	£
1943	Erection new Roof Covering on Premises Queensberry and Abbotsford Streets ( old North Melbourne Engine House). Wunderlich Ltd.	£869
1943-44	Erection of New Brick Traffic Offices, Essendon. E.A. Watts.	£12,259
1944	Alterations to Stable Building, Essendon, done by Building Branch.	£1,575
1945	Extensions to Existing Buildings, Preston Workshops. Dawson & Smith.	£44,569
	Sprinkler Installation for above. Wormald Bros P/L.	£626
1946	Sprinkler Installation for Paintshop Extension, Preston Workshops. Wormald Bros P/L.	£349
1947	Air Conditioning System, Carlton Substation. Frigrite P/L.	£875
1948	Extensions to Sprinklers, Hanna Street Depot. Wormald Bros (South) Ltd.	£152
1949-51	Structural Steelwork for new Carshed and Traffic Offices, East Preston. Ed. Campbell & Son P/L.	£5,229
	Structural Steelwork for new Carshed, Nicholson Street. Ed. Campbell & Son P/L.	£6,510
1949-50	Structural Steelwork for erection of Clifton Hill Northcote and Fitzroy Substations. Ed Campbell & Son P/L.	£1,021
1951	Steel frame for Sheet Metal Shop, Preston Workshops. Steel Riggers (Aust).	£287
	Fixing Roof and Walls of Sheet Metal Shop, Preston Workshops. J.W. Dormison.	£589
1953	Erection of Lavatory Block, Preston Workshops. Clements Langford P/L.	£17,650
1952	Erection of Steel Store and Upholsterer's Shop, Preston Workshops. A.V. Jennings Construction Co. P/L.	£3,586
1953	Sprinkler Installation for Upholsterer's Shop Preston Workshops. Central Automatic Sprinkler Co. P/L.	£430
	Structural Steelwork for Compressor Shop, Preston Workshops. Ed. Campbell & Son P/L.	£433
	Extension to Traffic Offices, Kew Depot. Clements Langford P/L.	£13,220
1954	Erection of Substation at Clifton Hill. Clements Langford P/L.	£8,250
	Erection of Substation at Northcote. Simmie & Co. P/L.	£8,440
	Erection of Brick Offices, East Preston. Simmie & Co. P/L.	£38,939

1954	Erection of Carshed, East Preston. Clements Langford P/L.	£89,250
	Automatic Sprinklers for East Preston Carshed. Wormald Bros (South) Ltd.	£8,029
	Erection of Substation at Fitzroy. Simmie & Co. P/L.	£9,987
	Erection of Pertaining Wall, East Preston Depot. Simmie & Co P/L.	£1,721
1955	Erection of Carshed and Traffic Offices, Nicholson Street. Morison's P/L.	£19,756
	Erection Cantilever Verandah - 673 Bourke Street. Clements Langford P/L.	£1,490
	Sprinklers for Nicholson Street Depot. Wormald Bros (Vic) P/L.	£8421
1955-56	Alterations and additions to Coburg Depot. Clements Langford P/L.	£18,387
1956	Sound-Absorbent ceiling, Room 311, Head Office. Insulwool Products P/L.	£646
	Sound-Absorbent ceiling, Room 110, Head Office. Wunderlich Ltd.	£145
1957-58	Oil Firing Equipment for Boilers, Head Office. National Heating P/L.	£889
1961	Erection New Control Building, Carlton Substation. Clements Langford P/L.	£13,672
	Air Conditioning System for above. Condair Industries P/L.	£2,378
1962	Suspended, Louvred and Acoustic Metal Pan Ceiling for above. M.J. Newport Installations.	£871
	Erection and Alterations to make Mezzanine Floor, Hawthorn Depot for Uniform Issue Store. R & L Collins P/L.	£13,234
	Corrugated Fibre Glass Roof Sheeting, North Fitzroy Bus Depot. Henry Brooks (Fibreglass) P/L.	£1,305
	343 Aluminium Glazing Bars for above. Australian Window Glass P/L.	£848
	Erection of New Shop for Golf Professional at Wattle Park. C. Burnett & Sons.	£4,183
	Gas Heating and Ventilation System, Drivers School, Hawthorn. J.C. Thomsen.	£834
	Flat Roof Renewal in Mastic Asphalt, Glenhuntly Depot. Mineral Asphalt Co. P/L.	£759
	Suspended Acoustic Ceiling, Revenue Office, Malvern. Fibre Walls & Ceilings Co. P/L.	£450
1963	Erection of Service Bay, Footscray Garage. Eric Rhind P/L.	£12,972
	Alterations Civil Branch Office, South Melbourne. Eric Rhind P/L.	£6331

1963	Excavations for Doncaster Depot. D. Martin Excavations P/L.	£620
	Suspended Aluminium Grid Plaster Board Ceiling, Footscray Depot. Olympic General Products P/L.	£740
1964	Erection of Workshop and Service Bay, Doncaster. Antmar Constructions P/L.	£38,548
	Floor Heating System for Workshop, Doncaster. Gardner & Naylor P/L.	£1,414
	Erection of Traffic Offices, Doncaster. T.R. & L. Cockran P/L.	£42,783
	1 "Monsteel" 2 Ton Hoist with Trolley, Doncaster. Horrocks Roxburgh P/L.	£520
	Sewerage Works, Doncaster. Ball Construction Co. P/L.	£4,206
	Stormwater Drainage, Doncaster. Garner Bros. Constructions P/L.	£2,337
	Earthworks for Electric Cables, Drainage and Paving, Doncaster. Barros Paving Co. P/L.	£31,594
1965	Alterations to Head Office Vehicle Lift. Johns & Waygood Ltd.	£6,746
1966	Erection of Suspended Aluminium Grid Plaster Board Ceiling, Camberwell Depot. Aychar P/L.	£1,040
	Concrete Masonry Blocks for St Kilda Substation. Monier Besser P/L.	£2,387

CABLE WIRE ROPES.

CONTRACT 149.

1922 Bullivants Aust. Co. Ltd. made by Bullivants, London:-

1 - 25,000 ft.	)	Approx. 155½ tons at £65/10/- ton.
2 - 24,300	)	
1 - 23,000	)	
1 - 17,250	)	
1 - 17,000	)	

Similar made by T. & W. Smith Ltd., Newcastle on Tyne, 145½ tons at £65/10/- ton, also one 24,300 ft. rope gratis.

Noyes Bros. made by Whitecross Co., Warrington:-

1 - 24,300	)	76½ tons at £65/10/- ton, less 2½%.
1 - 23,000	)	
1 - 17,000	)	

Elder Smith & Co. Ltd. made by J. and C. Wright, Birmingham:-

1 - 20,000 ft. at £64/8/- ton

P.T. Taylor Ltd., Sydney, made by R. S. Newall & Son, Liverpool

1 - 17,000 ft. at £65/10/- ton.

CONTRACT 177.

4 Ropes Special Acid Steel - £66/5/- ton.

2 Ropes - Geo. Cradock & Son Ltd., Wakefield, England, £72/10/- ton.

1923 3 Ropes Special Acid Steel - Noyes Bros. made by Whitecross Co., Warrington  
£5,974 (£69/15/- ton)

2 Ropes, Elder Smith & Co. Ltd. made by J. & C. Wright, Birmingham £69/15/- ton.

4 Ropes, B.K.Morton Pty. Ltd. made by T. & W. Smith, Newcastle on Tyne £69/15/- ton.

3 Ropes - G. Craddock & Co. Ltd., Wakefield - £69/15/- ton.

2 Ropes - P.T. Taylor Ltd., Sydney, made by R.S. Newall & Son, Liverpool -  
£3,669 (£69/15/- ton)

5 Ropes - Bullivants Ltd. £69/15/- ton.

1924 6 Ropes - B. K. Morton Pty. Ltd. made by T. & W. Smith Ltd. - £67/15/- ton.

2 Ropes - Elder Smith & Co. made by J. & C. Wright Ltd. - £67/15/- ton.

3 Ropes - Noyes Bros. made by Whitecross Co. Ltd. - £67/15/- ton.

2 Ropes - Geo. Cradock & Co. Ltd. - £67/10/- ton.

8 Ropes - Bullivants Ltd. - £12,712 (£67/15/- ton)

3 Ropes - P.T.Taylor, Sydney, for R.S.Newall & Son Ltd. - £67/15/- ton.

1925 1 Rope - 20,600 ft. - £67/15/- ton. Geo. Cradock & Co. Ltd.

~~1925x~~ 2 Ropes - P.T. Taylor Ltd., Sydney, made by R.S. Newall & Son, Liverpool,  
- £67/15/- ton.

5 Ropes - B.K. Morton Pty. Ltd. made by T. & W. Smith Ltd.,  
Newcastle-on-Tyne - £67/15/- ton

2 Ropes - Noyes Bros. Pty. Ltd. made by Whitecross Co., Warrington - £67/15/- ton.

8 Ropes - Bullivants Ltd. - £68/15/- ton.



CABLE WIRE ROPES

2.

- 1926 5 Ropes - Bullivants Ltd. £60/15/- ton
- 1 Rope - Elder Smith for J. & C. Wright Ltd. £55/12/10 ton.
- 1 " - Noyes Bros. for Whitecross Co. Ltd. £59/10/- "
- 2 Ropes - B.K. Morton Pty. Ltd. for T. & W. Smith Ltd. £59/15/- ton.
- 2 " - P.J. Taylor Ltd. for B.S. Newall & Sons Ltd. £59/15/- ton.
- 1927 5 Ropes - Bullivants Ltd. £59/15/- ton.
- 1 Rope - " " £418/-/- lot.
- 1 - 5900' Rope B.R. Morton Pty. Ltd. T. & W. Smith Ltd. £418/-/- Lot
- 1 - 20,000' " Elder Smith & Co. Pty. Ltd. for J. & C. Wright Ltd.,  
Birmingham - £55/18/2 ton = £1,318/-/- Lot.
- 2 - 23,000' " P.T. Taylor Ltd. for R.S. Newall & Son Ltd.
- 1 - 19,000' " Liverpool £59/15/- ton = £4,549/-/- lot.
- 1 - 24,300' " B.K. Morton Pty. Ltd. for T. & W. Smith Ltd., Newcastle  
£59/15/- ton = £1,685/-/- lot.
- 1 - 20,000' " Noyes Bros. Pty. Ltd. for Whitecross Co. Ltd., Warrington  
£59/10/- ton = £1,413/-/- lot.
- 1928 6 Ropes - £60/15/- ton - Bullivants Aust. Ltd.
- 1 Aux. Rope - 5,900 ft. £62/5/- ton.
- 1 Rope - 17,100' £59/10/- ton - Noyes Bros. made by Whitecross?
- 1 Aux. Rope - 2,280' £62/5/- ton - P.T. Taylor Ltd. for R.S. Newall & Son Ltd.
- 1 " " " £60/15/- " - Noyes Bros. for Whitecross
- 2 Ropes - 20,000' & 24,300' - £59/15/- ton - B.K. Morton Pty. Ltd. for  
T. & W. Smith Ltd.
- 1 Rope - 23,000' - £59/13/9 ton - Elder Smith for Wrights Ropes Ltd.
- 4 Ropes - £59/15/- ton - P.T. Taylor Ltd. for R.S. Newall & Son Ltd.
- 1930 1 Rope - 5,640' - £65/15/- Ton - B.K. Morton Pty. Ltd. for T. & W. Smith  
Ltd.
- 2 Ropes - 19,650' & 17,100' - £63/5/- ton - P.T. Taylor Ltd. for  
R.S. Newall & Son Ltd.
- 1 Rope - 24,300' - £63/5/- ton - B.K. Morton Pty. Ltd. for T. & W. Smith  
Ltd.
- 2 Ropes - 20,000' & 17,100' - £63/5/- ton - Bullivants Aust. Co. Ltd.
- 1 Rope - 23,000' - £63/5/- ton - P.T. Taylor Ltd. for R.S. Newall &  
Son Ltd.
- 2 Ropes - 20,000' & 17,100' - £62/15/- ton - Elder Smith for Wrights Ropes  
Ltd.
- 1 Rope - 17,100' - £64/5/- ton - Bullivants Aust. Co. Ltd.
- 2 Ropes - 24,300' & 23,000' - £60/15/- ton - B.K. Morton Pty. Ltd. for  
T. & W. Smith Ltd.
- 4 " - 17,000' - £61/15/- ton - Bullivants Aust. Co. Ltd.
- 2 " - 20,000' & 17,100' £60/15/- " - Bullivants Aust. Co. Ltd.
- 1 " - 20,000' - £59/13/9 " - Elder Smith for Wrights  
Ropes Ltd.
- 4 " - 19,650', 2 - 23,000' & 20,000' - £60/15/- ton  
P.T. Taylor Ltd. for R.S. Newall & Son Ltd.

CABLE WIRE ROPES.

<u>1931.</u>	3 Ropes	- 2 - 23,000', 1 - 20,000'	£62/15/- ton	- Elder Smith for Wrights Ropes Ltd.
	1 "	- 20,000',	- £63/5/- ton	- B.K.Morton Pty. Ltd. for T.& W.Smith Ltd.
	3 "	- 24,300', 19,650' & 20,000'	- £63/5/- ton	- P.T.Taylor Ltd. for R.S. Newall & Son Ltd.
	3 "	- 17,100'	- £63/5/- ton	- Bullivants Aust. Co. Ltd.
	1 "	- 17,000'	- £62/5/- ton	- Noyes Bros. for Whitecross & Co. Ltd.
	2 "	- 19,650' & 23,000'	- £62/15/- ton	- Elder Smith for Wrights Ropes Ltd.
	2 "	- 24,300' & 29,000'	- £63/5/- ton	- P.T. Taylor Ltd. for R.S.Newall & Son Ltd.
	1 "	- 20,000'	- £62/5/- ton	- Noyes Bros. for Whitecross Co. Ltd.
<u>1933</u>	3 "	- 5,640', 24,300' & 20,000'	- £63/5/- ton	- B.K.Morton Pty. Ltd. for T. & W. Smith Ltd.
	2 "	- 23,000' & 29,000'	- £62/15/- ton	- Elder Smith for Wrights Ropes Ltd.
	3 "	- 17,100'	- £63/5/- ton	- Bullivants Aust. Co. Ltd.
	1 "	- 24,300'	- £63/5/- ton	- P.T. Taylor Ltd. for R.S. Newall & Son Ltd.
	1 "	- 23,000'	- £63/5/- "	- B.K. Morton Pty. Ltd. for T. & W. Smith Ltd.
	1 "	- 20,000'	- £58/-/- ton	- Dane Taylor & Co. for Bruntons (Musselburgh) Ltd.
<u>1934</u>	1 Rope	- 23,000'	- £62/5/- ton	- Noyes Bros. for Whitecross Co. Ltd.
	1 "	- 20,000'	- £56/13/6 ton	- Briscoe & Co. Ltd. for W.T. Barr & Co. Ltd.

CONTRACT NO. 861.

<u>1934</u>	1 Rope	- 24,300'	- £63/5/- ton	- P.T. Taylor Ltd. for R.S.Newall & Son Ltd.
	2 Ropes	- 24,300' & 5,640'	- £63/5/- ton	- B.K. Morton Pty. Ltd. for T.& W. Smith & Co. Ltd.
	2 "	- 20,000', 19,650'	- £63/5/- ton	- Elder Smith for Wrights Ropes Ltd.
	3 "	- 24,300', 2 - 17,100'	- £63/5/-	for Bullivants Aust. Co. Ltd.
<u>1935</u>	1 "	- 23,000'	- £62/5/- ton	- Noyes Bros. P/L. for Whitecross Co. Ltd.
	1 "	- 24,300'	- £63/5/- "	P.T. Taylor Ltd. for R.S.Newall & Son Ltd.
	3 "	- 17,100'	- £63/5/- ton	- Bullivants Aust. Co. Ltd. for Bullivants
	1 "	- 19,650'	- £63/5/- ton	- Elder Smith & Co. for Wrights Ropes Ltd.
<u>1936</u>	1	?	£63/5/- "	- P.T. Taylor Ltd. for R.S.Newall & Son Ltd.
	1	?	£63/5/- "	- Elder Smith for Wrights Ropes Ltd.
	1	?	£65/15/- "	- B.K. Morton Pty. Ltd. for T.& W.Smith Ltd.
	1	- 24,300'	£63/5/- "	- Bullivants Aust. Co. Ltd. for Bullivants

<u>1937</u>	1 - 24,300'	£64/5/-	ton	P.T. Taylor Ltd. for R.S.Newall & Son Ltd.
	1 - 17,100'	£64/5/-	"	B.K. Morton Pty. Ltd. T. & W. Smith Ltd.
	1 - 24,300'	£63/5/-	"	Noyes Bros. (Melb.) Ltd. for Whitecross Co. Ltd.
	1 - 17,100'	£64/5/-	"	Bullivants Aust. Co. Ltd. for Bullivant's, London.
	1 - 17,100'	£64/5/-	"	Elder Smith for Wright's Ropes Ltd.
	1 - 5,640'	£66/15/-	"	B.K. Morton Pty. Ltd. for T.& W. Smith Ltd.
	1 - 24,300'	£64/5/-	"	Bullivant's Aust. Co. Ltd. for Bullivants.
	1 - 19,650'	£64/5/-	"	Elder Smith for Wright's Ropes Ltd.
<u>1939</u>	1 - 24,300'	£64/5/-	ton	P.T. Taylor Ltd. for R.S.Newall & Son Ltd.
	1 - 1,900'	£66/15/-	"	B.K. Morton Pty. Ltd. for T. & W. Smith Ltd.

---

CABLE GRIPS.

1922	200 tons Rolled Steel Grip Dies Victoria Iron Rolling Co.	£20 ton
1925	200 tons Rolled Steel Grip Dies Lion Rolling Mills Pty. Ltd.	£18/5/- ton
1926-7-8	100 tons Rolled Steel Grip Dies Victoria Iron Rolling Co. Ltd.	£17/10/- per ton

GENERAL.

1955-6	Supply and installation of Powers-Samas Punched Card System, H.O. Kalamazoo (Aust.) Ltd.	£47,623
<u>Cont.1866</u>	Advertising in Trams etc.	
1955		
<u>Cont.2009</u>		
1956	Ditto. Alan Davis (Vic.) Pty. Ltd.	
1960	Punched Card Equipment I.C. & T. Aust. Pty. Ltd.	£10,268
<u>Cont.2185</u>	Advertising on Trams and Buses - 5 years	£401,000
1961	Frank Mason & Co. (Aust.) Pty. Ltd.	
<u>Cont.2444</u>	Advertising in Trams and Buses, 5 years to 1971	£834,000
2445	Frank Mason Advertising Pty. Ltd.	

MISCELLANEOUS VEHICLES.

Nov. 1922	5-ton "Sentinel" Steam Wagon made by "Sentinel" Wagon Co.	£1,570.
Jan, 1923	3-way "Garrett" Steam Tipping Wagon, R. Garrett & Sons, Leiston, England.	£1,261
Nov. 1922	"Yorkshire" Steam Wagon with side-tipping body "Yorkshire" Patent Steam Wagon Co.	£1,500.
<u>Cont. 235</u>	Power Driven Earth Boring Machine made by	
Aug. 1924	Winther Motors Inc. U.S.A.	£3,384
1955	1 Steelframed Emergency Vehicle Body built on A.G.E. "Matador" chassis Ansair Pty. Ltd.	£2,025
1963	1 "Cranvel" 4,000 capacity Hydralift Crane with Telescopic Jib for Pole Lifting Cranes & Shovels Pty. Ltd.	£5,818

MOTOR BUSES AND GARAGE EQUIPMENT.

Petrol Buses in use during Cable Conversion.

<u>Cont. 281</u> 1924-25-26	12 Thornycroft "J" 16'6" wheelbase, no electric lights, "Challiner" semi pneumatic or cushion tires (6 of each), with 12 James Motors bodies Thornycroft Aust. Ltd. (chassis ex England).	£12,480 £ 6,324
<u>Cont. 978</u> 1936-37	12 Tilling Stevens T.S.6 chassis, 16'6" wheelbase, 6 with solid and 6 with semi-pneumatic tires (no lights) (Horrocks Roxburgh, chassis ex Tilling Stevens Motors Ltd. England) with 12 James Motors bodies	£16,064 lot £ 6,324 lot
<u>Cont. 976</u> 1936-37	1 51-D Garford chassis with James De Luxe Body, disc wheels, engine driven air pump, auxiliary transmission James Motors Pty Ltd.	£ 1,860
<u>Cont. 1030</u> 1937	1 DITTO	£ 1,923
<u>Note :-</u>	Buses ran on mixture of 75% Standard Grade Petrol and 25% Benzol (to assist B.H.P. in marketing an Australian product) <u>Contract 271, 1926</u> - Benzol 1/10½ gallon less 1½d. for bulk delivery, same as "Shell" "Plume" petrol.	
<u>Cont. 292</u> 1924-25	20 Thornycroft "B.T" chassis 14' wheelbase, Michelin pneumatic tires and 20 James Bodies Thornycroft Aust. Ltd. final cost.	£757.10.0 ea. £362. 0.0 ea. £23,991 lot
<u>Cont. 381</u> 1925	4 Garford K B chassis Garford Motor Truck Co. U.S.A. US\$12,679 = £ Bodies built at Preston Workshops.	
<u>Cont. 391</u> 1925	3 Bus Bodies ? Thornycroft "Boadicea" Cheetham & Borwick	£395. 0.0 + 5% ea.
<u>Cont. 381</u> 1925	6 Thornycroft "Boadicea" chassis Thornycroft Aust. Ltd. final cost.	£910. 0.0 ea. £5,316
<u>Cont. 438</u> 1926	Petrol, 2nd. Grade 1/7½ gallon less 2½% C.O.R. Ltd.	
<u>Cont. 595</u> 1928-29-30	11 AD. C 509 and 1 AD.C 507 chassis, 36 x 8 and 40 x 8 tires, oil indicators, mileometers and engine governors. A.E.C. (Aust) P/L.	£13,725
1929	Tire Tubes, Hubs and Wheels to convert 12 Tilling Stevens buses from solid to pneumatic tires. Horrocks Roxburgh P/L.	£1,808
1934-35	1 Albion Valiant chassis fitted with Gardner LW5 compression Ignition Engine. Albion Motors ( A/Asia ) Ltd.	£1,750
<u>Cont. 885</u> 1934-35	1 Leyland "Lioness" chassis with C.I. engine and Torque Converter. Leyland Motors P/L.	£1,588
<u>Cont. 937</u> 1935-36	10 Leyland Cub KP3A chassis with petrol engines and 10 - 25 passenger Raskin bodies Leyland Motors Ltd.	£6,290 £4,640 £10,930
1936	10 Leyland Cub KP22 chassis C.I. engines. Leyland Motors Ltd.	£689. 0.0 ea. £6,890
<u>Cont. 976</u> 1936-37	8 Federal chassis with "Hercules" petrol engines/ Fedraw Motors Co. P/L.	£641. 0.0 ea. £5,028
<u>Cont. 978</u> 1936-37	17 Leyland Tiger chassis forward control with Leyland C.I. engines. Leyland Motors Ltd.	£22,418

2. MOTOR BUSES AND GARAGE EQUIPMENT.

<u>Cont. 996</u> 1936-37	For Pioneering Footscray Service. G.L. engines and 10 Bedford WLG 2/2½ ton chassis with petrol engines Sachenerly Pty. Ltd. <i>S.A. Cheney</i>	£285 ea. £2,870
<u>Cont. 988</u> 1936-37	10 Bedford W.L.G chassis supplied to be fitted with Dan White bodies - <i>14-Seat</i> Bodies only - Dan White Motor Bodies P/L.	£2,969
<u>Cont. 978</u> 1936-37	13 Bus bodies for 12 Leylands and 1 Daimler chassis. Cheetham & Borwick.	£8,176
<u>Cont. 976</u> 1936-37	3 Leyland Cub KPZ 2 chassis with C.I. engines. Leyland Motors Ltd.	£2,632
<u>Cont. 1030</u> 1937	5 composite de-luxe 31 seat Bus Bodies on <i>Leyland Tiger T.S.7</i> chassis. H.A. <i>Granmet</i> . <i>Granmet</i>	£2,855
	5 Vertical Fuel Oil storage Tanks, 3 erected Port Melb. and 2 at Nicholson Street. Shipman King & Co. P/L.	£655
	1 Electric motor driven air compressor for Port Melb. garage. Ingersoll - Rand (Aust) P/L.	£132
	2 Electric Motor Driven pump units 30 G.P.M, Nicholson Street garage. Industrial Service Engineers P/L.	£45 ea.
	1 G.E. Model M.A.494 Brake Re-lining machine and accessories. Wm. L. Buckland P/L.	£173
	1 "K & L" 3 type L Motor driven fuel oil pump 200 G.P.M. Nicholson Street Garage. Geo. W. Kelly & Lewis Ltd.	£45
<u>Cont. 1068</u> 1938	20 Leyland KPZ 2 chassis with C.I. engines and spares. Leyland Motors Ltd.	£18,024
<u>Cont. 1079</u>	30 Leyland Tiger T.S.8 chassis with C.I. engines. Leyland Motors Ltd.	£40,219
<u>Cont. 1086</u>	5 Bus Bodies, composite construction, tubular frame seats on chassis. Cheetham & Borwick.	£2,541 lot
	1 Combined Brake Driven Turning and Grinding machine for Nicholson Street. Replacement Parts P/L.	£335
	1 - 3" and 1 - 1½" Motor Driven Distillute Oil Pumps, Nicholson Street. Geo. W. Kelly and Lewis P/L.	£88
<u>Cont. 1086</u>	1 Bus Body, all steel construction, tubular frame seats on chassis. Martin and King P/L.	£724
	4 Single circuit Battery Chargers, Nicholson Street, McKenzie and Holland (Aust) P/L.	£128
<u>Cont. 1108</u> 1938-39	19 Bus Bodies, composite type on chassis Cheetham & Borwick.	£10,630
	5 Bus Bodies, steel framed construction on chassis. Martin and King P/L.	£3,025
<u>Cont. 1116</u> <i>Replace Cable Trams Route 9</i>	25 Leyland Tiger T.S.8 Single Deck chassis with C.I. engines. 45 Leyland Titan Double Deck chassis with C.I. engines and spares Extended 1940 for	£1,395 ea. £1,488.10.0 ea. £1,176



3. MOTOR BUSES AND GARAGE EQUIPMENT.

<u>Cont. 1116</u> 1938	15 Leyland T.S.8 S.D. chassis with C.L. engines and Torque converters.	£1,395 ea.
	5 DITTO Standard Gear Box, Leyland Motors Ltd.	£1,290
	4 Vertical Fuel Oil Tanks, Nicholson Street Garage. Shipman King and Co. P/L.	£160 ea.
1939	1 "Epax- Beckmeter" Electric Metering type pump, Nicholson Street Garage. with Bacwill Gauge.	£106
	1 DITTO except Bacwill Gauge, Footscray Garage. Engineering Products P/L.	
	1 Duplex Electric Meter Pump Standard for delivery and evacuation of lubricating oil, Port Melbourne Garage. Engineering Products P/L.	£134
<u>Cont. 1133</u> 1939	15 Double Deck Bus Bodies on <sup>Leyland Titan T.D.5</sup> chassis. £1,352 each. Martin and King P/L.	£1,352
	1 "Streamline" oil filter gauge, Nicholson Street. Gibson Battle (Melb) P/L.	£526
<u>Cont. 1133</u>	14 Double Deck Bus Bodies on chassis. J.A. Lawton and Sons Ltd. Adelaide.	£1,335 ea.
	15 Double Deck Bus Bodies on chassis. Cheetham and Borwick.	£1,315 ea.
1939	6 Vertical Fuel Oil Tanks, Nicholson Street Garage. Engineering Products P/L.	£899
1940	2 Duplex Electric Meter Pumps, Nicholson Street. Engineering Products P/L.	£264
	Electric Motor Driven air compressor and after cooler, Nicholson Street. Commercial Steels (Aust) P/L.	£472
	1 Steam Cleaning and degreasing Plant. E.A. Machin and Co. P/L.	£204
<u>Cont. 1187</u> 1940-41	7 Single Deck Bus Bodies, all steel. Martin and King P/L.	£465.18.0 ea.
	7 DITTO Cheetham and Borwick. on chassis.	£480.14.6 ea.
	2 Battery chargers, Central Bus Garage. Standard Telephones and Cables P/L.	£160
1941	2 Vertical Fuel Storage Tanks, Footscray. John Thompson Combustion Engineering P/L.	£182 ea.
	2 Electric Motor Driven Oil pumps, Footscray. Cameron and Sutherland Ltd.	£89
	1 "Octopus" Electrical Laboratory Central Bus Garage. A.G. Healing Ltd.	£285
1942	1 Con Rod Boring Machine etc. Replacement Parts P/L.	£164
	1 Engine Flushing Machine (Vitalizer). Brooklands Accessories Ltd.	£195
1943	1 Wheel alignment apparatus. E.A. Machin and Co. P/L.	? £200
1944	1 Grinding Machine, pneumatic rotary hand operated for C.B.G. Commercial Steels & Forge Co. Aust. P/L.	£603

1945	1 Hydraulic Breakdown Crane to be fitted to "Mack" chassis supplied. Fowler Constructions P/L.	£575	
1946	1 Line Boring Machine for Central Bus Garage. A.G. Healing Ltd.	£660	
	1 "Kitchen and Wade" Cylinder Reboring Machine. Alfred Herbert A/Asia P/L.	£1,174	
	1 "Macson" 8 $\frac{1}{2}$ " x 8' Lathe. McPhersons P/L.	£719	
	1 Pillar Drilling machine and Accessories. O. Granowski.	£475	
1947	1 "Anderson" Steam cleaning Plant Central Bus Garage. Westcott Hazell Engineering and Steel P/L.	£165	
	1 Hydraulic Hoist for Buses Central Bus Garage. E.A. Machin and Co. P/L.	£385	
<u>Cont. 1433</u> 1947	S. D. Bus Bodies - ? details and if gone on with.		
	1 "Rivett" 608-PV-5C Instrument Lathe etc. and accessories. Norman N. Benson.	£777	
	4 "Tecalmit" Power Greasing Plants. Keep Bros and Wood P/L.	£372	
<u>Cont. 1493</u> 1948-50	40 S. D Bus Bodies, Standard all metal frame construction on chassis. Commonwealth Engineering Co. Ltd.	£1,548	ea.
<u>Cont. 1501</u> 1948-50	30 Leyland type O.P.S. 4/1 chassis forward control, 21'6" wheelbase, 6 cylinder 9-8 litre C.I. engine for 45 seat bodies synchromesh inertia lock gear box etc. and Sundry spares. Leyland Motors Ltd.	£2,681	ea.
1948	1 "Anderson" steam cleaning plant. Westcott Hazell Engineering and Steel Ltd.	£177	
<u>Cont. 1526</u> 1948	30 S. D. Bus Bodies standard all metal frame 41 seat built on Leyland O.P.S. 4/1 chassis supplied. Commonwealth Engineering Ltd.	£2,250	ea.
1949-50	1 "Mahle-Manson" A.B-124 universal Grinder etc. for Motor Valves, Tools etc. Brown and Dureau Ltd.	£270	
	1 Annealing Furnace for Central Bus Garage. Manfleet and Weight P/L.	£750	
	1 Electrical Test Bench "Replex" and accessories for Motor Vehicle Electrical Equipment. Replacement Parts P/L.	£635	
<u>Cont. 1576</u> 1950-52	15 A.E.C. Regal Mark III Model 9621E chassis, Diesel Engine and spares. A.E.C. (Australia) P/L.	£2,932	ea.
	4 "Apac" 20000 lb. lifting Jack. E.A. Machin and Co. Ltd.	£76	ea.
<u>Cont. 1584</u> 1950-52	15 S. D. Bus Bodies Standard all metal frames 41 seat, built on A.E.C. Regal Mark III chassis. Commonwealth Engineering Co. Ltd.	£2,488	ea.
<u>Cont. 1602</u> 1950-51	50 A.E.C. Regal Mark III Model 9621E chassis and spares A.E.C. (Australia) P/L.	£3,110	ea.

<u>Cont.1603</u>	50 S.D. Bus Bodies, all steel frame, 41 seat built on A.E.C. Regal Mark III chassis. Commonwealth Engineering Co. Ltd.	£2,844	ea.
1951	1 "Broomwade" 20 Cwt. air Motor Hoist. Knox Schlapp P/L.	£210	
<u>Cont.1624</u>	50 A.E.C. Regal Mark III 9621E chassis 15 @ 35 @ and spares. Teco P/L.	£3,446 £3,775 £2,081	ea. ea.
<u>Cont.1603</u> 1951	1 S.D. Bus Body built on A.E.C. Regal Mark III chassis 41 seat. Ansair P/L.	£3,431	
<u>Cont.1638</u> 1952	50 S.D. Bus Bodies all steel frames, 41 seat built on A.E.C. Regal Mark III chassis. £2,547 later varied to £139,787 lot.	£139,787	lot
1953	1 "Broomwade" stationary air compressor Central Bus Garage. Knox Schlapp Ltd.	£229	
<u>Cont.1678</u> 1953	19 S.D. Bus Bodies, all steel frame, 41 seat on A.E.C. Regal Mark III chassis. Martin and King P/L.	£3,168	
	1 "Hercus 6" x 6" Power Hack Saw. McPhersons Ltd.	£157	
	1 Power Driven air compressor, Medel 64 type 30, Footscray Garage. Ingersoll Rand (Aust) P/L.	£681	
1954	1 "Hartridge" Fuel Pump Test Bench, etc. Wm. Adams and Co P/L.	£1,070	
1955	1 1,500 Gallon fuel oil storage Tank, Footscray. Engineering Products P/L.	£623	
<u>Cont.853</u>	25 A.E.C. Regal Mark IV chassis plus spares. A.E.C. (Aust) P/L.	£4,269	
<u>Cont.1903</u>	25 S.D. Full Front Bus Bodies. J.A. Lawton and Sons Ltd.	£3,734	
1957	1 "Kerrick" Steam Cleaning Plant. Bennie Teare Ltd.	£445	
1958	1 Diesel Injector needle lap grinding machine. 1 " " Nozzle Lapping machine. Repco Auto Equipment Co. P/L.	£295 £ 72	
1958-59	1 "Kerrick Steam cleaning Plant. Westeels (Vic) P/L.	£427	
1959	1 H.P.A. type 201 Engine Dynamometer. Heine Bros. (A/Asia) P/L.	£1,065	
1960	1 Engine parts cleaning tank. Major Furnace and Combustion Engineers P/L.	£479	
1961	Shortening 11 Bus Bodies. Ansair P/L. Repair Division.	£598	ea.
	Shortening 4 Bus Bodies. R.V. Piper.	£528	ea.
	Overhaul 25 A.E.C. Diesel Engines. A.E.C. (Aust) P/L.	£524 per eng.	
1962	Shortening 3 Bus Bodies. Ansair P/L. Repair Division.	£610	ea.

1962	Shortening of 2 Bus Bodies. R.V. Piper.	£528	ea.
	1 "Kerriek" Steam Cleaning Plant. Westees (Vic) P/L.	£427	
<u>Cont. 2244</u>	100 A.E.C. Regal Mark IV chassis with 31 seat bodies built by Freighters Ltd. A.E.C. (Aust) P/L. (later altered to £929,200 lot). Hastings Deeting Commercial Vehicles P/L.	£929,200	lot
1963	1 "Van Norman No 404" Brake Drum Lathe etc. E.A. Machin and Co Ltd.	£3,524	
	1 "Berco D3A" cylinder Block Honing Machine etc. Litchfield Machinery Ltd.	£2,518	
	Garage Service Equipment, Footscray. Tecalemit (A/Asia) P/L.	£3,868	
1964	Garage Servicing Equipment, Doncaster. Gilbert and Barker Mng. Co. (Aust) P/L. Tecalemit (A/Asia) P/L.	£6,816 £3,822	
1964	1" Clayton R.O. 16.5" Steam Generator with Detergent mixer. Westees (Vic) P/L.	£1,463	
1967	1 Automotive Generator, Alternator and Starter Test Bench. E.A. Machin and Co. P/L.	£2,725	

PERMANENT WAY EQUIPMENT.

1928	1 "Austral Otis" Electric Rail Grinding Machine Austral Otis Eng. Co. Ltd.	£9,547
1942	1 Combined Power Shovel & Loader Malcolm Moore Ltd.	£576
1943	1 - 5 ton Mobile Crane Malcolm Moore Ltd.	? £1,600
	1 Combined Power Shovel & Loader Malcolm Moore Ltd.	? £700
1945	2 "Lewin" Power Driven Sweeping and Pick-up Machines Horrocks Roxburgh P/L. made by Lewin Road Sweepers Ltd., England.	£1,660 Stg. each
1946	1 Power operated Rail Bending Machine Horrocks Roxburgh P/L. made by Crosthwaite Furnaces and Scriven Machine Tools Ltd., England.	£2,427
1949	2 "Barber Greene" Model 522 Bucket Loaders of English manufacture Tutt Bryant (Victoria) P/L.	£2,440 each
1954	4 Mobile Conveniences James Flood P/L.	£234 each
	6 Mobile Tool Boxes James Flood P/L.	£234 "
	1 A.G.E. Overloader Fordson Diesel Engined Tutt Bryant (Victoria) P/L.	£2,110
	2 Portable Lamp Cabins H.O. & R. Hall	£288 each
	5 Portable Gangers' Offices H.O. & R. Hall	£410 each
1957	2 "Fowler" 3½/5 ton Mobile Jib Cranes Victn. Industrial Sales & Service P/L.	£7,957 lot
	2 Front End Loaders "Cranvel" Cranes & Shovels P/L.	£5,762 Lot
1959	1 Fusion Welding Equipment Humes Ltd. - Thermit Division	£1,469
1960	3 Electric Welding Machines, etc. Murex (A'asia) P/L.	£4,991 lot
	3 "Flextool" Portable Rail Grinding Machines Rotary Tools P/L.	£259 each
	1 Hand propelled Rail Grinding Machine Humes Ltd. - Thermit Division	£509
	1 Mobile Convenience James Flood P/L.	£429
<u>CONTRACT 2083.</u>		
1960	1 Vacuum Cleaner Unit for Tram Rail Cleaner Food Machinery (Aust.) P/L.	£10,500
1960-61	1 Diesel Engined Portable Air Compressor "Brocmwade" Model W.R.130 Knox Schlapp P/L.	£1,595
1961	1 "Ingersoll-Rand" Model 64 Air Compressor Ingersoll-Rand (Aust.) P/L.	£577

1962.	1 "Concut" Concrete & Asphalt Sawing Machine Diamond & Boart Products (Vic.) P/L.	£1,280
	1 "Cranvel" Mark III Front End Loader on "Chamberlain Champion" Diesel Tractor Cranes & Shovels P/L.	£3,841
	1 "International Hough" Model H-70-B Payloader with Drott 4 in 1 Bucket, etc. Victn. Ind. Sales & Services P/L.	£12,261
1963	2 "Stow" Vibrating Plate Tampers Coates & Co. Ltd.	£592
	1 "I.R. Model G.100" Portable Air Compressor, etc. Ingersoll-Rand (Aust.) P/L.	£1,508
	2 VT 6/Dd Portable Air Compressors, etc. Atlas Copco Aust. P/L.	£6,119
	1 "Broomwade WK125" Portable Air Compressor Knox Schlapp P/L.	£1,425
	1 "Atlas Copco Model VT 6/Dd" Portable Air Compressor Atlas Copco Aust. P/L.	£3,125
1964	2 "Stow T-18-A" Vibrating Rammers Coates & Co. Ltd.	£616
	1 "International Model A41-2" 3½/5 ton Diesel Mobile Jib Crane Victn. Ind. Sales & Service P/L.	£4,117
	2 - 8¼/10 ton "McDonald Imperial" Diesel Road Rollers A.H. McDonald & Co. P/L.	£10,428
	1 "International H-70-C" Payloader Victn. Ind. Sales & Service P/L.	£14,280
	1 Road Broom Model B78/5 Conquip Sales (Vic.) P/L.	£425
1965	1 "Conquip Model FEL 27 C" Front End Loader Conquip Sales (Vic.) P/L.	£4,523
	1 "Conquip FEL 27 HC" Front End Loader with Back Hoe Conquip Sales (Vic.) P/L.	£7,025
1966	1 Fuelling, Greasing and Lubrication Service mounted on vehicle supplies Tecalemit (A'asia) P/L.	£4,270
	1 Portable Rail Grinder Machine Tool Sales P/L.	£4,442
	18 Petrol Engined Generator Sets L.F. Masters & Co. P/L.	\$5,094
	1 "Model L.D.9" Scoopmobile Series 1100 Moore Road Mach. (Vic.) P/L.	\$31,700
1967	2 "Atlas Copco" Portable Air Compressors Atlas Copco Aust. P/L.	\$3,126
	1 "Tugmaster" Low Loader Trailer Freighter Industries (Vic.) P/L.	\$3,263
1968	2 "Hebco" D.E. Pedestal Grinders Suttons P/L.	\$705

POLES - STEEL AND WOODEN.

1922	Contract 151 - Stewart and Lloyds Ltd., made by Stewart and Lloyds, Glasgow.	
	170 Steel Span Poles	£12. 7.9 ea.
	35 " Anchor "	£16. 2.0 ea.
1923	Above suppliers	
	1,250 Steel Span Poles	£10.19.5 ea.
	300 " Anchor "	£13. 7.4 ea.
	100 " Centre "	£9. 8.1 ea.
April 1923	400 Dressed Hardwood Poles 32' at E.F. Broads Ltd., Sydney.	£3. 18.0 ea.
	1-31'	£3. 18.0 ea.
	16-35'	£4. 13.9 ea.
	4-40'	£5. 18.0 ea.
1924-25	300 Steel Centre Poles Noyes Bros P/L made by British	£9. 1.9 ea.
1925	100 - 32' Steel Span Poles	£21. 0.0 ea.
	100 - 35' " Anchor "	£22. 7.0 ea.
	Knox Schlapp & Co. made by John Spencer & Co., Wednesbury, England.	
	700 - 32' Lapwelded Steel Span Poles. Stewart and Lloyds Ltd.	£7,256
	300 - 30' Steel Span Poles	£10. 0.0 ea.
	300 - 32' " Anchor "	£12.15.6 ea.
	Noyes Bros. made by British <i>Mannesmann Tube Co. Ltd.</i>	
1925-26	500 - 32' Anchor	£17.10.0 ea.
	200 - 35' "	£20. 2.6 ea.
	Noyes Bros. made by British	
	500 - 31' Ironbark Span Poles E.F. Broad Ltd.	£ 4. 5.0 ea.
	200 - 35' Ironbark Span Poles	£ 4.18.0 ea.
	100 - 40' " " "	£ 5.11.0 ea.
	Elder Smith for Allen Taylor & Co., Ltd.	
1929	200 - 35' Dressed Ironbark R.F. White & Co., Ltd.	£ 4. 1.0 ea. £810
	350 - 32' Steel Span Poles Stewarts and Lloyds Ltd.	£ 8.18.3 ea.
1935	100 - 32' Steel Span Poles Stewarts and Lloyds Ltd.	£ 7.13.8 ea.
1936	100 - 32' Steel Span Poles Stewarts and Lloyds Ltd.	£ 8. 7.6 ea.
1936-37	200 Dressed Wooden Poles Wm. Haughton & Co.	£ 3. 5.9 ea.
1937-38	550 Steel Span Poles Humes Steel Ltd.	£ 8.12.6 ea.
1941	2 - 50' and 38 - 35' Wooden Poles Alex Sturrock & Sons Pty. Ltd.	£10.14.3 ea. + £ 4. 3.9 ea.
1944	50-32' Wooden Poles	£ 4. 6.6 ea.
	20 - 35' Wooden Poles Norman Parker, Bruthen.	£ 4. 9.6 ea.
1946	100 - 32' Steel Anchor Poles	£35. 5.0 ea.
	50 - 35' " " "	£39.17.6 ea.
	Hume Steel Ltd.	

1946	950 - 32' Steel Span Poles Hume Steel Ltd.		£11. 1.6 ea.
1956	90 - 32' Grey Ironbark Span Poles 40 - 35' " " " " A.C. and R.E. Brooks.		£15. 0.0 ea. £17. 0.0 ea.
1958	35 - 32' Steel Span Poles Stewarts and Lloyds (Distributors) P/L.		£50. 0.0 ea.
1959	60 - 32' Steel Span Poles Humes Ltd.		£59. 0.0 ea.
1961	180 - 32' type A Wood Poles 4 - 32' " B " " 10 - 35' " A " " 2 - 35' " B " " 2 - 40' " A " " 2 - 40' " B " " Saxton <del>Timber</del> Trading Ltd.		£12.17.6 ea. £15. 0.9 ea. £13.10.6 ea. £16. 2.6 ea. £16.16.0 ea. £19. 9.6 ea.
1963	2,000 Brackets etc., for erection of Steel Poles. Viac Products P/L.	Equipment on	£1,524
1964	100 - 32' Class A Preserved wood, natural Round. G.H. Innes P/L.		£16. 7.0 ea.
1965	100 - 32' Class "A" Preserved Round Wood Poles Hickson's Timber Impregnation Co (Aust) P/L.		£15. 8.7 ea.
1966	185 - 32' Steel Span Poles. James Iyall Engineering Co. (for St Kilda Junction Project of M.M.B.W.)		\$199.84 ea. \$36,970
	12 - 40' Class "A" Preserved Round Wood Poles 72 - 32' " " " " " " Hickson's Timber Impregnation Co (Aust) P/L.		\$40.00 ea. \$32.40 ea.
1967	100 - 32' Class "B" Preserved Round Wood Poles. Hickson's Timber Impregnation Co. (Aust) P/L.		\$3,635
	95 - 32' Class "A" Preserved Wood Poles 5 - 32' " " " " " " Duncan - Innes P/L.		\$27.00 ea. \$32.75 ea.



RAIL BONDS.

April, 1924

Aust. Gen. Elec. Co. Ltd. made by American Steel and  
Wire Co.

2516

1951

11 Rail Bonds  
Smith & Bate, East Brunswick, first locally made.

21,677 Lot

SPECIAL TRACKWORK.

1922. Scissors, Crossover, 20 ft. centres and 2 extra Tongues - Hadfields, Sheffield £1,430.  
Points and Crossings for Glenhuntly Depot. Edgar Allen & Co., Sheffield £1,279.
- 1925-7 " " " Dandenong and Denby Rds. Junction, Hadfields Ltd., Sheffield £2,030.
- 1923 Construction of Per. Way in Church St., Hawthorn. Edward Carroll Pty. Ltd. £6,677.
1922. Special work Riversdale & Glenferrie Rds., Hadfields Ltd., N.S.W. £2,235.
1924. Special Work, Essendon Depot Extension, Hadfields Ltd., Sheffield - £1,600.  
18 Switches & Mates with 18 1-in-5 Crossings, Commonwealth Steel Products Ltd. £2,950.  
Steelwork for 3 Cable - Electric Crossings (one for William and Peel Sts.?) Forman & Co. £2,089.  
Special work for 2 Crossings, Church & Swan Sts., £3,442. Hadfields Ltd., Sheffield.
- 1926-7 2 Standard Open Per-Way Crossovers, Forman & Co. £649.  
Steelwork for Church St., Bridge Rd. Crossing, Sydney W. Newman £695.  
Specialwork for 2 Crossings, Abbotsford St. and Flemington Rd. Commonwealth Steel Products Pty. Ltd. £759.  
Special work for Coburg Depot Extn. Hadfields Ltd., Alexandria & Sheffield £900.  
Brunswick & Lygon St., Hadfield's (Aust.) Ltd., Alexandria & Sheffield £600.
- 1924-25 20 L.H. to L. Switches £1,732  
20 R.H. to L. Mates 798  
20 1-in-5 Crossings for L.H. Crossovers.
- 1924 Special Works.  
Intersection Hawthorn and Glenhuntly Rds. £3,219  
" Victoria & Church Sts. £644  
Elder Smith & Co. made by Titan Trackwork Co., Sheffield.
- 1927-8 Construction of Per. Way for West Coburg Tramway Thomas Starr CONT. 284. £11,089
- 1924-25 Construction of Per. Way in Holden St. - M.D.Moran £9,365  
Steelwork for Crossing, Chapel St. & Toorak Rd., Forman & Co. £654.  
Special work for Aturt and Hanna St. and Hanna St. Car Depot. Noyes Bros. made by Edgar Allen & Co., Sheffield - £1,690.  
Special work for Junction, Chapel & Carlisle Sts., Commonwealth Steel Products Co. Ltd. £3,141.
- Aug. - Oct. 1927 12 R.H. to R. Switches £72 each )  
12 L.H. to R. Mates £4/15/- each ) £1,570.  
6 1 in 5 Crossings £3,456 )
- 1925-26 Construction of Per. Way in William and Peel Sts. E.H. Carr - £17,646.
- 1927-8 Construction of Per. Way, South Melbourne. Herbert de Cott Pty. Ltd. £64,953.  
Special Work for Junction, St. Kilda and City Rds., Commonwealth Steel Products Co. Ltd. £694.  
Surfacing Tracks in Lygon St. 9,767 sq. yards at 9/5 £4,598.  
W.B. Carr.

1925-26	Steelwork for Cable Electric Crossings Swanston & Bourke Sts.	£600.
	" & Collins Sts.	£600.
	" & Flinders Sts.	£899
	S.W. Newman.	
1925-7	Special work - Renewal Coldblo & Glenferrie Roads Hadfields Aust. Ltd.	£586.
1925	5 prs. Connected Points with Mechanism	£775.
1926	6 Switches & Mates, 90 lb. 12 ditto 80 lb. Vickers-Commonwealth Steel Products Ltd.	£2,677
1926-7	Special work - Domain & St. Kilda Rds. Vickers-Commonwealth Steel Products Ltd.	£700
	Special Work - Toorak & Glenferrie Rds. <del>Vickers-Commonwealth</del>	£745
	Special work - Brighton & Glenhuntly Rds. Vickers-Commonwealth Steel Products Ltd.	£1,540

CONTRACT 456.

1926-7	Conversion and construction of Per. Way. Chapel St. & Toorak Cable lines. C.D. Timms, Sir Alfred Ashbolt, A.W. Palfreyman, Sir Henry Jones and Henry G. Gray	£110,105.
	12 Prs. Switches & 48 1 in 5 Crossings Hadfields Aust. Ltd.	£4,096
	50 Switches & Mates Horrocks Roxburgh made by Hadfields Ltd., Sheffield.	£4,659
1927	Special Work, Junction Wallen Rd. & Power St. Vickers-Commonwealth Steel Products Co. Ltd.	£842.
	2 Rectangular Crossings, Swanston & Flinders Sts., Bridge Rd. & Church St. Vickers-Commonwealth Steel Products Ltd.	£1,080.

CONTRACT 497.

1927-8	Construction of Per. Way for West Coburg Tramway Thomas Starr	£11,089
	12 Switches & Mates, 61 1 in 5 crossings Hadfields Aust. Ltd.	£3,052.

CONTRACT 505.

1927-8	Conversion of Richmond Cable Tramway Foundation Co. Ltd.	£78,989
Aug.- Oct. 1927	Gilbert Fd. Duplication.	
1927-8-9	32 Switch Rongues Charles Ruwolt Pty. Ltd.	£528
	Special Work, Wattletree & Dandenong Rds., Davies, Baird & Robertson P/L.	£788
1927-8	40 1 in 5 Crossings Davies, Baird & Robertson P/L.	£1,333
	77 Switches & 35 Mates Vickers-Commonwealth Steel Products Co. Ltd.	£10,131.
	8 Interconnected Switches Vickers-Commonwealth Steel Products Ltd.	£1,180
	Special Work - Caulfield Loop Hadfields Aust. Ltd.	£686

1928.	Riversdale Rd. Exten.	
	Special work - Barwise St. & Flemington Rd. Davies, Baird & Robertson P/L.	£785.
	54 Switches & 3 Mates Hadfields Aust. Ltd.	£5,841.
	Special work - Hopkins & Droop Sts. Vickers - Commonwealth Steel Products Ltd.	£779
	<b>//</b> Nicholson St. Duplication - ? Footscray.	
	12 Switches Vickers - Commonwealth Steel Products Ltd.	£1,560
1928-9	Crossing, Glenhuntly Depot Entrance Hadfields Aust. Ltd.	£155
	Steelwork for Swanston & Lonsdale St. Crossing S.W.	£1,328
	Special Work - Riversdale Rd. & Camberwell Carshed Junction Davies, Baird & Robertson P/L.	£1,086
1929-30	Crossing - Swanston & Collins Sts. Davies, Baird & Robertson P/L.	£499
	<u>CONT. 707</u>	
1929-30-31	Conversion of Victoria & Collins Sts. Victorian Construction P/L.	£71,168
	9 Switches & Mates Davies, Baird & Robertson P/L.	£849
	1 Manganese Steel Crossing Vickers - Commonwealth Steel Products Ltd.	£1,093
	Special work - Swanston St. & Batman Av. Vickers - Commonwealth <sup>Steel</sup> Products P/L.	£509
	Special Work - Junction, Barkers Rd. & High St. Davies, Baird & Robertson P/L.	£163
1930	Special Work - Coldblo & Glenferrie Rds. Davies, Baird & Robertson P/L.	£1,876
	10 Prs. Points for Malvern Carshed Davies Baird & Robertson	£1,265
1930	Special Work - Victoria Pde. & Brunswick St. Vickers - Commonwealth	£598
	2 Cable-Electric Crossings Hadfields (Aust.) Ltd.	£2,150
	Special Work - St. Georges Rd. & Holden St. Hadfields (Aust.) Ltd.	£541
1930-1-2	Conversion of Fitzroy Cable Tramway Per. Way W.B. Carr Constructions P/L.	£41,284
1931	3 Manganese Steel Crossings 6 " " " " Hadfields(Aust.) Ltd.	£125 £282
	5 Prs. Switches & Mates, Essendon Car Shed Davies, Baird & Robertson P/L.	£455 £174
1932 1933	6 Manganese Kings, Caulfield Loop - Davies Baird & Rob. 1 Cable-Electric Crossing - Flinders & Market Sts. Davies Baird & Robertson P/L.	£1,228
	6 Manganese Crossings - Wellington Pce. Junction Davies, Baird & Robertson P/L.	£306
	6 Prs. Interconnected Points, 4 Switches, 2 Switch Tongues Davies Baird & Robertson P/L.	£1,009

1934	1 Cable-Electric Double Track Crossing, Bourke & William Sts. Vickers - Commonwealth Steel Products Ltd.	£1,248
	Special Work - Kew Depot Entrance Davies & Baird Pty. Ltd.	£1,164
	Special Work - St. Georges Rd. & Miller St. (Dundas St.) Preston Commonwealth Steel Co. Ltd.	£1,112
1935	Special Work - Junction Burke & Riversdale Rds. Vickers - Commonwealth Steel Products Ltd.	£2,413
	9 prs. 90 lb. Connected Points, 5 90-lb. Switches & Mates, 3 102-lb. Switches & Mates Davies & Baird P/L.	£2,333
	Special Work - Junction Sydney & Moreland Roads. Davies & Baird P/L.	£2,512
	Special Work - Junction Peel St. & Flemington Rd. " " " Elizabeth St. "	£792 £800
	Davies & Baird Pty. Ltd.	
	Special Work - Elizabeth & Victoria Sts.	£1,361
<u>CONT. 919</u>		
1935-6-7	Conversion of Brunswick and North Melbourne Cable Tracks, commenced 5/10/35, completed 2/5/36. E.H. Carr	£91,428
1935	Special work - Flemington Rd. and Abbotsford St., 7 Switches & Mates, 4 1-in-5 Crossings Davies & Baird P/L.	£807 £968
1935-6	12 Prs. Interconnected Points Commonwealth Steel Co. Ltd.	£1,651
	Special Work - Moreland Rd. & Cameron St. Davies & Baird P/L.	£538
1936	Special work - High St. & Glenferrie Rd. Davies & Baird P/L.	£2,007
1936-7	19 prs. Points & 9 1-in-5 Crossings Davies & Baird P/L.	£2,822
	Special work - Flinders & Spencer Sts. Collins & Spencer Sts.	£885 £774
	Davies & Baird P/L.	
1937	Special Work - Park & Clarendon Sts. Davies & Baird P/L.	£3,051
<u>CONT. 1000.</u>		
1937	Conversion and construction Per. Way, South Melb. Cable Tracks completed 24/8/37 C.D. Timms.	£33,945
	12 Points & 16 1-in-5 Crossings Davies & Baird P/L.	£2,165
1937-8	Special Work - Swanston St. & Batman Av. Davies & Baird P/L.	£414
	4 Prs. Interconnected Points & 1 in 5 Crossing Commonwealth Steel Co. Ltd.	£600
	4 Prs. Interconnected Points & 3 1-in-5 Crossings Davies & Baird P/L.	£760
	Construction of Per. Way, Hawthorn Rd., Brighton R. G. Wales	£2,725

1937	Abandonment of Lonsdale St. Cable Tramway 4/12/37 Victoria Roads P/L.	£3,226
1938	Special Work, Glenhuntly Rd. & Broadway Crossing Davies & Baird P/L.	£918
	Special Work, Swanston & Collins St. Crossing Davies & Baird P/L.	£808
	Scissors Crossover for Batman Avenue Davies & Baird P/L.	£1,374
	Special Work - Hawthorn & Dandenong Rds. Davies & Baird P/L.	£1,803
1939	1 Pr. Interconnected Pts., 4 prs. Switches & Mates, 2 1 in 5 Crossings Commonwealth Steel Co. Ltd.	£712
	1 Pr. Interconnected Pts., 5 1-in-5 Crossings Davies & Baird P/L.	£450
1940	Manganese Steel Crossings, St.Kilda Rd. & Park St. " " " " & Domain Rd. Davies & Baird P/L.	£572 £605
	Manganese Steel Crossings; St.Kilda & Commercial Rds. Davies & Baird P/L.	£585
1941	Switches, Mates and Crossings Davies & Baird P/L.	£6,687
1943	Ditto	£6,493
	Ditto	? £1,200
<u>CONT. 1374.</u>		
1946	Special Trackwork for Bourke St. Conversion - details in Contract Book No. 10, Folio 267	
1947	Special Work for 3 years Programme Railway-Tramway Crossing, High St. & Langwell's Pde., N'Cote East Preston Depot Entrance from Plenty Rd. Nicholson St. Depot and Entrance Railway-Tramway Crossing, Nicholson St. Sundry other items - for details see Book No.11, Folio 131 Commonwealth Steel Co. Ltd.	£1,584 £5,330 £2,557 £2,692
1953	Straightening & Grinding 53 Switch Stocks & Tongues & 13 Mates, etc. S.W. Newman & Co.	£4,470
1954	12 Prs. Interconnected Switches 3 Prs. Switches & Mates 3 1-in-5 Crossings Davies & Baird P/L.	£671 Pr. £631 " £231 Each
	Crossings Nos. 31 & 32 for East Preston Depot 6 Prs. Interconnected Switches 4 " Switches & Mates 10 Duplicate Switch Tongues Commonwealth Steel Co. Ltd.	£792 Lot £928 Pr. £740 " £37 Each
	1 Reatangular Crossing with Movable Ramps for Bourke & William Sts. Davies & Baird P/L.	£2,480
1957	Straighten, Grind, Fit & Assemble 11 prs. Switches & Mates & 3 1-in-5 Crossings Ellis Scott P/L.	£2,175
	5 Prs. Interconnected Switches Ellis Scott p/L.	£660 Pr.
	19 Switch Tongues Ellis Scott P/L.	£1,171 Lot

CONT. 1984.

1958	16 Items special Trackwork Ellis Scott P/L.	£40,795
1961	25 Switch Assemblies Davies & Baird (Engineering) P/L.	£425 each
1962	8 Switch Tongues Davies & Baird (Engineering) P/L.	£640 lot
1963	15 Switch Assemblies Davies & Baird P/L.	£7,230
1964	63 Switch Assemblies Edgar Allan & Co. (Aust.) P/L.	£29,070
1967	51 Switch Assemblies Edgar Allan & Co. (Aust.) P/L.	£53,958

SUBSTATION EQUIPMENT.

CONT. 185.

Feb. - Dec. 1924	10 Substation Units 500 K.W. Rotary Converter and Spare Armature £650 and Transformer £755.	£25,350
---------------------	--	---------

CONT. 187.

June, 1924 to June, 1926.	4 Semi-Auto Substation Equipments 16 High Speed C.B. Feeder Panels & Accessories Aust. General Electric Co. Ltd. made by Gen. Elec. Co. U.S.A.	£10,403 £2,152
------------------------------	--	-------------------

CONT. 190.

1923 Feb. 1924 April, 1925	Manual Control Gear & Switchboards Ferguson Paulin Ltd., Sydney & England	£2,197
----------------------------------	--	--------

June, 1924 " 1926	Manual Control Gear and Switchboards Aust. Gen. Elec. Co. Ltd. made by Gen. Elec. Co. U.S.A. and British Thomson-Houston Co., England	£6,588
----------------------	---	--------

1924	2 Overhead Travelling Cranes, Carlton and Ascot Vale Substations. Made by W.A. Hodgkinson & Co., Sydney.	£405
------	--	------

1925-6-7	3 - 1100 K.V.A. Transformers, etc. English Elec. Co. of Aust. Ltd.	£11,313
----------	---	---------

CONT. 296.

1925-6	Substation Equipment - see documents B.T.H. Co. Ltd. & G.E.C. Co. U.S.A. - see Johnson & Phillips Ltd. & Aust. Gen. Elec. Co. Ltd.	£27,018
--------	--	---------

1926-7-8	Remote Supervisory Control Gear, Carlton and St.Kilda Substations B.F. Benson made by Westinghouse Co., U.S.A.	£1,718
----------	--	--------

1927	Overhead Travelling Crane, Carlton Substations Babcock and Wilcox Ltd.	£480
------	---	------

1926	3 sets Automatic Switch Equipment and Accessories B.F. Benson made by Westinghouse Elec. & Manfg., East Pittsburgh, U.S.A.	£6,995
------	--	--------

	3 B.T.H. Tap Started Rotaries, 3 G.E. 1100 K.V.A. Transformers, 3 Fuel Control Equipment and Accessories Aust. Gen. Elec. Co. Ltd. made by Gen. Elec. Co., U.S.A. & British Thomson-Houston Co., Rugby, England.	£17,120
--	---	---------

	3 - 1000 K.W. Rotary Converters, 3 - 1100 K.V.A. Transformers & Accessories English Elec. Co. of Aust. Ltd. made by English Elec. Co. Ltd., England.	£9,718
--	---	--------

1928-9	Crane for Crombie Lane Substation Austral Otis Eng. Co. Ltd.	£497
--------	---	------

1929-30	2 10-ton D'Head Travelling Cranes, Young St. & Malvern Subs John Welsh	£818
---------	---	------



1936-1	Auto Substation Equipment R.F. Benson	£3,967
	Ditto Siemens Aust. P/L.	£22,511
	Ditto Aust. Gen. Elec. Co. Ltd.	£8363
1934	1 - 500 K.W. Rectifier Unit complete Edmund L. Hill made by Hewittic Elec. Co. Ltd. Walton-on-Thames, England.	£2,685
1935	1 - 6,600 volt Transformer ) 1 - Rectifier Equipment, etc. ) Edmund L. Hill for Hewittic Elec. Co. Ltd., England.	£3,059
1936-7	1 English Electric Rotary Converter RJ 506 1 A.G.E. Oil Immersed Transformer Siemens (Aust.) P/L.	£1,901 £394
	1 - 2 Steel Bulb Rectifier, etc. ) 1 - 6,600 volt Transformer, etc. ) British Gen. Elec. Co. Ltd.	£1,880
1942	2 B20B Auto Oil Circuit Breakers Westinghouse Roseberry P/L.	£711
	<del>1 B20B Auto Oil</del> 1 Manually Optd. B.R.P. 4 Oil Circuit Breaker Aust. Gen. Electric Co. P/L.	
1942	1 Vertical "Lister" Diesel Electric Generating Plant 28 KVA Mitchell & Co.	£1,025
	3 - 6,600 V. KVA Outdoor Transformers & Oil Conservators Aust. Gen. Elec. P/L.	£4,206
	3 Oil Current Breakers 6,600 V. BRP 4 A.G.E. P/L.	£725
1946	3 Pumpless Rectifier Equipments, etc. British Gen. Elec. Co. P/L.	£8,450
	1 - 6,600 V. K.V.A. Transformer A.G.E. P/L.	£1,477
	4 - 6,600 volt Oil Circuit Breakers A.G.E. P/L.	£1,016
1947	3 Pumpless Rectifier Equipments British Gen. Elec. Co. P/L.	£3,741
1952-3	2 Pumpless Mercury Arc Rectifier Equipments & Spares 1 Spare Cylinder for above British Gen. Elec. Co. P/L.	£22,668 £1,625
	5 6,600 volt JB821-M1 Oil Circuit Breakers A.G.E. Co. P/L.	£352 Each
	15 Manual 6600 volt Oil Circuit Breakers Johnson & Phillips Ltd.	£389 each
1954	2 600 K.W. Pumpless Rectifier Equipments British Gen. Elec. Co. P/L.	£5,646
	1 Transformer & Spares A.G.E. P/L.	£2,065
1956	3 100 KVA, 6,600 volt Transformers etc. Noyes Bros. (Melb.) P/L.	£1,244
1957	20 High Speed Circuit Breakers £586 each + Accessories Aust. Gen. Elec. Industries Ltd.	
	2 Pumpless Rectifier Equipments British Geb. Elec. Co. P/L.	£7,980 each

## SUBSTATION EQUIPMENT

3.

CONT. 1977.

1959-60-1	Supervisory Control Equipment Standard Telephones & Cables P/L.	£95,075
1960	6 B.T.H. 6/20 Glass Bulb Rectifiers Hackbridge & Hewittic Elec. Co. Ltd.	£2,250 Lot
1962	1 - 200 KVA. Transformer Noyes Bros. P/L.	£768
1964	6 Glass Bulb Mercury Arc Rectifiers Hackbridge & Hewittic Elec. Co. Ltd.	£2,560
	3 - 6,600 volt 250 M.V.A. Oil Circuit Breakers Johnson & Phillips (Aust.) P/L.	£1,527
	1 Portable Oscillograph, etc. Texas Instruments Aust. Ltd.	£1,183
1965-6	4 Semi-Conductor Rectifier Equipment 1,000 K.W. 6,600 volts to 600 volts with Transformers, Circuit Breakers & Spares Simplon Distributing Co.	£40,309
	2 sets 6,600/11,000 volt Metalclad Switchgear, etc. South Wales Elec. (Aust.) P/L.	£12,474
1967	1 "Southern Instruments Model M 1310" Oscillograph, etc. Ronald J.T. Payne P/L.	\$4,571

TRAFFIC.

1956-57	24 "Ultimate" Ticket Issuing Machines Bell Punch (A'asia) Ltd.	£34 Each
1951-52	2-way Radio Communication (Mobile) Base Station, 18 Telephone Units and Spares Pye-Electronic Pty. Ltd.	£4,617

TRAMS AND BODIES.

<u>Cont. 178.</u> Aug. 1923	One-man Safety Car "Birney" Double Ended Noyes Bros. made by J.G.Brill Co., Philadelphia, U.S.A.	£2,090
Sept. 1923	One St. Louis Safety Car with Westinghouse Motors, C.S. Wallace & Co. - made by St. Louis Car Co., U.S.A.	£2,265
<u>Cont. 198</u> Aug. 1923	6 G.E. 201 Traction Motors Aust. Gen. Elec. Co. Ltd. made by Gen. Elec. Co. U.S.A.	£206 Each
Oct. 1923 to Jan. 1925	30 Four Motor Equipments, M.V. 101 A Motors and T4A Controllers, etc. Metro Vickers Elec. Co. Ltd.	£883 "
<u>Cont. 208</u> April, 1924 Jan. 1926	60 Drop Centre Bogie Car Bodies Holdens Motor Body Builders Ltd., Adelaide 30 Ditto James Moore & Sons Ltd., City Rd., South Melb.	£80,175  £41,791
<u>Cont. 289</u> 1924-5-6	30 Ditto - James Moore & Sons Ltd.	£40,016
<u>Cont. 535</u> 1927-8-9	30 Ditto - James Moore & Sons Pty. Ltd.	£38,776

TRAM EQUIPMENT.

1922.	27 Air Brake Equipments and Spares G.E.C. Co. U.S.A.	£3,116.
1923.	12 complete Motor Equipments for Single Truck Cars with Delta 1015 Box Frame Motors (Spur Gearing) - Metropolitan- Vickers Electrical Co. Ltd.	£5,186
1922	230 - 33" Steel Tires - Thompson & Co., Castlemaine	£3/10/- Each
	170 - 33" Steel Tires	£3/10/- "
	100 - 20½" " "	£2/5/- "
	Commonwealth Steel Products Ltd.	
Near Aug. 1923	12 Single Type Trucks G.F. Sewell, Footscray	£2,220
May-Oct. 1923	120 Tram Axles, Dwg. 983 Thompson & Co., Castlemaine	£9/12/6 each
1924	60 CP-27-B Air Compressors and Accessories Aust. Gen. Elec. Co. Ltd. made by Gen. Elec. Co., U.S.A.	£9,125
	120 Car Sets, Blinds, Dwg. 1007 made by Curtain Supply Co. U.S.A. R.F. Benson	£7,815
1924-25	20 BTH 265-A Four Motor Equipments	£14,120
	40 G.E. K-35-JJ partial control Equipments Aust. Gen. Elec. Co. Ltd.	£4,000
1924	60 6P27B Air Compressors, Governors, etc. Aust. Gen. Elec. Co. Ltd. made by G.E.C. U.S.A.	£6,023
1924	<del>60xxxxxx</del> 60 Eogie Trucks with Bolsters Perry Eng. Co.	£149/-/- each
1924	240 sets Forged Steel Equalizing Bars G.F. Sewell Pty. Ltd.	£4/15/- Set
1924	100 Axles, Dwg. 983 Hadfields Aust. Ltd.	£8/4/6 Each
	122 Air Brake Equipments for Bogie Cars, Cylinders & other accessories Westinghouse Brake Co. Ltd.	£1,852
<u>CONT. 253</u>		
1924-25	30 M.V. 101-A Equipments Metropolitan Vickers Elec. Co. Ltd.	£17,898
1925	80 BTH 265 D Traction Motors plus sundry accessories & spares Aust. Gen. Elec. Co. Ltd.	£177/9/6 each £27,436
	60 CP 27 Compressors, Governors, etc. Aust. Gen. Elec. Co. Ltd.	£5,878
	300 Weather Blinds	£736
	1200 Sun "	1,674
	480 " "	640
		<u>£3,080</u>
	Allied Eng. Co. Ltd. made by W.S. Laycock & Co., Sheffield.	
1925-26	40 DK 34 A Motors, Accessories and Spares English Elec. Co. of Aust. Ltd.	£12,122
	160 M.V. 101 A Motors £176/10/- each plus accessories Metropolitan-Vickers Co. Ltd.	£33,108
	124 Motorman's Valves, Slide Type, etc. Westinghouse Brake Co. of Aust. Ltd.	£1,769
1925,6,7	10 sets Motor Equipments, M.V. 101 B for S.T. Safety Cars Metro. Vickers Elec. Co. Ltd.	£5,929
	10 C.27 Air Compressors Aust. Gen. Electric Co. Ltd.	£992

1926	120 4-Motor Equipments M.V. 101 A.R. etc. Metro-Vickers Elec. Co. Ltd.	£27,394
	Sundry Air Brake Items Westinghouse Brake Co. of Aust.	£1,676
1926-27	60 C.P.27 Air Compressors, etc. & Spares Aust. Gen. Elec. Co. Ltd.	£6,752
	120 G.E. 247 A Motors complete & spares Aust. Gen. Elec. Co. Ltd.	£39,861
	60 car sets x 28 = 1680 Sun Blinds " " x 6 = 360 Weather Blinds & 360 extra " " x 8 = 480 Sun Blinds 10 car sets x 16 = 160 " "	£3,187
	Horrocks Roxburgh for G.& D. Peters Ltd., London.	
	130 Trolley Pole Bases, £8/15/- each Orton & Burns	£1,137
1927-8	200 Trolley Pole Bases £7/15/- each Orton & Burns	£1,556
	160 M.V. 101 AX Australian made Traction Motors, etc. Metro-Vickers Elec. Co. Ltd.	£34,440
	160 G.E. 247A Traction Motors, etc. Aust. Gen. Elec. Co. Ltd.	£44,329
1927-8-9-30	20 Prs. English Electric & 26 Controllers and 20 Type 6 Form A Line Breakers Siemens Aust. P/L.	£2,661
	74 CP 27 B Air Compressors complete & parts Aust. Gen. Elec. Co. Ltd.	£7,633
1928-9	120 G.E. K35 JJ Controllers 120 G.E. 247 A Motors, etc. Aust. Gen. Elec. Co. Ltd.	£6840 £26,505
	Airbrake Equipment Governors, M'mans Valves & Handles, Switches Aust. Gen. Elec. Co. Ltd.	£1,422
1929	4 sets Car Door Engines Railways and Rolling Stock Equipment Ltd.	£383 ? USA.
	132 M.V. 101 A.N. Motors, etc. Metro-Vickers Elec. Co. Ltd.	£25,890
	61 D.H.16 Compressors & Accessories W'House Brake Co. of Aust. Ltd.	£5,717
1929-30-31	120 M.V.101 AN. Motors for 26" Wheels ) 80 " " " 33" " ) Metro-Vickers Elec. Co. Ltd.	£44,161
1930-31	36 Prs. K 35 JJ Controllers 50 M.D. 3 Lightning Arrestors 120 Switches Aust. Gen. Elec. Co. Ltd.	£3,823 £209 £224
	15½ Prs. Q2Z Controllers 1 " Q2K " 50 Form C Line Breakers Siemens Aust. Ltd.	£1,193 £104 £1,162
1935	30 Sets Gears & Pinions to Dwgs. R.4117 & R.4123 = 120 Richardson Gears Pty. Ltd.	£2,496
1935-6	60 D.H.16 Air compressors, etc. Westinghouse Brake Co. of A/asia Ltd.	£10,562

TRAM EQUIPMENT.

3.

1935-6-7	120 English Electric Cam Operated Controllers 60 E.E. FormCA Line Breakers, etc. Siemens (Aust.) Pty. Ltd.	£10,327	
1935-36	240 G.E. 247A Traction Motors, etc. Associated Gen. Elec. Industries Ltd.	£49,668	
	8 - 50 H.P. 300 volt Westinghouse Delta 4821/A Traction Motors, etc. Australian Westinghouse Electric Co. Ltd.	£3,997	
1936-7	92 G.E. 247-A Traction Motors Australian General Electric Ltd.	£15,518	
1937-38	160 G.E. 247 A Traction Motors Australian General Electric Ltd.	£24,259	
	40 Tram Sets Remote Control Equipments Siemens (Aust.) P/L.	£8,970	
	1980 Rubber Seat Cushions	17/6 each	)
	1980 " " Backs	6/6 "	)
	1980 " Filling Pieces	9-3/4d. each	)
	165 1 lb. tins Solution	17/6 Dozen	)
	Latex Products P/L.		
1938	10 sets Door Engines Horrocks Roxburgh P/L. for ? G.& D. Peters, England	£1,024	
	40 sets Ditto	£2,780	
	40 D.H. 16 Air compressors, etc. Westinghouse Brake (A'asia) Pty. Ltd.	£9,676	
	172 G.E. 247 A Traction Motors £179 each Aust. General Elec. Ltd.	£30,788	
1942	172 ditto £227 each	£39,044	
1944-45	166 G.E.247A Traction Motors, etc. Aust. Geb. Elec. P/L.	£250 each	
	40 Tram Sets Air Brake Equipment Westinghouse Brake Aust. P/L.	£9,540	
1947-8	408 G.E. 247A Traction Motors £287 each Aust. General Elec. P/L.	£117,096	
1954	85 Resilient Wheels (first of) Industrial Steels Ltd.	£90/6/3 each	
	85 Tires for M.M.T.B. Resilient Wheels (first of) Commonwealth Steel Co. Ltd.	£32/0/6 "	
	170 Rubber Sandwiches for 28" wheels M.M.T.B. type (first of) Dunlop Rubber Aust. Ltd.	£3/13/5 "	
1955	13 Tram Car Frames Ansair P/L.	£628	"
	5,000 Carbon Inserts for Shoe Collections (first lot) Morgan Crucible (Aust.) P/L.		1/10 "
	30 Tramcar Frames Contract determined at Commonwealth Eng. (Vic.) P/L.	£927 £13,013	"
	Truck & Brake Gear Forgings Robison Brost Co. P/L.	£13,421	
1958	Plastic Coating 10 Tramcar Roads (first trial) Plasticoat Co. P/L.	£918	Lot

## TRAM EQUIPMENT

1960	Nylon Bushes ( <u>first purchased</u> ) F. Hook P/L.	
1963	36 Tram Axles Thompsons (C'maine) Ltd.	£31/13/- Each
1964-7	6000 Moulded Composition Brake Shoes ( <u>first purchase</u> ) Hardie Ferodo P/L.	£1/19/- Each & £920/-/- plus Cost Tool- ing
1967	10,000 Ditto	\$3.78 each



TRAM RAILS

<u>Cont. 143</u> 1922	500 Tons 90 lb. Rail from Elder Smith & Co., manufactured by :- Walter Scott Leeds Barrow Hematite Steel Co., N.E. Steel Co., Middleborough.	to £15.15.9 £16. 7.9 ton
<u>Cont. 189</u> 1923	5,500 Tons 90 lb. 1 " BS. No.1 250 " 96 lb. Sandberg High Silicon 250 " 96 lb. Sandberg Sorbitic High Silicon 14,000 Fishplates	£10.16.2 ton £11.10.2 ton £13. 6.2 ton 4.10 pr.
1923	1,100 Tons 80 lb. 2,400 Fishplates B.H.P. Ltd.	£11.15.0 ton £13. 0.0 ton
1925	1,800 Tons 80 lb. 2,700 Fishplates Bound's Design P.1110 1,480 " R.H.P " + 1/16 " B.H.P. Co., Ltd.	£12.10.0 ton £18. 0.0 ton £36,741
1926	500 Tons 90 lb. B.5.1 100 " 96 lb. " Elder Smith & Co., Ltd. made by Bolikow Vaughan & Co.	£11. 9.3 ton £12.15.10ton £7,485
1926-27	2,600 Tons 80 lb. and 1,060 Tons Guard Plate and Special Fishplates. B.H.P. Co. Ltd.	£53,520
1926-27-28	1,000 Tons Grooved Rail 96 lb. (?) 37 Tons Fishplates 300 " Grooved Rail 96 lb. (?) 12 " Fishplates Dorman Long & Co., Ltd. made by Dorman Long & Co. Ltd, Middlesborough, England.	£11.19.3 ton £15. 9.3 ton £11.19.3 ton £15. 9.3 ton £16,307
1927	500 Tons 80 lb. Rails and Fishplates B.H.P. Co., Ltd.	£12.18.9 ton £9,520 lot
1927-28-29	2,000 Tons Guard Rail ? size 73 Tons Fishplates Elder Smith & Co., Ltd. made by Bolikow, Vaughan & Co.Ltd.	£28,996
<u>Cont. 650</u> 1928-29	160 Tons ? 90 lb. 49 " Fishplates also 20 Tons for Hobart Elder Smith & Co. Ltd. maker ?	£13. 9.6 ton £3,469
1930	112/40' 110 lb. Rail & 128 prs. Fishplates for Malvern Carshed. B.H.P. Co. Ltd.	£1,114
	270 Tons 80 lb Rail 30 " Guard Plate B.H.P. Co. Ltd.	£13. 0.0 ton £16. 0.0 ton £4,262
1932	55 Tons 96 lb. Rail 25 " Fishplates Aust. Iron & Steel Ltd. made by Dorman Long & Co., Middlesborough, England.	£11.4.6 ton £15. 4.6 ton £994
1933	100 Tons 90 lb. Rail 200 " 102 lb. " 22 " 90 lb. Fishplates Elder Smith & Co., Ltd. for Dorman Long & Co., Middlesbrough, England.	£11. 9.6 ton £11. 9. 6ton £15. 9.6 ton £9,674
	60 Tons 80 lb. 80' Rail B.H.P. Co., Ltd.	£12.10.0 ton

1935	1,250 Tons 102 lb. Rail	£11. 4.0 ton
	100 " 90 lb. "	£10.19.3 ton
	250 " 96 lb. "	£12.10.0 ton
	Elder Smith & Co. Ltd. for Dorman Long & Co. Ltd. England.	£18,227
	160/40' & 40/35' 100 lb. T Rails	£10.15.0 ton
	180 prs. Fishplates	£14. 7.6 ton
	B.H.P. Co., Ltd.	£1,299
	100 Tons 80 lb. 80' Rail	£11. 5.0 ton
	45 " Guard Plate	£13. 7.6 ton
	2 " Fishplates	£13. 7.6 ton
	B.H.P. Co. P/L	£1,863
1936	700 Tons 102 lb. Rail	£11.11.9 ton
	10 " Fishplates	£15. 2.3 ton
	Aust. Iron & Steel Ltd. for Dorman Long & Co. Ltd, England	£8,581
	500 tons 102 lb. Rail	£11.11.6 ton
	10 " Fishplates	£15. 2.6 ton
	Elder Smith & Co. Ltd. made by ?	£5,993
1937	100 Tons 80 lb. 80' Rail	£11. 5.0 ton
	40 " Guard Plate	£13. 7.6 ton
	B.H.P. Co. Ltd.	£1,640
1938	150 Tons 102 lb. Rail	£15. 7.6 ton
	100 " 90 lb. "	£15. 7.6 ton
	Elder Smith & Co. Ltd. for Dorman Long & Co. Ltd. England.	
1939	30 Tons 96 lb. Rail	£16. 9.0 ton
	4 " 90 lb. Fishplates	£18.13.4 ton
	Elder Smith & Co., Ltd. Dorman Long & Co. Ltd. England.	
1940	50 Tons 96 lb. Rail	\$80.00 ton
	4 " 90 lb. Fishplates	\$125.00 ton
	Norman W. Hutchinson made by ?	approx. £1,500
1941	750 Tons 80 lb. 80' Rail	£11. 7.6 ton
	220 " Guardplate	£13. 7.6 ton
	350 prs. Fishplates	£16. 0.0 ton
	B.H.P. & Co. Ltd.	£10,025
<u>Cont. 1328</u>		
1945	5,000 Tons 102 lb. Rail	£21.10.0 ton
	45 " Inner & 55 Tons Outer Fishplates	£21.15.0 ton
	B.H.P. Co. Ltd.	and £20. 7.6 ton
	<i>Balance approx 2,000 Tons</i>	£109,724
	<i>(whether cancelled 1952) could be first</i>	
	102 lb. made locally.	
	803 Tons 96 lb. Rail	£16.17.0 ton
	100 " 90 lb. "	£17. 3.0 ton
	158 " 90 lb. Fishplates	£22. 7.0 ton
	Fee for cutting ends for 96 lb. Rail	£1,000
	Elder Smith & Co. Ltd. made by Dorman Long & Co. Ltd.	
	Middlesbrough, England.	
1948	550 Tons 80' Rails	£17. 2.6 ton
	100 " Guardplate	£19.12.6 ton
	B.H.P. Co. Ltd.	
<u>Cont. 1688</u>		
1953	7,000 Tons 102 lb. Rail	£39. 5.0 ton
	3,088 " cancelled 10/4/56.	
	B.H.P. Co. Ltd.	£274,750
<u>Cont. 1689</u>		
1953	100 Tons Fishplates for 102 lb. Rail	£38. 0.0 ton
	B.H.P. Co. Ltd.	and £36.12.6 ton

TRAM RAILS

<u>Cont. 1690</u>	84 Tons 94lb. T. Rail 5 " Fishplates B.H.P. Co. Ltd.	£30.17.6 ton £32.12.6 ton £2,794
<u>Cont. 2404</u> 1965	6,000 Tons 102 lb. Rail B.H.P. Co. Ltd.	£54. 0.0 ton
1965-66	300 Tons 96 lb. Rail Railway Mine & Plantation Equipment, London, made in West Germany.	approx. £24,600

TROLLEY WIRE.

1923

Metal Manufacturers Ltd., N.S.W.

50 miles at 13.7d. lb.

£7,612.

WORKSHOPS EQUIPMENT.

1922	"Massey" 5 cwt. Pneumatic Hammer	£607
1923	1 Chain Mortiser	£242
	1 Tenoning Machine	£240
	1 10" centre & 8" Redwood Turning Lathe McPherson's Pty. Ltd.	£90
	1 "Carson" Tool Cutter & Grinder	£157
	1 "Clifton & Baird" High Speed Friction Saw Gibson Battle Pty. Ltd.	£781
	1 3-Spindle Drilling Machine	£291
	1 Combination Turret Lathe both "Alfred Herbert" Alfred Herbert Aust. Ltd.	£927
	1 12½" x 16 ft. High Speed Lathe "Ward, Haggis & Smith, Keighley, England. Selson Eng. Co. Ltd.	£775
	6 Hydraulic Pit Jacks Humble & Sons, Geelong.	£43 each
	1 9" Centrek 8' Gap Bed "Scrutton" Lathe Scruttons Ltd., Sydney.	£175
1924	1 14" Slotting Machine made by Butler Machine Tool Co., Halifax Gibson, Battle Pty. Ltd.	£615
	1 3 Drum Sander made by Cowan & Co., Canada McPherson's Pty. Ltd.	£750
	1 5-cwt. "Massey" Pneumatic Paven Hammer & Motor, B. & S. Massey Ltd., Manchester Benson Bros. Ltd.	£797
1924-5	1 5' Radius "Asquith" H.S. Radial Drilling, Boring, Tapping and Studding Machine with Motor Gibson Battle Pty. Ltd. made by Wm. Asquith Ltd., Halifax, England.	£724
1925-6	1 Overhead Travelling Crane & Spares Gibson Battle P/L. (? for Workshops)	£2,655
	2 Electric Traversers excluding tires, driving wheels, Gears and Pinions and Motors Scott & Son Pty. Ltd.	£2,623
1926	1 48" Heavy Niles-Bennet-Pond Co. Ltd., U.S.A. Car Wheel Lathe Bevan and Edwards P/L.	£4,289
	3 - 5 ton Overhead Electric Travelling Cranes Gibson Battle P/L.	£1,190 each
	1 H.S. Boring, Recessing, Housing & Stair Stringing Machine Lascelles Parrington Ltd. made by Wadkin & Co., Leicester, England.	£110
	1 "Pels" Combined Plate Splitting Shears and Punch with Bar Angle and Tee Bevel Cropper Benson Bros. Ltd. made by Henry Pels, London & Berlin.	£1,251
	1 Type H.N. Rip Saw, 42" & Accessories Bevan & Edwards P/L. made by Thos. Robinson & Son Ltd., Rochdale, England.	£1,242
	2 8½" centre x 8' "Macson" H.D. Screw Cutting Lathes, etc. 1 No.20 B.P. Power Guillotine Shears McPherson's Pty. Ltd.	£400 £84

1927	4 "Herbert Morris" Electric Hoist Blocks Noyes Bros.	£962
	1 42" Vertical Turning and Boring Mill McPherson's Pty. Ltd. made by Smith & Coventry, England.	£1,602
	1 Overhead Electric Travelling Crane Malcolm Moore Ltd.	£1,501
1927-28	1 2-ton Petrol Electric Runabout Crane Gibson Battle Pty. Ltd.	£1,330
	1 "Churchill" 14 x 84" Plain Grinding Machine made by Churchill Machine Co., Manchester, England Gibson, Battle Pty. Ltd.	£1,172
1928	1 "Ormerod" 18-20" Stroke H.D. Traversing Head Shaping Machine, 12' bed	£597
	1 5 ft. "Kitchen & Wade" H.S. Radial Drilling, Boring, Tapping and Studding Machine Bevan & Edwards Pty. Ltd. for Ormerod Tool Co., England, and Kitchen & Wade, Halifax, England.	£664
1927	1 Type C.6 Storage Battery Platform Truck made by Ransomes, Sims and Jeffries, England Ruston & Hornsby Ltd.	£366
	1 Model 386 Twist Drill Grinder Parke Lacey Hardie Ltd. made by Jones and Shipman, England.	£64
	1 Internal Grinding Machine Selson Eng. Co. Ltd. made by Naxos Union, Germany.	£350
	2 Combination Turret Lathes Alfred Herbert (Aust.) Ltd. made by Alfred Herbert Ltd., England.	£2,949
	6 Climax Blacksmith's Hearths	£312
	1 7" Centre Combination "Apollo" Turret Lathe Bevan and Edwards Pty. Ltd. made by Allday & Onions, Birmingham & Pollock & Macrab, Bredbury, England.	£584
	3 Emery Grinders Frank Vial & Sons Pty. Ltd. made by B.R. Rowland & Co., Reddish, Manchester, England.	£505
1928-9	1 "Summerskill" Planing Machine E.P. Bevan & Sons Pty. Ltd. made by ?	£750
	2 B.R. Rolland & Co. Reddish, England, Dry Grinding Machines	£340
	1 J.S. Heine & Son, Sydney, No. 45 Hand geared Rollers	£38
	1 McPherson's Pty. Ltd. 8½" centre x 10' Gap Bed Screw Cutting Lathe McPherson's Pty. Ltd.	£219
	1 Metal-Melting Furnace, 375 lbs. capacity	£100
	1 Case Hardening "	£70
	"Cambridge" Pyrometer Equipment S.G. Major Motor & Eng. Co.	£129
	1 Hand Jointing Machine Thos. Robinson & Son (Aust.) Ltd.	£140
	1 Avery Type No. 1015 Vertical Single Lever Universal Testing Machine A/Asian Scales Co. Ltd.	£830

1928	1 Engine Lathe Selson Eng. Co. Ltd.	£323
	1 James Archdale & Co. Ltd., Birmingham 5 ft. Radial Drill	£922
	1 John Lang & Sons Ltd., Johnstone, Scotland No. 3 Mandrill Press	£145
	1 Clifton & Baird, Johnstone, Scotland Hot Saw & Burring Machine	£421
	Gibson Battle Pty. Ltd.	
	1 "Alfred Herbert" No. 9 Combination Turret Lathe	£971
	1 Defrees Co., Germany No. 4 Bending & Forming Machine Alfred Herbert Aust. Ltd.	£870
	1 Belt Driven Horizontal Compressor 14" x 12" Geo. W. Kelly & Lewis Pty. Ltd.	£636
	1 Tabor Mfg. Co., Philadelphia, U.S.A. 13" x 18' Power Squeezing Split Pattern Moulding Machine	£190
	1 Cardiff Eng. Co., England, 7 cwt. "Oliver" Hammer, compressed Air Operated	£188
	1 Henry Pels, Lordon & Berlin Plate Punching and Shearing Machine Benson Bros. Ltd.	£247
1937	1 - 17" "Macson" Screw Cutting Lathe McPherson's Pty. Ltd.	£1,567
	1 "Craven" Wheel Lathe Wm. Adams & Co. Ltd. made by Craven Bros. Ltd., Manchester, England.	£4,483
	1 - 12" x 36" Universal Tool & Cutter Grinder Alfred Herbert (A'asia) Ltd. made by Jones and Shipman Ltd., Leicester, England.	£630
1939	1 Elec. Spot Welding Machine Aust. Oxygen & Ind. Gases Pty. Ltd.	£335
	1 Model 50B 8 ft. Guillotine "John Hume & Sons Pty. Ltd.	£284
	1 " " 68H " Folder & Bender McPherson's Pty. Ltd.	£170
1945	1 "Parkinson" 3J Milling Machine & Accessories	£1961
	2 "Macson" 8½" x 8' Lathes McPherson's Pty. Ltd.	£782
	1 "Herbert" 9B Combination Turret Lathe	£2442
	1 " " Pedestal Spindle Drilling Machine Alfred Hervert A/Asia Pty. Ltd.	£149
1947	2 "Ward" No. 7 Combination Turret Lathes McPherson's Ltd.	£1750 each + Motors, etc.
1948	1 2-ton Overhead Travelling Crane Johns & Waygood Ltd.	£876
	1 "Grob" H518-10 Metal Cutting & Band Sawing Machine Gilbert Lodge & Co. Pty. Ltd.	£395
	1 "Macson" 10" x 12' Engine Lathe etc.	£1704
	2 "Macson" 8½" x 8' Screw Curring Lathes, etc.	£846 each
	4 "Macmillan" D.E. Floor Type Grinding Machine	£407 lot
	1 "Hebco" D.E. Wet Tool Grinder	£185
	1 "Archdale" 38" Radial Drilling Machine	£770
	1 "Sagar" Chain & Hollow Chisel Mortising & Boring Machine McPherson's Ltdx.	£671

1948	3 "Herbert" Type V Drilling Machines	£289 each
	1 "Ballinger" C No. 103 Abrasive Wheel Cut Off Machine etc.	£477
	1 "Alldays & Onions" Ltd. 5 cwt. NSK Pneumatic Hammer Alfred Herbert (A'asia) Pty. Ltd.	£1055
	1 "Henry Pels" Nibbling Shears and Punch Norman N. Benson	£614
	1 "Rowland" 24" D.E. Floor Grinding Machine Gilbert Lodge & Co. Pty. Ltd.	£883
1949	1 - 8" & 8" "Milro" Power Hack Saw Demco Machinery Co. Pty. Ltd.	£269
1949-50	1 2-ton Overhead Travelling Crane Johns & Waygood Ltd.	£1310
1950	1 3' Hand "Douglas" Industrial Platform Truck James Hicks Pty. Ltd.	£395
	1 24" "Sagar" XP Planing & Thicknessing Machine	£985
	1 30" " " CC2 No. 2 Planing & " "	?
	McPherson's Ltd.	
	1 "Herbert" A.12 H.D. Buzzing Machine Frank Vial & Sons Pty. Ltd.	£225
1951	1 "Broomwade" T.S. I.B. Air Compressor Knox Schlapp Pty. Ltd.	£3665
	1" White "Rapid Crosscut Saw, etc. Brown & Dureau Ltd.	£453
	1 "Granowski" Shot Blast Cabinet, 5' x 4' x 3' H.L. Edmondson	£659
1952	1 "Kendall & Gent" 2" - 1½" Bolt & Tube Screwing Machine McPherson's Ltd.	£1020
	1 "Kelvin Hughes Ltd. of London" Supersonic Flaw Detector, etc. Amalgamated Wireless (A'asia) Ltd.	£988
1954	1 "Richards" Boring and Facing Machine & Accessories McPherson's Ltd.	£10,879
	1 "Macson" 15½" x 16' Screw Cutting Lathe & Accessories	£5772
	1 "Macson" 8½" x 8' " " " "	£1879
	McPherson's Ltd.	
	1 "Rapier" Mobile Jib Crane Noyes Bros. (Melbourne) Ltd.	£3700
	3 Diesel Portable "Broomwade" Air Compressor Knox Schlapp Ltd.	£7293
	1 "Little John" 5" Centre Engine Lathe Demco Machinery Pty. Ltd.	£512
	6 "Macson" 17" Swing Lathes	£1833 Each
	1 "Macson" No.2 Tool & Cutter Grinder McPherson's Ltd.	£1064
	3 "Ward" No.7 Combination Turret Lathes )	
	1 " " No.8 " " " " )	£15,383 Lot
	McPherson's Ltd.	
	1 "Wadkin" 10" centre Wood Turning Lathe A.E. Supplies Pty. Ltd.	£672
	1 "Newall, Keighley" Universal Grinding Machine Norman N. Benson & Co. Pty. Ltd.	£3733



## WORKSHOPS EQUIPMENT

- 5 -

1954	4 Herbert <sup>3</sup> / <sub>4</sub> " Vertical Drilling Machine Alfred Herbert (A'asia) Pty. Ltd.	£1,187
	1 "Simpson" Sand Mill A. Noble & Son Ltd.	£345
1955	3 "Macson" 8 <sup>1</sup> / <sub>2</sub> " centres (17" Swing) x 8' Gap Bed Lathes McPherson's Ltd.	£1,940 each
	1 "Major" Heat Treatment Furnace Major Furnace & Combustion Engineers Pty. Ltd.	£662
1956-7	1 "Comweld" Type 48 Flame Profile Cutting Machine C.I.G. (Victoria) Pty. Ltd.	£510
1957	1 Hand Operated Spring Eye Rolling Machine McPherson's Ltd.	£484
1958	1 Rockwell Hardness Testing Machine 1 Brinnell " " " W. & T. Avery (Aust.) Pty. Ltd.	£256 £572
	1 "Lincomweld" Air Welding Machine; etc. Lincoln Elec. Co. (Aust.) Pty. Ltd.	£1,349
1959	1 Abrasive Wheel Cut-Off Machine A.J. Wilcox	£389
	1 "Barker" Model Y" Belt Sanding Machine McPherson's Ltd.	£373
	2 "Lincomweld A.F.3" Submerged Arc Welding Machines Lincoln Electric Co. (Aust.) Pty. Ltd.	£3,380 Lot
1960	1 "John Heine" Model 166B Paneer Guillotine Squaring Shears McPherson's Ltd.	£1,098
	1 "Amsler" 200-ton Press Wm. Adams & Co. Ltd.	£2,198
	1 "John Heine" Model 66 H Cramp Folding and Bending Machine McPherson's Ltd.	£495
	1 "Fel Electric 184" Magnetic Crack Detector H.B. Selby & Co. Pty. Ltd.	£1,650
	1 "Mitcham" 3' x 3' x 3' Pressure Blast Cabinet Vacu-Blast (Aust.) <del>Exar</del> Pty. Ltd.	£1,647
	1 "Brush" L.E. 22 Rider Controlled Battery/Electric Elevating Platform Truck Production Plant Ltd.	£1,310
	1 "Leitz Metallux" Metallurgical Microscope Pyrox Pty. Ltd.	£585
	1 "Wayne" Model 703 Industrial Sweeping Machine Liberty Ind. Trucks Pty. Ltd.	£768
1961	1 "Barker" Double Spindle Moulding Machine McPherson's Ltd.	£925
1962	1 "Hyster Ransome Model NR 20" Battery/Electric Fork Lift Truck, 1000 lbs. capacity Wm. Adams Tractors Pty. Ltd.	£2,788
	1 "Wayne" Power Sweeper, Model 703, Liberty Ind. Trucks Pty. Ltd.	£710
1963	1 Gas Heated Liquid Carburising Furnace D. Wilkinson & Co. Pty. Ltd.	£687

## WORKSHOPS EQUIPMENT.

-6-

1963	1 Electrically Heated Air Re-circulating Furnace D. Wilkinson & Co. Pty. Ltd.	£1,280
1964	2 "Wayne Model 703" Power Driven Floor Sweepers Liberty Ind. Trucks Pty. Ltd.	£1,420
1965	1 "Pullmac P.6" Plate Working Machine Rockley Mach. Co. Pty. Ltd.	£1,021
	1 "Fiat" 211 B6 Petrol Tractor Fiat Motors (Victoria)	£705
	1 "Wayne 703" Power Sweeper Waynes (Sales) Pty. Ltd.	£565
1966	1 Gas Fired Industrial Heating Oven Park Industries Pty. Ltd.	£640
	1 10-ton Hydraulic Press Steelweld Pty. Ltd.	£1,280
1966-67	8 Compressed Air Foam Cleaning Units for Running Sheds Tram Cleaning I.C.I.A.N.Z. Ltd.	£4,080
1967	1 Trichlorethylene Degreasing Plant I.C.I.A.N.Z. Ltd.	£3,426
1968	1 "Servian Model R6" Radial Drilling Machine, 1½" capacity Servian Machine Tools (Aust.) Pty. Ltd.	£1,837
	1 "Woodfast" Abrasive Belt Platen Grinder with "Harrison" Dust Collector McPherson's Ltd.	£2,160