

ANNEXES.

The major portion of the War-like stores made in Australia during the 1939-45 War effort came from the industrial establishments conducted by private enterprise pre-war. The capacity available was greatly increased by the setting-up, in association with those Factories, of Government Annexes financed almost exclusively with Government funds and equipped with Government-owned machine-tools and other plant items appropriate for the munitions concerned. Management was the responsibility of the Company, the objective being maximum production in the shortest time and at the most favorable cost to the Commonwealth.

There are listed hereunder the Companies and the State Government Workshops which conducted these War-time Annexes, together with a brief summary of the type (or types) of munitions production entrusted to each. It will be noted that practically every industrial establishment of any consequence throughout the Commonwealth shared in this section of the national War-effort. A large proportion of these Munitions contractors were contractors for aircraft and other sections of War-time production.

These Annexes which had been established under the pre-War "educational orders" scheme are marked with an asterisk, thus *.

State	Establishments	Locations	Projects
New South Wales	Acetone Pty.Ltd.	Lane Cove	Acetone
	A. Goninan & Co. Ltd.	Newcastle	Refrigeration barges
	Airzone (1921) Ltd.	Camperdown	Grenades assembly
	*Amalgamated Wireless (A/asia) Ltd.	Ashfield	Fuses 20-mm Cerlikon shell
	Australian Aluminium Co. Pty.Ltd.	Granville	Aluminium scrap remelting
	Australian Consolidated Industries Ltd.	Waterloo	Mortar bomb castings
	Australian Gaslight Co.	Wortlake	Plant for disposal of fatty acids from Lever Bros. glycerine plant Toluol from coal gas
	Australian General Electric Ltd.	Auburn	5-KVA alternators
	Automatic Totalisators Ltd.	Sydney	Jigs, tools and gauges
	Australian Window Glass Pty.Ltd.	Alexandria	Optical glass

Bradford Kendall Ltd.	Alexandria	Aircraft bombs assembly Tank castings; general engineering Heat Treatment capacity
British Optical Co. Pty.Ltd. Company	Darlinghurst	Optical munitions
Broken Hill Pty.Ltd.	Newcastle	Shot Shell Magnesium powder 80-ft. Steel lighters
Chubb's Australian Co.Ltd.	Sydney	Recuperator blocks
Clyde Engineering Co.Ltd.	Granville	Buildings and equipment
+Colonial Sugar Refining Co.	Pymont	Activated carbon Shell Glycerine
Commercial Steels & Forge Co. (Aust.) Pty.Ltd.	Lidcombe	Stores accommodation
+Commonwealth Steel Co.Ltd.	Waratah	Shell and 4.2-in. mortar bombs Gun forgings
Cooper Engineering Co. Pty.Ltd.	Mascot	Tracer and Igniter No. 12, fuses Jigs, tools and gauges
Coote and Jorgensen Ltd.	Alexandria	Tank gears and parts; components for marine craft.
Davies Shepherd (Sydney) Pty.Ltd.	Mascot	Torpedo components
+R.B. Davies Pty.Ltd.	Marrickville	Grenades 36 Grenades 68
Duly and Hansford Pty.Ltd.	Marrickville	Fuses, Gaines
+Electricity Meter Manufac- turing Co. Pty.Ltd.	Waterloo	Fuses 20-mm Gerlikon shell Primers
E.R.L. Products Pty.Ltd.	Glebe	Aircraft bomb pistols Primers
Ferrier & Dickinson Ltd.	Marrickville	Auxiliary marine craft outfitting depot
Fletcher Springs Pty.Ltd.	Redfern	Small wire springs
G.E. Crane and Sons Pty.Ltd.	Sydney	Duralumin, alclad and aluminium sheet
General Motors-Holden's Ltd.	Pagewood	25-pdr. Gun Howitzers
+Gilbert and Barker Pty.Ltd.	Alexandria	Fuses, contact mine, A.T., Fuse 231
Goulburn Gas and Coke Co.Ltd.	Goulburn	Contribution towards gas mains
Hadfields Steelworks Ltd.	Alexandria	Tank and carrier castings; general engineering

N.S.W.

Howard Auto Cultivators	Northmead	Owen Gun parts Pistols
Imperial Chemical Industries of Aust. and NZ. Ltd.	Botany	Chlorine, perchlore- thylene, hexachlofe- thane
Industrial Steels Ltd.	Lidcombe	Tank castings and track links Bomb castings, machining and assembly
Lever Bros. Pty.Ltd.	Balmain	Glycerine
+N.S.W. Railway Workshops	Everleigh & Chullora	Shell Originally tank assembly, later auxiliary marine craft Radar equipment Tools, jigs and gauges
Riverside (Aust.) Pty.Ltd.	Cardiff	Tools, jigs and gauges
Plumbs (Aust.) Pty.Ltd.	Alexandria	Shell
Quality Castings Pty.Ltd.	Waterloo	Silicon iron castings
Rylands Bros. (Aust.) Pty.Ltd.	Newcastle	2-pdr. links and Bren- gun magazines
Silovac Electrical Products Pty.Ltd.	Camperdown	Tools and gauges
Slazengers Pty.Ltd.	Alexandria, Putney and Newcastle	Rifle and Bren-gun compon- ents and boxes Filter pads for anti-gas respirators Auxiliary marine craft Timber creosoting
Sonnerdale Pty.Ltd.	Petersham	Gear boxes for tanks; marine engine gear boxes General capacity for production of gears
S.T. Leigh Pty.Ltd.	Kensington	Fuses
+Stewarts and Lloyds (Aust.) Pty.Ltd.	Newcastle	25 pdr. shell forgings 5.5 in. shell machining
Sulphide Corporation Ltd.	Newcastle	Nickel matte roasting
Sydney Williams and Co. Pty.Ltd.	Dulwich Hill	Tools and gauges
Timbrol Ltd.	Rhodes	Aniline, Monoethylaniline, Diethylaniline, etc.
Tulloch's Pty.Ltd.	Rhodes	Auxiliary marine craft
Wunderlich Ltd.	Rosehill	Mortar bombs, machining
+Westinghouse Brake (Aust.) Pty.Ltd.	Concord	Depth Charge pistols and primers
Westinghouse Rosebery Pty.Ltd.	Waterloo	5-KVA ^{generating sets} alternators
Albright and Wilson (Aust.) Pty.Ltd.	Yarrawille	Phosphorus grenades Amorphous phosphorus Sulphur phosphide

VICTORIA

ANNEXES (Contd.)
Victoria "

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Australian Aluminium Co.	Wangaratta	Aluminium fabrications
+Australian Glass Manufacturers Co. Pty. Ltd.	Spotswood	Shell machining 3.7-in. Shell machining 4.5-in. smoke Shell forging Fuses Diecasting Toolsetters' training school
Australian Paper Manufacturers Ltd.	Meryvale & Melbourne	Paper wood cellulose Alpha cellulose board
British United Shoe Machinery Co. of Aust. Pty. Ltd.	Fitzroy	Heat treatment, anti-tank gun components Recuperators for anti-tank guns
+Chas. Ruwolt Pty. Ltd.	Richmond & Holmesglen	Mortar bombs Gun production, etc. A. P. Shot Mortar bombs Steel barges Armour-plate castings
Commonwealth Fertilisers and Chemicals Ltd.	Yarraville	Pyrites roasting plant in connection with production of sulphuric acid and oleum.
Crusader Plate Co. Pty. Ltd.	Abbotsford	Mortar bombs, smoke
Dominion Can Co. Pty. Ltd.	Melbourne	Fuses
Explosives Factory No. 5 (under management of ICIANZ)	Albion	TNT, Cordite 1, Carbonite Ballistite, etc. Charcoal and Gunpowder Experimental Station
F.L. Cook and Williams Pty. Ltd.	Abbotsford	Grenades
+Ford Manufacturing Co. of Aust. Pty. Ltd.	Geelong	Mines Auxiliary marine craft, with facilities for assembling and launching
+H.E. Brehaut Pty. Ltd.	Mont Albert	Tail units for aircraft bombs, mortar bombs
H.A. Chivers	Melbourne	Torpedo components
+H.V. McKay, Massey Harris Pty. Ltd.	Sunshine	Shell A.P. shot
+Imperial Chemical Industries of Aust. and N.Z. Ltd.	Deer Park	Gunpowder Signal cartridges, Tracer shot cartridges Percussion Caps Methenol Primer Caps for grenades Trench mortar cartridges A.S. Chlorosene Chlorosene packing unit Solid sodium chlorate Pure potassium and

J. Botterill and Fraser	South Melbourne	Auxiliary marine craft
John McIlwraith & Co.Pty.Ltd.	Richmond	Fuses tracer and igniter No. 12
+ Johns and Waygood Ltd.	South Melbourne	Mortar bombs
J.W. Handley Pty.Ltd.	Abbotsford & Brunswick	Optical munitions
Jeffree Bros.	Bendigo	Aluminium powder - flake and blown
Marfleet and Weight Pty.Ltd.	Abbotsford	Heavy machine tools
+McKenzie and Holland Pty.Ltd.	Newport	Fuses Aircraft practice bombs
Metropolitan Gas Co.	Melbourne West Fitzroy	Ammonia liquor Machine-gun carriers
Melbourne Iron & Steel Pty.Ltd.	Brooklyn	Casting of bomb ingots for Ordnance Factory Preparation and rolling of steel for A.P. shot
Myttons Ltd.	Sth. Melbourne	Primers
Purvis Glover Engineering Pty.Ltd.	Footscray	Fuses Primers
Olympic Tyre & Rubber Co.Ltd.	Footscray	Field telephone cable
Ruskin Motor Bodies Ltd.	West Melbourne	Assembly of aircraft bombs
Specialised Engineering Products Co.	East B righton	Torpedo components
Stanger and Co.Pty.Ltd.	West Preston	Tools and gauges
Steel Co. of Aust.Pty.Ltd.	Coburg	Tank-track links
Sutton Tool and Gauge Manufacturing Co.Pty.Ltd.	Northcote	Tools and gauges
Thompsons Engineering and Pipe Co. Ltd.	Castlemaine	Forging, machining and testing for guns, etc. Non-ferrous forgings
University of Melbourne	Melbourne	Valve manufacture investigation
+ Victorian Railways	Newport & Melbourne	Shell Electrical instruments
Waldron Pty.Ltd.	Collingwood	Electric drills and grinders
W. Watson and Sons Ltd.	Tunstall	Pyrometers
W.G. Goetz and Sons Ltd.	Spotswood	Fuses

ANNEXES (Contd.)
Queensland "

Metal Products Pty.Ltd. Albion Shell igniters, gages
Queensland Railways Ipswich Tools, jigs and gauges
Toowoomba Foundry Pty.Ltd. Toowoomba Primers

SOUTH AUSTRALIA

British Tube Mills (Aust.) Kilburn Oil and fuel bottles for
Pty.Ltd. torpedoes
Cold-drawn steel tubes
Broken Hill Pty.Co. Ltd. Whyalla Shell
Forgings
+Colton, Palmer & Preston Ltd. Adelaide Grenades
David Shearer Ltd. Mannum Track links for machine-
gun carriers
+General Motors-Holdens Ltd. Woodville, Aircraft bombs
Beverley and Gun Production
Birkenhead Polsten gun
Torpedo components
Ammunition boxes
40-mm shell
Howwood Bagshaw Ltd. Mile End Anti-tank guns
I.C.I.A.N.Z. Ltd. Osborne Calcium chloride
Kelvinator (Aust.) Pty.Ltd. Keswick Primers
Perry Engineering Co. Mile End Shell forgings and
machining
Forgings
+Pope Products Ltd. Beverley Gages, Aircraft practice
bombs
Richards Industries Ltd. Keswick Cartridge containers, etc.
+Sth. Aust. Railways Islington Tools, jigs and gauges
Shell machining
Shell forging
Southcott Ltd. Adelaide Heat treatment of tools
and gauges
Stewarts and Lloyds (S.A.) Kilburn Hot-rolled tubes for
Pty.Ltd. hollows
Wheatley and Williams Bowden Non-ferrous castings
Wiles Chromium and Electro- Mile End Wiles mobile cookers
plating Co. Ltd.

WESTERN AUSTRALIA

Boltons Ltd. Perth ~~Explosive~~ Mortar bombs,
machining
Geo. Hill and Co. Perth Primers
Hadfields (W.A.) Ltd. Perth Mortar bombs, castings
Perth Optical munitions

Western Australia (Contd.)

West Australian Government: Midland Junction Railway Workshops and State Engineering Works	North Fremantle and Midland Junction	Shell forging and machining Development of steel casting capacity Tools, jigs and gauges
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TASMANIA

← Associated Pulp and Paper Mills Ltd.	Burnie	Chlorine
Electrolytic Zinc of Aust. Ltd.	Risdon	Zinc alloy
E.N. Waterworth Annexes, Universith Grounds	Hobart	Prisms and optical munitions
Henry Jones and Co. Pty.Ltd.	Hobart	Primers
Tasmanian Railways	Launceston	Tools, jigs and gauges Shell, Mortar bombs

OPTICAL MUNITIONS

The Optical Munitions Project was distributed among the following organisations, in order of importance:

- University of Melbourne
- Commonwealth Solar Observatory
- E.N. Waterworth Annexes, Hobart
- University of Sydney
- Australian Optical Co. Ltd., Sydney and Melbourne
- National Standards Laboratory
- University of Western Australia
- University of Adelaide
- Council for Scientific and Industrial Research
- Sydney Technical College
- Melbourne Technical College
- British Optical Co. Pty.Ltd., Sydney.